2.F.1	 F- STRUCTURAL STEEL WORK Refer Pricing Preambles Rate shall include for applying two coats of enamel paint (C.I.C.or equivalent) after treating with a coat of anticorrosive paint to all exposed faces of trusses and purlins. Structural steel roof truss type T1- 10000mm center to center of supports and eaves extended up to 1000mm, fabricated, hoisted and fixed at a height of 9900mm above ground level, including all M.S. plates, gusset plates, cleats, rivets, nuts, washers ect. all as per detail Drg no. 2014-16-033ST24 & ST25(Approx weight of each truss 0.8MT) 	10			
2.F.2	Structural steel roof truss type T2- 10000mm center to center of supports and eaves extended up to 1000mm, fabricated, hoisted and fixed at a height of 9900mm above ground level, including all M.S. plates, gusset plates, cleats, rivets, nuts, washers ect. all as per detail Drg no.2014-16-033ST24 & ST25. (Approx weight of each truss 0.42MT)	0	Nr		
	Structural steel channel 127x64 (14.9 Kg/m) fixed as per detail Drawing no. 2014-16- 033ST24 & ST25. (Note: Structural Steel Grade 43, Ultimate Tensile Strength - 430N/mm ² , Yield Strength - 250N /mm ² , Minimum Elongation - 22%)	o	INI		
2.F.3	At roof level Structural steel channel hip rafters 127x64 (14.9 Kg/m) fixed as per detail Drawing no 2014-16-033ST24 & ST25. (Note: Structural Steel Grade 43, Ultimate Tensile Strength - 430N/mm2, Yield Strength - 250N /mm2, Minimum Elongation - 22%)	32.00	m		
2.F.4	At roof level Structural steel " C " channel purlins as per manufacturer's details and specifications as per detail Drawing.2014-16-033ST22 & ST23 . Note: Steel purlins 'Z' or 'C' sections should be cold rolled from high strength Galavanized (Zinc coated) Steel of Minimum yield strength of 440MPa (Accordence with the Standard of JISC 3302 SGC 440), minimum average coating mass 290 g/m ² . base metal thickness 1.6mm, 2.0mm and 2.4mm according to selected section.	337.00	m		
2.F.5	At roof level TOTAL CARRIED TO COLLECTION ON PAGE S	529.00 07 - 111	m		

	F- STRUCTURAL STEEL WORK			
2.G.23	Supplying & Fixing lock (Union or equivalent) for Aluminium Casement door with necessary accessaries to working order.	21	Nr.	
2.G.24	Supplying & Fixing lock (Union or equivalent) for Aluminium Sliding door with necessary accessaries to working order.	1	Nr.	
	Door Closers			
2.G.25	Supplying & Fixing door closer for Aluminium Casement door with necessary accessaries to working order.	21	Nr.	
	Door Handles			
2.G.26	Supplying & Fixing stainless Steel door handles for Aluminium door with necessary accessaries to working order.	21	Pairs	
	Aluminium Partition			
	TYPE 1- Matt finished, approved colour powder coated frame with aluminium framed glazed Partition above 2700mm high brick wall up to slab / beam level.			
	Frame work : Frame work consist of Horizontal Aluminium extrusions at 2700mm level, 3987.5mm level and slab /beam level. Vertical extrusions with given distances to form an appropriate grid pattern to suit the available space . All the vertical & horizontal extrusions consist with 1.6 mm thick 45.00 mm x 100.00 mm (deep) Matt finished Powder Coated Aluminium frame including necessary G I channels and beadings.			
	Panels : Consist of aluminium framed glazed panel, 6.00mm thick fixed glass. Rate to include for necessary accessories. All complete as per detail drawing and Engineers approval.			

	F- STRUCTURAL STEEL WORK			
2.G.27	In ground floor (P1, P3 to P10)	62.00	m	
	Total Carried Forward Brought Forward			
	TYPE 2- Matt finished, approved colour			
	powder coated frame with aluminium			
	framed glazed Partition & Aluminium			
	louvers panel above 2/00mm high brick			
	wall up to slab level.			
	Frame work : Frame work consist of Horizontal Aluminium extrusions at 2700mm level, 3987.5mm level and slab level. Vertical extrusions with given distances to form an appropriate grid pattern to suit the available space . All the vertical & horizontal extrusions consist with 1.6 mm thick 45.00 mm x 100.00 mm (deep) Matt finished Powder Coated Aluminium frame including necessary G I channels and beadings.			
	mm thick fixed glass with necessary rubber beadings and Aluminium louvers. Rate to include necessary accessories. All complete as per detail drawing and Engineers approval.	11.00		
2.G.28	In ground floor (P2)	11.00	m	
	TYPE 3 - Matt finished, approved colour			
	Frame work : Frame work consist of Horizontal Aluminium extrusions at 2700mm level and ceiling level. Vertical extrusions with given distances to form an appropriate grid pattern to suit the available space . All the vertical & horizontal extrusions consist with 1.6 mm thick 45.00 mm x 100.00 mm (deep) Matt finished Powder Coated Aluminium frame including necessary G I channels and beadings.			
	Panels : Consist of aluminium framed glazed panel, 6.00mm thick fixed glass. Rate to include for necessary accessories. All complete as per detail drawing and Engineers approval.			
2.G.29	In first floor (P11,P14 to P18,P22 & P23)	47.00	m	

	F- STRUCTURAL STEEL WORK			
	Total Carried Forward			
	Brought Forward TYPE 4- Matt finished, approved colour powder coated frame with aluminium framed glazed Partition & Aluminium louvers panel above 2700mm high brick wall up to ceiling level.			
	Frame work : Frame work consist of Horizontal Aluminium extrusions at 2700mm level and ceiling level. Vertical extrusions with given distances to form an appropriate grid pattern to suit the available space . All the vertical & horizontal extrusions consist with 1.6 mm thick 45.00 mm x 100.00 mm (deep) Matt finished Powder Coated Aluminium frame including necessary G I channels and beadings.			
	Panels : Panesl (900 mm high) consist of 6.00 mm thick fixed glass with necessary rubber beadings and Aluminium louvers. Rate to include necessary accessories. All complete as per detail drawing and Engineers approval.			
2.G.29	D.a In first floor (P12,P13,P19 & P20) TYPE 5- Matt finished, approved colour powder coated frame with aluminium framed glazed Partition up to slab level. (D8 Door measured separately.)	21.00	m	
	Frame work : Frame work consist of Horizontal Aluminium extrusions at 900mm level, 2100mm level,2700mm level,3987.5mm level and slab level. Vertical extrusions with given distances to form an appropriate grid pattern to suit the available space . All the vertical & horizontal extrusions consist with 1.6 mm thick 45.00 mm x 100.00 mm (deep) Matt finished Powder Coated Aluminium frame including necessary G I channels and beadings.			
	Panels : Consist of aluminium framed glazed panel, 6.00mm thick fixed glass. Rate to include for necessary accessories. All complete as per detail drawing and Engineers approval.			

	F- STRUCTURAL STEEL WORK			
2.G.29.b	In ground floor (P21)	2.00	m	
	Total Carried Forward			
	Brought Forward			
	Stainless Steel Balustrade and Handrail			
	Fabricating and Fixing of,900mm high			
	Stainless steel balustrade consisting of 12mm			
	dia Stainless steel balusters at 900mm			
	te better and of beluster and embedded			
	75mm doop in to concrete stop, and covered			
	with stainless steel capping and top end			
	welded to 50mm dia stainless steel handrail. 2			
	Nos. of 25 mm dia.stainless steel			
	intermediate members welded to balusters			
	parallel to hand rail as per detail Drawing			
	No.2014-16-033AR20 and Engineer's			
	approval.			
	In staircase(A ,B & C)			
2.G.47	Between ground floor and first floor	94.00	m	
	In staircase "D"			
2.G.48	Between first floor and machine room floor	22.00	m	
	Around courtyards			
2.G.49	At ground floor level	190.00	m	
2.G.50	At upper floor level	189.00	m	
2.G.51	Along ramp At ground floor level	40.00	m	
	Fabricating and Fixing of 25mm dia Stainless	.0.00		
	steel curved balusters, one end welded to			
	6mm thick 50 x50mm mild steel flat iron and			
	embeded 75mm deep in to brick wall with			
	cement concrete.The other end welded to			
	50mm dia, stainless steel matt finished			
	handrail. all complete as per detail Drawing			
	No.2014-16-033AR10 and Engineer's			
	approval.			
	In staircase "A"			
2.G.51.a	Between ground floor and first floor	20.00	m	
	In staircase "D"			

	F- STRUCTURAL STEEL WORK			
2.G.51.b	Between first floor and machine room floor	8.00	m	
	TOTAL CARRIED TO COLLECTION ON PAGE S	07 - 111		
	H - CARPENTRY & JOINERY			
	<i>Note :</i> Refer Pricing preambles			
	Joinery			
	The timber Species for door frame and sashes shall be (category A) of respective group as listed under General notes. <u>Doors & windows</u>			
	Rates shall include for all necessary ironmongery and locking device and apply one coat of primer and two coats of enamel paint of approved colour. Refer drawing No. 2014-16-033AR28,29 & 30			
	Door type D1, 1800 mm wide x 3150 mm high overall with 100 x75 mm timber framed consisting of 2 No. timber paneld door sashes with fixed glass above. All complete as per detail drawing and Engineer's approval. (effective area of each door approx 5.67m ²)			
2.H.1	In ground floor	7	Nr.	
2.H.2	In first floor	6	Nr.	
	Door type D2, 900 mm wide x 3150 mm high			
2.H.3	In ground floor	2	Nr.	
	Door type D3, 3000 mm wide x 3150 mm high overall with 100 x75 mm timber framed consisting of glazed and timber panelled double sash door with fixed glass above. 700 mm wide timber panel and 700mm wide fixed glass at both sides of the door as per detail drawing and all complete as detail drawings and Engineer's approval. (effective area of each door approx 13.23m ²)			
2.H.4	In ground floor	2	Nr.	

	F- STRUCTURAL STEEL WORK				
2.H.5	In first floor	2	Nr.		
	Total Carried Forward				
	Brought Forward				
	overall with 100×75 mm timber framed				
	consisting of 2 No glozed and timber				
	consisting of 2 No. glazed and timber				
	parielled door sasiles with lixed glass above.				
	all complete as per detail drawing and				
	Engineer's approval. (effective area of each				
	door approx 3.78m ²)				
2.H.6	In ground floor	5	Nr.		
2.H.7	In first floor	5	Nr.		
	Door type D6, 1200 mm wide x 2100 mm high				
	overall with double swing 01 Hr. fire rated				
	100x75 mm timber framed durra fire door with				
	a 300x450 mm vision panel. All complete as				
	per detail drawing and Engineer's approval.				
	(effective area of each door approx 2.52m ²)				
2.H.8	In ground floor	2.0	Nr.		
	Timber stage 2400 x 4800mm Timber stage consisting of 150 x 50mm timber members at 600mm centers placed on brick work and finished with 200mm wide, 40mm thick tounge and groove timber planks with as per detail drawing no 2014 - 16 - 033ST17 and Architect's instructions. (Brick work measured separately)				
2.H.9	At upper floor (lecture room for 200 students)	1	Nr.		
	Timber Deck				
2.H.10	Construction of 150mm highTimber Deck at Cad Lab Area as drawing No. 2014 - 16 - 033ST17 & Engineer's approval.		Item		

	F- STRUCTURAL STEEL WORK			
	TOTAL CARRIED TO COLLECTION ON PAGE S	07 - 111		
	J- ROOF COVERING AND ROOF PLUMBING Note-Refer Pricing Preambles Roof timber to be Group-3, Category A			
	Note- 2 Zink Aluminium roof sheet gauge 0.47,Hi-tensile Grade 550 colour(Rhino Supermet or Equivalent)			
	Note-3Refer frame work under Trade 'F'			
2.J.1	Zink Aluminium colour bond roofing sheets laid on steel frame work, fixed as per manufacture's specification. (Steel purlins measured separately)	2000.00	m²	
2.J.2	Supplying & laying of heat insulation memberane (50mm thick glass wool with double side Aluminum foil sheet fixing under side of roof support with 75mm x25mm G.I mesh) as per manufacture's specification & Engineer's Instruction.	2000.00	m ²	
	Valance Board			
2.J.3	Supplying and fixing zinc/ Aluminium valance board	380.00	m	
	Zink Aluminium ridge & hip covering fixed to roofing sheets with necessary hooks, bolts nuts, etc all complete as per Drawing and Engineers approval.			
2.J.4	In upper floor roof	270.00	m	
2.J.5	Raking cutting of Zn/Al sheets at hips. (Measured on both sides) In upper floor roof	360.00	m	
	Roof Plumbing <i>Note:</i> All zinc / aluminium down pipes and fittings shall comply with the latest BSS for Zinc / Aluminium gutters down pipes and fittings			

	F- STRUCTURAL STEEL WORK Supplying and fixing 0.47 mm thick (914mm girth) zinc / Aluminium eaves gutter with brackets and specials fixed complete as per manufacture's specification.			
2.J.6	At upper floor roof <i>Total Carried Forward</i>	382.00	m	
	Brought Forward Supply & fixing 2400 x 450 x 600mm stainless steel scrubing sink as per engineers instruction. Rate to include for fixing sink to wall, water supply and waste water connections respectively. All complete to working order. (Pillar tap & bottle trap measured separetely.)			
2.K.4	In ground floor laboratories	2	Nr.	
2.K.5	In upper floor laboratories	2	Nr.	
	Supply & fixing 1200 x 450 x 600mm stainless steel scrubing sink as per engineers instruction. Rate to include for fixing sink to wall, water supply and waste water connections respectively. All complete to working order. (Pillar tap & bottle trap measured separetely.)			
2.K.5a	In ground floor laboratories Supply and fixing Closed coupled (Brands as specified under Note 2 above) low level closet suite white vitreous china comprising closet with "P" or "S" trap as directed and double plastic seat cover and ,4.5 / 6 litre capacity dual flush type, white vitreous china low level cistern. Rate to include for fixing closet to floor with necessary screws, fixing cistern with water supply and outlet connection, all complete to working order.(Range of prime cost is Rs. 23000 - 25000 excluding VAT)	3	Nr.	
2.K.6	In ground floor	7	Nr.	
2.K.7	In upper floor	7	Nr.	

	F- STRUCTURAL STEEL WORK					
	Supply and fixing Ceramic squatting pan with					
	foot rest overall white vitreous china (Brands					
	as specified under Note 2 above) with 'P' or '					
	S ' trap as directed. 9 litre capacity white					
	vitreous china (Brands as specified under					
	Note 2 above) high level cistern with					
	supporting brackets screwed to tapered buried					
	in wall PVC flush nine water supply and					
	outlet connection all complete to working					
	order (Bango of prime cost is Bc 15000					
	17000 evoluting VAT					
2K8	In around floor	4	Nr			
2.11.0						
2K9	In upper floor	4	Nr			
	Total Carried Forward					
	Brought Forward					
	Supply & fixing 20mm dia chromium plated bib					
	tap (Pegler or equivalent) (Range of prime					
	cost is Rs. 1800 - 2200 excluding VAT)					
	, , , , , , , , , , , , , , , , , , ,					
	la sussial flags	4	NL			
2.K.26	in ground floor	4	INF.			
0 1/ 07	In upper fleer	4	NI#			
2.1.21		4	INF.			
	Supplying & fixing 20mm dia angle valve					
	(Brands as specified under Note 2					
	(blands as specified under Note.2 abovo)(Bango of primo cost is Re 1800					
	2200 excluding VAT					
2.K.28	In ground floor	32	Nr.			
	le une en fle en	00	NL			
2.K.29	in upper floor	29	INF.			
	Cupplying & fiving 20mm dia plantia battle trap					
	(Pranda an approxime 12/11/11 dia.plastic bottle trap					
2 K 30	In around floor	15	Nr			
2.11.00		10				
2.K.31	In upper floor					
2		14	Nr.			
	Supplying & fixing 12mm dia pillar tap for wash					
	basins. (Brands as specified under Note.2					
	above)					
	,					
2 K 22	In around floor	15	Nir			
2.11.32		15	INI.			
2 K 33	In upper floor	14	Nr			
1	1	1		I	1	1

	F- STRUCTURAL STEEL WORK Supplying and fixing push button valve			
2.K.34	In ground floor	3	Nr.	
2.K.35	In upper floor	3	Nr.	
	Supplying and fixing pillar taps for scrubing sink.			
2 K 35 a	In ground floor	14	Nr.	
2.K.35.b	In upper floor	8	Nr.	
	Total Carried Forward			
	Brought Forward			
	Supply and laying 300 x600mm glazed ceramic wall tiles lining up to a height of 1500 mm from finished floor level of approved colour set in 10mm thick cement and sand (1:3) screed backing and joints pointed with tile grout to match the colour of tiles in toilets			
	(Prime cost 570.00 Rs. per tile without taxes)			
2.L.28	At ground floor toilets	131.00	m²	
2.L.29	At first floor toilets	131.00	m ²	
	Supply and laying 300 x600mm glazed vitreous ceramic wall tiles lining up to a height of 1650 mm from finished floor level of approved colour set in 10mm thick cement and sand (1:3) screed backing and joints pointed with tile grout to match the colour of tiles in laboratories. (Prime cost 570.00 Rs. per tile without taxes)			
2.L.30	At ground floor toilets	420.00	m²	
2.L.31	At first floor toilets	340.00	m²	
	Floor Finishes			
	Cement Rendering on Floors			
	Rendering, 12mm thick in cement and sand (1:3), and finished with floating coat, using neat Cement and finished smooth with Carborandum Stone.			

	F- STRUCTURAL STEEL WORK			
2.L.32	At first floor Lab area	490.00	m²	
2.L.33	At machine room floor	50.00	m²	
2.L.34	At water tank floor and roof slab Interlocking 200mm x 100mm Interlocking cement concrete tiles laid on rough cement rendering as per manufactures specifications.	519.00	m²	
2.L.35	In ground floor (Court yard)	15.00	m²	
	Total Carried Forward			
	Brought Forward			
	Note 1: Refer printing Preambles			
	<u>Note 1</u> : Relef pricing Preambles			
	Note 2: Paving of tiles should be on 10mm thick cement and sand (1:3) rough cement rendering, and the joints pointed with tile grout to match the colour of tiles in all floor area.			
	Supply and laying 400 x 400mm non slippery coloured homogeneous vitreous ceramic floor tiles paving in approved colour and design laying as specified above (Refer Note 2) (Prime cost 600.00 Rs. per tile without taxes) Rocell or equivalent.			
2.L.36	In ground floor	900.00	m²	
2.L.37	In upper floor	1,006.00	m²	
	Supply and laying 300mm x 300mm Non slippery, coloured homogeneous vitreous ceramic floor tiles paving in approved colour and design laying as specified above. (Refer Note 2) (Prime cost 115 -150Rs. per tile without taxes) Rocell or equivalent.			
2.L.38	In ground floor toilet area	60.0	m²	
2.L.39	In first floor toilet and utility room area	60.0	m²	

	F- STRUCTURAL STEEL WORK Supply and laying 400 x 400mm non slippery coloured porcelain homogeneous heavy duty rustic floor tiles paving in approved colour and design laying as specified above (Refer Note 2) (Prime cost 600.00 Rs. per tile without taxes) Rocell or equivalent.				
2.L.40	In ground floor	350.00	m²		
2.L.41	In first floor	305.00	m²		
	Total Carried Forward				
	P- MISCELLANEOUS WORK				
2.P.1	Supply & installation of fire hydrants, fire hoses and fume detectors system as per engineer's approval	Provisional Sum			1,000,000.00
2.P.2	Plant good quality small bushes or trees of the courtyard area shall be approved by the Engineer.	Provisional Sum			100,000.00
	Local Area Network				
2.P.3	Ethernet switches PoE,VoIP				
	24 part 10/100/1000 + 4SFP Gigabit up links (L3) with optical SFP modules	2	Nr.		
2.P.4	switches PCE,VoIP				
	48 part 10/100/1000 + 2SFP Gigabit up links (L2) with optical SFP modules	8	Nr.		
2.P.5	24 patch panel- CAT6,unshielded	16	Nr.		
2.P.6	1/2m patch leads- CAT6, unshielded	200	Nr.		
2.P.7	2m ply leads- CAT6, unshielded	200	Nr.		
2.P.8	Face plate, & key store jacks (CAT6) RJ45	190			
2.P.9	Dual face plates with key store jacks	30	Nr.		
2.P.10	Free standing 19"enclosure 40u with cable	1	Nr.		

	F- STRUCTURAL STEEL WORK ladders fan plate ply 4 way power panels			
2.P.11	Wall mounted 19" 5u enclosure	4	Nr.	
2.P.12	Cable managenent panel	4	Nr.	
2.P.13	Supply of 4 pain UTP & (CAT 6) cable drawn through pvc casing	6000.00	m	
2.P.14 2.P.15	ups (600VA) Multimode optical fiber cables	6.00	Nr.	
	8 core optical fiber cable 20/125 μ m mm	320.00	m	
2.P.16	Wireless Access paint 500 mbps wireless - N Access paint	4.00	Nr.	
	Total Carried Forward			
2.P.24	<i>Brought Forward</i> Supply & installation of 65 mm dia single outlet indoor hydrant landing valves including necessary connections, pipe & fittings, valves for 01 nos of jet/ spray shut off branch pipe.	6	Niz	
		6	Nr.	
2.P.25	Supply & installation of fire cabinets (1000x1000x400) mm cabinet doors should be locking type imergency breake glass type, steel framed glass front door.	6	Nr.	
2.P.26	Supply 65mm dia 15m long fire hose complete with instantaneous couplings, branch pipe/ jet spray nozzles.	6	Nr.	
2.P.27	Hose real system comprisis with 19mm dia , 45m length hydralic horse real permenantly connected to a hose real main with shut off nozzle branch pipe/ jet spray nozzle capable of providing 30 liter /min with 6 m throw.			
		6	Nr.	
2.P.28	Supply & installation all necessary wet riser system pipe & fittings		ltem	
2.P.29	Portable fire extinguishers Supply & installation of 9 liter, water/CO ₂ portable fire extinguisher conforming to BS 5423 (1987). Rate shall include for complete with brackets & fixing.	22	Nr.	

2.P.30 2.P.31	F- STRUCTURAL STEEL WORK Supply & installation of a 2 Kg-CO2 portable fire extinguisher conforming to BS 5423 (1987). Rate shall include for complete with brackets & fixing. Supply & installation of 6 Kg ABC dry powder portable fire extinguisher complete with all necessary fixing material. External Fire Hydrant System Note:Designed to comply with BS 5306part 1.	22 8	Nr. Nr.		
2.P.32 2.P.33 2 P 34	Supply & installation pillar hydrant Supply & installation pillar hydrants pipe network with all necessary fixing materials. Supply & installation of passenger elevator	4 Nr. Provisional sum		sum	3,000,000.00
2.1 .0 1	TOTAL CARRIED TO COLLECTION ON PAGE S	Prov 07 - 111	isional s	sum	7,000,000.00