

Miscellaneous Civil , Plumbing and Electrical Works							
S.No		Item description	UNIT	QTY	RATE/UNIT (INR)	AMOUNT (INR)	REMARKS
1	Cafe at Training Center						
A	Puf Sheet Leakage Repair	Repairing leakage in existing PUF sheet roofing, including identification of leakage points, removing damaged sealants/fasteners, cleaning, applying approved sealant/tape/bituminous compound, replacing defective fasteners if required, ensuring watertight joints, and finishing complete. The rate shall be inclusive of all materials, consumables, labour, scaffolding arrangement, tools & tackles, and safe disposal of debris, all complete as directed.	sqm	21			Existing puf sheet to be used. Junctions b/w wall and puf sheet and intermediate joints to be filled.
B	Re-laying and compaction of existing Sadarahalli stone flooring	Re-laying of existing Sadarahalli stone flooring , including lifting of loose/damaged stones, resetting stones in proper line, level & slope, filling of joints with cement grout, compaction, rubbing, polishing, cleaning and curing complete. The rate shall include all labour, materials (except stones), tools, incidental charges, all as directed.	sqm	125			The University got the stone. Same to be relaid.
B.1	PCC below stone	Providing and laying Plain Cement Concrete (PCC) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20 mm nominal size) as layer for Sadarahalli stone, including soil levelling, cutting, manual mixing, laying, compacting, and curing complete as directed.	cum	12.5			
C	Rain water down Intake	Providing, fixing, and jointing UPVC rainwater downpipe of 110 mm dia, including necessary specials, fittings, clamps, and supports, reconnecting to the existing inlet/outlet system, testing of joints, complete as per IS:4985 and IS:1200 (Part IX). The rate shall be inclusive of staging, fixing, labour, scaffolding, and all incidental charges, complete as directed.	rm	42			TC Café, Himalaya
C.1	Excavation & Refilling	Excavation and Refilling in all types of soil for Pipe Laying , including dressing of sides, ramming of bottoms, disposal of surplus earth within 50 m lead, complete as instructed.	cum	3			
D	Windows Cill	Providing and fixing machine cut polished granite stone / Sadarahalli stone window cill, 50 mm thick and 50mm projection at both the faces, of approved shade, set in cement mortar (1:4) bedding, including cutting, chipping of wall top layer, moulding, edge polishing, nosing, finishing, cleaning, curing, and all incidental charges complete as per Instruction of Engineer Incharge.	sqm	2.025			
E	Windows Grill	Providing, fabricating, and fixing double-leaf MS window with ISI marked mild steel channel framing, intermediate portion made with MS square section, including fixing of galvanized wire mesh (standard 14 gauge, 25 × 25 mm), hinges, handles, tower bolts, stoppers, holdfasts, etc., complete with one coat of red oxide zinc chromate primer and two coats of enamel paint of approved shade, all labour, materials, and tools complete as per IS 1038 / IS 7452.	sqm	1.8			
2	Ashu Café Landscape and						
A	Lawn and Landscape	Doing grading approximately upto a thickness of 15cms to achive the final shape of land formed with a suitable planting mix of earth, sand, manure etc. as per proportions to form the final surface and planting of grass, plants.	sqm	1000			The vendor needs to see the location. The rate to include cost of grass and plants.
B	Lights	Supply and installation of string of lights along with required cabling from the tap point.	m	100			e.g. Havells Celebrations Delight Solar String Light for Indoor & Outdoor Festival Decoration (10 Metre, 33 Feet, 21 Bulbs & 3 Spare Bulbs) / Equivalent
C	Sadarahalli stone	Providing and laying approved quality Sadarahalli stone flooring of size 500 mm × 900 mm and 75 mm thickness, flame-finished, laid over a 75 mm thick PCC and below compacted sand bed, including filling of gap in cement grout, finishing, rubbing, polishing, cleaning, and curing complete, all as directed by the Engineer-in-Charge. The rate shall be inclusive of soil cutting, levelling, compaction, PCC Laying, demolition of existing sub-structure (if any), and all labour, materials, tools, and incidental charges.	sqm	30			

3	Conversion of CCL Office & Moot Court to Classroom (OAB First Floor)						
	Demolition	Type 1 Demolishing and removal of existing block/brick masonry, for all thickness inclusive of RCC Lintels/ Patlis, plastering, cutting reinforcement bars, stacking of serviceable materials as directed and disposing them off site as per the instructions of the client. Type 2 Demolition and removal of gypsum walls, storage units, furniture, electrical fittings (lights, fans), and all other fixtures in CCL Room and Moot Court Room, including removal of plaster, stacking of serviceable materials as directed, and disposing of unserviceable materials off site as per the instructions of the client. The rate shall be inclusive of all labour, materials, tools & tackles, scaffolding, transportation, and complete in all respects for all locations and levels, as directed by the University.	lumsun	1			The Vendor to see both the rooms and give the quote accordinly. No extra amount to be added later.
	Plastering	Providing and applying 12mm thick plaster on Floor,internal surfaces of RCC / brick/block walls in cement mortar 1:4 (1 cement : 4 fine sand), finished rough and ready to take on POP punning / wall finishes / wall dado. Rate shall include for grooves, curing, surface preparation before the application of plaster, providing GI chicken mesh as mentioned above to a width of 150mm at the junctions of masonry and concrete works including tying in position by using suitable nails / clamps / screws and as directed etc. complete at all levels. The contractor shall make good the grooves, pockets etc.	sqm	20			
	PCC	Providing and laying Plain Cement Concrete (PCC) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 20 mm nominal size) as layer for Sadarahalli stone, including soil levelling,cutting, manual mixing, laying, compacting, and curing complete as directed by Engineer-in-Charge.	cum	1			
	Painting	Providing and applying 1 coats of fine putty, 1 coat of primer,2 coats of paint antifungal of approved colour and shade to internal walls and ceiling after thorougly sand papering surfaces to remove dust, dirt etc. and repairing dents, cracks, holes with POP to achieve level surface including cost of material, labour, scaffolding etc. all complete as directed by the Client . Rate to include application at all heights and levels, surfaces and textures.	sqm				
		Option 1 : Tractor Emulsion	sqm	500			
		Option 2: Premium Emulsion	sqm	250			
		Option 3: Enamel Paint	sqm	250			
4	Library						
A	Water Proofing	Removal of screed, plaster, flooring etc up to loose/required level. and carting away the same from site.	sqm	300			The vendor needs to give 5 year warranty.
		Application of PCC work at terrace area , Where seepages observed through damaged surface of terrace area, To arrest as per below said procedure. 1) Chipp the existing surface upto mortar level using suitable machine and clean the surface with blower. If any cracks , Fill it with SBR Chemical mixed Portland cement and later do base coat of SBR Chemical quote using brush. 2) Apply PCC ( Cement+Sand + IWP Chemical) upto the required thickness with existing surface level and allow for air curing.	sqm	300			
		Providing and applying two coats of 20mm cement plaster 1:4 (1 cement : 4 coarse sand) including providing & mixing water proofing compound (CICO) as per manufacturers specification and with a floating coat of neat cement. the rate shall include curing, surface preparation before the application of plaster, providing GI chicken mesh to a width of 150mm at the junctions of masonry and concrete works including tying the mesh in position by using suitable nails / clamps / screws and as directed etc. complete at all levels.	sqm	300			

		Providing and applying two coats of Exterior Grade Weather Shield Emulsion paint of approved brand, colour and shade as per manufacturer's specifications over one coat of primer on concrete /plastered surfaces. The surfaces shall be thoroughly cleaned before painting. The Painting shall be done as per manufacturer's specifications. The rate is inclusive of cost of material, labour etc at all levels as directed.	sqm	300			
		Application of Waterproofing on Terrace , Parapet wall and wall areas of Entire Terrace by Using Branded STARPROOF HR 900 as per below said procedure. 1) Clean the surface with Jet wash to remove the dust ,dirt , If required do surface grinding & later allow for air curing. Do base coat of STARPROOF SUPRER PRIME which is styrene acrylic modified primer which has deep impregnated action on porous substrate , Semi opaque film over the substrate using a roller or brush application. 2) Do 1st Coat with STARPROOF HR 900, Is a single component Coatign with high solar reflection , Which keeps roofs cool in high hot weather conditions and also acts as a protective coating as well as protection from thermal shocks, UV Protection ,Dirt pick up. Improve indoor thermal comfort,High Heat insulation , Wasable, Low VOC. Repeat for top coat using either roller or brush and allow for air curing of 6-8Hours of time.	sqm	300			
	Light	Supply and fixing of compact, efficient ceiling-mounted LED downlighters suitable for indoor and outdoor use. The luminaire is constructed from pressure die-cast aluminium with non-corrosive stainless steel fasteners, clear toughened glass, and a continuous silicone gasket for high protection. It features hybrid optics (lens and reflector) for high efficiency and low glare. Prewired with an integral constant current LED driver for 240V, 50Hz single-phase AC supply. Surface-mounted with a cast aluminium plate and includes provisions for through-wiring. Available in 2700K, 3000K, 4000K, and 6500K CCT options. Finished in polyester powder-coated RAL 9004, RAL 9007, RAL 7016, or Graphite Grey. Ideal for lobbies, foyers, retail, corporate, residential, hospitality, and educational spaces. The cost also includes all materials labour, scaffolding, staging, etc., at all levels as directed.	No	25			
	Puff Sheet	Replacing damaged puff sheet/ transparent polycarbonate sheet, including carefully removing the damaged sheets, existing sealants, and defective fasteners; cleaning the surface; applying approved sealant/tape/bituminous compound at joints; replacing fasteners wherever required; fixing new PUF sheets in proper alignment to ensure watertightness; and finishing the work complete. The rate shall be inclusive of all materials, consumables, labour, scaffolding arrangement, tools & tackles, and safe disposal of debris, all as directed.	sqm	10			
5	Hostel						
A	Narmadha Hostel R.No: 106	Cleaning, preparing, and applying epoxy grout to joints in existing vitrified tiles in the restroom area, including removal of old grout, surface cleaning, joint filling with approved epoxy grout (as per IS 15477), ensuring proper bonding, curing, and finishing to achieve a neat, water-resistant, and durable joint as per Instruction of Engineer In charge.	sqm	24			
		Providing and applying 2 coats of fine putty, 1 coat of primer, 2 coats of apcolite premium emulsion satin antifungal of approved colour and shade to internal walls and ceiling after thoroughly sand papering surfaces to remove dust, dirt etc. and repairing dents, cracks, holes with POP to achieve level surface including cost of material, labour, scaffolding etc. all complete as directed by the Client . Rate to include application at all heights and levels, surfaces and textures.	sqm	15			
		Providing, joining, testing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes 19mm/20mm conforming to IS15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes drilling, jointing of pipes and fittings with one step CPVC solvent cement and testing of joints	rm	20			

		Providing and laying Flooring/Wall with Vitrified tiles of approved shade and sample, of size as per selection, in approved pattern, as per the Drawings provided, on an average bed of up to 25mm thick cement mortar 1:4 (1 cement : 4 coarse sand), with neat cement float, maintaining required slopes, grouting them in neat Epoxy grouts as manufactured by BAL Endura or Latecrete, with 3mm wide spacer bars to match shade of the tile, inclusive of demolition/chipping old tiles ,surface preparation, cleaning, protecting the floor with POP / bubble sheet as mentioned in the notes above, etc. complete.	sqm	6		
		Supplying and fixing Wall Mixer L Bend Faucet (Hindware Catalogue No. F690020CP), precision crafted, ergonomically designed for smooth functionality and optimal reach, complete with all standard accessories, including cost of materials, consumables, labour, tools & tackles, testing and finishing, all complete as per manufacturer's specification and as directed by Engineer-in-Charge	Unit	5		
B	Himalaya Staircase /Electrical Room/Boys Hostel Passage	Removal of screed, plaster, flooring etc up to loose/required level. and carting away the same from site.	sqm	80		
		Application of PCC work at terrace area , Where seepages observed through damaged surface of terrace area, To arrest as per below said procedure. 1) Chipp the existing surface upto mortar level using suitable machine and clean the surface with blower. If any cracks , Fill it with SBR Chemical mixed Portland cement and later do base coat of SBR Chemical quote using brush. 2) Apply PCC ( Cement+Sand + IWP Chemical) upto the required thickness with existing surface level and allow for air curing.	sqm	80		
		Providing and applying two coats of 20mm cement plaster 1:4 (1 cement : 4 coarse sand) including providing & mixing water proofing compound (CICO) as per manufacturers specification and with a floating coat of neat cement. the rate shall include curing, surface preparation before the application of plaster, providing GI chicken mesh to a width of 150mm at the junctions of masonry and concrete works including tying the mesh in position by using suitable nails / clamps / screws and as directed etc. complete at all levels	sqm	80		
		Providing and applying two coats of Exterior Grade Weather Shield Emulsion paint of approved brand, colour and shade as per manufacturer's specifications over one coat of primer on concrete /plastered surfaces. The surfaces shall be thoroughly cleaned before painting. The Painting shall be done as per manufacturer's specifications. The rate is inclusive of cost of material, labour etc at all levels as directed	sqm	80		
		Application of Waterproofing on Terrace , Parapet wall and wall areas of Entire Terrace by Using Branded STARPROOF HR 900 as per below said procedure. 1) Clean the surface with Jet wash to remove the dust ,dirt , If required do surface grinding & later allow for air curing. Do base coat of STARPROOF SUPRER PRIME which is styrene acrylic modified primer which has deep impregnated action on porous substrate , Semi opaque film over the substrate using a roller or brush application. 2) Do 1st Coat with STARPROOF HR 900, Is a single component Coatign with high solar reflection , Which keeps roofs cool in high hot weather conditions and also acts as a protective coating as well as protection from thermal shocks, UV Protection ,Dirt pick up. Improve indoor thermal comfort,High Heat insulation , Wasable, Low VOC. Repeat for top coat using either roller or brush and allow for air curing of 6-8Hours of time.	sqm	80		
		Providing and applying Single coats of fine putty & tractor emulsion satin antifungal of approved colour and shade to internal walls and ceiling after thoroughly sand papering surfaces to remove dust, dirt etc. and repairing dents, cracks, holes with POP to achieve level surface including cost of material, labour, scaffolding etc. all complete as directed by the Client . Rate to include application at all heights and levels, surfaces and textures	sqm	600		
		Providing and applying enamel paint of approved brand, colour, and shade as per the manufacturer's specifications over two coats on doors, windows, and other furniture. The surfaces shall be thoroughly cleaned before painting. The painting shall be carried out as per the manufacturer's specifications. The rate is inclusive of the cost of materials, labour, scaffolding, staging, etc., at all levels as directed.	sqm	134		

C	Hooghly Washroom/Boys Hostel Mess	Providing and laying Flooring/Wall with Vitrified tiles of approved shade and sample, of size as per selection, in approved pattern, as per the Drawings provided, on an average bed of up to 25mm thick cement mortar 1:4 (1 cement : 4 coarse sand), with neat cement float, maintaining required slopes, grouting them in neat Epoxy grouts as manufactured by BAL Endura or Latecrete, with 3mm wide spacer bars to match shade of the tile, inclusive of surface preparation, removing of existing ties/ plaster, required chipping, cleaning, protecting the floor with POP / bubble sheet as mentioned in the notes above, etc. complete.	sqm	20			To match existing tiles.
D	Brahmaputra Washbasin	Supplying and fixing of MS bracket ( enamel paint to be considered ) for existing wash basin 18 inch in length, including removal of existing fittings, re-installation of wash basin at proper height, securely fixing with approved brackets, filling the gap between basin and floor slab/wall with approved sealant to ensure watertightness, and finishing the work complete. The rate shall be inclusive of all materials, consumables, labour, tools & tackles, transportation, and safe disposal of debris, with no extra cost on account of any incidental work, all as directed.	No	100			100 is the number of washbasins. Vendor to see the site and quote accordingly.
F	Tensile Umbrella	Providing and fixing of existing umbrella tensile structure in reinforced concrete footing of size 0.60 m x 0.50 m x 0.50 m using M20 grade concrete, including excavation, concreting, fabrication and fixing of anchor bolt template embedded in concrete, proper alignment and tightening of existing umbrella structure with anchor bolts, with all materials, labour, tools, and incidental works complete as directed.	No	4			
		Providing and constructing Wire cut Brick Masonry walls in Superstructure using Wire Cut Bricks of size 230x100x75mm of approved quality with crushing strength conforming to IS, in Cement mortar 1:6 including necessary packing of the space between joints for pointing, curing etc., complete all as per drawings. Make of Bricks will be as per selection of the architects (Sabsun / SOBHA MODERN ENTERPRISES or equivalent).	cum	20			Inlusive of required PCC bed
		Providing and fixing machine-cut dressed stone coping (granite / Sadarahalli / approved stone) of 50 mm thickness with 50 mm projection beyond face of wall, including moulding/rounding of exposed edges, laying over cement mortar (1:4) bed, jointing with cement slurry, finishing, curing, cleaning and all incidental charges, complete as per IS:1200 (Part XII) and as directed by Engineer-in-Charge.	sqm	12			
G	Electrical						
	Casing N Capping	Supplying and fixing PVC casing and capping on wall or ceiling including PVC fittings etc.	R.m	315			
	Wiring	multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694: confirming to latest amendments.					
		1.5 Sq.mm - Make : Finolex/Wincap or Equivalent	R.m	315			
		2.5 Sq.mm - Make : Finolex/Wincap or Equivalent	R.m	315			
		1.0 Sq.mm - Make : Finolex/Wincap or Equivalent	R.m	315			
	Surface Box and Plate	Supplying and fixing Glossy White Anchor Roma PVC Surface Box with suitable matching cover plate, made of high-quality polycarbonate as per IS:14772, conforming to electrical fitting standards. Including necessary accessories, surface/concealed mounting, cutting, fixing, finishing, testing and commissioning complete as required. (Switches, sockets, regulators to be measured separately)					
		6 Module	No	35			
		12 Module	No	35			
	Switch/Socket/Fan Regulator	Supplying and fixing of modular switch & connected accessories on New and existing modular switch plate as per IS 3854 and IS 1293.					
		6 Amps switch- Make- Roma or Equivalent	No	280			
		6 Amps universal socket - Make- Roma or Equivalent	No	70			
		Fan Regulator- Make- Roma or Equivalent	No	70			
		Dummy Covers	No	105			

	<b>Tube Light</b>	Supply and fixing of 36W Slimline Advance LED tube light (4 feet), housing color aluminum and gray/white, with the following specifications: beam angle 120°, optical cover type polycarbonate, color rendering index (CRI) >80, luminous efficacy (rated) 105 lm/W, luminous flux 4,000 lm, input voltage 220–240V, line frequency 50 Hz, power factor 0.9, ambient temperature range 0°C to +45°C. Make: Philips / GM or equivalent.	No	35			
	<b>Removing of Existing Fan</b>	Removing of the existing ceiling fan/tube light from the designated hostel room, including the cost of manpower, storage or handover to the university, and all necessary handling charges/equipment etc.,	lumsun	1			For 32 Rooms
	<b>Fan</b>	Supply and fixing of Ceiling mounting Fan, minimum 300 mm sweep, ivory/white color. Ceiling mounting, ideal for low-height areas; minimum 3 aerodynamically designed opaque blades; glossy white finish. The fan should fulfill the following minimum technical specifications: Sweep: 300 mm; air delivery: 75 m³/min; speed: 300 RPM; power: 80 W; voltage: 230 V, 50 Hz; noise level: 60–63 dB. Includes 100-spoke protective grill, upward/downward tilt, dimensions: 36.7 × 36.7 × 28.8 cm, weight: 2.8 kg. Guarantee: 2 years; supplied with mounting kit and guarantee card. MAKE: Havells / Orient / Bajaj or equivalent	No	70			
<b>6</b>	<b>Relocation of Waste Collection Yard</b>						
<b>A</b>	<b>PCC</b>	Providing and laying screed concrete up to 75 mm average thickness in cement concrete M15 GRADE (1:2:4 nominal mix) laid in panels of size not less than 2 Sqm or as approved, to proper level and slope including compactions, to give a smooth and even surface kept ready to take on any type of floor. The rate to include matching the floor levels with the existing floor levels wherever applicable	sqm	43			
<b>B</b>	<b>Rubble Soling</b>	Demolition of existing stone wall and laying in position 600 mm thick rubble soling at plinth level, using stones supplied by client, including preparation of base by mechanical compaction, laying hand-broken metal/rubble and smaller pebbles for void filling, providing murum for binding, watering, packing, and compaction to required density, all complete as directed by the Engineer-in-Charge. The item is inclusive of all leads, lifts, labour, materials (except stone), tools & tackles, safe disposal of debris, and incidental charges.	cum	10			
<b>C</b>	<b>Brickwork</b>	Providing and constructing Solid Concrete Block masonry in proper line and level at all levels in cement mortar 1:6 / 1:4 (1 cement: 6/4 coarse sand) using standard size of Blocks as 400 x 200mm of thickness as given below, with minimum compressive strength of each block not less than 5 N/Sq.mm including all scaffolding, staging, curing, all lifts, raking of joints, all labour, hire and fuel charges for all tools and plants employed etc. complete and as directed. Rate shall include providing Concrete Binders in proportion 1:2:4 (1 cement : 2 Coarse sand : 4 Aggregates), 75mm thick reinforced with 2 nos. of 8 mm dia Fe 500 bars, RCC binders to be at every 1 metre interval from floor level. The rate to be inclusive of cost of reinforcement and formwork, cover blocks for reinforcement and all other incidental charges etc., all complete and as directed. The rate to also include closing the gap between the masonry and RCC beam / slab finished to required slope as directed by the Client. Note:- The width of the joints not to exceed 10mm.	cum	17.9			
	<b>Plastering</b>	Providing and applying in one coat, 12mm thick plaster on internal surfaces of RCC / brick/block walls in cement mortar 1:4 (1 cement : 4 fine sand), finished rough and ready to take on POP punning / wall finishes / wall dado. Rate shall include for scaffolding, grooves, sills, pattas, curing, surface preparation before the application of plaster, providing GI chicken mesh as mentioned above to a width of 150mm at the junctions of masonry and concrete works including tying in position by using suitable nails / clamps / screws and as directed etc. complete at all levels. The contractor shall make good the grooves, pockets etc. after the scaffolding is removed.	sqm	125			

	<b>Puf Sheet</b>	Structural Steel Work in built-up sections, trusses, and framed work including cutting, hoisting, fixing in position, welding/bolting with necessary steel sections (ISMB/ISA/ISMC as per design), in roof slope arrangement for laying Mangalore tiles, including one coat of approved steel primer (red oxide zinc chromate) and two coats of synthetic enamel paint of approved shade on all exposed surfaces, with surface preparation, complete as per IS:800, IS:1200 (Part VIII) & IS:2339, all complete in all respects. (No separate payment will be made for painting work, the rate shall be inclusive).	MT	1.25			
		Roofing with new 50 mm thick PUF sheet, including cleaning the surface, fasteners wherever required, fixing new PUF sheets in proper alignment to ensure watertightness, and finishing the work in all respects. The rate shall be inclusive of supply of all materials, consumables, labour, scaffolding arrangements, tools & tackles, and safe disposal of removed asbestos sheets and other debris, complete as directed by the Engineer-in-Charge.	sqm	48			
<b>E</b>	<b>Old Pavers</b>	Careful removal, cleaning, and relaying of existing pavers in designated areas, ensuring proper alignment, levels, and gradients as per the drawings and instructions of the engineer-in-charge. The work includes preparation of the base by cleaning, leveling, compacting, and filling with sand or bedding material as required. Pavers shall be laid in the specified pattern with joints properly aligned and gaps filled with sand. The rate shall include all labor, tools, equipment, and materials required for cleaning, relaying, and finishing the pavers. Base preparation, including leveling and compacting, is to be included in the rate. Any broken or damaged pavers shall be replaced with new pavers at an extra cost. The work shall ensure uniform levels, gradients, and no visible gaps or misalignment in the finished surface.	sqm	26			
<b>F</b>	<b>Painting</b>	Providing and applying 1 coats of fine putty, 1 coat of primer, 2 coats of apcolite premium emulsion satin antifungal of approved colour and shade to internal walls and ceiling after thoroughly sand papering surfaces to remove dust, dirt etc. and repairing dents, cracks, holes with POP to achieve level surface including cost of material, labour, scaffolding etc. all complete as directed by the Client . Rate to include application at all heights and levels, surfaces and textures.	sqm	125			
<b>7</b>	<b>Plumbing and Chambers Work</b>						
<b>A</b>	<b>Excavation</b>	Excavation of earth in ordinary soil and bitumen road for the plumbing line, with the excess excavated earth being disposed of by spreading in layers to the required levels within the campus. This includes the cost of labor, equipment and machinery, loading and unloading, transportation, and all incidental charges at all leads and lifts, as per the specifications and as directed.	cum	15			
<b>B</b>	<b>Refilling</b>	Refilling the excavated earth/soil from the plumbing line area, which is stored on-site, to the required gradient and profile. This includes leveling, watering, ramming, and consolidating. The cost covers labor, equipment and machinery, leads and lifts, and all incidental charges, as per the specifications and as directed.	cum	15			
<b>C</b>	<b>Pipe Laying</b>	Providing, joining, testing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipe conforming to IS15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.					
		32 mm dia	Rmtr	150			
		40 mm dia	Rmtr	150			
<b>D</b>	<b>PCC</b>	Providing and laying cement concrete of design mix M15 with OPC cement, machine-mixed or manually mixed, and well-compacted to the required thickness at the ground floor level. This includes the cost of shuttering, all materials and labor, completed as per the specifications and direction of the in-charge engineer (excluding the cost of reinforcement, bar bending, and plastering).	cum	2			

E	Chambers	Constructing brick masonry manhole 900 x 900 mm and depth upto 1000 mm top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M10 using 40mm and down size granite meta landmaking necessary channel in cement concrete M50 with 20mm and down size granite metal finished with a floating coat of neat cement, with heavyduty <b>40T FRP</b> frame and cover 600 x 600 mm fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges,Excavation,deomition of exisiting concreete structure complete as per specifications.	No	3			
		Demolishing existing PCC concrete and packed earth material, including breaking, removing, stacking of serviceable material, disposal of debris off-site as directed, complete with labour, tools, etc., as per the in-charge engineer instruction.	cum	1.5			
		Excavation in all kinds of soil for trenches to required depth and width for laying Hume pipes, including dressing of sides, ramming of bottoms, dewatering (if required), refilling with excavated soil in layers not exceeding 200 mm, watering, ramming & compaction to required density, and disposal of surplus earth, complete as per the in-charge engineer instruction.	cum	3			
		Supplying, laying and jointing NP2/NP3 class R.C.C. Hume pipes of 300 mm diameter, including collars, in proper line & level, with cement mortar joints (1:2), curing, testing, and all labour, materials & tools complete as per IS 458.	Rmtr	10			
		Supplying and installing heavy duty 40T capacity FRP square Frame manhole cover with frame (600 mm x 600 mm clear opening), conforming to IS 12592 (Part 1 & 2), including necessary demolition of existing top surface, fixing and embedding the frame in cement concrete (1:2:4) or as specified, aligning in proper level and line, finishing, curing, and disposal of debris, complete with all labour, materials, and tools.	No	1			
9	Parking Demarcation						
A	Road Painting	Providing and applying epoxy marking paint 100mm width of approved brand, colour and shade, conforming to IS:164 (or manufacturer's specification), including thorough cleaning of road surface, applying two coats in uniform thickness for centre line, edge line or other markings as directed. The rate shall be inclusive of cost of materials, labour, tools and all incidental works complete at all levels as directed. This work will also include the numbering.	rm	100			
10	IT Room Construction						
A	Puf Sheet	Replacing damaged Asbestos Cement (AC) sheet roofing with new 65 mm thick PUF sheet, including carefully removing existing AC sheets and fasteners, cleaning the surface, replacing fasteners wherever required, fixing new PUF sheets in proper alignment to ensure watertightness, and finishing the work in all respects. The rate shall be inclusive of supply of all materials, consumables, labour, scaffolding arrangements, tools & tackles, and safe disposal of removed asbestos sheets and other debris, complete as directed by the Engineer-in-	Sq.m	60			
B	Steel Erection	Structural Steel Work in built-up sections, trusses, and framed work including cutting, hoisting, fixing in position, welding/bolting with necessary steel sections (ISMB/ISA/ISMC as per design), in roof slope arrangement for laying Mangalore tiles, including one coat of approved steel primer (red oxide zinc chromate) and two coats of synthetic enamel paint of approved shade on all exposed surfaces, with surface preparation, complete as per IS:800, IS:1200 (Part VIII) & IS:2339, all complete in all respects. (No separate payment will be made for painting work, the rate shall be inclusive).	MT	2.5			



C	Brickwork	Providing and constructing Solid Concrete Block masonry in proper line and level at all levels in cement mortar 1:6 / 1:4 ( 1 cement: 6/4 coarse sand) using standard size of Blocks as 400 x 200mm of thickness as given below, with minimum compressive strength of each block not less than 5 N/Sq.mm including all scaffolding, staging, curing, all lifts, raking of joints, all labour, hire and fuel charges for all tools and plants employed etc. complete and as directed. Rate shall include providing Concrete Binders in proportion 1:2:4 (1 cement : 2 Coarse sand : 4 Aggregates), 75mm thick reinforced with 2 nos. of 8 mm dia Fe 500 bars, RCC binders to be at every 1 metre interval from floor level. The rate to be inclusive of cost of reinforcement and formwork, cover blocks for reinforcement and all other incidental charges etc., all complete and as directed. The rate to also include closing the gap between the masonry and RCC beam / slab finished to required slope as directed by the Client. Note:- The width of the joints not to exceed 10mm.	Cu.m	17			
D	Plastering	Providing and applying in one coat, 12mm thick plaster on internal surfaces of RCC / brick/block walls in cement mortar 1:4 (1 cement : 4 fine sand), finished rough and ready to take on POP punning / wall finishes / wall dado. Rate shall include for scaffolding , grooves, sills, patts, curing, surface preparation before the application of plaster, providing GI chicken mesh as mentioned above to a width of 150mm at the junctions of masonry and concrete works including tying in position by using suitable nails / clamps / screws and as directed etc. complete at all levels. The contractor shall make good the grooves, pockets etc. after the scaffolding is removed.	Sq.m	175			
E	Painting	Providing and applying 1 coats of fine putty, 1 coat of primer, 2 coats of apcolite premium emulsion satin antifungal of approved colour and shade to internal walls and ceiling after thoroughly sand papering surfaces to remove dust, dirt etc. and repairing dents, cracks, holes with POP to achieve level surface including cost of material, labour, scaffolding etc. all complete as directed by the Client . Rate to include application at all heights and levels, surfaces and textures.	Sq.m	175			
F	Door Removal and Fixing	Removal of existing doors (including shutters, frames, and accessories) from the university premises, including necessary demolition, cutting of existing walls wherever required, and refixing the same in proper position with new accessories, complete in all respects. The rate shall include cost of all labour, tools & plants, scaffolding, consumables, new fittings/accessories, and safe disposal of unserviceable material, all as directed by the Engineer-in-Charge. Unit: Each (Nos.)	No	1			
G	Window	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand with horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. (a) 2 Track sliding window (ii) 5mm frosted glass Make: VEKA/ Greentech/ Equivalent	Sq.m	4			
		<b>SUB TOTAL (in Rs.)</b>					
		<b>GST @ 18%</b>					
		<b>Grand Total (in Rs.)</b>					