

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
1	Providing and erecting the safety net of opening 75 mm. x 75 mm. x 12 mm. size in addition to sturdy GI corrugated arresster tray at 1st floor level to prevent the debris falling on ground during progress of work and keeping the same during the entire period of work	250.00	Sq.Mt.		
2	Providing and erecting at site self supported two legged B class tubular steel scaffolding to reach any place of work on external façade of building, including approaches, extension, working platform, ladders, lifting tackle for men and materials etc. all complete, dismantling and taking away all materials and debris after completion of proposed work etc. all complete. (measurement will be along the periphery of the building irrespective of elevation area of scaffolding erected. mesurement consider for once not paid separately for each retrofitting activity such as dismantling of rcc/plaster, shuttering, concreting, masonary, plaster work, curring etc)	425.00	Sq.Mt.		
3	Providing and erecting steel props (about 4.5' height, braced at centre and supporting a continuous 2" x 3" Ms steel runner, resting on wedge and block minimum capacity 2.0 Ton/Smt) to support the structure provisionally during repair and jacketing etc. and maintaining them in position till required as directed by the consultant with adjustable Steel Prop of 50 mm dia., 3.5m ht/6.0 mt height full height and Horizontal and vertical steel beams which can take dead and live load of existing repair structure as directed by Structure engineer/ Engineer in charge.	300.00	Sq.Mt.		
4	Providing and injecting cement slurry Grouting by fixing 10 to 20 mm dia. suitable nozzle of suitable length, over the surface of PCC/RCC/ beam/ etc and along the construction joint line, cracks, wherever required. Fixing of nozzle shall be in the required portion and the Nozzles shall be fixed with suitable size holes preferably by using repercussive hammer drill (electrically operated) including neat cement slurry admixed with water. Soluble non - shrink based chemical shall be injected through the network of nozzles with low pressure grout pumps (PDP) at a pressure of about 2.0 Kg /cm2, preparing cement slurry by mixing cement with non-shrink @ 500 gms/50 kg bag of cement and water, ensuring that Water : Cement ratio does not exceed 2 (by weight). The viscosity of the resultant solution water/cement/non-shrink should not be more than 1.2 centipoises. Plasticizing agent shall be added wherever required. The grouting shall be started at very low pressure and increased gradually to a required pressure. The grouting shall be continued till the hole refuses to take any further grout, even at an increased pressure. Applied pressure shall not be more than the strength of the PCC/RCC/brick masonry. After completion of grouting operation, the nozzles shall be sealed properly to the satisfaction of the Engineer-in-Charge. Quoted rate shall be inclusive of all government tax	189.00	KG		
5	Repair of cracks in masonry wall by cement grouting: Providing and executng injection/pressure grouting in cracks in the parent concrete by fixing PVC nipples at 150mm to 200mm distance or specified distance as per design and detailed specifications. Pressure grouting using polymer cement grout Cebex 100 of FOSROC make or equivalent of MC Bauchemie make as per detail specification shall be done at required pressure etc. complete as per specification and approvals, labour, tools, tackles,couring etc. complete as directed by EIC.	205.00	KG		
6	Cutting the existing crack in a 'V' shape groove cleaning the same with proper means Application of one coats of Epoxy Bonding Agent followed by application of Sika 214 non- shrinkage powder or equivalent over the entire crack area and let dry. Finally plaster the surface wherever necessary.	150.00	R.Mt.		
7	Surface preparation of concrete in RCC columns & beams by using wire brush, scrapper and finally using high pressure water jet to completely remove dust, debris, unwanted particles etc., complete including disposing the debris at designated locations outside the client premises. The rate shall include labour charges, cost of tools, cost of hire charges of high pressure water jet pump etc. to carry out the complete work.	111.80	Sq.Mt.		
8	Rust Removal & Steel Protection.- Cleaning as directed & specified all corrosion/rust/scales from reinforcement bars using rust remover Reebaklens RR of Fosroc make or Rustclean of BASF or equivalent of leaving to dry for 30 mins & washing surface with fresh water as required to exposed reinforcement bars complete as specified also providing & applying inhibtion coats/system to exposed reinforcement bars after drying & also new bars after cleaning & removing scales and rust completely as specified. Two component inhibitor Concrecive ZRI equivalent material of BASF make as approved by engineer shall be used as per manufacturers specification in two coats including all labour tools tackles, necessary surface preparation & necessary protection after & during repair work.	543.00	Sq.Mt.		
9	Providing and fixing extra Reinforcement to corroded bars reinforcement with TMT bars in slab, Beam, Column, Raft, Foundation Footing at any height/level as per site design requirement having a minimum yield strength of 500 N/mm2. Anchor the steel rebar in sound concrete body up to desired depth by structural GRADE pure epoxy resin based cartridge filled and applied adhesiveof approved make or equivalent including joggling, straightening, cutting, bending, placing in position, binding with G.I. wire of 18 gauge etc. complete in all respects. Additional reinforcement with adequate lap length & rings at required spacing shall be tied with existing reinforcement using binding wire or welded complete as per site requirement and directions of Engineer-InCharge. The rate shall be inclusive of scaffolding, propping, disposing-off all the debris etc. Complete as Directed by EIC (actual measurement shall be liable to pay)	3250.00	KG		
10	Providing and applying jacketing around columns, beams, Suspended Beam. Plinth Beam, Ground Beam Etc with Nuvoco "Instamix Microne" or equalent a non shrink high strength premix ready-to-use wet micro concrete with PP fibers strength of M-35 grade of approved make for thickness of repair is more than 100 mm after providing and applying with stiff brush/roller a bond coat of epoxy based of approved make or other approved equivalent make should be provided to ensure that no pinholes are visible and as per manufacturer specification. The rate shall be inclusive of scaffolding providing and fixing water tight centering and shuttering including bolting, strutting, propping etc. including removal of form work from column, beam etc. complete as per site requirement and curing the concrete with wetted gunny bags minimum up to seven days and as directed by Engineer-in-charge (Only Jacketting Suface Shall consider for mesurement) A) Up to 100 MM thk	142.70	Sq.Mt.		

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11	Providing and applying jacketing around columns, beams, Suspended Beam. Plinth Beam, Ground Beam Etc with Nuvoco "Instamix Microne" or equivalent a non shrink high strength premix ready-to-use wet micro concrete with PP fibers strength of M-35 grade of approved make for thickness of repair is more than 100 mm after providing and applying with stiff brush/roller a bond coat of epoxy based of approved make or other approved equivalent make should be provided to ensure that no pinholes are visible and as per manufacturer specification. The rate shall be inclusive of scaffolding providing and fixing water tight centering and shuttering including bolting, strutting, propping etc. including removal of form work from column, beam etc. complete as per site requirement and curing the concrete with wetted gunny bags minimum up to seven days and as directed by Engineer-in-charge (Only Jacketting Surface Shall consider for mesurement) B) Up to 150 MM thk	142.70	Sq.Mt.		
12	Structural Fabrication Work for retrofitting RCC Element - Supplying, Fabricating, Erecting & Fixing in position structural steel for retrofitting and strengthening of RCC element such as beam, column, footing, beam, plinth beam, suspended beam etc as per design and drawings as directed by Structure engineer / Engineer In Charge at all levels using MS angles, beams, channels, tees, plates, pipes, rounds, squares, flats including hard wares like hinges, nuts, bolts, washers, etc. of various sizes and other structural steel sections conforming to IS 2062 including straightening, cutting, fabricating, welding, bending to shape, bolting, fixing in position, welding to other MS structure item or insert plate embedded in wall/concrete at site and finished the surface neat after grouting. Rate shall include Epoxy coating by manual mean at site, erection of structural steel element, plate member, etc. complete, as directed by Engineer In charge. Actual/Net quantities measured shall be paid. Weight of washers, nuts & bolts shall not be paid extra. Note : 1. Welding rods of Adani or Ador make only to be used. 2. ISI marked E-7018 to be used for welding on beam or truss part and 6013 for rest or as directed by Engineer-in-charge. 3. Welding rod to be preheated to 60 degrees centigrade before usage.	2930.00	KG		
13	Anchoring of new re-bars in the RCC Column, Beam, Slab, Flooring , Plinth Beam, Lintel Etc wherever required by using pure epoxy resin anchoring mortar (B18FOSROC/SIKA) with appropriate diameter of drilling of holes required for proper bonding into the concrete etc., complete. The rate shall include labour charges & hiring charges of drilling machine, cost of grouting compound etc., to carry out the complete work. (A) 8 mm dia bar - drilling length of 80-100mm	400.00	Nos		
14	-do- Scope of work similar to all above detail of Anchoring of new re-bars in the RCC other detail shall follow as per detail engineering drawing and as directed by EIC. (b)10 mm dia bar - drilling length of 100-120mm	300.00	Nos		
15	-do- Scope of work similar to all above detail of Anchoring of new re-bars in the RCC other detail shall follow as per detail engineering drawing and as directed by EIC. (b)12 mm dia bar - drilling length of 100-120mm	200.00	Nos		
16	-do- Scope of work similar to all above detail of Anchoring of new re-bars in the RCC other detail shall follow as per detail engineering drawing and as directed by EIC. (d)16 mm dia bar - drilling length of 100-160mm	125.00	Nos		
17	-do- Scope of work similar to all above detail of Anchoring of new re-bars in the RCC other detail shall follow as per detail engineering drawing and as directed by EIC. (e)20 mm dia bar - drilling length of 100-200mm	50.00	Nos		
18	Providing, Drilling and fixing of Shear Connector/Shear Stud of minimum 450 mm long reinforcement at spacing as per drawings and detail to a depth of 75 mm to 100 mm. Fixing shear connectors using reinforcement rebar's in the drilled holes using polyester resin grout for RCC beams, slabs etc., as per the specifications including lead & lift, men, machinery & materials etc., complete as per the directions of engineer -in - charge. Note: Reinforcement steel is measured and paid Separately. (A) 10 mm Dia	50.00	Nos		
19	do- Scope of work similar to all above detail of drilling and fixing of Shear Connector/Shear Stud other detail shall follow as per detail engineering drawing and as directed by EIC. (B) 12 mm Dia	100.00	Nos		
20	do- Scope of work similar to all above detail of drilling and fixing of Shear Connector/Shear Stud other detail shall follow as per detail engineering drawing and as directed by EIC. (C) 16 mm Dia	150.00	Nos		
21	Providing and fixing seismic strap, made of G.I. Weld wire mesh of required size (25x25mm, 3mm nominal diameter Weld mesh, Hot dip galvanizing at the rate of 220 gm per Sqm (Heavy grade) as per IS code 4826, Table 1) on walls with the help of Steel Plate 200 x 75 x 6 mm thk with Minimum six numbers of M16 grade expansion bolts with walling material and Minimum six numbers of 100 mm long nails (Fe250) with Floor member of anchor bolts/bars/binding wires etc. including cutting, bending and binding etc. complete as per direction of Engineer-in-Charge. Overlaps of 100mm shall be allowed in transverse direction. Minimum 10 mm cover on all side of the strap shall be given while Jacketing The same width shall be taken for measurement The Rate Shall Including of including, Stretchning, joggling, straightening, cutting, bending, trimming, placing in position,welding of wire mesh with old reinforcement/Shear Stud, Anchors,steel plates as per drawings and instrtuction, making of holes, jacketing , including Supply of necessary tools and tackels with taking necessary safety precaution scaffolding, PPE, all complete as per Instruction of Structure Engineer/Engineer In Charge. If reinforcement need to place for certain section/geometry/are shall be paid separately	656.00	Sq.Mt.		

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22	Application of Polymer modified plaster :Chip-off/Breaking, corrosion damaged/cracked/spalled concrete including plastering along the cracks on masonry wall , slab, projection or any other suspended/slopped structural slab carefully by low impact Hammer Breaker (electrically operated)/Manual Hammer Breaker without damaging the structure and make sure that the contaminated and loosen concrete are removed completely, including removing and stacking of all unserviceable material at earmarked dump yard at site, simultaneous transportation and disposal of debris outside the office premises at Local municipal dumpyard. Then, exposing and cleaning the reinforcement thoroughly by light tapping/wire brushing and using strong emery paper and finally applying rust remover acetone and keep for 24 hours. Cleaning the reinforcement and the concrete surface thoroughly with potable water and make sure that there are no traces of rust on the surface of existing rebars and keeping the surface for drying. After Cleaning Instalation of Wire mesh/Reinforcement as per site requiremnt or Instruction of Structure Engineer/Site Engineer. After Installation of Wiremesh/ Additional Reinforcement application of mortar as per instruction by mix the base and hardener of the zinc rich epoxy resin mechanically using a slow speed heavy duty drilling machine fitted with mixing paddle. Apply the mixed materials with brush on the cleaned rebar in two coats with time interval of minimum 4 hours between each coat and allow it to dry for 24 hours till it dry complete as directed. Wet the concrete/Masonry Wall surface with potable water and make sure that the surface is kept moist so that the water cement ratio in the polymer modified mortar is maintained during the application. Repairing the surface after carrying out above operations by supplying and applying polymer modified mortar upto 20-40 mm thick in layers not exceeding 20 mm in a day in the proportion 1:5:15 (1 Polymer :5 cement : 15 Quartz Sand by volume) as approved by the Consultant followed by a smooth finish afterapplying (by brushing) polymer based jointing compound by mixing the polymer with cement inthe ratio of 1:1 by weight to the prepared surface and each layer of plaster before applying the subsequent layer as per specification of manufacturer or as directed. The rate shall be for the work at all levels of floors including proper covering of the floors / windows/fixtures/furniture with tarpaulin or equivalent covering material, cleaning after repairs, curing as per standard etc. including costs of all materials, labour charges,double scaffolding , Wiremesh Installation, cleaning the site, removing the debris out of premises etc. complete. Excluding of Cost of Wire mesh/Additional Reinforcement which will paid additional as per mesurement (All mesurement in Sq.mt in all floors Final and Net Measurement will be paid)	405.50	Sq.Mt.		
23	Supplying and applying High molecular weight Super low viscous (3 to 5 cps) 0.56 Kg./Cm2 Epoxy thermosett Resin injection grout Monopol of Krishna Conchem or Conbextra EP10 of Fosroc or equivalent as approved by Consultant for Slab/Beam/ Column in appropriate proportion as per manufacturer's specifications into cracks/honeycomb area of concrete including drilling of holes of 14mm- 16mm dia and depth of 75mm-100 mm in concrete, Fix PVC new nipples of 12 -14 mm using neat cement or M-Seal for proper anchorage. Injecting grout by electrically operated grouting machine/ manual pump at pressure of 1.0 to 2.0 Kg./Cm2 until proper filling the voids and refuses the grout further in the nipple and subsequent cutting/removal of the nipple and sealing of the hole and groove after completion of grouting with cement/ epoxy mortar as directed by the Consultant including costs of all materials, labour charges etc complete	100.00	KG		
24	Cutting the groves below the existing wall up 35 mm deep inside the existing wall on top of floor beams cleaning with pressure water jet removing dust, scrap metal, dismental material etc complete cleaning for pressure grouting .	115.50	R.Mt.		
25	Removing 9 inch thick brick work adjacent to RCC columns and beams prior to application of jacketing or wrapping The rate shall including of dismentaling, claning, making good for the same complete as directed by Engineer In Charge.	115.08	Sq.Mt.		
26	Rebar Grouting:- Drilling holes into existing concrete substrate for anchoring of new re-bars with hole dia of Min 4mm larger than rebar dia and Min 10 times the rebar dia in depth for Main reinforcement and shear connectors at specified marked location as per drawing and for additional rebar provision in repair area and fixing with chemical anchor Master flow 935 of BASF or equivalent. Including cleaning, cutting, fabricating, chemical, tools, tackles, scaffolding, etc. complete as directed by EIC	85.00	Nos		
27	Injection Grouting for Densification and Honeycombed area:- Providing and Fixing Injection ports/nozzles in staggered manner on all sides of shell at @ 500mm spacing after drilling holes, to facilitate injecting grout, using Renderoc Plug of Fosroc or equivalent and carrying out injection/pressure grouting in prefixed nozzles/ports using Micro fine cementations material Tamcrete MFC of Normet or equivalent of MC Bauchemie make and adding water for required consistency till no further grout is accepted by ports using grout pump etc. complete. Note:Quantity of Micro fine cement-used shall be considered for measurement & Payment.	275.00	KG		
28	Removing the existing MS fabrication grills in Doors, window, railing, safety Grills etc. from RCC/Brick work. Dismantling from Holdfast dismantling of joints and removing embedded Fastener including removing adjoining fixtures like stopper and other embedded items etc. Rate shall including supply of necessary tools, machinery, with taking necessary safety precautions, scaffolding, PPE, and patch work of Dismantled RCC/ Brickwork/ Plaster and stacking serviceable mateial at location for scraping/recuse within Gujarat University Campus. Etc.	471.66	Sq.Mt.		
29	Dismantling doors, windows, ventilation etc. (wood/aluminum/steel) shutters/ frame, chow hats, grill, architraves, holdfasts, Door, Window grill frame including supply of all tools & tackles and cutting, trimming, Drilling dismantling of Brickwork to remove hold fast and do patch work and making good for the same with taking care of all safety precaution such as necessary scaffolding, propping, safety Personal Protecting Equipment and staking of serviceable material, Steel/MS or Any Metal accessories/ Object/ other attachment and disposal of unserviceable material away outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies. Etc. complete as Directed by EIC	475.67	Sq.Mt.		

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30	Removing and scraping of plaster of any thickness and at any height/depth. Chipping of unsound/weak concrete material from slabs, beams, columns, Brick wall etc. by standard power driven percussion type/pneumatic Or manuall by chisel and hammer as per site condition in prominently marked areas/as instructed. Boundries of repair should be clean and sound concrete surface shall be uniform depth including tapering all edges, making square shoulders of cavities. Removing of tiling/cladding in any applied over etc. Include supply of all tools and tackels with taking all necessary safety precaution, scaffolding, propping cleaning and staking of servisable material like angle, tee, channel, Girder and removal of existing cladding/tiling ms framing ,guides angles other embadded suructural items in RCC/Brick Work and staking the same for future use and dispose unservisable material away outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies. all cleaning and complete as specified & directed by EIC	7308.00	Sq.Mt.		
31	Removing existing oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches, taking necessary safety precaution, scaffolding, propping, supply of necessary tools and tackles, PPE, cost of labore etc. complete	7248.00	Sq.Mt.		
32	Demolition of terrace waterproofing of terrace/ chajja/ Canopy/ Porch/ wall/ toilet/ pantry water proofing of any depth/thickness and at any height/ at any location in Gujarat University Campus including supply of all tools & machinery by standard power driven or Manual by chisel and hammer as per site condition in prominent marked area/as instructed with carefully dismental the existing concrete from the expose surface of slab concrete and cleaning the concrete surface by wire brush/Sand Blasting/Water Jet. all procedure carryout as instructed by EIC and with taking necessary safety precautions as scaffolding, PPE , Support Below Slab Etc. Rate Also includes removing and dismantling of China mosaic/ Tiling/ Ladi Tile/ flooring over slab and staking of serviceable materials and disposal of unserviceable materials away and outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indefined of any liabilities from statutory/local bodies, all complete as specified & directed by EIC	1856.00	Sq.Mt.		
33	Dismantling of existing plumbing on each floor (all water supply and drainage lines and fittings) at any height/depth after disconnecting from main supply including cutting, trimming ,fixing stop cap, realign and re-fixing and taking of temporary safety measures for the existing line without damaging the working supply network which includes cleaning and staking of serviceable materials such as metal clamps pipes and other fittings and disposal of unserviceable materials away outside the Gujarat University Campus boundary limits Or Dump at Suggested location for scrap. The irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies. all cleaning and complete as specified & directed by EIC. (Measurement shall consider for Each Floor)	3.00	Job		
34	Dismantling sanitary ware & any kind of C.P. fittings like washbasin, Orrissa pan , anglo indian pan, european pan, flush tank etc including supply of all tools & tackles and cutting, trimming, Drilling with taking care of all safety precaution such as necessary scaffolding, propping, safety Personal Protecting Equipment and staking of serviceable material, Steel/MS or Any Metal acceseries/ Object/ other attachment and disposal of unserviceable material away outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies. Etc.complete as Directed By EIC	9.00	NOS		
35	Dismantling tiles or stone in floors, dedo laid in mortar by standard power driven percussio n type/ pneumatic/ manual by chisel and hammer as per site condition in prominently marked areas/as instructed. Including supply of necessary tools and machinery .with taking safety precaution such as necessary scaffolding, propping, staking of serviceable material, disposal of unserviceable material away and outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/ local bodies. Rate shall also include removal of existing tiling , plaster, other embedded structural items in RCC/ brick work and staking the same for further use and cleaning area etc. all complete as directed by EIC	3821.92	Sq.Mt.		
36	Demolishing & Breaking of brick and stone masonry of any thickness and at any height/depth includes removing of plaster/tiling applied over it by standard power driven percussio n type/pneumatic/manual by chisel and hammer as per site condition in prominently marked areas/as instructed. (taking all necessary safety precautions) including supply of all tools & tackles, necessary scaffolding, propping, underpinning staking of serviceable material, disposal of unserviceable material away and outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies. All complete as specified & directed. Rate shall also include removal of existing tiling , plaster, manhole covers, trench frame & guide angles, other embedded structural items in RCC/brick work and staking the same for further use and cleaning and removing of any derbies after dismental etc. all complete as directed by EIC	73.69	Cu.Mt.		
37	Demolishing & Breaking of Reinforced cement concrete of any depth and at any height/levels including supply of all tools & machinery with taking all necessary safety precautions like scaffolding, propping, underpinning etc, cutting, straightening, scraping & cleaning of reinforcement bars, cutting of reinforcement manually or by any other means staking of serviceable material, disposal of unserviceable material away and outside the Gujarat University Campus boundary limits irrespective of lead involved by means of mechanical transport or any other equivalent means, keeping Gujarat University indemnified of any liabilities from statutory/local bodies, all complete as specified & directed. Rate shall also include removal of existing plaster/tiling, manhole covers, trench frame & guide angles, other embedded structural items in Concrete and staking the same for use/scrap ECT. Complete As Directed By EIC	88.52	Cu.Mt.		
38	Dismantling, Chipping & removing damaged concrete carefully in layer, de-bonded concrete, cracked portion, loose concrete etc, to a minimum depth of 25 mm behind the existing corroded/damaged reinforcing bars., up to a maximum depth of 75-150 mm in RCC columns & beams using chisel & hammer / concrete breaker machine in low vibration mode and disposing the debris at designated locations inside Client premises within a distance of 300 m . The rate shall include labour charges, cost of tools & machineries etc., to carry out the complete work.	382.86	Sq.Mt.		

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39	Excavation up to 1.5 mt depth in all kind of Soil in any plan dimension including staking of serviceable excavated earth, and disposal of surplus and unserviceable earth up to any lead in all conditions after backfilling using serviceable earth. Proper shuttering/support has to be made for excavation beyond 1.5mt to support side soil wall and to avoid collapse of soil. Soil to be leveled and neatly dressed complete in all respect as per scope of work, detailed construction drawings, as per technical specifications and directions of the Engineer-in-charge	40.50	Cu.Mt.		
40	-do- Scope of work similar to all above detail of Excavation 1.5 mt to 3.0 mt Depth other detail shall follow as per detail engineering drawing and as directed by EIC.	13.50	Cu.Mt.		
41	Filling Available Soil From/at any location in campus after execution of work to proper grade and level with selected materials from available excavated soil from spoil heaps within a any lead, including re-excavating the stored serviceable soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15cms. including watering, rolling and ramming by manual/mechanical means, to achieve 90% of maximum dry density, dressing, trimming, leveling the top surface etc. in foundations, plinths, road embankments, road, shoulders, trenches etc. complete in all respect as per scope of work, detailed construction drawings, as per technical specifications and directions of the Engineer-in-charge	27.00	Cu.Mt.		
42	Supplying and filling of Murrum/Quarry Spoil of good quality brought from outside in layers of loose thickness not exceeding 200mm, under floors, pavements, in foundations etc. for all depths and heights including cost of murrum, royalties, transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 200mm, watering, ramming, compacting with mechanical vibrator compactors and/ or other equipment (8-10 ton vibrator road roller) to the specified levels to achieve 85%-95% relative dry density as per IS: 2720 as directed, including preparation of sub-grade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. Filling material shall approve by EIC / consultant before start of the work. The rates shall be inclusive of the cost of all labour, material, equipment etc. complete.	30.00	Cu.Mt.		
43	Supplying and filling approved Sand of good quality (River Sand), at any location in campus, under floors, pavements, in foundations etc. for all depths and heights including cost of sand, royalties, transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150mm, watering, ramming, compacting with mechanical compactors and/ or other equipment to the specified levels to achieve 85% relative density, including preparation of sub-grade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in-charge. The rates shall be inclusive of the cost of all labour, material, equipment etc. complete.	9.25	Cu.Mt.		
44	Providing and laying Plain cement Concrete P.C.C (1:3:6) (1-Cement, 3- Sand, 6- Course and Fine Aggregates) of nominal mix by mass with 20mm down size graded crushed stone aggregates for all depths below and up to plinth level in foundations, drains, fillings, non suspended floors, pavements and ramps or any other works etc. in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed, including tamping, ramming, vibrating, curing etc. all as specified including the cost of materials, labour, tools, tackles, machinery, steel scaffolding/staging, sampling and testing all complete as per specification and direction of EIC/Consultant. Actual/Net measured quantities shall be paid. Cost shall including of formwork	127.43	Cu.Mt.		
45	Providing and laying, pouring of Reinforced Cement Concrete M-25 (1:1:2) of nominal mix Grade (Concrete shall be design mix), with 20 mm & down size graded crushed stone aggregates in all and any shape, size, depth, levels, thickness and in sub structure to any depth and levels up to single pour of 100 CMT. In any all type of foundation, rafts, Ground beam, Plinth Beam, Grade slab, pile caps, retaining wall, rcc wall, jambs, trench, column, tie beam, coping, pitted, Drains, floor slab, ducts, including providing necessary pockets, opening, recesses, chamfering, vibrating, mixing, tamping, rendering to give smooth and even finish as specified in drawings. The rates are Excluding the cost of Shuttering but including supply and cost of material and labour, transportation, mixing on site by mean of mechanical equipment or Manual. Sampling and testing and supply of all tools and machinery to give finishing as specification and as directed by the Engineer-in-charge. (Excluding the cost of Reinforcement and cost of Shuttering) Actual / Net measured quantities shall be paid.	167.50	Cu.Mt.		
46	Providing and laying, pouring of Reinforced Cement Concrete M-25 (1:1:2) of nominal mix Grade (Concrete shall be design mix), with 20 mm & down size graded crushed stone aggregates in all and any shape, size, depth, levels, height, thickness and in super structure to any height and levels up to single pour of 100 CMT. In any all type of beam, slab, jambs, trench, brackets, landing, stairs, fascia, gutter, chajja, column, lintel, tie beam, coping, pitted, Drains, floor slab, rcc wall, lift wall, ducts, including providing necessary pockets, opening, recesses, chamfering, vibrating, mixing, tamping, rendering to give smooth and even finish as specified in drawings. The rates are Excluding the cost of Shuttering but including supply and cost of material and labour, transportation, mixing on site by mean of mechanical equipment or Manual. Sampling and testing and supply of all tools and machinery to give finishing as specification and as directed by the Engineer-in-charge. (Excluding the cost of Reinforcement and cost of Shuttering) Actual / Net measured quantities shall be paid.	38.82	Cu.Mt.		
47	Providing and fixing Shuttering/ Form work using marine ply board, shuttering ply, steel plates, adjustable steel props to full height and with sufficient bracing Form work design conforming of IS 4990-2011 To give smooth and even finish, including centering, shuttering, strutting, propping, surface oiling, nails, binding wire, sealing the joints with heavy duty brown self adhesive tape, applying mould releasing agents (Rebol from Fosroc or equivalent) aligning to line and levels including M S Ties, PVC spacer etc etc. keeping the necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete for SUB STRUCTURE like foundations, pedestals, footings, slabs, pile caps, retaining walls, beams, staircases, landings, suspended slabs, etc. and SUPER STRUCTURE like in columns, lintels, slabs, beams, staircases, landings, suspended slabs/ floors/ roofs, walls etc. and other structures keeping the same in position during concreting and removal of the same after specified period in all complete and as specified and directed. The rate shall include cost of material, labour, tools, tackles, machinery, curing, etc. In any size, shape, Geometry, depth, Thickness, all in complete manner as Directed by Engineer-In-Charge. (Actual / Net measured quantities shall be paid.)	245.15	Sq.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
48	Supplying and placing in position High strength deformed TMT Steel Bars Reinforcement (Conforming to IS:1786, Grade Fe 500/500D) of Approved make (as approved by Consultant/EIC) for RCC work including transporting, straightening, cleaning, de-coiling, testing, sampling, cutting & binding to required shapes and lengths as per Drawings and details, binding with contractor's own 16 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fan hooks etc. for all heights and depths etc. complete as per specification, directions and drawings.(Supports,Chairs and laps are included in the cost and no separate measurement qty will be paid for the same)	6710.62	KG		
49	Providing and laying Full Brick Masonary (230mm th. or more) with bricks of class-1, strength not less than 35 Kg/sq.cm in cement mortar 1:6 (1 cement: 6 sand) in one or more brick thickness and in any shape in sub-structure at any depth including the cost of materials, labour, steel scaffolding / staging, sampling and testing, soaking of bricks, cutting & laying of bricks, providing recesses, making openings of any shape and size, embedding the fittings & fixtures, curing etc. all complete as per specifications. The rate shall includes cost of material, labour, tools tackles, machinery etc. all complete manner. and As dirrected by Engineer-In-Charge (Actual / Net measured quantities shall be paid.)	22.58	Cu.Mt.		
50	Providing and laying Full brick Masonary (230mm th. or more) with bricks of class-1, strength not less than 35 kg/sq.cm in cement mortar 1:6 (1 cement: 6 sand) in one or more brick thickness and in any shape in super-structure at all level including the cost of materials, labour, steel scaffolding/staging, sampling and testing, soaking of bricks, cutting & laying of bricks, providing recesses, making openings of any shape and size, embedding the fittings & fixtures, curing etc. all complete as per specifications. The rate shall includes cost of material, labour, tools tackles, machinery etc. all complete manner. and As dirrected by Engineer-In-Charge (Actual/Net measured quantities shall be paid.)	34.29	Cu.Mt.		
51	Providing and laying half Brick Masonary (115mm th.) with bricks at all levels of class-1, strength not less than 35 kg/sq.cm in cement mortar 1:4 (1 cement :4 coarse sand) including providing necessary steel scaffolding staging, opening, curing, raking out joints providing and placing two Nos. 6mm dia M S bars at every fourth course and Khranja at 1.2mt height etc. all complete as per specifications and directions of the Engineer-in-charge. The rate shall includes cost of material, labour, tools tackles, machinerv etc. all complete.)	421.02	Sq.Mt.		
52	Providing 20mm thick Sand face plastering on outside faces. First coat of 12 mm thick in C.M.1:3 (1-cement;3-sand) and second coat of 8 mm thick in c.m. (1:1) with waterproofing chemicals on RCC/Brick wall Building or other structure including Plaxing of Chicken mesh of statndard Quality at Specific location joints , surface preperation, hackig the brick masonry Or RCC Surface, all height/depth with all tools, material, laboure,scaffolding and curing. To make true line and levels etc.complete in all manner as specified and as instructed by Eingeener-In-Charge. (Actual/Net quantities measured shall be paid. (smooth nero plaster if instructed)	1246.49	Sq.Mt.		
53	Providing 15mm thick Cement Plastering Cement Mortar 1:4 (1 cement : 4 fine sand) with waterproofing chemicals on RCC/Brick wall building or other structures including surface preparation, hacking the brick Masonary or RCC surface, at all height/depth with all tools, material, labour, scaffolding and curing etc. to make even finish in true lines and levels all complete as per specifications and direction of engineer in Charge. Rate shall include providing & fixing chicken mash jali of best quality available & fixing it at brick and RCC junction all complete. Actual/Net quantities measured shall be paid. (smooth nero plaster if instructed)	3056.41	Sq.Mt.		
54	Providing 10 mm thick Cement plaster in single coat on celing/slab for interior plastering at any height/floor level finished even and smooth in cement mortar 1:3 (1 cement : 3 fine sand). On RCC/Brick wall/building or other structures including surface preparation, hacking the brick Masonary or RCC surface, at all height/depth with all tools, material, labour, scaffolding and curing etc. to make even finish in true lines and levels all complete as per specifications and direction of engineer in Charge. Rate shall include providing & fixing chicken mash jali of best quality available & fixing it at brick and RCC junction all complete. (Actual /Net quantities measured shall be paid. (smooth nero plaster if instructed)	1755.27	Sq.Mt.		
55	Providing and making the Plaster Grooves of Size 12 x 12 mm, in second coat of external plaster in true line and level at all height with all tools, material, labour, scaffolding and curing etc. all complete as Specified or as directed by Engineer In Charge.	685.10	R.Mt.		
56	Providing and applying paint on internal with three coat Plastic emulsion paint of approved brand & manufacture & required shade on wall surfaces to give an even shade over & including a primer coat with a primer of approved brand & manufacture after throughly Brushing the surface free from mortar dropping & other foreign matter & also including preparing surface with birla white cement based putty sand papered smooth. Rate includes application on all heights	4711.78	Sq.Mt.		
57	Finishing wall with Weather Proof Exterior paint on wall surfaces (three coats) to give an approved brand and manufacturer & required shape even shade after thoroughly brushing the surface to remove all dirt & remains of loose powdered materials. Rate Shall Includes All tools and tackels, Scaffolding , material , laboure, machenart with taking care of all necessary safet protection PPE , scaffolding, Underpinning, etc Complete in all manner (Make and colour shead as Approved by Engineer-In-Charge)	3116.22	Sq.Mt.		
58	Providing and applying of External Texture with weather proof exterior emulsion paint (min Three coats) including one coat of Primer on any height. make and pattern as approved Consultants/Client. Texture should be 2.0 to 2.5 mm thk layer with crack bridging up to 2.6 mm give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials. The texture material shell be pure acrylic, Environment Friendly, Protect against salt and carbon dioxide UV resistance, Moisture vapor transmission coating with third party test certificate applied up to 140 microns DFT. etc. required scaffolding, jhulaa, tools and labor. complete	100.00	Sq.Mt.		
59	Supply and Application of Enemal paint providing and applying window and MS. painting (Two coats) with enemal paint of approved brand & manufacture on under coated wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.(Measurement shall be consider as one side of Grill/Frame Bidders quotate rate accordngly)	475.67	Sq.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
60	Providing and laying in position vitrified homeogenous Unglazed uncoated tiles of approved make and colour shade 600x600 size of 9 mm thickness of first quality With/Without 3-5 mm groove as per design, set in cement slurry (3.3 Kg. cement/m2.) Avg. 35 mm (or more as required not Paid Extra) thick cement mortar 1:3 bedding and laid to proper slope and level.(As per Detils and Drawing) Finishing should be done with specified Grout including curing and cleaning with mild oxalic acid etc. complete, as shown and specified flooring steps, etc. complete, as directed by Consultant / Engineer -in-charge. Rate Shall include suppy of all tools tackels, laboure, material, as approved by consultant. Actual/Net quantities measured shall be paid. (Filling of Groves will mesured and paid Saperetly)	2554.47	Sq.Mt.		
61	Providing and Laying of Vitrified homeogenous Unglazed uncoated Tiles of Approved make and Colour Shade) 600x600mm in size in skirting, risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) with/without 3-5 mm Grove. Filling Should be done with with ready mix polymer based cementitious Grout of BAL Or Pure Epoxy based or Equivalent make and shead as approved By Client/Consultant Rate Shall including cutting,laying, clading , material all in complate manner.As dirrected by Engineer-In-Charge (Filling of Groves will mesured and paid Saperetlv)	171.19	Sq.Mt.		
62	Supply and Filling of 3-5 mm Groove with ready mix polymer based cementitious Grout of BAL Or Pure Epoxy based or Equivalant make and shead as approved By Clinet/Consultant Rate shall include laboure,cost of material,cleaning,making good for the same as Dirrected by Engineer-In-Charge	2554.47	Sq.Mt.		
63	Providing and laying Vitrified floor antiskid/Matt tile 600x600mm in floor of size as specified of 8/10 mm thk laid on a bed of avg 18-20 mm thick cement mortar 1:3 (1-cement : 3-coarse sand) in slop as per detail and drawings with/without 3-5 mm grove Make as approved by client / Consultant of Approved colour . Cleaning and complete. As directed by Engineer-In-Chargerates Rates shall including Filling Grove with Ready mix Cementenious based Grout or Pure epoxy based Grout Material. (Filling of Groves will mesured and paid Saperetly)	156.45	Sq.Mt.		
64	Providing and laying of vitrified wall tile Glossy/Matt tile 600x600mm in dedo , skirting, riser, of size as specified of 8/10 mm thk on 10-12 mm thk Cement mortar 1:3 (1-cement : 3-coarse sand) as per detail and drawings with/without 3-5 mm grove Make as approved by client / Consultant of Approved colour . Cleaning and complete. Rates are including of Filling Grove with Redy mix Polymer mix cementenious based Grout Or Pure Epoxy Based Grout Material. (Filling of Groves will mesured and paid Saperetlv)	423.57	Sq.Mt.		
65	Providing and Laying 18-20 mm thick mirror polished, machine cut (Colour As Approved by Consultant) Granite in floor, steps, wall and dedo etc. laid over 20 mm thick base cement mortar 1:6 (1 cement : 6 coarse sand) in true line and plain level with cement slurry to fix on wall / dedo are cut according to the size and shapes given in drawing or to suit site dimension of the room and desired pattern with joints treated with white cement mixed with matching pigment , adhesive like araldite, including rubbing, curing, semi-mirror polishing, mirror polish, nosing of corners, making of 6/7.5 mm burning for non slippery on trade, cutting in profile, architectural works, etc. complete as per directions of Engineer In charge. [Rate to include all labour, material, tools, tackles, hire charges, trasportation, water charges, wastage, overheads etc. complete.] Actual/Net quantities measured shall be paid	226.25	Sq.Mt.		
66	Providing and fixing of 18-20 mm thick mirror polished, machine cut Granite(Colour as approved by client/Consultant) in wall and dedo, window/door sill & Jams etc. fixing in true line and level in approved pattern, lines and levels (including cutting of granites, chamfering / half round moulding & poliching of edges, etc) of approved shape ans size, fixed on wall/lintel /beam bottom with use of bonding matrial in 1:3 (1: Cement 3:Sand) and joints to be filled in with white cement, pigments of shade and colours, etc. complete as per the directions of Engineer In charge. [Rate to include all labour, material, tools, tackles, hire charges, transportation, water charges, wastage, overheads etc. complete.] Actual/Net quantities measured shall be paid.	236.10	Sq.Mt.		
67	Providing and Fixing 18 to 20 mm thick granite stone of two side polished (Colour as Approved by Consultant) for urinal partition fixing in true line and level in approved pattern, lines and levels (including cutting of granites,rubbing and mirror/semi-mirror polishing, chamfering/half round moulding & poliching of edges, etc) of approved shape ans size fixed on wall/Rcc/with cement pest as required and joints to be filled in with white cement, pigments of shade and colours, etc. complete as per the directions of Engineer In charge. [Rate to include all labour, material, tools, tackles, hire charges, transportation, water charges, wastage, overheads etc. complete.] Actual/Net quantities measured shall be paid.	20.25	Sq.Mt.		
68	Providing and Fixing 18 to 20 mm thick full granite stone of two side polished (Colour as Approved by Consultant) of Granite stone Counter for wash basin with necessary hole for wash basin and shelf with white cement slurry including rubbing, moulding and mirror/semi-mirror polishing,moulding etc. complete. [Rate shell include all labour, material, tools, tackles, hire charges, transportation, water charges, wastage, overheads etc. complete.] Actual/Net quantities measured shall be paid.	14.34	Sq.Mt.		
69	Providing and laying Polished Kota Stone slab (min 25 mm thk) flooring over 20mm. (average) thick base of cement mortar 1:6 (1- cement : 6- coarse sand) laid over and jointed with gray cement slurry Rate shall include, cost of laboure, Filling joints with Cementnious mortar , fixing in true line and level as per Detail and drawings with all lead and lift, cost transportation, cost of material, complate in all manner as Directed by Engineer-In-Charge (Actual and Net Measured quantity will be paid)	133.45	Sq.Mt.		
70	Providing and laying polished kota stone slab 25mm thick in risers of steps,skirting Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab Rate shall include, cost of laboure, Filling joints with Cementnious mortar , fixing in true line and level as per Detail and drawings with all lead and lift, cost transportation, cost of material, complate in all manner as Directed by Engineer-In-Charge (Actual and Net Measured quantity will be paid)	13.55	Sq.Mt.		
71	Providing and laying Good Quality River Finish Sand stone (as approved by consultant/client) flooring in required design and patterns, in linear as well as curvilinear portions, all complete as per the architectural drawings, with 25-30 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement mortar 1:2 (1 cement : 2 sand) and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	50.00	Sq.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
72	Providing and Laying avg 50 (up to 100 or more if required) mm thick IPS laid over Concrete slab surface with 20 mm nominal size stone aggregate Cement concrete flooring 1:2:4 (1 cement, 2 coarse sand, 4 graded stone aggregate) using SBR, multipurpose concentrated liquid polymer additive, Dosage: 300 ml per Cement bag of 50 kg. finished with proper smooth finishing in cement slurry and sloping out terrace slabe with following specification laid to required slope not flatter than 1:80 (the thickness of IPS near rain water outlet in proper slop for water disposal or the lowest point of the finished slope shall not be less than 35 mm in thickness , includes Providing VATA, 15 cm. x 15 cm. size, quarter round concave/ triangular in cement concrete 1:2:4 including curing ,cement slurry ,finishing smoothing as per detail provided by consultant complete, [No extra shall be paid for increase in thickness for proper slope]	87.15	Cu.Mt.		
73	Providing and laying integrated cement based proprietary water proofing treatment of required thickness over the IPS/Slab/Treace of Sufficient thickness Water proofing by applying cement slurry mixed with water proofing compound consisting of applying: By Following Meathod a) First layer of slurry of cement mixed with water proofing compound.(layer thickness between 0.8 to 1.0 mm thk)This layer will be allowed to air-cure for 4 Hrs. b) Second layer of slurry of cement mixed with water proofing compound.(layer thickness between 0.8 to 1.0 mm thk) This layer will be allowed to air cure for 4 Hours followed with water curing for 48 Hours. The rate includes preparation of surface, treatment and sealing of joints, corner, junction and masonry with polymer mixed slurry. c) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. as directed by Architect / Engineer-In-charge.Rate to include all labour, material, tools, tackles, hire charges, water charges, waterproofing chemical,, wastage, overheads, watering, curing, cleaning etc. complete. Including 10 years Perfonce of Guarantee Bond to be Given on Stamp Paper. (Actual/Net quantities measured shall be paid. water proofing chemical to powder compound/cement proportion as prescribed by Maker)	1340.75	Sq.Mt.		
74	Providing and applying 2 coats of WPM 004, two components acrylic modified flexible cementitious waterproof coating using brush/roller over well prepared dry surface, including sandwiching WPM Deck Web at all corners, cracks, construction joints and pipe penetrations, grinding all sharp edges, cleaning all surfaces to make them free from all contaminants, Contractor shall to be guaranteed for minimum period of 10 years after handing over the completed building by the main contractor to be finished as directed. Stamp paper guarantee 10 years to be furnished before receiving any payment from the client. etc and complete as per manufacturer's specification.	156.45	Sq.Mt.		
75	Providing and Laying broken chine mosaic flooring for terrace using 12mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar crème out upto surface .using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. The rate Shall include of Cost of Matrial, Laboure, Over heads ,transportaion, all lead to any lift, no extra paid if slop and thickness of bedding will increase .	1340.75	Sq.Mt.		
76	Providing and fixing aluminium Door work (Single Shutter OR Double Shutter) of Anodized aluminium section frame built up standard tubular and other section of approved make confirming to IS 733 and IS 1285, member size with shutters of horizontal member , vertical member Confirming to IS733 and IS 1285 fixed with rawl plug abd screws or fixing clips or with expansion hold fasteners including necessary filling up of gaps at junctions at top bottom and sides with required PVC/Neoprene felt, 8/12 mm toughened glass of approved make etc. Aluminum sections shall be smooth, rust free, straight.mitred and jointed mechanically wherever required including Door Hardware such as cleat angles aluminum snap beading for glazing/paneling, CP Brass/Stainless steel screws, Stoppers, heavy duty floor hing, S.S. Hinges, aldrip , Locking system, heavy duty Floor Springs, Pivot and fixtures and transparent silicon sealant glass fixing to frame as per details all complete as per architectural drawings and the direction of Engineer in Charge. rate incl. all type of alumnium secions for doors as per the detail Architectural dwg.	36.00	Sq.Mt.		
77	Providing and Fixing of 35 mm solid 1st Quality Flush Door with 10 mm teakwood lapping tongued into door edges all round two side, both side 1 mm thk. laminates of approved brand. with wooden Frame of 125 x 75 mm size in Ghana Teakwood with Bidding patti on both the side of door frame, including SS fitting and Fixtures like Handle, Lock , Door Stopper, Door Closer, S.S. heavy duty Floor spring/ Hinges, long decorative handel and all Hardware materials of SS or of approved brand and make, all labour and Materials which will require for complete on site as per archi. details and drawing or as per instruction of site In charge. Including vision panel and laminate glass size as per drawings and detail . Rate to include for painting all timber faces in contact with wall surfaces with applying two coats of approved wood preservative and anti-insecticide paint before fixing in position and one under coat and two coats of enamel paint of approved make to exposed faces	48.02	Sq.Mt.		
78	Providing and fixing Partly Glazed Door Providing and fixing partly glazed door made of 35mm thk. flush door with both side 1.0mm thick laminate finished door with wooden Frame of 125mm x 75mm size in Ghana Teakwood The door shall consist of make 8mm thk. clear float glass fixed with teak wood bidding as per design drawing. The door finished with both side 1.0mm thick laminate in approved shade and painting all timber faces of frame in contact with wall surfaces with applying two coats of approved wood preservative and anti-insecticide paint before fixing in position and one under coat and two coats of enamel paint of approved make to exposed faces..Rate shall Includes with wooden Frame of 125mm x 75mm size in Ghana Teakwood including including SS fitting and Fixtures like Handle, Lock , Door Stopper, Door Closer, S.S. heavy duty Floor spring/ Hinges, long decorative handle and all Hardware materials of SS or approved brand and make, all labour and Materials which will require for complete as per detail drawing and instruction of engineer-in charge and consultant.	18.17	Sq.Mt.		
79	Removing, Repairing, repolishing and refixing existing wooden panelled door as per direction of engineer incharge. The rate includes the cost of material , cost laboure, SS fitting and Fixtures like locks, Stopper, Floor heavy duty spring/ Hinges, long decorative handel, door stopper door closer, and all Hardware materials of SS or of approved brand and make, all labour and Materials which will require for complete the work as directed by Engineer In Charge.	100.37	Sq.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
80	Providing and fixing extruded aluminium window & Vent having extruded aluminium Anodized section frame built up standard tubular and other section of approved make conforming to IS 733 and IS 1285 , Three/Two track member size with sliding shutters of horizontal member, vertical member Confirming to IS733 and IS 1285 fixed with rawl plug abd screws or fixing clips ,or with expansion hold fasteners including necessary filling up of gaps at junctions, at top ,bottom and sides with required PVC/ Neoprene felt, glass of approved make etc. Aluminum sections shall be smooth, rust free, straight.mitred and jointed mechanically wherever required including hardware such as cleat angles aluminium snap beading for glazing /paneling, CP Brass/ Stainless steel screws, Stoppers, floor hing, S.S. Hinges, aldrops , Locking system , Floor Springs , Pivot and fixtures and transparent silicon sealant glass fixing to frame as per details all complete as per architectural drawings and the direction of Engineer in Charge. rate incl. all type of aluminium sections for , windows and Vents with 5/8/12 mm th. tinted glass as per the detail Architectural dwg.	120.23	Sq.Mt.		
81	Removing, Repairing, repolishing /Paint and refixing existing Window as per direction of engineer incharge. The rate includes the cost of material, cost labour, SS fitting and all Hardware materials of SS or of approved brand and make, all labour and Materials which will require for complete the work as directed by Engineer In Charge.	120.23	Sq.Mt.		
82	Providing and fixing M.S.Grills/Gate of required pattern with MS Flats, Channels, pipes, hollow pipes, anchor fast, plates and MS Square/round bars pattern including primer and two coats of luster finish synthetic enamel paints of Asian, Jenson & Nicholson, ICI make complete including anchor fast, hollow pipes etc with all labours and materials as per the instruction of Engineer In charge.	9251.25	KG		
83	Fabrication,Supply and Installation of Stainless Steel (Grade 304) railing using hand rail pipe section 2.5" and baluster as round/square pipe section 2" both these pipe wall thickness not less than 16 gauge; connected with SS square pipe 2" intermediate as per detail drawing of architecture and 8mm thick toughened glass fixed in between ss vertical members by the SS fixers. SS base plate of 100 x 8mm. The railing system shall be floor mounted with anchor faster and base plate of 4" having 8 mm thk. Completed as per detail drawing or as directed by the Architect/Engineering in charge with necessary fixtures fittings, brush finished, proper buffing & cleaning the welding marks etc. Shop drawing shall be submitted for approval	35.20	R.Mt.		
84	Restroom Cubical: providing and installing ZMS SS Series Restroom Cubicles with all necessary tools hardware, labour, as per the company specs.Providing & Fixing BESCO Cubicle partition system for toilet by using following Materials 12mm thick compact laminate with core of phenol resin treat papers with black color top layer treated with special melamine resin. Adjustable legs with bottom cap of SS 316, door lock with, gravity hinges with cover – combination of mild steel and Nylon PA6 And used following AccessoriesAccessories Include: 1. AluminiumTop Rail (Stainless Steel Grade 304 with Satin Finish) 2. SS Coat Hook with Door Stopper Option (Stainless Steel Grade 304 with Satin Finish) 3. SS Gravity Hinges (Stainless Steel Grade 304 with Satin Finish) 4. SS Latch cum Occupancy Indicator (Stainless Steel Grade 304 with Satin Finish) 5. SS "U" Channel (Stainless Steel Grade 304 with Satin Finish) 6. SS "F" Channel (Stainless Steel Grade 304 with Satin Finish) 7. SS Palm Design Adjustable Foot (Stainless Steel Grade 304 with Satin Finish) 8. SS Screws & Inserts (Stainless Steel Grade 304 with Satin Finish) 9. Rubber Lining for Door Stopper Brand and Make : Merino, Greenlam or equivalent as approved by consultant.	24.00	Nos		
85	Providing & fixing 12 mm thick Polycarbonate panel consist UV protected multicell/microcell structure having panel width of 600 / 900 mm to ensure best performance against windload, live load, vibration & visual appearance made of DANPALON or TUFFLITE. Panel shall be manufactured with vertical standing seam at both sides of the panel. The height of the standing seam is minimum 15 mm to ensure best connectore engagement. panel shall be fixed with snap on connectore with conti. double wall aluminium spacer along the standing seam to ensure best performance against wind up lift/herrican effect with a grip-lock double tooth locking mechanism. panel shall be co-extruded UV protected. panel ends shall be sealed with anti dust aluminium tape & aluminium profiles (mill finish) This includes the cost of labour incl. all accessories req. to fix this panels as per approved shades/colour and direction of engg. in charge. Comp. as per detail drawing & design.	25.00	Sq.Mt.		
86	Providing, fabricating, assembling, hoisting /erecting placing in position and connecting and fixing in position at all heights/all levels/all floors/all shapes & sizes with all leads & lifts using MS Rolled Steel Sections, Hollow sections, Tubular Sections, MS Plates, Chequered Plates, Hollow Section/ RHS/ SHS/ Tubular Pipes, I-section, Channel section, Angles, Insert plates etc. columns, portal frames, beams, bracing, platforms, stairs & column nosing angle, brackets, Purlin , Girts etc. all confirming to latest relevant IS codes for the work of steel structures (staircases, canopy, roof and similar), railings, handrail, jali, gates, grills, bracings, platforms, brackets, monkey ladder, cattle trap, insert plates, windows, false ceiling frame work, fencing posts & fencing jali frame work etc. including straightening, cutting, bending, bolting and welding the members all as per structural drawings and as per detailed specifications (for materials & workmanship) including necessary scaffolding/staging, cutting, wastage, welding (shop and site), bolting anchor fasteners etc. wherever necessary, complete in the situations described hereinafter and comprising of :i) Profile Cutting of components to required lengths/widths and shapes/profiles; ii) Smooth grinding/ machining of edges/faces/all welding joints; iii) Necessary welding (electric arc welding) for required weld lengths and sizes iv) The fabrication work shall start only after approval of the fabrication drawings. Any change required in the fabrication drawings shall be carried out at no extra cost. Fabrication shall be in a perfect Architectural workmanship manner and as provided in Section V & VI of IS 800 & IS 7215. v) Welding shall be carried out by qualified welders. vi) Electrodes for welding, the procedure, selection, test and inspection shall confirm to provisions in IS 816, IS 818, IS 822, & IS 823. vii) Erection/hoisting shall commence only after approval of fabricated parts by the Engineer in charge viii) Necessary arrangements of templates to keep the foundation bolts in position, shall be made by contractor without any extra cost. ix. The rate shall include for applying two coats of approved make and shade Epoxy paint over two coat of zinc chromate yellow oxide as primer, as per instructions. a) Rolled Steel Section	3162.16	KG		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
87	Supplying, fitting & fixing supporting hand rails & Grab Rail (one "Wall mounted Hinged hand rail ", "Corner Grab Bar" & other "Grab Rail " near wash basin) with necessary fittings & fixtures as per drawings and detail for Special need for Disabled & physically challend persons for each. The rate shall including of supply of necessary tools and machinery to give required finish and fittings., include cost of material, cost of labour, with taking necessary safety precaution all complete as directed by Engineer In Charge (Note: Mesurement shall taking for each Toilet) Accessories Includes as Follow.: Wall mounted Hinged hand rail : 750 x 100 mm(Cat. No. B2210108) Corner Grab Bar: Wall mounted corner grab bar with 500 and 600 mm long bars (Cat. No. B2210104) Wall mounted Grab bar: 600 mm long(Cat. No. B2210106)	3.00	Each		
88	Fabrication,Supply and Installation of Stainless Steel (Grade 304) railing using hand rail pipe section 2.5" and baluster as round/square pipe section 2" both these pipe wall thickness not less then 16 gauge; connected with SS round pipe 2" intermidiate as per detail drawing of architecture and intermidiate verticar member of 2.5" dia at eac 2 to 2.5 mt SS base plate of 100 x 8mm. The railing system shall be floor mounted with anchor faster and base plate of 4" having 8 mm thk. Completed as per detail drawing or as directed by the Architect/Engineering in charge with necessary fixtures fittings, brush finished, proper buffing & cleaning the welding marks etc. Shop drawing shall be submitted for approval. (Note : SS Fixtures such as Steel Anchors, Stainless Steel Olets, Stainless Steel Circles, SS Plates, washers, nuts, bolts etc shall not measured and paid seprately)	68.59	Kg		
89	Fabrication,Supply and Installation of Stainless Steel (Grade 304) railing using hand rail pipe section 2.5" and baluster as round/Square pipe section 2" both pipe both these pipe wall thickness not less then 16 gauge; Connected with SS Round Pipe 2.5" dia shall be fix support at each 1.5 to 2.0 mt with wall mounted as per detail drawings with SS plate of 100 x 8mm. The railing system shall be wall mounted with anchor faster and base plate of 4" having 8 mm thk. Completed as per detail drawing or as directed by the Architect/Engineering in charge with necessary fixtures fittings, brush finished, proper buffing & cleaning the welding marks etc. Shop drawing shall be submitted for approval (Note : SS Fixtures such as Steel Anchors, Stainless Steel Olets, Stainless Steel Circles, SS Plates, washers, nuts, bolts etc shall not measured and paid saperately)	68.59	Kg		
90	Providing and fixing Expansion joint at floor & beam with Aluminum profile (Décor market/Equivalent make)	58.00	R.Mt.		
91	Sealing the expansion joint with 25mm x15mm approved quality polymer based silicone sealant from external as well as internal walls with 25mm dia polyurethane profile backing as per manufacturers requirement and as directed.	58.00	R.Mt.		
92	Providing and fixing white vitreous china wall hung type water closet (European type) with soft closing seat and lid, C.P. brass hinges/ and rubber buffers, Including jointing with soil pipe fixing the on wall MS Chair Bracket, SS Bolts and washers fixing push plate/Half turn/Metropole cock fittings, include cost of all material , laboure ,duroplast soft close seat cover , jet spray, CI Chair Bracket, SS Bolts and washers, earthwork, cement concrete work making good for floor and wall all complete as per detail drawing and instruction of engineer-in charge.(make as approved by Architect/Consultant)	22.00	Nos		
93	Providing and fixing concealed body metropole flush valve CP Finish with control cock operation plate, 25 mm size of approved quality including cutting, fixing in pipe line, making good walls/floor where ever required , cement concrete work all complete as directed by Enginee In charge .(make as approved by Architect/Consultant)	22.00	Nos		
94	Providing and Fixing 20 mm cromium plated brass Health faucet with 1000 mm flexible pipe and necessary accessories, Fixing and Approval of engineer in-charge.(make as approved by Architect/Consultant)	22.00	Nos		
95	Bib Tap : Providing and fixing Bib Tap Chromium plated of 20 mm i/d with necessary concealed fitting and cover panels. All the damages incurred while fixing shall be repaired to the satisfaction of the engineer in-charge. Bib Cock shall be as approved by engineer in-charge	8.00	Nos		
96	Providing and Fixing of Brass Screw down Two way BIB Tap 20 mm i/d Polished Bright Chrome Finish of approved make with all necessary fittings. All the damages incurred while fixing shall be repaired to the satisfaction of the engineer in-charge (make as approved by Architect/Consultant) .	22.00	Nos		
97	Wash basin (Counter top) : Providing and fixing wash basin of approved quality and as approved by engineer in-charge with single hole in GRANITE including cutting holes and making good the same with fittings, (A) size of wash basin 550x425 mm counter top in white/color as decided by engineer in-charge. The rate is inclusive of waste pipe, connection pipe etc complete.	12.00	Nos		
98	Providing and Fixing of 32 mm heavy plated C.P. waste coupling fitting without pop-up.	12.00	Nos.		
99	Providing and Fixing of 32 mm S.S. finish bottle trap with 300mmx190 mm(long wall connction pipe and wall range).	12.00	Nos		
100	Pillar Cock : Providing and fixing Pressmatic auto close Pillar Cock with necessary concealed fitting and cover panels (a) 20 mm dia. All the damages incurred while fixing shall be repaired to the satisfaction of the engineer in-charge(make as approved by Architect/Consultant)	12.00	Nos		
101	Angular Stop Tap 20 mm dia: Providing and fixing stop Cock with necessary concealed fitting and cover panels. All the damages incurred while fixing shall be repaired to the satisfaction of the engineer in-charge (make as approved by Architect/Consultant) .	12.00	Nos		
102	Providing and fixing Kitchen sink (304 grade stainless steel 1.0 to 1.2 mm thk) with C.I. or M.S. brackets ,Perl Finish including cutting holes in Stone/ wall/ RCC and making good the same including of fittings like SS Waste Coupling (three piece), waster pipe complete.(i)600mmx450mmx 200/ 230 mm	1.00	Nos		
103	Providing and fixing urinal (CERA MAKE of size 550*300mm) of approved quality including connection with trap and with integral longitudinal flush pipe. New Magnum C0504 of Parryware Company Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge	24.00	Nos		
104	Providing and Fixing of pressmatic Auto Closing Concealed Urinal Flush Valve of approved make and of approved quality including fixing in pipe lines etc. with all necessary fittings complete in all manner as Instructed by Engineer-In-Charge.	24.00	Nos		
105	Providing & fixing Gunmetal Check or non return full way Wheel Valve / Handle Valve ISI mark only. Joints shall be sealed by pipe sealant. For Water pipe Lines (25mm Dia)	24.00	Nos		
106	Providing & fixing Gunmetal Check or non return full way Wheel Valve / Handle Valve ISI mark only. Joints shall be sealed by pipe sealant. For Water pipeLines (40mm Dia)	18.00	Nos		
107	Providing & fixing Gunmetal Check or non return full way Wheel Valve / Handle Valve ISI mark only. Joints shall be sealed by pipe sealant. For Water pipe Lines (E) 50mm dia.	12.00	Nos		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
108	Providing & fixing Gunmetal Check or non return full way Wheel Valve / Handle Valve ISI mark only. Joints shall be sealed by pipe sealant. For Water pipe Lines (E) 65mm dia.	6.00	Nos		
109	Providing and fixing in position of approved quality G.M. float valve with copper ball float and brass rods of required length suitable for test pressure of 15Kg/sqcm of 15 mm dia Make -Prayag	2.00	Nos		
110	Providing and fixing PVC SWR Nahni trap IS 14735 for drain-100mm dia with s.s jali of self cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	24.00	Nos		
111	Providing and fixing PVC SWR Nahni trap IS 14735 for drain-75mm dia with s.s jali of self cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	15.00	Nos		
112	Providing and Fixing of S.S. towel ring, with concealed type brackets fixed, to the wall, with CP brass screws, etc. complete.	12.00	Nos		
113	Providing and fixing toilet paper holder Kitch made (A) C. P. Brass	24.00	Nos		
114	Providing and fixing screw-to-wall type S.S. Soap dish / tray fixed to wall with CP brass screws, etc., complete.	12.00	Nos		
115	Providing and fixing screw-to-wall type S.S. Soap liquid dispenser / tray fixed to wall with CP brass screws, etc., complete.	12.00	Nos		
116	Providing and fixing 600mm x 450mm bevelled edge Mirror of superior glass mounted on 6mm thick A.C.sheet or plywood sheet fixed to wooden plugs with C.P.Brass screws and washers.	12.00	Nos		
117	providing and fixing 600mmx120mm glass shelf with C.P. brass brackets and guard rail complete fixed to wooden plug with C.P. brass screws.	12.00	Nos		
118	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (15mm Dia)	47.41	R.Mt.		
119	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (20mm Dia)	58.49	R.Mt.		
120	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe 25 mm Dia having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (25mm Dia)	65.59	R.Mt.		
121	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe 32mm Dia having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete.(32mm Dia)	81.50	R.Mt.		
122	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe 40mm Dia having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete.(40mm Dia)	47.80	R.Mt.		
123	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe 50mm Dia having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (50mm Dia)	45.00	R.Mt.		
124	Providing and Fixing Concealed center point to wall ceiling & floor CPVC (SDR 13.5) pipe 65mm Dia having National Sanitation Foundation (NSF) seal for potable water of following dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (65mm Dia)	20.00	R.Mt.		
125	Providing & fixing ball cock of approved quality as directed. (A) Copper Metal as follow dia for a) 25mm dia	7.00	Nos		
126	Providing & fixing ball cock of approved quality as directed. (A) Copper Metal as follow dia for d)50 mm dia	5.00	Nos		
127	Providing laying and jointing in true line and level 15mm Dia U.P.V.C .Pipe 15mm Dia (SCH 40) for cold water including fittings make PRINCE/ SUPREME/ASTRAL/FINOLEX are equivalent as approved by client and cosultant. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joint sand fixing the same with adhesive solvent, including cost of all materials.	47.41	R.Mt.		
128	Providing laying and jointing in true line and level 25mm Dia U.P.V.C .Pipe (SCH 40) for cold water including fittings make PRINCE/SUPREME/ ASTRAL/FINOLEX ore equivalent as approved by client and cosultant. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joint sand fixing the same with adhesive solvent, including cost of all materials.	72.69	R.Mt.		
129	Providing laying and jointing in true line and level 32mm Dia U.P.V.C .Pipe (SCH 40) for cold water including fittings make PRINCE/SUPREME/ ASTRAL/FINOLEX ore equivalent as approved by client and cosultant. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joint sand fixing the same with adhesive solvent, including cost of all materials.	81.50	R.Mt.		
130	Providing laying and jointing in true line and level 40mm Dia U.P.V.C .Pipe (SCH 40) for cold water including fittings make PRINCE/SUPREME/ ASTRAL/FINOLEX ore equivalent as approved by client and cosultant. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joint sand fixing the same with adhesive solvent, including cost of all materials.	91.00	R.Mt.		
131	Providing laying and jointing in true line and level 50mm Dia U.P.V.C .Pipe (SCH 40) for cold water including fittings make PRINCE/SUPREME/ ASTRAL/FINOLEX ore equivalent as approved by client and cosultant. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joint sand fixing the same with adhesive solvent, including cost of all materials.	78.50	R.Mt.		
132	Providing laying and jointing in true line and level 65 mm dia. U.P.V.C .Pipe (SCH-40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	105.00	R.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
133	Providing, laying and jointing in true line and level 110 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed ncluding necessary fittings such as bends, shoes single or double "Y" with door, reducer, coupler single T with door bend, pipe clip on wooden patti etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	75.00	R.Mt.		
134	Providing, laying and jointing in true line and level 160 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diametre x 210 mm length x 196 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes single or double "Y" with door, reducer, coupler single T with door bend, pipe clip on wooden patti etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	75.00	R.Mt.		
135	Providing and fixing to wall ceiling and floor 10.0 kg.F/Cm2 working pressure poluthene pipes75mm dia of the following outside Dia. Low density, complete with special flange compression type fittings ,wall clipsetC. Including making good the wall ceiling and floor. 75mm Dia	125.00	R.Mt.		
136	Providing and fixing to wall ceiling and floor 10.0 kg.F/Cm2 working pressure poluthene pipes 110mm dia of the following outside Dia. Low density, complete with special flange compression type fittings ,wall clipsetC. Including making good the wall ceiling and floor. 110mm Dia	60.00	R.Mt.		
137	Providing and fixing S.W. Gully trap with C.I. grating brick masonry chamber & water-tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight. Square mouth trap 150mm x 150mm size P or R type.	15.00	Nos		
138	Construction brick masonry chamber for underground C.I.inspection chamber and bends with brick having crushing strength not less than 35 kg/cm2 in C:M 1:5 R.C.C. top slab with 1:2:4 mix (1 cement; 2 coarse sand; 4 graded stone aggregate 20mm nominal size) with 8mm dia steel at 15 cm.c/c and providing and fixing precast R.C.C. cover size 0.60 x 0.45 x 0.07 m with 40 x 40 x 5mm angle frame and foundation concrete 1:5:10 inside plaster 15mm thick with cement with a floating coat of neat cement walls and bed concrete etc. complete .Rates are also inclusive of outside plaster 15mm thick in C:M 1:3 from top of chamber and all side upto 45 cms. deep below ground level. Inside dimension 455mm x 610mm and 450mm deep for Multi purpose pipe line.	7.00	Nos		
139	Constructing R.C.C. man hole with r.c.c. top slab in (1:2;4) mix with foundation concrete (1:3:6) inside plastering 15mm thick in C.M. (1:4) finished with floating coat of neat cement slurry and making channels in cement concrete (1:2:4) mix finished smooth complete incl curing & testing Inside size 900 m.m.x1200 m.m.x 1500 mm deep including FRC Manhole cover of HD-20 capacity with frame.(A) With 230mm thick walls of brick masonry using bricks of crushing strength 35 kg/sq cm. in cement mortar (1:5) B type depth 1.5 mt for 1.5 mt diameter sewer.	5.00	Nos		
140	Providing and laying (to level and slope) and jointing with stiff mixture of C:M 1:1 150 mm dia. salt galzed stoneware pipe following nominal internal diameter including testing of pipe and joint etc. complete.	50.00	R.Mt.		
141	Providing and fixing cowl, on Ventilating pipes and verticals for soil and waste Pipes at top level/terrace level, as specified and required, etc. complete. 75mm dia	5.00	Nos		
142	Providing and fixing cowl, on Ventilating pipes and verticals for soil and waste Pipes at top level/terrace level, as specified and required, etc. complete. 100mm dia	3.00	Nos		
143	Providing & fixing in position PVC water tank of approved quality and size on terrace including making inlet and outlet. Overflow and washout arrangement with G.I.connection including using necessary material and labour for connection etc. complete with closed cover including of providing and applying two coats of oil paint on outside of water tank as per drawing and specification including intel and outlet joints shall be sealed by pipe sealent.	6000.00	Ltr		
144	Drilling with core cutting machine in RCC beams, slabs, floors etc., for laying pipes and rendering the same in RCC-20 (1:1.5:3)finishing the same to the satisfaction of the owner or his authorised representative etc.,including nominal reinforcement wherever required,complete,at all levels The quote shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes upto 250mm max depth at all heights & levels (a.) Up to 32mm dia.	25.00	Each.		
145	Drilling with core cutting machine in RCC beams, slabs, floors etc., for laying pipes and rendering the same in RCC-20 (1:1.5:3)finishing the same to the satisfaction of the owner or his authorised representative etc.,including nominal reinforcement wherever required,complete,at all levels The quote shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes upto 250mm max depth at all heights & levels (a.) Up to 32mm dia. (b.) Above 32mm dia and upto 100mm dia	20.00	Each.		
146	Drilling with core cutting machine in RCC beams, slabs, floors etc., for laying pipes and rendering the same in RCC-20 (1:1.5:3)finishing the same to the satisfaction of the owner or his authorised representative etc.,including nominal reinforcement wherever required,complete,at all levels The quote shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes upto 250mm max depth at all heights & levels (a.) Up to 32mm dia. (c.) Above 100mm dia. and up to 200mm dia.	15.00	Each.		
147	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S.class NP2 of the following internal diameter with collars and buttends prepared for collar joints including testing of joints complete (150mm dia)	100.00	R.Mt.		
148	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes 300mm dia I.S.class NP2 of the following internal diameter with collars and buttends prepared for collar joints including testing of joints complete. (300mm dia)	81.00	R.Mt.		
149	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes 450mm dia I.S.class NP2 of the following internal diameter with collars and buttends prepared for collar joints including testing of joints complete. (450mm dia)	81.00	R.Mt.		

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT					
CLIENT:GUJARAT UNIVERSITY					
SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
150	Point wiring in Copper (Modular) Point wiring for Light/Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/on surface on wall/ceiling complete with 6A Modular type switch/bell push & accessories and earth continuity of following type, erected on PVC/Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on/in wall/ceiling as per pipe erected, with necessary Lamp holder/ceiling rose/H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	100.00	Pt.		
151	Point wiring for secondary light point with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/flushed on wall/ceiling, complete with earth continuity and necessary connection with primary light with accessories erected on Metal/PVC box covered with 3 mm thick PC(Polycarbonet)/Acrylic sheet for open/concealed wiring. with necessary Lamp holder/ceiling rose H.D.Connector as directed. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (a) with medium class Rigid PVC pipe and accessories	120.00	Pt.		
152	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC/Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on/in wall/ceiling as per pipe erected. with necessary ceiling rose/H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	120.00	Pt.		
153	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in/on surface of wall/ceiling complete with Modular type switch & 5 pin Plug erected on PVC/Metallic box covered with appropriate front plate modules erected on/in wall/ceiling as per pipe erected with following type of accessories. [I] For 6A Plug with 2-1.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	85.00	Pt.		
154	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in/on surface of wall/ceiling complete with Modular type switch & 5 pin Plug erected on PVC/Metallic box covered with appropriate front plate modules erected on/in wall/ceiling as per pipe erected with following type of accessories.[III] For 16A Plug with 2-4 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	30.00	Pt.		
155	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC/Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on/in wall/ceiling with following type accessories Cat. III	150.00	Pt.		
156	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/flushed on wall/ceiling, complete with 6A Modular type switches and following type of accessories erected on PVC/Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on/in wall/ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	10.00	Pt.		
157	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge (3) Two Pin/RJ-11 Telephone Socket [A] For One Gang Cat.III	30.00	Ea.		
158	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge (4) TV Co-axial Socket outlet Cat.III	10.00	Ea.		
159	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge (5) Electronic hum Free four or more steps EME Fan regulator Cat.III	150.00	Ea.		
160	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge (7) Blank Plate Single Cat.III	500.00	Ea.		
161	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge.(8) Modem Jack for Computer Open RJ-45 Cat.III	75.00	Ea.		
162	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate, modules erected with necessary connection. As desired by Engineer In charge. (12) 6Amp./16 Amp. Two Way switch Cat.III	50.00	Ea.		
163	Providing following type of Modular Type Accessories mounted with pvc/metallic box, single mounting base frame covered with textured/metallic front plate , modules erected with necessary connection. As desired by Engineer In charge. (22) 16/20/25 Amp. Modular Starter for Motor/A.C. Unit Complete Cat.III	10.00	Ea.		
164	Conduits & Pipes Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	500.00	Mtr.		
165	Conduits & Pipes Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (c) 32 mm	200.00	Mtr.		
166	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	500.00	Mtr.		
167	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (3) 32 mm	100.00	Mtr.		
168	(A) Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free & flame proof confirming BS .All necessary accessories and measuring of following sizes. (2) 100 mm x 50 mm trunking	50.00	Mtr.		

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169	[C] G.I. Junction cross over box for metal/Al. trunking with duct entry 25mm x 38mm size having epoxy powder coated trap lead with corrosion & rust free having load bearing capacity of 3.6 TONS with adjustable levelling screw of following size.[1] 150mm x 150mm x 60/75 mm depth	5.00	Ea			
170	[C] G.I. Junction cross over box for metal/Al. trunking with duct entry 25mm x 38mm size having epoxy powder coated trap lead with corrosion & rust free having load bearing capacity of 3.6 TONS with adjustable levelling screw of following size.[3] 300mm x 300mm x 60/75 mm depth	5.00	Ea			
171	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in/flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	1800.00	Mtr			
172	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in/flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	3800.00	Mtr			
173	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in/on wall/ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 4 sq. mm	1800.00	Mtr			
174	Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (e) One wire 6.00 sq. mm	100.00	Mtr.			
175	Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(f) One wire 10.00 sq. mm	100.00	Mtr.			
176	Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (g) One wire 16.00 sq. mm	100.00	Mtr.			
177	Supplying and erecting Flexible PVC insulated multistrand multicore 1.1 kv grade ISI marked copper wires of following size to be erected as directed. b) 1.00 Sq.mm twin twisted	500.00	Mtr.			
178	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. b)RG-6	750.00	Mtr.			
179	Supplying & erecting Delton or approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & conforming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections. (b) Armoured [Jelly Filled] 1) Ten Pairs	100.00	Mtr.			
180	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	4200.00	Mtr			
181	Providing & erecting main Distribution (MDF) indoor type, back mounted frame. (a) Suitable for 10 pair	5.00	Ea.			
182	Providing & erecting main Distribution (MDF) indoor type, back mounted frame. (b) Suitable for 20 pair	5.00	Ea.			
183	Providing & erecting main Distribution (MDF) indoor type, back mounted frame. (c) Suitable for 50 pair	2.00	Ea.			
184	Providing & Erecting 3mm thick acrylic Sheet with grooving as directed	1000.00	Sq. Inch.			
185	Providing & erecting Switch board for Computer or electric apparatus consisting of following items in single board erected on PVC/Metal board with 3 mm thick PC (Polycarbonate)/Acrylic sheet erected as directed 1 no. 6A/16A universal plug-switch combined. 4 nos. 6A Switch 4 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III	10.00	Ea.			
186	Providing Approved make panel mounting front fixing rotary switch (CAM Switch) with face plate with double pair of contacts with two fix and a moving contacts, operated by means of slide, rest on disk with grooves for sequential operation rotated by switch handle, square shaft and knob for Two way with off (i)Two pole (a) 16/25A - 240 V	50.00	Ea.			
187	Providing Approved make panel mounting front fixing rotary switch (CAM Switch) with face plate with double pair of contacts with two fix and a moving contacts, operated by means of slide, rest on disk with grooves for sequential operation rotated by switch handle, square shaft and knob for Two way with off (ii) Four pole (a) 16/25A - 440V	20.00	Ea.			
188	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating up to 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	2.00	Ea.			
189	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating up to 200A.with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S.housing. ICS=100% of ICU only Cat III	1.00	Ea.			
190	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 50 KA at 415 V having Normal current rating up to 400A. with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. With all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	1.00	Ea.			
191	Supplying and erecting triple pole & neutral 440V/500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp./sq.mm (Rated current/cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports/insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. Capacity	10.00	Rn.Mtr			

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192	Supplying and erecting triple pole & neutral 440V/500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp./sq.mm (Rated current/cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections.(D) Suitable for 400 Amp. Capacity	12.00	Rn.Mtr		
193	Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	244.00	Ea.		
194	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (a) 6 to 32 Amp. Cat.III	2.00	Ea.		
195	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat.III	4.00	Ea.		
196	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III	10.00	Ea.		
197	Half/One Module Blanking Plate of Standerd Size.	10.00	Ea.		
198	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) (L) Three phase 6 way SS Double door for single phase outgoing horizontal box	4.00	Ea.		
199	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) (N) Three phase 8 way SS Double door for horizontal single phase outgoing	10.00	Ea.		
200	Supplying & erecting Sheet Steel powder coated Cable end termination Box to be mounted on Top or Bottom of the MCB Distribution Box for housing/covering Extra wires & Cables, suitable for following size of MCB DB Box. (F) Three Phase 6 Way	4.00	Ea.		
201	Supplying & erecting Sheet Steel powder coated Cable end termination Box to be mounted on Top or Bottom of the MCB Distribution Box for housing/covering Extra wires & Cables, suitable for following size of MCB DB Box. (G) Three Phase 8 Way	8.00	Ea.		
202	Approved make ELCBs/RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on single phase 240 V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP Cat. III	12.00	Ea.		
203	Approved make ELCBs/RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on single phase 240 V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III	30.00	Ea.		
204	Supplying & fixing box for housing ELCB/ELCB + MCB combination made of 18 SWG sheet steel duly powder coated with gasket, dust & vermin proof bakelite shield two earthing terminals for following type of RCCB, ELCB, ELCB + MCB [b] For 4 Pole	2.00	Ea.		
205	Providing and erecting metallic vitrified danger notice board for MEDIUM VOLTAGE installation to be erected as per IS.	10.00	Ea.		
206	Providing & erecting Medium Voltage Danger Notice Board sticker of standard size	10.00	Ea		
207	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	10.00	Kg.		
208	Providing and erecting required size Copper strip for earthing of H.T. OCB / ACB/ Transformer, LT panel board, Motors etc. using copper clamp.	10.00	Kg.		
209	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	10.00	Kg.		
210	Supplying & erecting in earthpit of minimum bore dia. 225mm size ASH or approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications. [C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System (like Automation, SCADA) i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc.. -Length of Pipe : 3 Mtrs. -Back filling Compound :2 nos Bags of 25 Kg.	6.00	Ea.		
211	Providing one bag of 25 Kg. Additional Back Filling Compound (BFC) suitable for safe earthing device.	10.00	Ea.		
212	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire/copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use (i) with 350mm depth	2.50	Sq.Mtr		

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213	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire/copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use(ii) with 550 mm. Depth	4.50	Sq.Mtr		
214	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use (iv) with 1000 mm. depth	2.00	Sq.Mtr		
215	Steel cover as per drawing using 16 SWG M.S.sheet of following depth, to house the switch gear etc. complete with locking arrangement and lock with duplicate keys per cupboard and door handles erected with necessary support and painting. [One coat red oxide and two coat enamel paint] (A) with angle iron frame (i) For 25 cms. Depth	2.50	Sq.Mtr		
216	Steel cover as per drawing using 16 SWG M.S.sheet of following depth, to house the switch gear etc. complete with locking arrangement and lock with duplicate keys per cupboard and door handles erected with necessary support and painting. [One coat red oxide and two coat enamel paint] (A) with angle iron frame (ii) For 40 cms. Depth	1.50	Sq.Mtr		
217	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	50.00	Kg.		
218	Painting by cleaning, the surface and applying one coat of primer and two coats of enamel paint for meter cup-board or base plate suitable to match the wall finish	50.00	Sq.Mtr		
219	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench/pipe at road crossing or floor of following size of cables. (B) 4 core 6 Sq. mm	150.00	Mtr.		
220	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (b) 2 to 4 core 6 Sq. mm	40.00	Ea.		
221	Solderless crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq.mm	500.00	Ea.		
222	Solderless crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	100.00	Ea.		
223	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make shall be approved by Engineer in charge))	150.00	Ea.		
224	Supplying & erecting Fan Hook of 10 mm M.S. Round bar grouted in RCC slab with Making the site as original.	150.00	Ea.		
225	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM Cat.II	10.00	Ea.		
226	Providing suitable M.S. louver shutter of the Exhaust fan.	10.00	Ea.		
227	Float cum boost Charges for EPABX System with [C] Current Rating - 25A, Voltage Rating - 48 V	1.00	Ea.		
228	Small EPABX System with In Built 4 Port Voice Mail [E] No. Extension - 64 , No. of Junction -16 , No. of expandable ports -256 , Operators Console -01 Compatible - ISDN & networking	1.00	Ea.		
229	Supplying & erecting Push button type telephone instrument (A)BEE/TEL Secure/BPL/SONY/PANASONIC or equivalent make	1.00	Ea.		
230	Supplying & erecting push button type telephone instrument having speaker phone Caller ID & hands free dialling system & 30 memories with display system (a) Single line BPL/SONY/BEETEL or equivalent make	10.00	Ea.		
231	Supplying & erecting Philips/Ahuja make Chairman unit comprising - 63 dBV, 7.5 mv/pa gooseneck microphone, Talk switch, Priority switch, Talk Switch LED, Ring LED indicator, connecting cable 6 core shielded, 2.5mtr long with, female plug, 300 mw 8 ohms impedance speaker, connector for Delegate unit, volume control device fitted in heavy cast aluminium housing..	5.00	Ea.		

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232	Supplying & erecting Philips/Ahuja make control Amplifier comprising Two nos. MIC volume control, One Aux. Volume control BASS & TREBLE control, Master Volume Control, Line Level Control, LED Array, input jack, selector switch, PREAMP /REEK output to facilitate recording. PA Amplifier section operating on AC 220- 240V or 12 V DC, with power output 70W ROMS max. & input of 3 X MIC 0.6mv/4.7 K.Ohms & I x Aux. 50mv/47 K.Ohms with frequency response 90-16000 Hz with two 7 pin line connectors & capable up to 50 conference units.	5.00	Ea.		
233	Supplying & erecting Philips Ahuja make Booster Amplifier having power output of 250W (RMS) suitable to obtain combined power output of two, with 6 mike inputs & suitable to be used independently as a 250watt amplifier in combination with mike & mixer. The booster Amplifier shall be without mike & Aux. input channels, The system shall be suitable to operate on 240V. A.C. & 24 Volts D.C. Battery.	5.00	Ea.		
234	Supplying & erecting Philips/Ahuja make four channel Echo Mixer Pre-amplifier with following specification. (i) Suitable to operate on 240V.A.C. & 12 V D.C. Battery supply (ii) B.B.D. Delay system ECHO facility on all inputs through ECHO volume, Repeat & Delay system. (iii) Peak LED for setting optimum distortion free input levels (iv) Two outputs, variable for line & fixed for recording (v)Compatible with Audio Mixing consoles	5.00	Ea.		
235	Supplying & erecting recess wall mounting speaker with 5W rated input power 3.3 K. Ohms / 3W impedance, 100 - 10000 Hz frequency response with 6 inch dia. cone type 8 ohms speakers duly fitted in ABS plastic cabinet of colour match with wall or ceiling of following size. (a)Round Shaped, 230mm dia. Speaker	30.00	Ea.		
236	Supplying & erecting recess wall mounting speaker with 5W rated input power 3.3 K. Ohms / 3W impedance, 100 - 10000 Hz frequency response with 6 inch dia. cone type 8 ohms speakers duly fitted in ABS plastic cabinet of colour match with wall or ceiling of following size. (b)Square shaped 260 x 260mm size speaker	30.00	Ea.		
237	Supplying, installing and testing approved make microphone for All purpose, with frequency response of 100 - 11000 Hz, having sensitivity 2.2mv / Pa & impedance 500 Ohms (LO- Z) supplied with quick detachable holder, 6 mtr twin core cable & 3 pin XLR connector.	5.00	Ea.		
238	Supplying & erecting bank of all polypropylene condenser (APP type) with standard capacity of 2,3,5,7, 10,12.5 & 15 KVAR units of P.F. correction for operation on 3 phase 50 c/s, 400 /440V (+/- 10%) with externally discharging resistance, earthing terminal & built on angle iron of channel iron frame work and provided with terminal cover box. Complete erected on provided iron bracket or on floor duly tested by license.	200.00	KVAR		
239	Supplying and erecting approved make surge/spike suppressor having 3 out lets of 1.8 AMP each complete erected.	10.00	Ea.		
240	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	10.00	Ea.		
241	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC, erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	10.00	Ea.		
242	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	10.00	Ea.		
243	Supplying & erecting approved make Power Factor Meter 150mm dia flush/projection type/ balanced & unbalanced load to work with appropriately provided CT's 100/5A to 400/5A ratio & other accessories complete erected in M.S. box & connected to the circuit by means of PVC copper Core leads.	10.00	Ea.		
244	Supplying and erecting approved make set of indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.	10.00	Ea.		
245	Providing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock	15.00	Ea.		
246	Supplying stand first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, Scissors, anti-septic solution (Savlon or similar) etc. (All above contents shall be of standard makes)	15.00	Ea.		
247	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/ non-integral driver (D) 20-22 Watts, Surge - 4KV,IP-20 Cat-III	30.00	Each		
248	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (C) Square/Circular Surface/Recessed Mounted Downlight with provision for spring loaded mounting clips complete. (b) 10-15 watts, Surge-4 KV Cat-III	30.00	Each		

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SCHEDULE-B WITHOUT RATE					
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
249	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (C) Square/Circular Surface/Recessed Mounted Downlight with provision for spring loaded mounting clips complete. (C) 20-24 watts, Surge-4 KV Cat-III	30.00	Each		
250	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (D) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete. (g) upto 45 to 48 watts, 600 x 600 mm, Surge-4 KV Cat-III	85.00	Each		
251	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (H) Step Light having fibre reinforced plastic housing (a) 5 watts, Direct/Indirect luminaire Cat-III	25.00	Each		
252	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt , LED driver efficiency > 85 % CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (I) Mirror Light 5 watt , Wall mounted.	25.00	Each		
253	Removing Old Wiring	1.00	JOB		
254	Remoiving Exsting Building CCTV and Re fixing CCTV	50.00	Each		
255	Reception Table (Size: 2400mm x 600mm x 750mm) Providing and fixing in Reception table as of size 3600MM x750MM will be made of 19 mm thick plywood for table top and 19mm thick plywood for other horizontal and vertical members. All used plywood should be MR grade. Stand /ready made Keyboard tray shall be provided of approved model and make Footrest made with Ghana teak wood members of size 100MMx50MM finished with Melamine polish. The Reception table shall have bend glass of thk. 12mm having NR finish fixted with SS hardware. The reception table shall be finished with laminte of approved make and all exposed edges shall be polished with matt melamine. The rate shall include all materials,hardware and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant.	1.00	Nos.		
256	Table (Size: 2400mm x 1050mm x 750mm) Providing and fixing 38mm thick plywood top with laminate finish with in approved shade with telescopic suspended metal keyboard with mouse tray with 38mm vertical legs made by plywood with laminate finish with . The Appron should be made from plywood with laminate finish with as per detail drawing, Drawer unit box (410MM x 430MM x 650MM) with wooden bidding patti on nylon castor with lock and telescopic channel should be made from 18mm plywood with laminate outside 1.0mm and 0.8mm inside laminate finish. The shutter out side shall be laminate finish and 0.8mm inside laminate finish with Auto hinges and drawer should made from 18mm plywood with laminate finish in approved shade and CPU Trolley should be supplied of metal powder coated, Footrest (100 x 75 mm) should be from teakwood with melamine polish finish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of Laminate Rs. 475/- per Smt.)	1.00	Nos.		
257	Meeting Table (Size: 2400mm x 1050mm x 750mm) Providing and fixing 38mm thick plywood top with laminate finish in approved shade with 57mm vertical gables made by plywood with outside 1.0mm and inside 0.8mm laminate finish with as per detail drawing. All exposed edges covered with wooden beading with melamine polish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of laminate Rs. 475/- per Smt.)	1.00	Nos.		
258	Meeting Table (Size: 5400mm x 1200mm x 750mm) Providing and fixing 38mm thick plywood top with laminate finish in approved shade with 57mm vertical gables made by plywood with outside 1.0mm and inside 0.8mm laminate finish with as per detail drawing. All exposed edges covered with wooden beading with melamine polish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of laminate Rs. 475/- per Smt.)	1.00	Nos.		

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CLIENT:GUJARAT UNIVERSITY					
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Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount
259	Table (Size: 1500mm x 750mm x 750mm) Providing and fixing 38mm thick plywood top with laminate finish with in approved shade with telescopic suspended metal keyboard with mouse tray with 38mm vertical legs made by plywood with laminate finish with . The Apron should be made from plywood with laminate finish with as per detail drawing, Drawer unit box (410MM x 430MM x 650MM) with wooden bidding patti on nylon castor with lock and telescopic channel should be made from 18mm plywood with laminate outside 1.0mm and 0.8mm inside laminate finish. The shutter out side shall be laminate finish and 0.8mm inside laminate finish with Auto hinges and drawer should made from 18mm plywood with laminate finish in approved shade and CPU Trolley should be supplied of metal powder coated, Footrest (100 x 75 mm) should be from teakwood with melamine polish finish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of Laminate Rs. 475/- per Smt.)	13.00	Nos.		
260	Table (Size: 1350mm x 675mm x 750mm) Providing and fixing 38mm thick plywood top with laminate finish in approved shade with telescopic suspended metal keyboard with mouse tray with 38mm vertical legs made by plywood with laminate finish . The Apron should be made from plywood with laminate finish outside 1.0mm and inside 0.8mm as per detail drawing, The CPU Trolley should be supplied of metal powder coated, Footrest (100 x 75 mm) should be from teakwood with melamine polish finish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of laminate Rs. 475/- per Smt.)	3.00	Nos.		
261	Side Table (Size: 1200mm x 600mm x 710mm) Providing and fixing 38mm thick plywood top with laminate finish in approved shade with telescopic suspended metal keyboard with mouse tray with 38mm vertical legs made by 18mm thick plywood with inside 0.8mm and 1.0mm outside laminate finish . The Apron should be made from plywood with laminate finish as per detail drawing, Footrest (100 x 75 mm) should be from teakwood with melamine polish finish in approved shade. The table shall have 12mm thick back painted designer glass top as per design. Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of laminate Rs. 475/- per Smt.)	1.00	Nos.		
262	L- Type Workstation (Size: 1500mm x 1500mm x 750mm) Providing and fixing Cluster (Workstation) as per drawing, Framing the skeleton with 19mm + 19mm = 38mm thick vertical and horizontal plywood patti both side cover with 6mm for grooving design and finishing with selected laminate. Before installation, make hole/face plate for conduit pipes of electrical/networking cables with openable stud from horizontal partition. The Vertical support of 19mm + 19mm thick double plywood cover with 1mm laminate finish including teakwood bidding on exposed edges with melamine polish. The 38mm thick plywood with laminate finish top, fixed with necessary hardware, including suspended metal keyboard-mouse tray fixed with telescoping channel, cable manager and separate drawer with lock, telescoping channel and box, made from 19mm plywood with 1mm outside and 0.8mm inside laminate as well as 19mm post forming Outside of shutter with Auto hinges of standard make for Left or Right side. (Basic Cost of laminate Rs. 475/- per Smt.)	6.00	Nos.		
263	Linear Workstation (Size: Depth 600mm x Height 750mm) Providing and fixing Cluster (Workstation) as per drawing, Framing the skeleton with 19mm + 19mm = 38mm thick vertical and horizontal plywood patti both side cover with 6mm for grooving design and finishing with selected laminate. Before installation, make hole/face plate for conduit pipes of electrical/networking cables with openable stud from horizontal partition. The Vertical support of 19mm + 19mm thick double plywood cover with 1mm laminate finish including teakwood bidding on exposed edges with melamine polish. The 38mm thick plywood with laminate finish top, fixed with necessary hardware, including suspended metal keyboard-mouse tray fixed with telescoping channel, cable manager and separate drawer with lock, telescoping channel and box, made from 19mm plywood with 1mm outside and 0.8mm inside laminate as well as 19mm post forming Outside of shutter with Auto hinges of standard make for Left or Right side. (Basic Cost of laminate Rs. 475/- per Smt.)	38.00	Rmt.		
264	Side credenza (Size: 900mm x 375mm x 750mm) Providing and fixing Side Credenza with 18mm thick plywood box frame work. The shutters shall be 18mm thick plywood with outside 1mm thick and inside 0.8mm thick laminate finished with expose edge having wood beading in approved shade melamine polish. The vertical and horizontal exterior surface of plywood shall be laminate finish outside 1.0mm inside 0.8mm thk. laminate finish in approved shade. The shutter shall have Auto hinges for Left or Right side opening. The plywood used shall be of MR grade. All edge beading should be in wood and matching to the selected laminates with magnet, lock, Auto hinges. Including all materials and labour etc. complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	11.00	Smt.		
265	Back storage (Size: Hight - 750mm x Depth - 400mm) Providing and fixing back storage with 18mm thick plywood box frame work. The shutters shall be 18mm thick plywood with outside 1mm thick and inside 0.8mm thick laminate finished with expose edge having wood beading in approved shade melamine polish. The vertical and horizontal exterior surface of plywood shall be laminate finish outside 1.0mm inside 0.8mm thk. laminate finish in approved shade. The shutter shall have Auto hinges for Left or Right side opening. The plywood used shall be of MR grade. All edge beading should be in wood and matching to the selected laminates with magnet, lock, Auto hinges. Including all materials and labour etc. complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	6.00	Smt.		
266	Low ht. storage (Size: Hight - 750mm x Depth - 400mm) Providing and fixing Low ht. storage with 18mm thick plywood box frame work. The shutters shall be laminate finished with expose edge having wood beading in approved shade melamine polish. The vertical and horizontal exterior surface of plywood shall be laminate finish outside 1.0mm inside 0.8mm thk. laminate finish. The shutter shall have Auto hinges for Left or Right side opening. The plywood used shall be of MR grade. All edge beading should be in wood and matching to the selected laminates with magnet, lock, Auto hinges. Including all materials and labour etc. complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	6.00	Smt.		
267	Half ht. storage (Size: Hight - 1200mm x Depth - 400mm) Providing and fixing Half ht. storage with 18mm thick plywood box frame work. The shutters shall be laminate finished with expose edge having wood beading in approved shade melamine polish. The vertical and horizontal exterior surface of plywood shall be laminate finish outside 1.0mm inside 0.8mm thk. laminate finish. The shutter shall have Auto hinges for Left or Right side opening. The plywood used shall be of MR grade. All edge beading should be in wood and matching to the selected laminates with magnet, lock, Auto hinges. Including all materials and labour etc. complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	37.00	Smt.		

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268	Half ht. partition (Hight - 1220mm) Providing and fixing Half height wooden partition installation upto 1220mm as per drawing and the structural framing of Aluminum square pipe size of 50mm x 25mm and 1.6mm thick all vertical and horizontal member 600mm c/c both direction fixed by aluminum angle size of 25mm x 25mm x 25mm for proper finishing with both side cover with 6mm plywood with grooving detail and 12mm glass fixed with wooden beading as per design. All exposed edges shall be covered with necessary sizes wooden patti finish with melamine polish in approved shade. The partition fixing properly without any air gap and finishing with selected 4mm thick laminate finished with melamine polish as per approved shade. The glass shall be finished with vinyl film as per design. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with openable stud from partition. Rate shall include necessary itching film, Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	17.00	Smt.		
269	Full ht. Partly glazed partition Providing and fixing full height partly glazed partition with 8mm glass installation upto ceiling or beam bottom as per drawing and the structural framing of Aluminum square pipe size of 50mm x 25mm and 1.6mm thick all vertical and horizontal member 600mm c/c both direction fixed by aluminum angle size of 25mm x 25mm x 25mm for proper finishing with both side cover with 6mm plywood with grooving detail as per design. All exposed edges shall be covered with necessary sizes wooden patti finish with melamine polish in approved shade. The plywood fixing properly without any air gap and finishing with selected laminate finish as per design. The glass shall be finished with vinyl film as per design. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with openable stud from partition. Rate shall include necessary itching film, Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Mode of measurement shall be till false ceiling lvl.) (Basic Cost of laminate Rs. 475/- per Smt.)	62.00	Smt.		
270	Full ht. Solid partition Providing and fixing Full height wooden partition installation upto ceiling or beam bottom as per drawing and the structural framing of Aluminum square pipe size of 50mm x 25mm and 1.6mm thick all vertical and horizontal member 600mm c/c both direction fixed by aluminum angle size of 25mm x 25mm x 25mm for proper finishing with both side cover with 6mm plywood with grooving detail and 12mm glass fixed with wooden beading as per design. All exposed edges shall be covered with necessary sizes wooden patti finish with melamine polish in approved shade. The partition fixing properly without any air gap and finishing with selected outside 1.0mm and inside 0.8mm thk. laminate finish as per approved shade. The glass shall be finished with vinyl film as per design. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with openable stud from partition. Rate shall include necessary itching film, Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Mode of measurement shall be till false ceiling lvl.) (Basic Cost of laminate Rs. 475/- per Smt.)	47.00	Smt.		
271	Partly Glazed Door Providing and fixing partly glazed door made of 35mm thk. flush door with both side laminate finished door as shown in the drg. The door shall consist of make 8mm thk. clear float glass fixed with teak wood beading as per design drawing. The door finished with both side 1mm thick laminate in two colour combination as per design. All exposed edges covered with teak wood patti finish with laqure polish in approved shade. Rate shall Including Handle, Lock , Door Stopper, Door Closer, S.S. heavy duty hinges etc. all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	13.00	Smt.		
272	Three seater Sofa (Size: 2100mm x 750mm) Providing and supplying the sofa will be total prepared in 18mm plywood. Then Z-Section spring use and on top 4".0' rubber cushion and top 25mm thick and 32 density U-Foam finished with leather rexin as per selected sample. The back support fitted with 2".0' rubber cushion with 25mm U-Foam with 32 density appropriate 3" angle support. All finished with cloth fabric of basic cost Rs. 500 per sqmt. as selected by the architect or engineer-in charge. handle and footing support shall be finished in Teak wood with malamine finished as shown in drawing. The rate shall be Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge.	2.00	Nos.		
273	Two seater Sofa (Size: 1800mm x 750mm) Providing and supplying the sofa will be total prepared in 18mm plywood. Then Z-Section spring use and on top 4".0' rubber cushion and top 25mm thick and 32 density U-Foam finished with leather rexin as per selected sample. The back support fitted with 2".0' rubber cushion with 25mm U-Foam with 32 density appropriate 3" angle support. All finished with cloth fabric of basic cost Rs. 500 per sqmt. as selected by the architect or engineer-in charge. handle and footing support shall be finished in Teak wood with malamine finished as shown in drawing. The rate shall be Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge.	5.00	Nos.		
274	Corner table (Size: 600mm x 600mm) Providing and fixing 12mm thick designer glass top supported with SS stud with 18mm thick plywood frame (shown in detail drawing) with 1mm approved laminate finish with nylon buffers and including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	2.00	Nos.		
275	Corner table (Size: 600mm x 450mm) Providing and fixing 12mm thick designer glass top supported with SS stud with 18mm thick plywood frame (shown in detail drawing) with 1mm approved laminate finish with nylon buffers and including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	2.00	Nos.		
276	Corner table (Size: 600mm x 375mm) Providing and fixing 12mm thick designer glass top supported with SS stud with 18mm thick plywood frame (shown in detail drawing) with 1mm approved laminate finish with nylon buffers and including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	3.00	Nos.		
277	Podium (Size: 600mm x 600mm) Providing and fixing 25mm plywood with laminated top with expose edge having wooden beading with melamine polish in approved shade. Side made out of 18mm thick plywood with exterior and interior sides beading with approved 1mm thick laminate finish, Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	3.00	Nos.		
278	Wooden Stage (Size: 7800mm x 2100mm x 300mm) Providing & fitting wooden stage made from 18mm thick plywood skeliton structure of MR grade. The Top & vertical surface shall be covered with 18mm thick plywood. The Apron shall be finish with 1mm thick laminate in approved shade. The rate shall be Including all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge. (Basic Cost of laminate Rs. 475/- per Smt.)	10.00	Smt.		

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279	Carpet floor work Providing & fixing machine made Loop Pile Carpets of 100% polypropylene with Total Pile wt. ± 5% 600 gsm and Gauge 1/10". The carpet effective pile height ± 5% 5.5 mm and Total Carpet wt. ± 5% 1600 gsm. The Carpet tile size of 600mm x 600mm. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect.	19.00	Smt.		
280	Wooden paneling for Stage (Laminate finish) Providing & fixing Wall paneling made of 50mm x 25mm aluminum square pipe C/C - 600mm horizontal & vertical member structure. The structure covered with 12mm plywood finished with 1mm thk. Laminate finished and electrical conducting and net wiring etc. All exposed edge wooden beading finished with melamine polish on surfaces openable facility with necessary hardware as per design and instruction as directed by site in-charge or architect.complete as per detail drawing. including cost of required Cut-Outs, decorative mouldings /finishingitems/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	13.00	Smt.		
281	Wooden Box paneling work Providing & fixing wooden box type paneling on wall for design and electrical conducting and wiring etc. made by 18 mm plywood framing, approved laminate finished with polish on surfaces openable facility with necessary hardware as per design and instruction as directed by site in-charge or architect.complete as per detail drawing. including cost of required Cut-Outs, decorative mouldings /finishingitems/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	75.00	Smt.		
282	Wooden Box paneling work (Paint finish) Providing & fixing wooden box type paneling on wall for design and electrical conducting and wiring etc. made by 18 mm plywood framing with 6mm MDF with approved paint finished with surfaces openable facility with necessary hardware as per design and instruction as directed by site in-charge or architect.complete as per detail drawing. including cost of required Cut-Outs, decorative mouldings /finishingitems/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant.	100.00	Smt.		
283	Pantry Below Platform Storage 600mm wide Providing and fixing Pantry below storage with 18mm thick plywood box frame work. The shutters shall be laminate finished with expose edge having wood beading in approved shade melamine polish. The vertical and horizontal exterior surface of plywood shall be laminate finish outside 1.0mm inside 0.8mm thk. laminate finish. The shutter shall have Auto hinges for Left or Right side opening. The plywood used shall be of MR grade. All edge beading should be in wood and matching to the selected laminates with magnet, lock, Auto hinges. Including all materials and labour etc. complete as per instruction of engineer-in charge and consultant. (Basic Cost of laminate Rs. 475/- per Smt.)	12.00	Smt.		
284	High back chair Providing & supplying High back chair as per selection. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect. (Basic cost of High back chair - Rs. 11500/- per Nos.)	2.00	Nos.		
285	Medium back chair Providing & supplying Medium back chair as per selection. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect. (Basic cost of Medium back chair - Rs. 8700/- per Nos.)	34.00	Nos.		
286	Low back chair Providing & supplying Medium back chair as per selection. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect. (Basic cost of Low back chair - Rs. 5800/- per Nos.)	14.00	Nos.		
287	Seminar chair Providing & supplying Seminar chair as per selection. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect. (Basic cost of Seminar chair - Rs. 6500/- per Nos.)	441.00	Nos.		
288	Gypsum Plain False ceiling work Providing & fixing suspended false ceiling, which includes Gypsteel ULTRA™ CRP surface ribbed perimeter channels (having one flange of 20mm and another flange of 30mm and a web of 27mm) along the perimeter of ceiling, screw fixed to brick wall/partition with the help of nylon sleeves and screws, at 610mm centres. Then suspending Gypsteel ULTRA™ CRP surface ribbed intermediate channels of size 45mm (with two flanges of 15mm each) from the soffit at 1220mm centres with Gypsteel ULTRA™ CRP surface ribbed ceiling angle of width 25mmx10mm fixed to soffit with GI cleat and steel expansion fasteners(Mfg by Saint Gobain Gyproc). Then Gypsteel ULTRA™ CRP surface ribbed Ceiling section of having web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the Gypsteel ULTRA™ intermediate channel with the help of connecting clip and in direction perpendicular to the Gypsteel intermediate™ channel at 457mm centres. Single layer of 12.5mm tapered edge Gyproc® MR (conforming to IS 2095 part 1, 2011) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres. Single layer of 12.5mm tapered edge Gyproc® MR (conforming to IS 2095 part 1, 2011) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with Gyproc Jointing compound and Gyproc Joint Paper tape (as per recommended practices of Saint- Gobain Gyproc India) including cost of required Cut-Outs, finishingitems/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant.	65.00	Smt.		
289	Grid False ceiling work Providing and fixing Gyproc/Armstrong pre coated (Exposed portion only) GI T Grid system in 600x600mm module which includes providing and fixing wall angle along the perimeter of the room with help of nylon sleeves and wooden screws at 300mm centers. Then suspending the main tee of Gyproc/Armstrong 15mm black bolt slot size from the soffit with help of soffit cleat, rawl plugs and wire rod with Leveling spring clip at 1200mm c/c. 1200mm Cross Tee of Gyproc/Armstrong 15mm black bolt slot size is then interlocked into the pre-cut slots in the main Tees at 600mm centres in direction perpendicular to the main Tee to make a grid of 600x1200mm.Finally 600mm Cross tees are then interlocked into the pre cut slots in the 1200mm tees at 1200mm centres and in direction parallel to the main tee. Cross Tees having length more than 600mm are to be supported independently.15mm thick SAINT-GOBAIN Gyproc India Celotex / Armstrong Fine Fissured Narrow Reveal Edge mineral fibre tiles of size 595x595mm shall be placed into the grid size of 600x600mm. including cost of required Cut-Outs, finishingitems/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant. complete as per instruction of engineer-in charge and consultant.	90.00	Smt.		

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290	Gypsum False ceiling Patta work Providing & fixing suspended false ceiling, which includes Gypsteel ULTRA™ CRP surface ribbed perimeter channels (having one flange of 20mm and another flange of 30mm and a web of 27mm) along the perimeter of ceiling, screw fixed to brick wall/partition with the help of nylon sleeves and screws, at 610mm centres. Then suspending Gypsteel ULTRA™ CRP surface ribbed intermediate channels of size 45mm (with two flanges of 15mm each) from the soffit at 1220mm centres with Gypsteel ULTRA™ CRP surface ribbed ceiling angle of width 25mmx10mm fixed to soffit with GI cleat and steel expansion fasteners(Mfg by Saint Gobain Gyproc). Then Gypsteel ULTRA™ CRP surface ribbed Ceiling section of having web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the Gypsteel ULTRA™ intermediate channel with the help of connecting clip and in direction perpendicular to the Gypsteel intermediate™ channel at 457mm centres. Single layer of 12.5mm tapered edge Gyproc® MR (conforming to IS 2095 part 1, 2011) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres. Single layer of 12.5mm tapered edge Gyproc® MR (conforming to IS 2095 part 1, 2011) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with Gyproc Jointing compound and Gyproc Joint Paper tape (as per recommended practices of Saint- Gobain Gyproc India) including cost of required Cut-Outs, finishing items/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant.	38.00	Rmt.				
291	Paint work Wall painting (Two coats) with plastic emulsion paint of approved brand & manufacture on under coated wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	330.00	Smt.				
292	Texture Paint work Providing and applying 1.5 to 2.0 mm thick decorative acrylic surface texture of specified brand and manufacture and of approved texture and colour as per detail drawing on plain cement surface, plastered surface, gypsum, plywood surface as directed. Before application all undulations, broken edges, minor imperfections on base surface shall be rectified using cement slurry and or product surface improver. Surface texture shall be crack free, flexible and of required consistencies added with synthetic iron oxide pigments, to give required shade. Base coat and Second coat shall be applied with Brush/roller/block/lamb's wool roller. Final coat shall be applied with stipple roller to developed required design in case of 'superfine finish' and shall be applied by specially designed gun for depositing drops and flattening of top surface of drops by trawling with specially designed acrylic trowels to give required surface texture in case of 'spraycote' finish. In case of 'rock castle finish' final coat in this kind of surface shall be of acrylic quartz granules and shall be applied with trowel and then grooved with specially designed trowel according to specified design; all complete as per drawings and instructions given by the consultant. Rate shall be inclusive of all major/minor civil & repair work required to be carried out in order to execute the aforesaid item to the satisfaction of the engineer-in charge and consultant. including cost of required Cut-Outs, finishing items/Scaffolding, and for all heights as per complete as per instruction of engineer-in charge and consultant.	31.00	Smt.				
293	Rollar Blind work Providing and fixing Roller Blind fixed on window as per instruction by architect - in - charge. The rollar blind tepestry colour & design as per instruction by architect - in - Charge with necessary hardware fitting, material and labour etc complete.	305.00	Smt.				
294	Granite Counter for Laboratory (900mm Depth) Construction of Granite counter Platform (Sandwitch Type) 60 cm width and 80 cm high resting on 20mm Thick Sandwitched polished and mirror polished Granite stone as approved by consultant in C:M 1:3 with providing & fixing 25 mm thick single side polish kota stone at Bottom and 20mm thick Granite (single pieces) top with 15 cm heigh facia patti of Granite Stone moulded Patti with edge finish as per direction of engineer incharge Including Polishing Etc. Complete as per drawing and specifications.	15.00	Rmt.				
295	Laboratory Furniture Wall face (900mm wide) with Storage Work top in 18 ± 1 mm thick Black Granite. 2) storage module with shutter. 3) Worktop mounted electrical raceway in GI material with powder coated. 4) Electrical sockets and switch / Tiny Trip (5 amp. plug switch and 15 amp. plug and switch). 5) Filler Panel in G.I.	276.00	Rmt.				
296	Lab Table - Corner Type 1) Work top in 18 ± 1 mm thick Black Granite construction - 0.1.06 Sqmt. 2) Corner storage module with shutter. 3) Single piece molded PP sink (L 560 x W 355 x D 230). 4) Worktop mounted one way water tap with swan neck spout. 5) Filler Panel in G.I.	37.00	Nos.				
297	750mm wide storage module with one drawer two shutters	35.00	Nos.				
298	500mm wide storage module with one drawer one shutter	50.00	Nos.				
299	Lab Stool Providing & supplying Lab Stool as per selection. This item to the satisfaction of the engineer-in charge and consultant. complete as per instruction as directed by site in-charge or architect. (Basic cost of Lab stool - Rs. 3500/- per Nos.)	191.00	Nos.				
300	Supply of Modular type Variable Refrigerant Volume system with eco friendly R-410a refrigerant Outdoor units comprising of Hermetically sealed Invertor Scroll/Rotory Compressors, High efficiency Condenser fan,Heat exchanger with anticorrosive coated fins for increased durability suitable to connect with all type of indoor units with cordless/codred remote controllers.The ODU & IDU shall be integrated wih central monitoring/controlling system. The unit shall be factory tested & pre charged with refrigerant before despetch.The Bidder shall quote suitable configuration to meet minimum total requirement or more. 28.0 H.P.	4.00	Nos.				
301	Supply of Modular type Variable Refrigerant Volume system with eco friendly R-410a refrigerant Outdoor units comprising of Hermetically sealed Invertor Scroll/Rotory Compressors, High efficiency Condenser fan,Heat exchanger with anticorrosive coated fins for increased durability suitable to connect with all type of indoor units with cordless/codred remote controllers.The ODU & IDU shall be integrated wih central monitoring/controlling system. The unit shall be factory tested & pre charged with refrigerant before despetch.The Bidder shall quote suitable configuration to meet minimum total requirement or more. 24.0 H.P.	4.00	Nos.				
302	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 1.30 TR	11.00	Nos.				
303	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 1.60 TR	16.00	Nos.				
304	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 2.00 TR	11.00	Nos.				
305	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 2.50 TR	2.00	Nos.				

PROJECT NAME: UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT						
CLIENT:GUJARAT UNIVERSITY						
SCHEDULE-B WITHOUT RATE						
Sr. No.	ITEM Description	Total Qty	UNIT	RATE	Amount	
306	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 3.20 TR	25.00	Nos.			
307	Ceiling Mounted High Static Ductable Type Units with corded remote controller 6.00 TR	6.00	Nos.			
308	Ceiling Mounted High Static Ductable Type Units with corded remote controller 8.00 TR	1.00	Nos.			
309	All refrigerant Joints and Ref Header for the system	1.00	Lot			
310	INSTALLATION, TESTING & COMMISSIONING CHARGES - 28.0 H.P.	4.00	Nos.			
311	INSTALLATION, TESTING & COMMISSIONING CHARGES - 24.0 H.P.	4.00	Nos.			
312	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 1.30 TR	11.00	Nos.			
313	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 1.60 TR	16.00	Nos.			
314	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 2.00 TR	11.00	Nos.			
315	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 2.50 TR	2.00	Nos.			
316	Ceiling Suspended Multi flow Cassette units with all the necessary accessories including cordless remote controller 3.20 TR	25.00	Nos.			
317	Ceiling Mounted High Static Ductable Type Units with all the necessary accessories including corded remote controller 6.00 TR	5.00	Nos.			
318	Ceiling Mounted High Static Ductable Type Units with all the necessary accessories including corded remote controller 8.00 TR	4.00	Nos.			
319	All refrigerant Joints and Ref Header for the system	1.00	Lot			
320	PC Monitoring based Central Controlling System Software capable to operate minimum 250 indoor units, and 150 Outdoor units. PC based central controller should be capable to perform Switch ON/OFF, temperature change, Mode change, IDU fan speed selection and freezing of an IDU as needed, type of functions. Capable of areawise grouping and scheduling of operations.	1.00	set			
321	All refrigerant piping between indoor & outdoor units (Suction & Liquid) duly insulated and covered with UV Treated Protection (Exposed pipes) as per specifications. All piping inside the room shall be properly supported with hanger and exposed piping shall be properly supported in cable tray.	800.00	Rmt			
322	M.S.Structure for installing VRV outdoor units duly Painted with synthetic enamel paints.	600.00	Kg.			
323	UPVC drain pipe with 9 mm thk.nitrile rubber insulation. 50mm dia.	50.00	Rmt			
324	UPVC drain pipe with 9 mm thk.nitrile rubber insulation. 40mm dia.	50.00	Rmt			
325	UPVC drain pipe with 9 mm thk.nitrile rubber insulation. 32mm dia.	50.00	Rmt			
326	UPVC drain pipe with 9 mm thk.nitrile rubber insulation. 25mm dia.	100.00	Rmt			
327	Testing & Commissioning Charges along with topping-up of R-410a refrigerant.	150.00	Kgs.			
328	Supplying and fixing of 80Amps. FPMCB , 10 KA with M.S./P.V.C enclosure of IP-67 category complete with connections, testing and commissioning etc. as required.	8.00	Nos.			
329	Electrical Cabling :All power & control cables between indoor and outdoor unit with necessary earthing of all equipment in the 18 G perforated cable tray with glanding and termination work as per the specifications of the following sizes. All cables shall be clamped properly from MCB Isolators to VRV outdoor units. 25sq.mm x 4 core YWY (For Outdoor Units)	40.00	Rmt			
330	Electrical Cabling :All power & control cables between indoor and outdoor unit with necessary earthing of all equipment in the 18 G perforated cable tray with glanding and termination work as per the specifications of the following sizes. All cables shall be clamped properly from MCB Isolators to VRV outdoor units. 25 x 3 mm GI Strip	50.00	Rmt			
331	Electrical Cabling :All power & control cables between indoor and outdoor unit with necessary earthing of all equipment in the 18 G perforated cable tray with glanding and termination work as per the specifications of the following sizes. All cables shall be clamped properly from MCB Isolators to VRV outdoor units. 6 SWG GI Wire	100.00	Rmt			
332	Electrical Cabling :All power & control cables between indoor and outdoor unit with necessary earthing of all equipment in the 18 G perforated cable tray with glanding and termination work as per the specifications of the following sizes. All cables shall be clamped properly from MCB Isolators to VRV outdoor units. 0.75 sq.mm x 2 core steel braided twisted shielded communication cable for VRV equipments.	1200.00	Rmt			
333	Supplying and erecting G.S.S. sheet metal complete with all accessories viz. anchor fastners, black painted, M.S. Angle / rod support, self adhesive 3mm thick rubber gasket galvanised hardware, double canvas connection with 6" Zip. ducting with various gauges mentioned as below to be used as per IS - 655 24G GI Ducting	125.00	Sq.mts.			
334	Supplying and erecting G.S.S. sheet metal complete with all accessories viz. anchor fastners, black painted, M.S. Angle / rod support, self adhesive 3mm thick rubber gasket galvanised hardware, double canvas connection with 6" Zip. ducting with various gauges mentioned as below to be used as per IS - 655 22 G GI Ducting	75.00	Sq.mts.			
335	Supplying and erecting of Aluminium black met finish powder coated VCD (Volume Control Damper) for supply air grill	1.00	Sq.mts.			
336	Supplying and erecting powder coated return air grilles of Aluminium without VCD (Volume Control Damper)	6.00	Sq.mts.			
337	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	12.00	Sq.mts.			
338	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	1.00	Sq.mts.			
339	Supplying and erecting volume control damper made from 18 G G.I. sheet with adjustable arrangement for controlling the volume of air.	3.00	Sq.mts.			
340	Supplying and fixing of following thickness duly laminated with black glass cloth/aluminium foil of mat finish closed cell Nitrile rubber (Class-0) insulation on duct after applying two coats cold setting adhesive (CPRX compound). The joints shall sealed with 50mm wide & 3mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required. 13mm thick	150.00	Sq.mts.			
341	Supplying and fixing of following thickness Acoustic insulation of class O opencell elastomeric nitrile rubber insulation as per specifications 10 mm thick	50.00	Sq.mts.			

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342	SITC2 way passive wall mount speaker , Material (housing): Polypropylene plastic. Material (grille): Aluminium.5" speaker and TWT. 100V. 40W, Power handling (100 V Line): 16 W , Power handling (70 V Line): 8 W, Power handling (8 ohm): 40 W, Dispersion (H x V): 90° x 70° (Make - Workpro - neo 5, Logis system , Functionone)	6.00	Nos		
343	SITC Installed Sound power Amplifier And 6 input Mixer 2 mic input with combo AND 5 pin connectors , 2 double Mic Input with XLR3 , preout Function , , master control , suitable with low impedance speaker (8ohms) ND high Voltage Line (100V) (Make - Workpro - PA 120/USBR , Logic system , Function one)	1.00	Nos		
344	SITC Diversity single channel wireless system for UHF band., The receiver is able to tune 99 different channels.Dynamic Range:> 95 dB. Output Level: 400 mV (Balanced), 400 mV (unbalanced).Transmission power: 30 mW. Modulation Type: FM. Deviation: 40 kHz. (Make -Workpro - WRD 1100 AF/2, Beverdynamic , Clock Audio)	1.00	Nos		
345	SITC Gooseneck microphone. Witness light .lineal-gradiente , Interference tube to increase directivity at higher frequencies.Suitable for the XPB 2 desktop base.Frequency response: 50 Hz~18 kHz. Sensitivity: -45 dB ± 3dB/Pa. Output impedance: 250 ohm±30% (Make - Workpro - XP20, Clock Audio , Beverdynamic)	1.00	Nos		
346	SITC , 3LCD , Brightness minimum 3300 lumens or higher, LCD panel size 0.55" Light source lamp, Life(normal/eco) 5000hrs/10000hrs or higher Resolutions 1024x768 Aspect ratio 04:03 Contrast ratio 15000:1 or higher Screen size 30 inches to 300 inches Key stone correction V/H (+/- 30 degree) Warranty minimum 2years on site supply, installaton, testing and commissioning of projector MAF required from Respective OEM for current period or bid will not be considered with standard Ceiling mount Kit . (Make - Epson - X05 . Barco . christie)	1.00	Nos		
347	SITC Projection Motorised Screen Matte white surface Wall or ceiling mounted Includes high-voltage single gang wall switch with cover plate, 120" diagonal , 4: 3 ratio , Electric Motorized screens provide elegant design and the ultimate in convenience and ease of use.(Make - Harmonic Vibes , liberty , da-lite)	1.00	Nos		
348	SITC high performance speaker cable 2.5X5.0 MM (Make - MX . Kramer , Belden)	100.00	Mtr		
349	SITC 2 core sheilded , copper conductor 2 core shielded wires AUDIO cable . (MX , kramer , belden)	50.00	mtr		
350	SITC , Open Ended Faceplate/ Table bus , with multiple input , 1 HDMI , 1 Power , 1 LAN , 1 sq Mm Jack (Make - Customized)	1.00	Nos		
351	SITC , High Gain 2.0 HDMI cable Full HD support legth 15 meter (MX , Kramer , Extron)	2.00	Nos		
Total Amount					

NAME OF WORK : UPGRDATION AND INTERIOR WORK OF CHEMISTRY DEPARTMENT

I / We am/are willing to carry out the work at _____% Above / Below _____Percent

_____ % (Should be written in figures and words) of the rates mentioned above.

Amount of my / our tender work out as under :

Estimated Amount put to Tender Rs. **49983140.33**

Estimated Amount put to Tender Rs. **49983140.33**

Deduct percentage below : Rs.

Add percentage Above : Rs.

In Words

.

In Words _____
.

Signature of Contractor

**The Registrar
Gujarat University
Ahmedbad**