NAGALAND MEDICAL COLLEGE KOHIMA						
BILL OF QUANTITIES						
MEDICAL COLLEGE BUILDING						
S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
1	**INSULATED CHILLED WATER PIPING (EXPANDED POLYSTRENE)**					
	Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping plumbing inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with fire retardant quality expanded polystrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing of damage to building etc. as per specifications and as required complete in all respect. Note : The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above. For Cooling System pipework: R value should be min. 0.35 sqmK/W below 15 degree celcius For Heating System piepwork: R value should be min. 0.74 sqmK/W for 60 degree celcius & above & min. 0.35 sqmK/W for temp. between 40 to 60 degree celcius.					
1.1	125 mm dia MS Pipes (50mm Insulation)	17	RM.			
1.2	100 mm dia MS Pipes (50mm Insulation)	35	RM.			
1.3	80 mm dia MS Pipes (50mm Insulation)	86	RM.			
1.4	65 mm dia MS Pipes (50mm Insulation)	73	RM.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
1.5	50 mm dia MS Pipes (50mm Insulation)	245	RM.			
1.6	40 mm dia MS Pipes (50mm Insulation)	282	RM.			
1.7	32 mm dia MS Pipes (50mm Insulation)	312	RM.			
1.8	25 mm dia MS Pipes (50mm Insulation)	382	RM.			
1.9	20 mm dia MS Pipes (50mm Insulation)	160	RM.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
2	**INUSLATED VALVE** Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified					
2.1	80 mm dia	6	Nos.			
2.2	65 mm dia	2	Nos.			
2.3	50 mm dia	12	Nos.			
2.4	40 mm dia	18	Nos.			
2.5	32 mm dia	4	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
3	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.					
3.1	80 mm dia	1	Nos.			
3.2	65 mm dia	1	Nos.			
4	Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.					
4.1	50 mm dia	4	Nos.			
4.2	40 mm dia	8	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
5	**PICB VALVE (PRESSURE INDEPENDENT CONTROL & BALANCING VALVE)/HIGH RANGEABILITY VALVES** "Supply, installation, testing and commissioning of complete set of High rangeability control valve or Pressure independant control valve, kit comprising of Two Way Control Valve of Brass construction rotary / ball type for DN15 and DN32 of PN25 rating with screwed connections. DN 40-DN150 shall be C.I body of PN16 ratings, motorised modulating actuators with linear stroke of minimum 15 mm, LCD display digital controller(BMS compatible),three nos NTC sensors with complete wiring with in AHU room,one thermowell,one power supply unit of 230Vac/24Vac.Control box for mounting Digital controller and power supply unit and 10 Amps Double pole MCB should be also provided.The valve size shall be suitable for pipe size/coil TR capacity"					
5.1	50 mm dia	4	Nos.			
5.2	40 mm dia	8	Nos.			
5.3	32 mm dia	4	Nos.			
5.4	25 mm dia	30	Nos.			
5.5	20 mm dia	17	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
6	Supply,Installation Testing and Commissioning of the following Ball Valves with Strainer duly insulated as per specifications and drawings. It shall be bronze forged body construction with chrome plated bronze ball and handle of stainless steel constructions.					
6.1	32 mm dia	4	Nos.			
6.2	25 mm dia	30	Nos.			
6.3	20 mm dia	17	Nos.			
7	Supply,Installation Testing and Commissioning of the following Ball Valves without Strainer duly insulated as per specifications and drawings. It shall be bronze forged body construction with chrome plated bronze ball and handle of stainless steel constructions.					
7.1	32 mm dia	8	Nos.			
7.2	25 mm dia	60	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
7.3	20 mm dia	34	Nos.			
8	Supply, installation, testing and commissioning of GUN METAL Purge Valves duly insulated as per specifications and drawings complete in all respect.					
8.1	25 mm dia	16	Nos.			
8.2	20 mm dia	47	Nos.			
9.0	Providing and fixing in position the industrial type pressure gauges with gun metal/brass valves complete as required	126	Nos.			
10.0	Providing & fixing in position the mercury in glass industrial type thermometer complete as required	126	Nos.			
11.0	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	3	Sqm.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
12	**SUPPLY / RETURN AIR DIFFUSERS**					
12.1	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	14	Sqm.			
12.2	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	3	Sqm.			
13	**SUPPLY / RETURN AIR GRILLES**					
13.1	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.	38	Sqm.			
13.2	Supplying & fixing of powder coated extruded aluminium Return Air Grills without aluminium volume control dampers as per specifications.	117	Sqm.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
14	**FIRE DAMPERS** Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.					
14.1	Fire damper	1	Sqm.			
14.2	Actuator	1	Nos.			
15	**AIR DISTRIBUTION** Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. (It shall be as per SMACNA standards)					
15.1	26 Gauge Thickness Ducting	1953	sqm.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
15.2	24 Gauge Thickness Ducting	431	sqm.			
15.3	22 Gauge Thickness Ducting	1	sqm.			
16	**INSULATION**					
16.1	Supplying and fixing of following thickness duly laminated with 60 microns thickness aluminum foil closed cell Nitrile rubber (Class "O") insulation on ducting after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide self adhesive Alu tape complete as per specifications and as required.required. (Indoor Application)					
16.1.1	25 mm thick insulation for supply & return air ducts	2000	Sqm.			
16.2	Supply & Installation of Thermal Insulation on Ducts exposed to sunlight using Closed Cell Class O Nitrile Rubber Elastomeric Insulation of Density 40 - 60 Kg/m3, Thermal Conductivity of 0.037 W/mk at 200Celcius Mean Temp. and μ≥7000 and with Chemically treated Factory Laminated Woven Fibre Glass Cloth with 200+/-20 gsm using manufacturer's recommended Rubber based Adhesive in a blend of solvents complete as per Specifications. (Exposed Application)					
16.2.1	32 mm thick insulation for supply & return air ducts exposed to weather	382	Sqm.			

S.No	Description					Qty.	Unit	Rate (Rs.)		Amount (Rs.)
								In figures	In words	
17	**TREATED FRESH AIR UNIT** Supply, installation, testing and commissioning of double skin modular construction, draw through Sectional,ceilimg suspended treated fresh air unit made out of 46 mm thick panels consisting of 0.8 mm Thick aluminium sheet inside and 0.8 mm thick preplastisized GSS Sheet from outside with 40 mm thick puf insulation of density not less than 38 kg/Cum factory injected in between them . Treated fresh air unit shall be complete with blower section with DIDW forward curved Centrifugal fan (plug fan/belt driven) and blower motor of reqd. H.P & TEFC type, Squirrel cage induction motor shall be of EFf-1 type &,8 row cooling coil (Copper tubes and Aluminium fins 11-12 fin./inch ,tube thickness not less than 0.5 mm), pre-filter (Washable Synthetic fibre of efficiency 90% down to 10 micron), drain pan made out of 1.25 mm stainless steel (SS Grade 304) sheet insulated with 10 mm think closed cell polyurethene foam (PUF) insulation, V belt drive/Direct Driven, fireproof double canvass connection ,necessary vibration isolation arrangement, sound level 75 db at the distance of 2 mtr. (maximum) ,BMS compatible etc and other accessories as per specifications (except water shut off valves, drain piping and pressure gauges which are covered under separate item). Motor shall be suitable for 415 ± 10% volts, 50 cycle, 3 Phase AC supply as indicated below. Fans should be AMCA certified & Coil size shall be selected for a max.face velocity of 500 FPM. It should be complete with Colling Coil as specified in the item. PCC/RCC foundation with plaster, Antivibration arrangement of cushy foot mountings etc. complete in all respect shall be in contractor's scope for floor mounted AHUs.									
	Airconditioned Space	**CFM (TYPE)**	**TR/Rows**	**SP (mm)**	**Phase**					
17.1	Treated Fresh Air Unit	2000 (CS)	10/8	50	3	3	Nos.			
17.2	Treated Fresh Air Unit	1200 (CS)	7/8	50	3	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
18	**AIR HANDLING UNITS** Supply, installation, testing and commissioning of double skin modular construction, draw through Sectional, horizontal Floor mounted/ceiling suspended Air Handling Units made out of 25 mm thick panels consisting of 0.8 mm Thick aluminium sheet inside and 0.8 mm thick preplastisized GSS Sheet from outside with 40 mm thick puf insulation of density not less than 38 kg/Cum factory injected in between them . AHU should be shall be complete with thermal break profile & with blower section with DIDW forward curved Centrifugal fan (plug fan/belt driven) and blower motor of reqd. H.P & TEFC type, Squirrel cage induction motor shall be of EFf-1 type &, 6 row cooling coil (Copper tubes and Aluminium fins 11-12 fin./inch ,tube thickness not less than 0.5 mm), pre-filter (Washable Synthetic fibre of efficiency 90% down to 10 micron), fine filter section with filters of non woven synthetic media of 5 micron particle size Filter frame Flange type, drain pan made out of 1.25 mm stainless steel (SS Grade 304) sheet insulated with 10 mm think closed cell polyurethene foam (PUF) insulation, V belt drive/Direct Driven, fireproof double canvass connection . Necessary vibration isolation arrangement, sound level 75 db at the distance of 2 mtr. (maximum) ,BMS compatible etc and other accessories as per specifications (except water shut off valves, drain piping and pressure gauges which are covered under separate item). Motor shall be suitable for 415 ± 10% volts, 50 cycle, 3 Phase AC supply as indicated below. Fans should be AMCA certified & Coil size shall be selected for a max.face velocity of 500 FPM. Nos. of rows mentioned in the item for cooling coils. PCC/RCC foundation with plaster, Antivibration arrangement of cushy foot mountings etc. complete in all respect shall be in contractor's scope for floor mounted AHUs. All accessories used for hanging ceiling suspended / Floor mounted AHUs will be included in this item.					
	Airconditioned Space / **CFM (TYPE)** / **TR/Rows** / **SP (mm)** / **Phase**					
18.1	College Council / 2000 (CS) / 6/6 / 40 / 3	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
18.2	Dean Room 1500 (CS) 5/6 40 3	1	Nos.			
18.3	Medical Education 1500 (CS) 5/6 40 3	1	Nos.			
18.4	Research Lab 1200 (CS) 4/6 40 3	4	Nos.			
18.5	Centeral Research 3200 (CS) 8/6 40 3	1	Nos.			
18.6	Research Lab 2000 (CS) 6/6 40 3	2	Nos.			
18.7	Research Lab 1500 (CS) 5/6 40 3	1	Nos.			
18.8	Animal House 2000 (CS) 5/6 40 3	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
19	**FAN COILS UNITS (CEILING SUSPENDED TYPE)** Supply, installation, testing and commissioning of GI powder coated horizantal ceiling suspended fan coil units complete with fan, 3 speed motor, 3 row deep cooling coil, aluminium filters with filter box, double sandwitched insulated tray, copper connection, rotary switch, Drain Valve, supporting arrangement, electrical wiring etc.The thickness of GSS sheet should be 1.25 mm & thickness of filter 15 mm. The fan shall be selected for 5 mm external static pressure. The complete fan coil unit shall be in line with the standard specification. The capacity of fan coil units shall be as follows. Proper supporting system for ceiling suspended AHU's to be provided & will be in contractor's scope.					
19.1	1000 CFM (2.5 TR)	8	Nos.			
19.2	800 CFM (2.0 TR)	8	Nos.			
19.3	600 CFM (1.5 TR)	14	Nos.			
19.4	400 CFM (1.0 TR)	17	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
20	Supply, installation, testing and commissioning of cooling thermostats for various Air Handling Units and Fan Coil Units as per specifications including all accessaries ,mountings,wiring between thermostat & unit, terminations etc.					
20.1	Proportional thermostats for Air Handling Units	16	Nos.			
20.2	Snap acting thermostats for Fan Coil Units	47	Nos.			
21	**CENTRAL AIR CLEANER - FOR (LAB AHU)** Supply, installation, testing and commissioning of central air cleaner a hybrid air purification system that improves the indoor air quality through reducing harmful pollutants like particulate matter (PMx), PM 2.5, allergens, pollen, smoke, bacteria, pathogens based on trap & kill technology, etc. It should be a monobloc structured unit specifically designed for integration in Return Air path, to centrally capture and kill germs. It should be equivalent to H-13 efficiency with low pressure drop of 0.20" wg @ 2.5 m/s. It should have x3 working principles and it should be powder coated steel casing and should be self contained. It should be a US patented technology. It should have UL certified IMS (Intelligent maintenance system) and should include an IAQ Monitor to measure 5 parameters. The minimum life of central air cleaner unit should be more than 07 years without any consumable parts. The units shall meet 2006/95/EC, 2013/35/EU, 2004/108/EC and 2014/30/EU directives for electrical and electromagnetic safety. There should be RoHS compliance for non-hazardous materials. The central air cleaner units must have a valid ANSI/ASHRAE 52.2 test report to verify filtration efficiency. The equipment provider should have a CIE certification through IAQA, USA. A detailed selection chart as per each application zone shall be submitted for approval along with technical submittal and case studies of a minimum 05 clients maintaining a healthy air zone should be provided. (Approved Make: Magneto / Dr Air / Rehobot)					
A	**GROUND FLOOR**					
21.1	MEDICAL EDUCATIONAL UNIT (1500CFM)	1	Nos.			
21.2	DEAN ROOM (1500CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
21.3	RESEARCH LAB (1200CFM)	1	Nos.			
21.4	RESEARCH LAB (1200CFM)	1	Nos.			
B	**FIRST FLOOR**					
21.5	CENTRAL RESEARCH LABORATORY (3200CFM)	1	Nos.			
21.6	RESEARCH LAB (2000CFM)	1	Nos.			
21.7	SERVICE LAB (600CFM)	1	Nos.			
21.8	SERVICE LAB (600CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
21.9	SERVICE LAB (600CFM)	1	Nos.			
21.1	SERVICE LAB (600CFM)	1	Nos.			
21.1	SPECIAL ROOM (600CFM)	1	Nos.			
21.1	RESEARCH LAB (1500CFM)	1	Nos.			
C	**SECOND FLOOR**					
21.1	SERVICE LAB(1000CFM)	1	Nos.			
21.1	SERVICE LAB (1000CFM)	1	Nos.			
21.2	SERVICE LAB (1000CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
21.2	SERVICE LAB (1000CFM)	1	Nos.			
21.2	SERVICE LAB (1000CFM)	1	Nos.			
21.2	RESEARCH LAB (2000CFM)	1	Nos.			
21.2	RESEARCH LAB (1200CFM)	1	Nos.			
D	**THIRD FLOOR**					
21.2	RESEARCH LAB (1000 CFM)	1	Nos.			
21.2	RESEARCH LAB (1200 CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
22	**CENTRAL AIR CLEANER - FOR (FCU)**					
	Supply, installation, testing and commissioning of PHIO+ (Photo Hydro Ionized Oxidation Plus) is a hybrid active air purification technology that purifies the air by producing friendly ionoplasmatic hydrogen based oxidizers. It consists of a photocatalytic cell made of a honeycomb structured hydrated catalyst exposed to UV-C light combined with a plasma cell. The technology produces friendly ionoplasmatic oxidizers including peroxide, superoxide, ozonide and hydroxide ions, bipolar ions and a family of highly reactive oxygen species in a state of charged atoms and molecules. It should have a minimum life of 18000 working hours. PHIO+ (Photo Hydro Ionized Oxidation Plus) technology can be applied to reduce air pollutants such as VOCs, bacteria, virus, mold, spores, odor, particulates PM 2.5, e-smog. All recognized component should conform to UL Std. 867 certified to CSA standard C22.2 No. 187 . A test certificate from an internationally accredited lab EMSL must be provided about the performance of the technology on E. Coli kill rate in air.					
A	**GROUND FLOOR**					
22.1	SEMINAR CUM LIBRARY(800) CFM	1	Nos.			
22.2	ASSO. PROF (400) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			
22.4	HOD (600) CFM	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
22.5	SEMINAR CUM LIBRARY (800) CFM	1	Nos.			
22.6	CLERICALROOM(2000) CFM	1	Nos.			
22.7	HOD (600) CFM	1	Nos.			
22.8	ASSO. PROF (400) CFM	1	Nos.			
22.9	ASSO. PROF (400) CFM	1	Nos.			
B	**FIRST FLOOR**					
22.1	SEMINAR CUM LIBRARY(800) CFM	1	Nos.			
22.1	HOD (600) CFM	1	Nos.			
22.1	SEMINAR CUM LIBRARY (1000) CFM	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
22.1	CLERICALROOM (400) CFM	1	Nos.			
22.1	ASSO. PROF (400) CFM	1	Nos.			
22.2	ASSO. PROF (400) CFM	1	Nos.			
22.2	SPECIAL ROOM (600) CFM	1	Nos.			
22.2	STORE (2000) CFM	1	Nos.			
22.2	ASSO. PROF (400) CFM	1	Nos.			
22.2	ASSO. PROF (400) CFM	1	Nos.			
22.2	HOD (600) CFM	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
C	**SECOND FLOOR**					
22.2	HOD (600) CFM	1	Nos.			
22.2	SEMINAR CUM LIBRARY(1000) CFM	1	Nos.			
22.2	STORE (2000) CFM	1	Nos.			
22.2	ASSO. PROF (400) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
22.3	SEMINAR CUM LIBRARY (800) CFM	1	Nos.			
22.3	HOD (600) CFM	1	Nos.			
22.3	MEDIA PREP. & STORAGE(600) CFM	1	Nos.			
D	**THIRD FLOOR**					
22.3	HOD (600) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			
22.3	ASSO. PROF (400) CFM	1	Nos.			
22.3	STORE (2000) CFM	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
22.4	SEMINAR CUM LIBRARY (800) CFM	1	Nos.			
22.4	ASSO. PROF (400) CFM	1	Nos.			
22.4	ASSO. PROF (400) CFM	1	Nos.			
22.4	SEMINAR CUM LIBRARY(800) CFM	1	Nos.			
22.4	HOD (600) CFM	1	Nos.			
23	**Infection Control Unit - Upper Room UVGI (For Labs)**					
	Supply, installation, testing and commissioning of room UVGI specially designed for reducing the food contamination and infectious diseases like bacteria, virus and other pathogens. It should be specially designed to have a 254nm UV tube with 30W UV lamp power for every 200 sq. Ft. Of floor area. The unit should be designed with a intensity of 10uW/Cm2 with a kill rate of 99%. It should be installed at a hieght of 2.3 meters above the floor.					
A	**GROUND FLOOR**					
23.1	RESEARCH LAB(1200CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
23.2	RESEARCH LAB(1200CFM)	1	Nos.			
B	**FIRST FLOOR**					
23.3	CENTRAL RESEARCH LABORATORY(3200CFM)	1	Nos.			
23.4	RESEARCH LAB (2000CFM)	1	Nos.			
23.5	SERVICE LAB (600CFM)	1	Nos.			
23.6	SERVICE LAB (600CFM)	1	Nos.			
23.7	SERVICE LAB (600CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
23.8	SERVICE LAB (600CFM)	1	Nos.			
23.9	SPECIAL ROOM (600CFM)	1	Nos.			
23.1	RESEARCH LAB (1500CFM)	1	Nos.			
C	**SECOND FLOOR**					
23.1	SERVICE LAB(1000CFM)	1	Nos.			
23.1	SERVICE LAB(1000CFM)	1	Nos.			
23.1	SERVICE LAB(1000CFM)	1	Nos.			
23.1	SERVICE LAB(1000CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
23.2	SERVICE LAB(1000CFM)	1	Nos.			
23.2	RESEARCH LAB (2000CFM)	1	Nos.			
23.2	RESEARCH LAB (1200CFM)	1	Nos.			
D	**THIRD FLOOR**					
23.2	RESEARCH LAB (1000 CFM)	1	Nos.			
23.2	RESEARCH LAB (1200 CFM)	1	Nos.			

S.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
				In figures	In words	
24	**DRAIN PIPE** Providing and fixing in position the following GI medium class cut to required length and installed with screw joints including the necessary fittings, supporting arrangements like clamps etc. (bends, tees, unions, sockets etc) duly insulated with 25 mm thick TF quality thermocole pipe section as per specifications.					
24.1	40 mm dia	61	RM.			
24.2	32 mm dia	132	RM.			
24.3	25 mm dia	358	RM.			
	TOTAL					