RATE ANALYSIS

SUB-HEAD - I - EXTERNAL LIGHTING

4 Supply, Installation, Testing and Commissioning of Spike Light having Luminous flux maintenance 70% 50000h (L70B50). Power factor ≥0.95 Lumen output 1600lm. 13W LED. (Disano Make 1537 Koala, Igguzini- BU81 Mini Woddy LED, Bega 7680 LED)

	Bega	Igguzini	Disano
Basic Price	9238.00	9930.00	7698.00
Discount @ 20%	1847.60	1986.00	1539.60
Total Price	**7390.40**	**7944.00**	**6158.40**
Add - U.P. VAT @ 14.5%	1071.61	1151.88	892.97
Total	**8462.01**	**9095.88**	**7051.37**
Add Packaging, Forwarding & Freight @ 2%	147.81	158.88	123.17
Total	**8609.82**	**9254.76**	**7174.54**
Add for Labour - L.S.	250.00	250.00	250.00
Total	**8859.82**	**9504.76**	**7424.54**
Add Overhead & Profit @ 10%	885.98	950.48	742.45
Total	**9745.80**	**10455.24**	**8166.99**
OR SAY Rs.	**9746.00**	**10455.00**	**8167.00**

Minimum	**8167.00**

5 Supply, Installation, Testing and Commissioning of Spike Light for shrubs having Luminous flux maintenance 70% 50000h (L70B50). Power factor ≥0.95 Lumen output 1600lm. 13W LED. (Disano Make 1537 Koala, Igguzini- BU81 Mini Woddy LED, Bega 7680 LED)

	Bega	Igguzini	Disano
Basic Price	9238.00	9930.00	7025.00
Discount @ 20%	1847.60	1986.00	1405.00
Total Price	**7390.40**	**7944.00**	**5620.00**
Add - U.P. VAT @ 14.5%	1071.61	1151.88	814.90
Total	**8462.01**	**9095.88**	**6434.90**
Add Packaging, Forwarding & Freight @ 2%	147.81	158.88	112.40
Total	**8609.82**	**9254.76**	**6547.30**
Add for Labour - L.S.	250.00	250.00	250.00
Total	**8859.82**	**9504.76**	**6797.30**
Add Overhead & Profit @ 10%	885.98	950.48	679.73
Total	**9745.80**	**10455.24**	**7477.03**
OR SAY Rs.	**9746.00**	**10455.00**	**7477.00**

Minimum	**7477.00**

6 Supply, Installation, Testing and Commissioning of Step Light for Ramp IP65, IK06, CE Certified & As per ENEC norms, Step Light with5 W Housing: in fibreglass nylon, Front frame: in die-cast aluminium.with 4.5W LED Lumen Package of 480Lm (Disano Cat ref

	Bega	Igguzini	Disano
Basic Price	10632.00	11072.00	8787.00
Discount @ 20%	2126.40	2214.40	1757.40
Total Price	**8505.60**	**8857.60**	**7029.60**
Add - U.P. VAT @ 14.5%	1233.31	1284.35	1019.29
Total	**9738.91**	**10141.95**	**8048.89**
Add Packaging, Forwarding & Freight @ 2%	170.11	177.15	140.59
Total	**9909.02**	**10319.10**	**8189.48**
Add for Labour - L.S.	250.00	250.00	250.00
Total	**10159.02**	**10569.10**	**8439.48**
Add Overhead & Profit @ 10%	1015.90	1056.91	843.95
Total	**11174.93**	**11626.01**	**9283.43**
OR SAY Rs.	**11175.00**	**11626.00**	**9283.00**

Minimum	**9283.00**

7 Supply, Installation, Testing and Commissioning of Wall Recessed Light for Washing Road LED light having Luminous flux maintenance 70% 60000h (L70B20) Power factor >0.9, with Lumen Package of 7000Lm with 56W LED. (Disano Make 1775 Sicura, Bega 7918 LE

	Bega	Igguzini	Disano
Basic Price	59197.00	63079.00	48522.00
Discount @ 20%	11839.40	12615.80	9704.40
Total Price	**47357.60**	**50463.20**	**38817.60**
Add - U.P. VAT @ 14.5%	6866.85	7317.16	5628.55
Total	**54224.45**	**57780.36**	**44446.15**
Add Packaging, Forwarding & Freight @ 2%	947.15	1009.26	776.35
Total	**55171.60**	**58789.63**	**45222.50**
Add for Labour - L.S.	250.00	250.00	250.00
Total	**55421.60**	**59039.63**	**45472.50**
Add Overhead & Profit @ 10%	5542.16	5903.96	4547.25
Total	**60963.76**	**64943.59**	**50019.75**
OR SAY Rs.	**60964.00**	**64944.00**	**50020.00**

Minimum	**50020.00**

MEASUREMENT

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		SUBHEAD III-BRICK WORK						
1	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
(a)	6.1.2	Cement mortar 1:6 (1 cement : 6	cum					
		GF						
		Wing 1						
		Side Walls		1	2	63.1	0.23	4.55
		Mid Walls		1	6	12.7	0.23	4.55
				1	4	31.4	0.23	4.55
				1	2	36	0.23	4.55
				1	2	90	0.23	4.55
				1	2	60	0.23	4.55
				2	7	11.65	0.23	4.55
				1	2	11	0.23	4.55
				1	2	7	0.23	4.55
				1	2	5	0.23	4.55
				1	2	6	0.23	4.55
				1	2	12	0.23	4.55
				1	1	4.4	0.23	4.55
				1	2	7.45	0.23	4.55
				1	2	5.6	0.23	4.55
				1	2	8	0.23	4.55
				1	1	10	0.23	4.55
		Male/ Female Toilet		1	2	12	0.23	4.55
		Steps in Lecture halls		4	0.5	7	1	0.3
				4	0.5	10	1	0.3
		OAT Steps		4	0.5	59.4	1.2	0.3
		First Floor						
		Wing A		2	2	57.9	0.23	4.55
				2	6	12.7	0.23	4.55
		Wing B & C		2	2	72	0.23	4.55
				2	8	11.65	0.23	4.55
		2nd Floor						
		Wing A		2	2	57.9	0.23	4.55
				2	5	12.7	0.23	4.55

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Wing B & C		2	2	50	0.23	4.55
				2	7	11.65	0.23	4.55
		3rd Floor						
		Wing A		2	4	57.9	0.23	2.65
				2	7	12.7	0.23	2.65
				2	2	11.2	0.23	2.65
				2	3	7	0.23	2.65
		4th to 7th Floor						
		Wing A		8	4	57.9	0.23	2.65
				8	7	12.7	0.23	2.65
				8	2	11.2	0.23	2.65
				8	3	7	0.23	2.65
								Total
1.1	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :						
(b)	6.12.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm					
		Ground Floor						
		Toilets		6	2	2.4		4.55
		Shafts		1	13	2.2		15
				1	10	2.2		32
		First Floor						
		Toilets		16	1	1.8		4.55
		2nd Floor						
		Toilets		16	1	1.8		4.55
		3rd Floor						
		Toilets		46	1	1.8		2.65
				1	4	3		2.65
		4th to 7th Floor						
		Toilets		4	40	1.8		2.65
								Total
9	6.15	Extra for providing and placing in	sqm					
		Same as Above						

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		SUBHEAD IV-Wood Work						
16	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wroght framed and fixed in position.						
(a)	9.1.1	Second class teak wood	cum					
		Ground Floor						
		AHU		2	2	2.1	0.10	0.065
				2	1	1.53	0.10	0.065
		Lecture Hall		4	2	2.1	0.10	0.065
				4	1	1.53	0.10	0.065
		Store		2	2	2.1	0.10	0.065
				2	1	1.13	0.10	0.065
		Corridor		4	2	2.1	0.10	0.065
				4	1	1.63	0.10	0.065
		Entrence Loby Academic Zone Inside		3	2	2.1	0.10	0.065
				3	1	1.63	0.10	0.065
		Health Centre		2	2	2.1	0.10	0.065
				2	1	1.63	0.10	0.065
				1	2	2.1	0.10	0.065
				1	1	1.13	0.10	0.065
		NBCC Site Office		7	2	2.1	0.10	0.065
				7	1	1.63	0.10	0.065
		First Floor						
		Doors		1	30	2.1	0.10	0.065
				1	30	1.63	0.10	0.065
				1	23	2.1	0.10	0.065
				1	23	1.13	0.10	0.065
				1	2	2.1	0.10	0.065
				1	2	0.88	0.10	0.065
		2nd Floor						
		Doors		1	18	2.1	0.10	0.065
				1	18	1.63	0.10	0.065
				1	23	2.1	0.10	0.065
				1	23	1.13	0.10	0.065
				1	2	2.1	0.10	0.065
				1	2	0.88	0.10	0.065
		3rd Floor						
				1	104	2.1	0.10	0.065
				1	104	1.13	0.10	0.065
		4th to 7th Floor						
				4	80	2.1	0.10	0.065

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				4	80	1.13	0.10	0.065
								Total
1.2	9.147	Providing and Fixing factory made uPVC white colour casement/sliding window / door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of						
		Note :- Each member of window to be measured separately with clear length.						
	9.147.1	Casement Window (Outward/Inward opening) with hinge System						
	9.147.1.1	Frame (50 mm x 50 mm)	Mtrs					
		Windows Wing A		2	5	11.4		
				2	4	8.8		
				2	5	17.1		
				2	5	25.7		
		wing B		2	30	9.6		
								Total
	9.147.1.3	Mullion (intermediate Section) (66 mm x 50 mm)	Mtrs					
		Windows Wing A		2	5	11.2		
				2	4	8.6		
				2	5	16.9		
				2	5	25.5		
		wing B		2	30	9.4		
								Total
	9.147.1.5	Glazing bead (12 mm x 18 mm)	Mtrs					
		Windows Wing A		2	5	11		
				2	4	8.4		
				2	5	16.5		
				2	5	25.3		
		wing B		2	30	9.2		
								Total
1.3	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :						
	10.30.2	5.5 mm thick glass panes	Sqm					
		Wing A		2	5	2.9	2.6	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				2	4	2.9	1.3	
				2	5	5.3	3.1	
				2	5	5.3	7.35	
		Wing B		2	30	2	2.6	
								Total
17	9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (part1) non-decorative type. Core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with						
(a)	9.21.1	35mm thick including ISI marked Stainless Steel butt hinges with	sqm					
		Ground Floor						
		AHU		2	2	2.1	1.40	
		Lecture Hall		4	2	2.1	1.40	
		Store		2	2	2.1	1.00	
		Corridor		4	2	2.1	1.00	
		Entrence Loby Academic Zone Inside		3	2	2.1	1.40	
		Health Centre		2	2	2.1	1.40	
				1	2	2.1	1.00	
		NBCC Site Office		7	2	2.1	1.40	
		First Floor						
		Doors		1	30	2.1	1.40	
				1	23	2.1	1.00	
				1	2	2.1	0.75	
		2nd Floor						
		Doors		1	18	2.1	1.40	
				1	23	2.1	1.00	
				1	2	2.1	0.75	
		3rd Floor						
				1	104	2.1	1.00	
		4th to 7th Floor						
				4	80	2.1	1.40	
								Total
		SUBHEAD IV-Flooring						
1	8.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
	a	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent						
		Ground Floor						
		Entrence Office Site office outside		1	1	10	6	
		entrence Lobby Academic Zone Outside		1	1	17	5	
		entrence Lobby outside girls Hostel		1	1	8.6	4	
		Health Centre Outside		1	1	17.61	5	
								Total
1.2	11.26	kota stone slab flooring over 20mm (average thick base laid over and jointed with grey cement slutty mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1: 4 (1 cement : 4 coarse sand):						
	11.26.1	25mm thick	sqm					
		Ground Floor						
		services		1	2	4.05	1.3	
				1	1	3	4.45	
		Lecture hall		1	4	11.65	10	
				4	8	11.65	0.3	
		Ahu		1	2	4.85	3.9	
		Entrence lobby Academic Zone		1	1	13.8	8.34	
		Wing A Lecture Hall		1	4	12.7	15.45	
				4	10	12.7	0.3	
		Store		1	2	3	5.15	
		First Floor						
		services		1	2	4.05	1.3	
				1	1	3	4.45	
		Wing B & C Lecture hall		1	4	11.65	10	
				4	8	11.65	0.3	
		Wing A Lecture Hall		1	4	12.7	15.45	
				4	10	12.7	0.3	
		Ahu		1	2	4.44	3.1	
				1	2	3.6	4.5	
		Store		1	2	4.18	3.15	
		Water Cooler area		2	0.5	2.6	2.6	
				1	2	1.8	3.8	
		corridoor		1	2	50.4	4	
				1	1	62.8	4	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				1	2	11.6	1.8	
				1	2	12.6	3	
				1	2	4	1.8	
				1	2	4	2.2	
				1	1	10	4	
				1	2	6	2	
				1	2	6.4	4.4	
		2nd Floor						
		services		1	2	4.05	1.3	
				1	1	3	4.45	
		Wing B & C Lecture hall		1	4	11.65	10	
				4	8	11.65	0.3	
		Wing A Lecture Hall		1	4	12.7	15.45	
				4	10	12.7	0.3	
		AHU		1	2	5.2	2.6	
				1	2	4	4.2	
		Mess all area		1	2	52	12.9	
		Corridor		1	2	41.2	4	
				1	2	50.4	4	
				1	1	12	4	
		3rd Floor						
		Terrace		1	2	40	16	
				2	0.5	11	9	
				1	2	7	5	
				1	2	30	3	
				1	1	6	6	
		services		1	2	4.05	1.3	
				1	2	3	3	
		kitchen		1	2	3.65	4.8	
		Store		1	2	1.74	3	
		4th floor to 7th Floor						
		services		4	2	4.05	1.3	
		Store		4	2	2.3	4.25	
		Games Multi Room		4	2	11.35	5.15	
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1.3	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm					
		First Floor						
		Wing B & C						
		Steps		2	28	1.5	0.3	
		Risers		2	32	1.5	0.15	
		landings		2	4	1.5	1.5	
		Wing A						
		Steps		3	26	1.5	0.3	
		Risers		3	30	1.5	0.15	
		landings		3	4	1.5	1.5	
		2nd Floor						
		Wing B & C						
		Steps		2	28	1.5	0.3	
		Risers		2	32	1.5	0.15	
		landings		2	4	1.5	1.5	
		Wing A						
		Steps		3	26	1.5	0.3	
		Risers		3	30	1.5	0.15	
		landings		3	4	1.5	1.5	
		3rd Floor						
		Wing B & C						
		Steps		2	28	1.5	0.3	
		Risers		2	32	1.5	0.15	
		landings		2	4	1.5	1.5	
		Wing A						
		Steps		3	26	1.5	0.3	
		Risers		3	30	1.5	0.15	
		landings		3	4	1.5	1.5	
		4th Floor to 7th Floor						
		Wing A						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Steps		12	26	1.5	0.3	
		Risers		12	30	1.5	0.15	
		landings		12	4	1.5	1.5	
								Total
1.5	11.36	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over	sqm					
		Ground Floor						
		Toilets						
		M Toilet		2	2	6		2.1
				2	2	3.89		2.1
				2	3	1.8		2.1
		F Toilet		2	2	4.6		2.1
				2	2	3.55		2.1
				2	3	1.8		2.1
		1st Floor						
		M Toilet		2	2	7.85		2.1
				2	2	3.31		2.1
				2	5	1.8		2.1
		F Toilet		2	2	5.85		2.1
				2	2	4.4		2.1
				2	6	1.8		2.1
		2nd Floor						
		Wing A Toilets		2	2	7.6		2.1
				2	2	5		2.1
				2	2	1.8		2.1
		M Toilet		2	2	4.8		2.1
				2	2	3.15		2.1
				2	3	1.8		2.1
		F Toilet		2	2	3.3		2.1
				2	2	4.7		2.1
				2	3	1.8		2.1
		3rd Floor						
		Wing A Rooms Toilets		8	2	5.2		2.1
				8	2	4.8		2.1
				8	2	4		2.1
				4	2	5.2		2.1

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				4	2	2.2		2.1
				4	2	4		2.1
				2	2	5.2		2.1
				2	2	2.2		2.1
				2	2	2		2.1
		M Toilet		2	1	14.1		2.1
				2	1	1.8		2.1
		4th to 7th Floor						
		Wing A Rooms Toilets		4	16	5.2		2.1
				4	16	4.8		2.1
				4	16	4		2.1
				4	8	5.2		2.1
				4	8	2.2		2.1
				4	8	4		2.1
								Total
1.6	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades						
	11.41.2	Size of Tile 600x600 mm	Sqm					
		3rd Floor						
		Hostel Room						
		Wing A		1	20	5.4	5.4	
		4th to 7th Floor						
		Hostel Room		4	20	5.4	5.4	
								Total
		SUBHEAD V- Ceilling						
1	12.52	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
	12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated	Sqm					
		Ground Floor						
		Wing B Lecture halls		1	4	10	11.6	
		Toilets		1	1	3.55	4.6	
				1	1	3.89	6	
				1	1	7.65	3.31	
				1	1	5.85	4.6	
		WingA Lecture Halls		1	4	15.45	12.7	
		Corridoor						
		Wind B&C		2	1	50	4	
				1	1	6.39	6.65	
				1	1	12	4	
		Wing A		1	1	82	4	
		Health Centre		1	1	8	8	
		NBCC Site Office		1	75%	40	11.65	
		1st Floor						
		Rooms		1	2	8.215	55.64	
		Wing A & B Lecture Halls		1	4	9.8	11.65	
		Toilets		1	1	3.55	4.6	
				1	1	3.89	6	
				1	1	7.65	3.31	
				1	1	5.85	4.6	
		Wing A Lecture Hall		1	4	12.7	15.45	
		corridoor		1	2	50.4	4	
				1	1	62.8	4	
				1	2	11.6	1.8	
				1	2	12.6	3	
				1	2	4	1.8	
				1	2	4	2.2	
				1	1	10	4	
				1	2	6	2	
				1	2	6.4	4.4	
		NBCC Site Office		1	75%	40	11.65	
		2nd Floor						
		Wing C Lecture Hall						
		Wing B,C Lecture Halls		1	4	9.8	11.65	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Wing A Toilet		1	2	5.2	5.2	
		M toilet		1	2	3.3	4.7	
		F Toilet		1	2	3.15	4.8	
		Library		1	1%	40	11.65	
		Corridor		1	2	41.2	4	
				1	2	50.4	4	
				1	1	12	4	
		3rd Floor						
		Wing B& C						
		Toilet		2	1	3.2	3	
		Rooms Toilet		1	11	5	5.15	
		Lift Lobby		1	2	3	4	
		Lobby		1	2	7.2	13	
				1	2	45.48	2	
		Sit Out		1	2	2.5	7.85	
		4th Floor to 7th Floor						
		Lift Lobby		4	2	3	4	
		Lobby		4	2	54	2	
		Sit Out		4	2	2.5	7.85	
		Games Multi Room		4	2	11.35	5.15	
								Total
		SUBHEAD VI- Finishing						
1	7.23	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment						
	7.23.3	White sand stone - exposed face fine dressed with rough backing						
	7.23.3.5	30 mm thick	sqm					
		Wing A						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Stone cladding A		2	1	6.4		1.2
				2	3	3		6.4
				2	2	1.6		6.4
				2	5	4.6		1.2
				2	1	1.8		1.2
				2	1	2		6.95
				2	2	2		8.05
				2	1	6		2.2
		Wing B						
		Stone cladding A		2	5	1.975		1.2
		Stone Cladding B						
		Wing A		2	10	1.1		1.2
				2	2	53.6		0.45
				2	2	8.35		0.45
				2	1	3.15		7.45
				2	1	3.55		7.45
				2	4	4.6		7.45
				2	1	8.35		7
		Wing B & C		2	4	1.975		1.2
				2	4	7.6		1.2
				2	2	63.1		1.5
				2	4	1.5		15
								Total
1.2	13.16.1	6 mm cement plaster of mix :						
		1:3 (1 cement : 3 fine sand)	Sqm					
		Ground Floor						
		Wing A		1	1	126.2	16.4	
		Wing B & C		1	2	71	15.65	
		1st Floor						
		Wing A		1	1	126.2	16.4	
		Wing B & C		1	2	71	15.65	
		2nd Floor						
		Wing A		1	1	126.2	16.4	
		Wing B & C		1	2	71	15.65	
		3rd Floor						
		Wing A		1	1	126.2	16.4	
		4th to 7th Floor						
		Wing A		4	1	126.2	16.4	
		Deduct Ceilling Area						
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1.3	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm					
		Ground Floor						
		Entrence Lobby		15%	2	41		4.55
		Entrence Lobby Acemedic Zone		15%	1	46		4.55
		Entrence Lobby Girls Hostel Side		15%	2	41		4.55
		NBCC Office		25%	1	126		4.55
		First Floor						
		Lift Lobby		15%	2	41		4.55
		NBCC Office		25%	1	126		4.55
		2nd Floor						
		Lift Lobby		15%	2	41		4.55
		3rd Floor						
		Lift Lobby		15%	2	41		2.65
		Lobby		15%	2	44		2.65
		4th to 7th Floor						
		Lift Lobby		15%	8	41		2.65
		Lobby		15%	8	44		2.65
								Total
1.4	13.37	White washing with lime to give an even shade						
.	13.37.1	New work (three or more coats)	Sqm					
		Ground Floor						
		Services		2	2	4		4.55
				2	2	1.4		4.55
				1	2	3		4.55
				1	2	4.45		4.55
		AHU		1	2	13.9		4.55
		Stores		1	2	5.15		4.55
				1	2	3		4.55
		1st Floor						
		Services		2	2	4		4.55
				2	2	1.4		4.55
				1	2	3		4.55
				1	2	4.45		4.55
		AHU		1	2	13.9		4.55
				1	2	15		4.55

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Stores		1	2	5		4.55
				1	2	4.8		4.55
		2nd Floor						
		Services		2	2	4		4.55
				2	2	1.4		4.55
				1	2	3		4.55
				1	2	4.45		4.55
		AHU		1	2	16.8		4.55
		Stores		1	2	5		4.55
				1	2	4		4.55
		3rd Floor						
		Services		2	2	4		2.65
				2	2	1.4		2.65
				1	2	3		2.65
				1	2	4.45		2.65
				2	4	3		2.65
		Stores		2	2	3		2.65
				2	2	1.7		2.65
		4th to 7th Floor						
		Services		8	2	4		2.65
				8	2	1.4		2.65
		Stores		8	2	4.25		2.65
				8	2	2.3		2.65
								Total
1.9	13.45	Finishing walls with textured exterior paint of required shade						
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm	Sqm					
		Texture Paint Wing A		1	2	136.2		31.7
		Area of stone Cladding Deduction		-1	1	375.34		
		Less Area of Windows		-1	5	3		2.7
				-1	4	3		1.4
				-1	5	5.4		3.15
				-1	5	5.4		7.45
		wing B		2	2	63.1		16.9
		Less Doors		-1	6	2.4		2.1
		windows		-1	30	2.1		2.7
								Total
		Sub Head : Water Proofing						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design						
	12.21.1	In 75x75 mm deep chase	Rm					
		Terrace		1	2	255	255	
								Total
1.1	12.22	cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement	Each					
		Wing A Terrace		1	2	10		
								Total
1.1	22.70	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by						
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm					
		Terrace						
		Wing A		1	2	63.1	14	
								Total
		Sub Head : Non Scheduled						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1.2	NS 1	Providing and laying Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 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 slurry and pointing with white cement slurry admixed with pigment of	Sqm					
		Ground Floor						
		Faculty Room		1	2	5.2	10.5	
		Corridor						
		Wind B&C		2	1	50	4	
				1	1	6.39	6.65	
				1	1	12	4	
		Wing A		1	1	82	4	
		Entrence		1	1	20.2	7.55	
				1	1	5.4	5.35	
		Faculty Room		1	1	4.85	4.8	
		Doctors Cabin		1	1	5.6	3.05	
		MOT		1	1	4.8	5.4	
		Sick Bay		1	1	5.8	11.8	
		First Floor						
		Rooms		1	2	8.215	55.64	
		Faculty Room		1	2	7.6	5.4	
								Total
1.1	NS 2	Providing and laying Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 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 slurry and pointing with white cement	Sqm					
		Ground Floor						
		Entrence Lobby Site office Inside		1	1	15	12	
				1	1	20	17	
		Entrence Lobby Academic Zone Inside & outside		1	1	8	17.6	
		Entrence Lobby Girls Hostel Side		1	1	12	7	
				-1	1	3	5	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		entrence Lobby outside girls Hostel		1	1	8.6	4	
		Health Centre		1	1	8	7.56	
		Doctors Cabin		1	1	5.6	3.05	
		MOT		1	1	4.8	5.4	
		Sick Bay		1	1	5.8	11.8	
		NBCC Site Office		1	1	40	11.65	
		1st Floor						
		Wing A Lift Lobby		1	2	2.54	5	
		Wing B & C Lift Lobby		1	1	4	5	
		NBCC Site Office		1	1	40	11.65	
		2nd Floor						
		Wing A Entrence Lobby		1	2	7.2	13	
		Lift Lobby		1	2	3	4	
		Library		1	1	40	11.65	
		3rd Floor						
		Lift Lobby		1	2	3	4	
		Lobby		1	2	7.2	13	
				1	2	45.48	2	
		Sit Out		1	2	2.5	7.85	
		4th Floor to 7th Floor						
		Lift Lobby		4	2	3	4	
		Lobby		4	2	54	2	
		Sit Out		4	2	2.5	7.85	
								Total
1.2	NS 3	Providing and laying Antiskid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming of approved make, in all colours, shades, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete						
		Ground Floor						
		Toilet Wing A						
		F & M toilet		1	2	7.85	8	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		First Floor						
		M toilet		1	2	7.85	3.14	
		F Toilet		1	2	5.85	5.6	
		2nd Floor						
		wing AToilet		1	2	4.8	5	
		Wing B& C						
		M toilet		1	2	5.85	3.115	
		F Toilet		1	2	4.7	3.3	
		3rd Floor						
		Wing B& C						
		Toilet		2	1	3.2	3	
		Rooms Balcony		1	20	2.2	1	
		Rooms Toilet		1	11	5	5.15	
		4th Floor to 7th Floor						
		Rooms Balcany		4	20	2.2	1	
		Rooms Toilet		4	10	5	5.15	
								Total
1.3	NS-4	Providing & fixing frameless glass doors with 40% covering with 3m3 film crystal with 12mm thick toughened clear glass door shutter with edge polished with fitting of approved make including provision for fixing aceess coutrol system device wherever required. the door shutter should have necessary patch fitting SS door handle	sqm					
		Ground Floor						
		Main Entry		1	4	2.5	2.1	
				1	2	1.2	2.1	
		First Floor						
		Main Entry		1	2	2.5	2.1	
		2nd Floor						
		Main Entry		1	2	2.5	2.1	
				1	2	1.2	2.1	
		3rd Floor						
		Main Entry		1	2	1.2	2.1	
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
								Total
70	NS-11 (a)	Supply & fixing of 120 min, fire rated steel fire door (single or double leaf type) of 120minutes fire rating duly tested and cetified from CBRI toorkee test ouse . The shutter is fabricated with 2nos. 1.2.mm thick galvanized steel sheet`with infill of fire rated properitory insulation filler both faces	sqm					
		Ground Floor						
		AHU		1	2	1.4	2.1	
		Staircase Doors		1	4	1.5	2.1	
				1	2	2	2.1	
		Services		1	3	0.8	2.1	
		1st Floor						
		AHU		1	4	1.4	2.1	
		Staircase Doors		1	2	1.5	2.1	
				1	2	2	2.1	
		Services		1	4	0.8	2.1	
		2nd Floor						
		AHU		1	2	1.4	2.1	
		Staircase Doors		1	2	1.5	2.1	
				1	2	2	2.1	
		Services		1	3	0.8	2.1	
		3rd Floor						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		Staircase Doors		1	3	1.5	2.1	
				1	2	2	2.1	
		Services		1	3	0.8	2.1	
		4th to 7th Floor						
		Staircase Doors		4	2	1.5	2.1	
		Services		4	3	0.8	2.1	
								Total
	(b)	Supply & fixing of SS ball Bearing Hinges of size 100x89x3mm complete with SS Screws of beckers F.S/ DORMA Make (4nos per panel) Required for all doors.	each					
		Ground Floor						
		AHU		1	2	8		
		Staircase Doors		1	4	8		
				1	2	8		
		Services		1	3	4		
		1st Floor						
		AHU		1	4	8		
		Staircase Doors		1	2	8		
				1	2	8		
		Services		1	4	4		
		2nd Floor						
		AHU		1	2	8		
		Staircase Doors		1	2	8		
				1	2	8		
		Services		1	3	4		
		3rd Floor						
		Staircase Doors		1	3	8		
				1	2	8		
		Services		1	3	4		
		4th to 7th Floor						
		Staircase Doors		4	2	8		
		Services		4	3	1		
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
	(c)	Supply & fixing of beckers F.S/ BRITON(IR) Make panic bar single / double leaf panic exit devices. (Required For Fire Staircase Location Doors Only)						
	(i)	Single Leaf Panic Bar Set	each					
		Ground Floor						
		Services		1	3	1		
		1st Floor						
		Services		1	4	1		
		2nd Floor						
		Services		1	3	1		
		3rd Floor						
		Services		1	3	1		
		4th to 7th Floor						
		Services		4	3	1		
								Total
	(ii)	Double Leaf Panic Bar Set	each					
		Ground Floor						
		AHU		1	2	1		
		Staircase Doors		1	4	1		
				1	2	1		
		1st Floor						
		AHU		1	4	1		
		Staircase Doors		1	2	1		
				1	2	1		
		2nd Floor						
		AHU		1	2	1		
		Staircase Doors		1	2	1		
				1	2	1		
		3rd Floor						
		Staircase Doors		1	3	1		
				1	2	1		
		4th to 7th Floor						
		Staircase Doors		4	2	1		
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
	(d)	Supply & Fixing of beckers F.S/ BRITON (IR) Make Panic trim for operation from the other side of the panic bar (Required for fire stairecase location doors only)	each					
		Ground Floor						
		Staircase Doors		1	6	1		
		1st Floor						
		Staircase Doors		1	4	1		
		2nd Floor						
		Staircase Doors		1	4	1		
		3rd Floor						
		Staircase Doors		1	5	1		
		4th to 7th Floor						
		Staircase Doors		4	2	1		
								Total
	(e)	Supply & Fixing Door closers of beckers FS /BRITON (IR) (NT-121CE) make. (Required for all doors except shaft door)	each					
		Ground Floor						
		AHU		1	2	2		
		Staircase Doors		1	4	2		
				1	2	2		
		Services		1	3	1		
		1st Floor						
		AHU		1	4	2		
		Staircase Doors		1	2	2		
				1	2	2		
		Services		1	4	1		
		2nd Floor						
		AHU		1	2	2		
		Staircase Doors		1	2	2		
				1	2	2		
		Services		1	3	1		
		3rd Floor						
		Staircase Doors		1	3	2		

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				1	2	2		
		Services		1	3	1		
		4th to 7th Floor						
		Staircase Doors		4	2	2		
		Services		4	3	1		
								Total
	(f)	Supply & fixing of Stainless Steel 304 grade 300mm x 10mm Flush Bolt of DORMA Make with necessary screws as required. (Required For Double Leaf Doors)	each					
		Ground Floor						
		AHU		1	2	1		
		Staircase Doors		1	4	1		
				1	2	1		
		Services		1	3	1		
		1st Floor						
		AHU		1	4	1		
		Staircase Doors		1	2	1		
				1	2	1		
		Services		1	4	1		
		2nd Floor						
		AHU		1	2	1		
		Staircase Doors		1	2	1		
				1	2	1		
		Services		1	3	1		
		3rd Floor						
		Staircase Doors		1	3	1		
				1	2	1		
		Services		1	3	1		
		4th to 7th Floor						
		Staircase Doors		4	2	1		
		Services		4	3	1		
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

SI No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
132.07
79.74
131.44
75.35
188.37
125.58
170.68
23.02
14.65
10.47
12.56
25.12
4.60
15.59
11.72
16.74
10.47
25.12
4.20
6.00
42.77
242.37
159.49
301.39
195.07
242.37
132.91

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
209.30
170.68
282.32
108.37
27.31
25.60
1129.28
433.48
109.22
102.40
4997.80
131.04
429
704
131.04
131.04
219.42
31.8
763.2
2540.54
2540.54

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
0.84
0.31
1.68
0.61
0.84
0.23
1.68
0.65
1.26
0.49
0.84
0.33
0.42
0.11
2.94
1.14
6.30
4.89
4.83
2.60
0.42
0.18
3.78
2.93
4.83
2.60
0.42
0.18
21.84
11.75
67.20

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
36.16
185.27
114.00
70.40
171.00
257.00
576.00
1188.40
112.00
68.80
169.00
255.00
564.00
1168.80
110.00
67.20
165.00
253.00
552.00
1147.20
75.40

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
30.16
164.30
389.55
312.00
971.41
11.76
23.52
8.40
16.80
17.64
11.76
4.20
41.16
88.20
48.30
3.15
52.92
48.30
3.15
218.40
940.80
1538.46

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
60
85
34.4
88.05
267.45
10.53
13.35
466
111.84
37.83
115.09
784.86
152.40
30.90
10.53
13.35
466
111.84
784.86
152.40
27.53
32.40
26.334
6.76
13.68
403.2
251.2

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
41.76
75.6
14.4
17.6
40
24
56.32
10.53
13.35
466
111.84
784.86
152.40
27.04
33.6
1341.6
329.6
403.2
48
1280
99
70
180
36
10.53
18
35.04
10.44
42.12
78.2
467.62
10341.53

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
25.2
14.4
18
35.1
20.25
27
25.2
14.4
18
35.1
20.25
27
25.2
14.4
18
35.1
20.25
27

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
140.4
81
108
749.25
50.4
32.676
22.68
38.64
29.82
22.68
65.94
27.804
37.8
49.14
36.96
45.36
63.84
42
15.12
40.32
26.46
22.68
27.72
39.48
22.68
174.72
161.28
134.4
87.36

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
36.96
67.2
43.68
18.48
16.8
59.22
7.56
698.88
645.12
537.6
349.44
147.84
268.8
4215.54
583.2
2332.8
2916.00

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
464.00
16.33
23.34
25.32
26.91
784.86
400.00
42.49
48.00
328.00
64.00
349.5
914.17
456.68
16.33
23.34
25.32
26.91
784.86
403.2
251.2
41.76
75.6
14.4
17.6
40
24
56.32
349.5
456.68

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
54.08
31.02
30.24
4.66
329.6
403.2
48
19.2
283.25
24
187.2
181.92
39.25
96
864
157
467.62
9770.86

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
15.36
115.2
40.96
55.2
4.32
27.8
64.4
26.4
23.7
26.4
96.48
15.03
46.935
52.895
274.16
116.9
18.96
72.96
378.6
180
1652.66
2069.68
2222.30
2069.68
2222.30
2069.68
2222.30
2069.68
8278.72
-9770.86
13453.48

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
55.97
31.40
55.97
143.33
55.97
143.33
55.97
32.60
34.98
130.38
139.92
879.78
72.80
25.48
27.30
40.50
126.49
46.87
27.30
72.80
25.48
27.30
40.50
126.49
136.50

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
45.50
43.68
72.80
25.48
27.30
40.50
152.88
45.50
36.40
42.40
14.84
15.90
23.59
31.80
18.02
169.60
59.36
180.20
97.52
1939.06
8635.08
-375.34
-40.50
-16.80
-85.05
-201.15
4265.56
-30.24
-170.10
11981.46

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
510.00
510.00
20.00
20.00
1766.80
1766.80

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
109.20
400.00
42.49
48.00
328.00
152.51
28.89
23.28
17.08
25.92
68.44
914.17
82.08
2240.06
180
340
140.8
84
-15

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
34.4
60.48
17.08
25.92
68.44
466
25.4
20
466
187.2
24
466
24
187.2
181.92
39.25
96
864
157
4140.09
125.6

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
49.30
65.52
48.00
36.45
31.02
19.2
44
283.25
176
1030
1908.33
21
5.04
10.5
10.5
5.04
5.04
57.12

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
0
5.88
12.6
8.4
5.04
11.76
6.3
8.4
6.72
5.88
6.3
8.4
5.04

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
9.45
8.4
5.04
25.2
20.16
158.97
16
32
16
12
32
16
16
16
16
16
16
12
24
16
12
64
12
344

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
3
4
3
3
12
25
2
4
2
4
2
2
2
2
2
3
2
8
35

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
6
4
4
5
8
27
2
4
2
3
4
2
2
4
2
2
2
3
3

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
2
3
8
12
60
2
4
2
3
4
2
2
4
2
2
2
3
3
2
3
8
12
60

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

MEASUREMENT

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		SUB-HEAD I - Carriage of Materials						
1.0	1.1.2	Carriage of Earth by Mechanical transport Including loading unloding and stacking	Cum					
				1	0.5	98	98	2
								Total
		SUBHEAD II : Earth Work						
1.0	2.27	Supplying and filling in plinth with jamuna sand under floors, including watering,ramming consolidating and dressingh complete	cum					
		Wing A		1	1	100	16.9	0.15
		Wind B&C		1	2	51	22	0.15
								Total
		SUBHEAD III-BRICK WORK						
1	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
(a)	6.1.2	Cement mortar 1:6 (1 cement : 6	cum					
		Basement						
		Wing 1						
		Side Walls		1	2	15.6	0.2	5.8
		Mid Walls		1	4	12.7	0.2	5.8
				1	2	3.6	0.2	5.8
		Wing B & C					0.2	
		Lab 1		2	1	16.2	0.2	5.8
				2	1	63.4	0.2	5.8
				2	4	9.1	0.2	5.8
				2	1	3	0.2	5.8
				2	1	5.4	0.2	5.8
				2	1	3.2	0.2	5.8
				2	1	4.4	0.2	5.8
		Small Labs		2	1	40	0.2	5.8
				2	3	7.5	0.2	5.8
				2	1	8.2	0.2	5.8
				2	2	3.6	0.2	5.8
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1.1	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :						
(b)	6.12.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm					
		Basement						
		F toilet		2	4	1.8		5.8
				2	1	4.6		5.8
		M Toilet		2	3	1.8		5.8
				2	1	1.4		5.8
								Total
9	6.15	Extra for providing and placing in	sqm					
		Same as Above						
		SUBHEAD IV-Wood Work						
16	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wroght framed and fixed in position.						
(a)	9.1.1	Second class teak wood	cum					
		basement						
				27	2	2.1	0.1	0.065
				27	1	1.53	0.1	0.065
				22	2	2.1	0.1	0.065
				22	1	1.13	0.1	0.065
								Total
17	9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (part1) non-decorative type. Core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
(a)	9.21.1	35mm thick including ISI marked Stainless Steel butt hinges with	sqm					
		basement						
				1	27	1.4	2.1	
				1	22	1	2.1	
								Total
		SUBHEAD IV-Flooring						
1	11.50	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's						
		Basement Ramp						
		Ramp		1	1	40.5	4	
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1.1	11.26	kota stone slab flooring over 20mm (average thick base laid over and jointed with grey cement slutty mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1: 4 (1 cement : 4 coarse sand):						
	1	25mm thick	sqm					
		basement						
		Store		1	2	5.6	5.2	
		Staircase		1	2	7.2	5.4	
				1	3	5.55	5.2	
		BIG Labs		1	4	20.2	9.3	
				1	2	16.21	9.3	
		Small lab		1	6	10.2	7.7	
		AHU		1	2	6.3	4.6	
		Activity Room		1	2	4.2	7.3	
				1	2	4.4	3.7	
		Multi Purpose Halll		1	1	23.69	12.9	
				1	1	10	8.05	
		Rooms		1	2	15.7	12.9	
		Services		1	1	4.6	5.6	
								Total
1.2	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm					
		Baement Stair Case						
		Wing B & C						
		Steps		2	28	2.2	0.3	
		Risers		2	29	2.2	0.15	
		landings		2	3	2.1	2.1	
		Wing A						
		Steps		3	22	1.4	0.3	
		Risers		3	23	1.4	0.15	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		landings		3	2	1.4	2.1	
				3	1	5.4	1.4	
								Total
1.3	11.34	38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.	sqm					
		Basement						
		Gym 1 & 2		1	1	23.69	12.9	
				1	1	10	8.05	
								Total
1.4	11.36	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over	sqm					
		basement						
		Toilets						
		M Toilet		2	2	5.9		2.1
				2	2	3.2		2.1
				2	3	1.8		2.1
		F Toilet		2	2	4.6		2.1
				2	2	4.6		2.1
				2	4	1.8		2.1
								Total
		SUBHEAD V- Ceilling						

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
1	12.52	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38						
	12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated	Sqm					
		Basement						
		Toilet						
		F toilet		1	2	4.6	4.6	
		M Toilet		1	2	5.9	3.2	
		Big Lab 3		1	2	16.01	99.1	
		Activity Room		1	2	4.2	7.3	
				1	2	4.4	3.7	
		Multi Purpose Halll		1	1	23.69	12.9	
				1	1	10	8.05	
		Rooms		1	2	15.7	12.9	
		Corridor						
		Wind B&C		2	1	40	4.2	
				2	1	9.8	8.1	
				2	1	8	2.7	
		Wing A		1	1	81.82	4.8	
		Entrence		1	1	20.2	7.55	
				1	1	5.4	5.35	
		Big Lab 02		1	1	20	9.1	
		Big Lab 01		1	1	20	9.1	
		Small Lab 1,2,3		1	3	10	7.6	
		Faculty Room		1	2	5.2	10.5	
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
		SUBHEAD VI- Finishing						
1	13.4	12 mm cement plaster of mix :						
(a)	13.4.2	1:6 (1 cement: 6 coarse sand)	sqm					
		basement						
		Over 230mm Thick Wall		1	0.5	2952.21		
		Over 115 mm thick Wall		1	2	215		
								Total
1.1	13.5	15 mm cement plaster on rough side of						
(a)	13.5.2	1:6 (1 cement: 6 coarse sand)	sqm					
		basement						
		Over 230mm Thick Wall		1	0.5	2952.21		
								Total
1.2	13.16.	6 mm cement plaster of mix :						
		1:3 (1 cement : 3 fine sand)	Sqm					
		Store		1	1	4.2	7.3	
				1	1	4.4	3.7	
				1	2	5.2	5.15	
		AHU		1	2	6.3	4.6	
		Lift Lobby		1	1	4.2	5.4	
				1	2	5.4	5.6	
				-1	2	4	3	
		Staircase		1	2	5.2	7	
				1	3	4.8	5.8	
				1	1	301	5.8	
								Total
		Sub Head : Non Scheduled						
1.2	NS 1	Providing and laying Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 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 slurry and pointing with white cement slurry admixed with pigment of	Sqm					
		Basement						
		Faculty Room		1	2	5.2	10.5	
		Corridor						
		Wind B&C		2	1	40	4.2	
				2	1	9.8	8.1	

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height
				2	1	8	2.7	
		Wing A		1	1	81.82	4.8	
		Entrence		1	1	20.2	7.55	
				1	1	5.4	5.35	
								Total
1.1	NS 2	Providing and laying Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 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 slurry and pointing with white cement	Sqm					
		Basement						
		Lift Lobby		1	1	4.2	5.4	
				1	2	5.4	5.6	
				-1	2	4	3	
								Total
1.2	NS 3	Providing and laying Antiskid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming of approved make, in all colours, shades, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete						
		Basement						
		Toilet						
		F toilet		1	2	4.6	4.6	
		M Toilet		1	2	5.9	3.2	
								Total
1.3	NS-4	Providing & fixing frameless glass doors with 40% covering with 3m3 film crystal with 12mm thick toughened clear glass door shutter with edge polished with fitting of approved make including provision for fixing aceess coutrol system device wherever required. the door shutter should have necessary patch fitting SS door handle	sqm					
		Basement		1	3	1.4	2.1	
								Total

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Sl No.	Item No.	Particulars	Unit	MEASUREMENT				
				No.		Length	Breadth	Depth/ Height

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
9604
9604
253.5
336.6
590.1
36.19
58.93
8.35
37.58
147.09
84.45
6.96
12.53
7.42
10.21
92.80
52.20
19.02
16.70
590.44

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
83.52
53.36
62.64
16.24
215.76
215.76
11.34
4.13
9.24
2.49
27.20

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
79.38
46.2
125.58
162
162

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
58.24
77.76
86.58
751.44
301.51
471.24
57.96
61.32
32.56
305.60
80.50
405.06
25.76
2715.53
36.96
19.14
26.46
27.72
14.49

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
17.64
22.68
165.09
305.60
80.50
386.10
49.56
26.88
22.68
38.64
38.64
30.24
206.64

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
42.32
37.76
61.32
32.56
305.60
80.50
405.06
336.00
158.76
43.20
392.74
152.51
28.89
182
182
228
109.20
2778.42

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
1476.11
430.00
1906.11
1476.11
1476.11
30.66
16.28
53.56
57.96
22.68
60.48
-24
72.8
83.52
1745.8
2119.74
109.20
336.00
158.76

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity
43.20
392.74
152.51
28.89
1221.30
22.68
60.48
-24
59.16
42.32
37.76
80.08
8.82
8.82

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

Quantity

Unit Incharge Site incharge MF **CONTRACTOR**

BILLS OF QUANTITIES FOR PROVIDING, FIXING, TESTING AND COMMISSIONING OF HVAC WORK						
Sr. No.	**DESCRIPTION**	**Unit**	**BOQ QTY**	**BOQ Rate (Rs.)**	**BOQ Amount (Rs.)**	**REMARKS**
	LOW SIDE WORK				**As per PO**	
1	**High side unit**					
	Installation, testing and commissioning of high side unit as per approved design, Drawing and specificatioins					
i	11.0 TR Non Inverter High Static Ductable Unit (FDR130)	Nos	1	11,500.00	11,500.00	
2	**Refrigerant Piping and fittings**					
	Supplying, testing & commissioning of refrigerant pipe for 11.0 TR Air Cooled Ductable Unit with 13 mm thick. Nitrile Rubber Sleeve Insulation.					
i	22.2 mm O.D., wall thinkness ≥ 1.0mm (insulation – 13 mm thick)	Rmt	17.5	1,050.00	18,375.00	
ii	12.7 mm O.D., wall thinkness ≥ 0.8mm (insulation – 13 mm thick)	Rmt	17.5	700.00	12,250.00	
3	**CONDENSATE DRAIN PIPE**					
	Supplying, laying, fixing, testing & commissioning of UPVC pipes conforming complete					
ii	32 mm dia with all necessary fittings and 9 mm nitrile insulation .	Rmt.	21.34	330.00	7,042.20	
4	Supply, installation, testing and commissioning of **INLINE FANS** suitable for installing in any position in vertical or horizontal ducts. The casing shall be double skin, internally acoustically lined and constructed of galvanised steel. The fan shall be DIDW with forward curve impeller fitted with maintenance free external rotor motor. The motor shall be suitable for 220±10% volt single phase 50 cycles AC supply. Quoted price shall be inclusive of electronic speed regulator and wiring between fan & speed regulator for single phase fans. Incase of 3 phase fans quated price shall be inclusive of DOL starter panel with cabling between starter panel and fan. The incoming power supply to speed regulator / starter panel shall be provided by electrical contractor. The fan shall have low sound level exceeding not more than 40 DBA at three metre distance. (For Toilet Ventilation).					
i	Inline Fan 200 CFM, 12mm static (25 mmwg)	Nos	0	8,960.00	-	
5	**Ducting For Toilet**					
i	Supply, installation, testing and commissioning of Exhaust Pvc Pipe Dia 200mm	Rmt	0	1,250.00	-	
6	**FACTORY FABRICATED DUCTING**					
	Supply, Fabrication, Installation and Testing of sheet metal ducts complete with vanes, splitter damper hanging arrangement including check nuts in accordance with the approved shop drawings and specifications.					
i	0.63 mm (24 gauge) GSS (SITE FABRICATED)	Sqmtr	19.91	1,025.00	20,407.75	
ii	0.8 mm (22 gauge) GSS	Sqmtr	0	1,155.00		
iii	1.0 mm (20 gauge) GSS	Sqmtr	0	1,305.00		
iv	1.25mm (18 gauge) GSS	Sqmtr	0	1,455.00		
7	Supply, Fabrication, Installation and Testing of Oval ducts complete with vanes, splitter damper hanging arrangement including check nuts in accordance with the approved shop drawings and specifications.					
i	0.63 mm (24 gauge) GSS (SITE FABRICATED)	Sqmtr	11	1,750.00	19,250.00	
ii	0.8 mm (22 gauge) GSS	Sqmtr	5.02	1,900.00	9,538.00	
iii	1.0 mm (20 gauge) GSS	Sqmtr	0			
iv	1.25mm (18 gauge) GSS	Sqmtr	0			
	Make: ADS / Ruskin Titus / Pineair / Truestar					
8	**Damper**					
i	Supply, installation, testing and commissioning of alluminium Collar Damper	sqmtr	0.077	6,500.00	500.50	
8.1	**Grill/ Disfuser**					
i	Supply, installation, testing and commissioning of Powder Coated Aluminium Extruded grill (Air registeres) without collar damper	Sqmtr	0.155	7,500.00	1,162.50	
8.2	**VCD - Volume Control Damper**					
i	Supply & Installation of Mannual operated GI VCD	sqmtr	0	9,800.00	-	
8.3	Clamp Patti					
i	CLAMP (1050 X 300)	Nos	5	300.00	1,500.00	
ii	CLAMP (600 X 300)	Nos	4	300.00	1,200.00	
9	**DUCT INSULATION**					
	Make: Armacell / Vidoflex / Aerolam / Pidilite					
	Supplying and fixing of following thickness duly laminated aluminium foil of mat fininshed closed cell Nitrile rubber (class ''O'') insulation on duct after applying two coats of cold setting adhesive (The joints shall sealed with 50mm wide and 3 mm thick self adhesive nitrile rubber tape insulaton complete as per specifications and as required.					
i	Thermal Duct Insulation with 19 mm nitrile rubber (SUPPLY duct)	sqmtr	0	980.00	-	
ii	Open cell calss with 15 mm	sqmtr	0	850.00	-	
10	**CONTROL WIRING**					
	Supply, laying, affecting connections & testing of the following sizes of control conduits between indoor units and outdoor units.					
i	4C x 2.5 sqmm thick Copper wiring	RMT	76.2	200.00	15,240.00	
11	**ODU Support**					
	Supply, installation, testing and commissioning of High side unit support as per approved design and specifications					
i	5.5 TR Air Cooled Ductable Unit	Nos	2	5,000.00	10,000.00	
12	**Other work**					
i	Wall chasing work for ref. pipe & drain pipe	RMT	0	75.00	-	
ii	Perforated MS cable trays				-	

iii	150 mm wide x 50 mm depth x 1.6 mm thickness	RMT	0	834.00	-	
iv	LIFTING SHIFTING	L/S	1	10,000.00	10,000.00	
13	**CANVASS**					
i	Supply, installation and testing of fire retardent canvass connection for connecting duct and unit	Nos	1	5,000.00	5,000.00	
	Total Low Side				142,965.95	
	18% GST Amount				25,733.87	
	Grand Total with 18% GST				168,699.82	