DETAILS OF MEASUREMENT

Client- MMMUT, Gorakhpur
Agency- UPPWD, Gorakhpur

me of Work : - Construction of Library extension building and new laboratory building of Comp ience and Engineering department in Madan Mohan Malviya University of Technology Gorakh mpus. (Rain Water Harvesting Construction was a part of above Const project)

No	Item of work	No.			L	B	H/D	Cor
1	2	3			4	5	6	
1	Clearing site including uprooting bushes, leveling dressing the site and disposal of rubbish from the site of work. Sl No 259							
	Computer Science in Engineering Department	1	x	1	40.00	45.00		1800.00
	Library	1	x	1	50.00	35.00		1750.00
								3550.00
2	Layout of building including constructioin of level pillors, making centre line and giving plinth level complete. For Lab & Library							
	Computer Science in Engineering Department	1	x	1				1
	Library	1	x	1				1
								2
3	Excavation in foundation in ordinary soil (Loamclay or sand) including lift up to 1.5m and lead up to 30m. And including filling watering and ramming of excavated earth into the space between the building and the sides of foundation trenches or into the plinth and removal and disposal of surplus earth as directed by the Engineer in charge up to a distance of 30m. from the foundation trenches including all T&P basket etc. complete. as per Sl No 251							
	Computer Science in Engineering Department							
	F-1	1	x	22	3.10	2.80	2.00	381.92
	F-2	1	x	14	2.90	2.60	2.00	211.12
	F-3	1	x	2	2.80	2.80	2.00	31.36
	F-4	1	x	2	1.75	2.50	2.00	17.50
	Long wall	1	x	3	7.54	1.00	0.75	16.97
		1	x	4	13.74	1.00	0.75	41.22
		1	x	1	3.71	1.00	0.75	2.78
	Short wall	1	x	2	7.62	1.00	0.75	11.43
		1	x	2	8.82	1.00	0.75	13.23
		1	x	2	1.80	1.00	0.75	2.70
	Septic tank	1	x	1	8.00	4.00	3.30	105.60
	Drain (Long wall side)	1	x	2	30.72	1.20	0.45	33.18
	Drain (Short wall side)	1	x	2	25.00	1.20	0.45	27.00
	Rain water hirewesting	1	x	1	6.50	6.50	3.30	139.43
	Apron (long wall side)	1	x	2	25.92	0.60	0.20	6.22
	Apron (short wall side)	1	x	2	22.04	0.60	0.20	5.29
	Soak pit	1	x	2	3.14	$(1.50)^2$	3.00	42.39
							Total	1089.33
	LIBRARY							
	F-1	1	x	26	2.94	2.63	2.00	402.07
	F-2	1	x	8	2.74	2.43	2.00	106.53
	Long wall	1	x	2	5.70	1.00	0.75	8.55
		1	x	1	8.63	1.00	0.75	6.47
	Short wall	1	x	2	4.18	1.00	0.75	6.27
	Piller	1	x	10	0.90	0.90	1.25	10.13
	Septic tank	1	x	1	8.00	4.00	3.30	105.60
	Drain (Long wall side)	1	x	2	35.30	1.20	0.45	38.12
	Drain (Short wall side)	1	x	2	16.00	1.20	0.45	17.28
	Rain water hirewesting	1	x	1	6.50	6.50	3.30	139.43
	Apron (long wall side)	1	x	2	33.50	0.60	0.20	8.04
	Apron (short wall side)	1	x	2	12.54	0.60	0.20	3.01
	Soak pit	1	x	2	3.14	$(1.50)^2$	3.00	42.39
							Total	893.89
							G Total	1983.22

	8km. distance in ordinary soil, excavation to be in the form of regular pits not exceeding 0.50 m. in depth and Earth work in embankment to be in 20 cm. layers, including ramming & dressing the surface to required levels and slopes and also including cost of earth supply of labour, T&P and machinary etc. required for proper completion of the work As per direction of Engineer-In-charge .							
	Computer Science in Engineering Department	1	x	1	23.24	24.72	0.50	287.25
	LIBRARY	1	x	1	31.77	12.77	0.50	202.85
								490.10
5	Sand filling in plinth including supply of necessary quality if sand from a distance not exceeding 8 km from the site of work and including watering dressing etc. rate to include cost of all material, labour and t7P etc. required for proper completion of the work. Sl.No. 255							
	Computer Science in Engineering Department	1	x	1	23.24	24.72	0.30	172.35
	LIBRARY	1	x	1	31.77	12.77	0.30	121.71
								294.06
6	Cement concrete with 4.0 cm gauge approved stone ballast, approved coarse sand and cement in the proportion of 6:3:1 including supply of materials labour and tools plants etc. required for the proper completion of the work. As per Sl No 280							
	Computer Science in Engineering Department							
	F-1	1	x	22	2.70	2.40	0.15	21.38
	F-2	1	x	14	2.50	2.20	0.15	11.55
	F-3	1	x	2	2.40	2.40	0.15	1.73
	F-4	1	x	2	1.35	2.10	0.15	0.85
	Long wall	1	x	3	9.54	0.75	0.15	3.22
		1	x	4	14.94	0.75	0.15	6.72
		1	x	1	3.71	0.75	0.15	0.42
	Short wall	1	x	2	10.02	0.75	0.15	2.25
		1	x	2	11.22	0.75	0.15	2.52
		1	x	2	3.67	0.75	0.15	0.83
	floor	1	x	1	22.04	24.12	0.15	79.74
	Septic tank	1	x	1	6.60	2.60	0.15	2.57
	Drain (Long wall side)	1	x	2	30.72	1.00	0.15	9.22
	Drain (Short wall side)	1	x	2	25.00	1.00	0.15	7.50
	Rain water hirewesting	1	x	1	6.50	6.50	0.15	6.34
	Apron (long wall side)	1	x	2	28.92	0.60	0.15	5.21
	Apron (short wall side)	1	x	2	21.30	0.60	0.15	3.83
	Computer Science in Engineering Department	2	x	1	24.00	7.46	0.150	53.71
		2	x	1	27.00	9.00	0.150	72.90
							Total	**292.50**
	LIBRARY							
	F-1	1	x	26	2.74	2.43	0.15	25.97
	F-2	1	x	8	2.54	2.23	0.15	6.80
	Long wall	1	x	2	29.00	0.75	0.15	6.53
		1	x	1	29.30	0.75	0.15	3.30
	Short wall	1	x	2	11.34	0.75	0.15	2.55
	Piller	1	x	10	0.90	0.90	0.15	1.22
	floor	1	x	1	31.70	12.53	0.15	59.58
	Septic tank	1	x	1	6.60	2.60	0.15	2.57
	Drain (Long wall side)	1	x	2	35.30	1.00	0.15	10.59
	Drain (Short wall side)	1	x	2	16.00	1.00	0.15	4.80
	Rain water hirewesting	1	x	1	6.50	6.50	0.15	6.34
	Apron (long wall side)	1	x	2	33.50	0.60	0.15	6.03
	Apron (short wall side)	1	x	2	12.54	0.60	0.15	2.26
	LIBRARY	2	x	1	39.00	7.00	0.150	81.90
		2	x	1	15.00	6.50	0.150	29.25
							Total	249.67
							G Total	542.1

	Rain water hirewesting floor	1	x	1	6.46	3.30	0.150	
	Rain water hirewesting long wall	1	x	1	5.46	5.00	0.150	
	Rain water hirewesting short wall	1	x	2	5.46	0.23	3.000	
	Rain water hirewesting slab	1	x	2	5.00	0.23	3.000	
	Soak pit slab	1	x	1	5.46	5.46	0.150	
		1	x	2	3.14	$(1.00)^2$	0.150	
	LIBRARY							
	F-1 Rectregular cubid							
	Taper portion	1	x	26	2.70	2.40	0.350	
		1	x	26	(2.70x2.40+0.50x0.80+1.60) / 3		0.400	
		1	x	26	0.50	0.80	0.450	
	F-2 Rectregular cubid	1	x	26	0.30	0.60	0.950	
	Taper portion	1	x	8	2.50	2.20	0.300	
		1	x	8	(2.50x2.20+0.50x0.80+1.48) / 3		0.350	
		1	x	8	0.50	0.80	0.450	
	PILLER	1	x	8	0.30	0.60	1.100	
	Long wall Plinth beam	1	x	10	0.23	0.23	1.050	
		1	x	2	29.00	0.23	0.300	
	Short wall Plinth beam	1	x	1	25.92	0.23	0.300	
		1	x	2	11.34	0.23	0.300	
		1	x	8	11.94	0.23	0.300	
		1	x	1	7.92	0.23	0.300	
		1	x	2	3.38	0.23	0.300	
	Septic tank floor	1	x	1	3.45	0.23	0.300	
	Long wall	1	x	1	6.60	3.60	0.150	
	Long wall	1	x	2	6.46	0.23	3.000	
	Partition wall	1	x	2	3.00	0.23	3.000	
	Slab	1	x	2	3.00	0.10	2.550	
	Rain water hirewesting floor	1	x	1	6.46	3.30	0.150	
	Rain water hirewesting long wall	1	x	1	5.46	5.00	0.150	
	Rain water hirewesting short wall	1	x	2	5.46	0.23	3.000	
	Rain water hirewesting slab	1	x	2	5.00	0.23	3.000	
	Soak pit slab	1	x	1	5.46	5.46	0.150	
		1	x	2	3.14	$(1.00)^2$	0.150	
9	M 20 class R.C.C. work with cement, approved coarse sand 2.0cm gauge approved stone ballast in the proportion of 1:1.5:3 in lintels of doors and windows etc and bed plates, excluding the supply of reinforcement and its bending but including its bending the same with 24 BWG, GI bending wire and including wire as also including providing and fixing necessary centering and shuttering and its removal after completion of work & supply of all other materials labour and tools and plants etc. required for the proper completion of the work. (Labour rate including cost of centering & shuttering) above but in R.C.C. T. beam and slab roofs and R.C.C. columns. 1.1.5.3 as per SI 289						G Total	181. 378.
	Computer Science in Engineering Department							
	Colum C1							
	C2	1	x	22	0.30	0.600	3.650	14.45
	C3	1	x	14	0.30	0.600	3.650	9.20
	C4	1	x	2	(3.14/4)	$(0.45)^2$	3.650	1.16
	BEAM	1	x	2	0.25	0.450	3.650	0.82
		1	x	2	20.24	0.250	0.310	3.14
		1	x	4	21.44	0.250	0.460	9.86
		1	x	1	19.64	0.250	0.310	1.52
		1	x	1	6.20	0.250	0.260	0.40
		1	x	1	3.33	0.250	0.210	0.17
		1	x	1	5.06	0.250	0.210	0.27

		1x2x2x2			30.72	0.25	
		1x2x2x2			30.72	0.23	
		1x2x2x2			25.00	0.30	
		1x2x2x2			25.00	0.23	
	Apron	1	x	2	25.00	0.25	
		1	x	2	28.92	0.60	
	Mumty	1	x	2	21.30	0.60	
	Mumty	2	x	2	7.07	3.00	
	Rain water hirewesting	2	x	4	3.78	3.00	
		2	x	2	5.46	3.00	
		2	x	2	5.00	3.00	
	Deduction Window	1	x	16	1.80		Total 15
						1.35	
	LIBRARY						Net total 14
	Long wall	2	x	2	32.30	4.85	6
	Short wall	2	x	1	13.60	4.85	1
	Parapet	1	x	2	45.90	2.31	2
	Colum Side	2	x	10	0.37	5.89	
	Septic tank	1	x	2	6.46	3.15	
		1	x	2	6.46	3.15	
		1	x	8	3.00	3.00	
		1	x	1	6.00	3.00	
	Drain	1x2x2x2			35.30	0.30	
		1	x	2	35.30	0.25	
		1x2x2x2			35.30	0.23	
		1x2x2x2			16.00	0.30	
		1x2x2x2			16.00	0.23	
	Apron	1	x	2	16.00	0.25	
		1	x	2	33.50	0.60	4
	Mumty	1	x	2	11.80	0.60	1
	Mumty	2	x	2	10.00	3.00	12
	Rain water hirewesting	2	x	4	4.00	3.00	9
		2	x	2	5.46	3.00	6
		2	x	2	5.00	3.00	6
	Deduction Window	1	x	16	1.80	1.35	Total 182
							3
							Net total 178
	First Floor same as above (G.F)						G Total 325
							325
14	12 mm.thick plaster with cement mortar consissing of 1 part cement and 6 part of approved coarse sand. Minimum thickness not be less than 10mm. Including supply of all materials, labours and T&P etc. required for proper completion of work. As per Sl No 586						G Total 650
	Computer Science in Engineering Department						
	Long wall	2	x	3	23.10	3.50	485
	Short wall	2	x	3	24.72	3.50	519
		2	x	2	4.20	3.50	58
		2	x	1	9.22	3.50	64
		2	x	1	5.00	3.50	35
		2	x	2	3.16	3.50	44
	Colum Side	2	x	1	4.00	3.50	28
		2	x	4	0.37	3.50	10
	LIBRARY						Total 1245
	Long wall	2	x	2	32.30	3.50	452
	Short wall	1	x	2	13.79	3.50	96
		2	x	1	12.40	3.50	86
		3	x	2	3.71	3.50	77
							Total 713
	First Floor same as above (G.F)						G Total 1958
							1958
							G Total 3917

	work minimum thickness not be less than 10mm including supply of all materials, labour and T&P etc. required for proper comletion of the work. (including racking & washing surface) Add for extra labour and material for plaster over rough face of one brick walls. As per Sl 596				Same as item No 13			6
16	Neat cement punning as per DSR 13.18							
	Computer Science in Engineering Department							
	Septic tank							
		1	x	2	6.46	3.15		
		1	x	6	3.00	3.00		
		1	x	1	3.00	3.00		
	Drain	1x2x2x2			30.72	0.30		
		1	x	2	30.72	0.25		
		1x2x2x2			30.72	0.23		
		1x2x2x2			25.00	0.30		
		1x2x2x2			25.00	0.23		
	Apron	1	x	2	25.00	0.25		
		1	x	2	28.92	0.60		
	Rain water hirewesting	1	x	2	21.30	0.60		
		1	x	2	5.46	3.00		
		1	x	2	5.00	3.00		
	LIBRARY						**Total**	4
	Septic tank							
		1	x	2	6.46	3.15		
		1	x	6	3.00	3.00		
		1	x	1	3.00	3.00		
	Drain	1x2x2x2			35.30	0.30		
		1	x	2	35.30	0.25		
		1x2x2x2			35.30	0.23		
		1x2x2x2			16.00	0.30		
		1x2x2x2			16.00	0.23		
	Apron	1	x	2	16.00	0.25		
		1	x	2	33.50	0.60		
	Rain water hirewesting	1	x	2	11.80	0.60		
		1	x	2	5.46	3.00		
		1	x	2	5.00	3.00		
							Total	46
							G Total-	95
17	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)as per DSR 2016 21.1.1.1							
	Computer Science in Engineering Department							
	Door D-1							
	DA	1	x	8	(2.10+1.21+2.10)			4
	D2	1	x	4	(2.10+1.06+2.10)			2
	D	1	x	6	(2.10+0.76+2.10)			2
		1	x	1	(2.10+1.82+2.10)			6
		37	x	2	(1.80+1.35)			233
		4	x	2	(0.91+0.45)			10
	LIBRARY						**Total**	344

Show on last cetificate	Executed upto date	Sub-Heads No.& Details No.	SUB HEAD (in red ink or underlined) as given in the estimate followed by THE DETAILS OF WORK done to date	AMOUNT Rate	Upto date	Shown on last cetitifacate	since last cetificate
2	3	4	5	6	7	8	9
635 3075.0	3547.64	(1/1)	Clearing site including uprooting bushes, leveling dressing the site and disposal of rubbish from the site of work. Sl No 259	3.00	10642.91	9225.00	1417.91
47.685 1366.817	1514.502	(2/2)	Excavation in foundation in ordinary soil (Loamclay or sand) including lift up to 1.5m and lead up to 30m. And including filling watering and ramming of excavated earth into the space between the building and the sides of foundation trenches or into the plinth and removal and disposal of surplus earth as directed by the Engineer in charge up to a distance of 30m. from the foundation trenches including all T&P basket etc. complete. as per Sl No 251.(Rates are exclusive of GST to be paid extra)	121.00	183254.74	165384.86	17869.89
9.020 639.684	818.704	(3/3)	Earth work in embankment with cartage earth upto 8km. distance in ordinary soil, excavation to be in the form of regular pits not exceeding 0.50 m. in depth and Earth work in embankment to be in 20 cm. layers, including ramming & dressing the surface to required levels and slopes and also including cost of earth supply of labour, T&P and machinary etc. required for proper completion of the work As per direction of Engineer-in-charge .	265.00	216956.56	169516.26	47440.30
0.000 278.886	278.886	(4/4)	Sand filling in plinth including supply of necessary quality if sand from a distance not exceeding 8 km from the site of work and including watering dressing etc. rate to include cost of all material, labour and I7P etc. required for proper completion of the work. Sl.No. 255	878.00	244861.91	244861.91	0.00
4.028 272.336	276.364	(5/5)	Cement concrete with 4.0 cm gauge approved stone ballast, approved coarse sand and cement in the proportion of 6:3:1 including supply of materials labour and tools plants etc. required for the proper completion of the work. As per Sl No 280	6009.00	1660671.28	1636467.02	24204.25
2.817 1132.097	1134.914	(6/6)	Mild steel or lorn work in plain work such as in reinforced concrete or reinforced brick work (when not included in over all rate) wrought to required shapes as necessary and bending for the proper coppletion of the work and including supply of steel and its wastage etc. and all labour and tools and plants required for proper completion of work Note: the steel shall be bent cold and bends hooks and authorised over lapping shall be measured. as per Sl no 504	4745.00	5385166.93	5371800.27	13366.67
5.795 259.976	265.771	(7/7)	M 20 class R.C.C. work with cement, approved coarse sand 2.0cm gauge approved stone ballast in the proportion of 1:1.5:3 R.C.C. Raft foundations and footings. etc and bed plates, excluding the supply of reinforcement and its bending but including its bending the same with 24 BWG, GI bending wire and including wire as also including providing and fixing necessary centering and shuttering and its removal after completion of work & supply cf all other materials labour and tools and plants etc. required for the proper completion of the work. (Labour rate including cost of centering & shuttering)) as per Sl No 283 (a)	7975.00	2119523.73	2073308.60	46215.13
0.000 546.742	546.742	(8/8)	M 20 class R.C.C. work with cement, approved coarse sand 2.0cm gauge approved stone ballast in the proportion of 1:1.5:3 in lintels of doors and windows etc and bed plates, excluding the supply of reinforcement and its bending but including its bending the same with 24 BWG, GI bending wire and including wire as also including providing and fixing necessary centering and shuttering and its removal after completion of work & supply of all other materials labour and tools and plants etc. required for the proper completion of the work. (Labour rate including cost of centering & shuttering) above but in R.C.C. T. beam and slab roofs and R.C.C. columns. 1.1.5.3 as per Sl 289	9645.00	5273326.59	5273326.59	0.00
0.000 52.563	52.563	(9/9)	2.5 CM thick damp proof course with cement and approced coarse sand 1:2 with and including water proofing materials as ordered by the Engineer incharge and in the proportion as specified by the manufacturers including supply of all materials labour and tools and plants etc. required for the proper completion of work and including proper curing and shuttering as necessary.as per Sl 361	284.50	14954.17	14954.17	0.00
31.171 159.389	190.56	(10/10)	M-150 brick work in 1:4 cement and coarse sand mortar of 2:25 fineness modulous mortar in foundation and plinth including supply of all materials, labour T&P required for proper completion of work. As per Sl No 305	4595.00	875623.20	732392.46	143230.75
0 460.688	460.688	(11/11)	M-150 brick work in 1:4 cement and coarse sand mortar of 2:25 fineness modulous mortar in foundation and plinth including supply of all materials, labour T&P required for proper completion of work. As per Sl No 305+310	4827.00	2223740.98	2223740.98	0.00
06.897 3027.338	3134.235	(12/12)	12 mm.thick plaster with cement mortar consissing of 1 part cement and 3 part of approved coarse sand. Minimum thickness not be less than 10mm. Including supply of all materials, labours and T&P etc. required for proper completion of work. As per Sl No 583	156.00	488940.66	472264.73	16675.93
0.000 3076.484 2987.437	3076.484 ~~2987.437~~	(13/13)	12 mm.thick plaster with cement mortar consissing of 1 part cement and 3 part of approved coarse sand. Minimum thickness not be less than 10mm. Including supply of all materials, labours and T&P etc. required for proper completion of work. As per Sl No 583	119.00	366101.60 ~~355505.00~~	366101.60 ~~355505.00~~	0.00

- The contents of columns 3 and 7 as finally Corrected and accpted in the bill if the bill as "on account"should be posted umns 2, 5 and 8of fresh memo as soon as the bill is paid space for fresh details of work being left under each sub-head. ew memo true prepared is to be transmitted at one to the officer of sub-ordinate of the officer of subordinate incharge of the work.

Shown on last cetificate	Executed upto date	No.& Details No.	SUB HEAD (in red ink or underlined) as given in the estimate followed by WORK THE DETAILS OF done to date	Rate	Upto date	Shown on last cetitifacate	since last cetificate
2	3	4	5	6	7	8	9
0.000	2474.040	2474.040	(14/14) 12mm Thick plaster with cement mortar in proportion of 1:3 cement and fine sand of 1.25 FM over brick work minimum thickness not be less than 10mm including supply of all materials, labour and T&P etc. required for proper comletion of the work. (Including racking & washing surface) Add for extra labour and material for plaster over rough face of one brick walls. As per SI 596	14.00	34636.56	34636.56	0.00
0.000	479.616	479.616	(15/15) Neat cement punning as per DSR 13.18	40.40	19376.49	19376.49	0.00
20.340	1004.250	1024.590	(16/16) Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for seperately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)as per DSR 2016 21.1.1.1	344.00	352458.96	345462.00	6996.96
162.155	835.536	997.691	(17/17) Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) as per DSR 2016 21.1.2.1	402.00	401071.78	335885.47	65186.31
11.255	92.209	103.464	(18/18) Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete Pre-laminated particle board with decorative lamination on both sidesas per architectural drawings and directions of engineer-in-charge as per DSR 2016 21.2.2	840.00	86909.76	77455.56	9454.20
17.32	283.07	300.385	19/19 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item With float glass panes of 5.50 mm thickness as per DSR 2016 21.3.2	973.00	292274.61	275427.11	16847.50
2.430	172.599	175.029	20/20 Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all	396.00	69311.48	68349.20	962.28
2.43	172.64	175.066	21/21 Supply and fixing mosquito proof jali having 5 mesh each cm. Made of 24 BWG wire heavy quality and including cost of 25x5 mm falt iron around the jali welding etc complete.AS per SOR Material 13(V)	308.00	53920.33	53171.89	748.44

	5289.58	5289.584	22/22	approved brand and manufacture such as of british, shalimar, asian paints after throughly brushing surface free from mortar droppings and other foreign matter and also including preparing the surface even also sand prepared smooth including cost of all materials. as per Sl No 649+650	70.00	370270.88	370270.88	0.00
0.000	981.83	981.829	23/25	Providing and laying "brick coba" 12 mm thick laid with M-150 class brick bats coba 7.50 cm. thick with gap of 15mm to each other over 20mm thick base of 1:4 cement and coarse sand mortar mixed with water proofing compound complete in all repect as per specification. New Item no. 1 (Chapter 11)	1110.00	1089830.19	1089830.19	0.00
0.000	455.38	455.38	24/26	Supply and fixing Ist quality ceramic glazed wall tile (Bell/ Kajaria/Somany) conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except brugundy bottle green, black skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1cement :3 coarse sand) and jointing with grey cement slurry j@ 3.3 kg per sqm , including pointing in white cement mixed with pigment of matching shade complete. (size of 300x450mm rectified tile. as per DSR No 11.36	720.00	327873.60	327873.60	0.00
26.525	1478.971	1505.496	(25/27)	Providing and laying vitrified floor tiles in different size (thickness to be specified by the manufacturer) with water abosorption 's less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar (1cement :4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. DSR 11.41.2 (size of tiles 600x600mm) dark shade DC-1	1085.00	1633463.16	1604683.54	28779.63
0.000	929.843	929.843	(26/28)	Providing and injecting chemical emulsion for preconstructional antitiermite treatment and creation a chemical barrier under and around the column pits, wall trenches, basement excavation top surface of plinth, filling junction of walls and floors, along the external perimetre of building, expanion joints surrounding of pipes and conduit etc. complete plinth area of the building at ground floor only shall be measured as per Is 6313 (Part II 1981) Aldrine emulsifiable concentrate or any other approved material such a chloropyriphos or Heptrachlor or chlordance will be used. A.T.T. Item 1(i - v)	191.50	178064.93	178064.93	0.00
1.850	0.000	1.850	(27/29)	Mild steel and iron work in highly size such as trusses builits upgrades door , frame , records crack roof works , gates etc. wrought to required from including drilling holes rivbetting or welding where neccsary and also including supply or steel bolts ,nuts, etc. and their fixing required for proper complextion of the work	5100.00	9435.00	0.00	9435.00
15.000	0.000	15.000	(28/30)	Providing and fixing of Under counter basin size 195x600x425mm of Jaquar including supply of all material labour T&P etc. required for proper completion of the work.(Cat No. CNS-WHT-WB03) DSR 17.25.1	3188.00	47820.00	0.00	47820.00
19.000	0.000	19.000	(29/32)	Providing and fixing of Waste coupling 32 mm size full thread with 130mm height (Jaquar make) including supply of all material labour T&P etc. required for proper completion of the work.(Cat No.ALD-705L130) DSR 17.69.2	540.00	10260.00	0.00	10260.00
48.000	0.000	48.000	(30/34)	Providing and fixing of C.P. Angular stop cock with wall flange (Jaquar make) including supply of all material labour T&P etc. required for porper completion of the work.(Cat NoVGP-CHR-81053) DSR 18.53.1	1136.00	54528.00	0.00	54528.00
14.000	0.000	14.000	(31/36)	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid 10 litre low level white P.V.C. flushing cistern including flush pipe, with manually controlled device (handle level) , conforming to IS: 7231 with all fitting	4045.00	56630.00	0.00	56630.00
24.000	0.000	24.000	(32/37)	Providing and fixing of C.P brass angle valve two way long therad 15 mm dia L& K make code no. 0077A including supply of all material labour T&P etc. required for proper completion of the work DSR 18.53.1	1300.00	31200.00	0.00	31200.00
14.000	0.000	14.000	(33/38)	Providing and fixing of C.P. Toilet Roll Holder with flap (L&K make) including supply of all material labour T&P etc. required for porper completion of the work. DSR 18.65	1100.00	15400.00	0.00	15400.00
15.000	0.000	15.000	(34/39)	Supply and fixing of C.P towel ring fixed with plastic sleeves C .P Screws etc. required for proper completion of the work. DSR 17.72	1800.00	27000.00	0.00	27000.00
6.000	0.000	6.000	(35/40)	Providing and fixing of Urinal size 710x480x300mm (Cat No. URS-WHT-0704) with sensor(Cat No. SNR-51097) (Jaquar make) including supply of all material labour T&P etc. required for proper completion of the work. DSR 17.80	15400.00	92400.00	0.00	92400.00

0	0.000	34.000		mm inlet and 100mm outlet Sand Cast Iron S&S.It	470.00	15980.00	0.00	15980.00
28.300	88.82	138.120	(37/42)	Providing and fixing PVC pipes 150mm dia (6 Kg per Sqm) for sewer line including all fitings including trenching refilling & testing of joints complete as per direction of Engineer-in-charge. (External work) DSR 18.6.11	520.00	71822.40	46186.40	25636.00
16.050	118.10	134.150	(38/43)	Providing and fixing PVC pipes 110mm dia (6 Kg per cm2) for sewer line including all fitings including trenching refilling & testing of joints complete as per direction of Engineer-in-chages. DSR 18.6.10	410.00	55001.50	48421.00	6580.50
226.350	0.00	226.350	(39/44)	Providing and fixing PVC pipes 75mm dia (6 Kg per Rmt) for sewer line including all fitings including trenching refilling & testing of joints complete as per direction of Engineer-in-charge. DSR 18.6.8	230.00	52060.50	0.00	52060.50
427.000	49.05	476.050	(40/45)	Providing & Fixing of 25mm. dia. G.I. Pipe 'B' Class with G.I. fittings I.S.I. marked and clamps including cutting walls, floors and making good the same including supply of all materials, labour, T&P etc. required for proper completion of the work. D	270.00	128533.50	13243.50	115290.00
277.750	83.34	361.090	(41/46)	Providing and fixing of 20mm dia G.I. pipes complete with G.I fittings and clamps, including cutting and making good the walls etc. (External work).DSR 18.10.2	300.00	108327.00	25002.00	83325.00
14.000	0.000	14.000	(42/48)	Supply and fixing of P.V.C low level cistern (Hindware make Sleek fresh ISI) with all internal fittings M.S. bracket, P.V.C connection 450mm long, C.P. angle valve 15mm dia, (Hindware/parryware make Cat No. F280004	2850.00	39900.00	0.00	39900.00
14.000	0.000	14.000	(43/50)	Providing and fixing of C.P. Soap dispenser with metallic bottle (Jaquar make) including supply of all material labour T&P etc. required for porper completion of the work.(ACN-1137 N) DSR 17.71	2740.00	38360.00	0.00	38360.00
14.000	0.000	14.000	(44/51)	Constructing brick masonary manhole in cement mortar 1:3(cement :3 coarse sand) R.C.C top slab with 1:1½:3mix (1cement:1½ coarse sand:3 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8	8330.00	116620.00	0.00	116620.00
31.830	0.000	31.830	(45/53)	Supply of Aluminium Tower bolt with 10 mm dia 150 mm long as per item no 8(a) 3	387.00	12318.21	0.00	12318.21
145.000	0.000	145.000	(46/54)	Supply of I.S.I. marked Aluminium door handle with 10 mm dia 100 mm long as per item no 8(c) 1	44.00	6380.00	0.00	6380.00
168.000	0.000	168.000	(47/55)	Supply of I.S.I. marked Aluminium door handle with 10 mm dia 150 mm long as per item no 8(c) 2	60.00	10080.00	0.00	10080.00
24.830	0.000	24.830	(48/56)	Supply of I.S.I. Marked Iron Hinges 75 mm long as per item no 11(a)	96.90	2406.03	0.00	2406.03
19.000	0.000	19.000	(49/57)	Supply of I.S.I. Marked Iron Hinges 100 mm long as per item no 11(b)	181.80	3454.20	0.00	3454.20
18.240	0.000	18.240	(50/58)	Supply of Iron screws 35 mm as per item no 11(k)	54.50	994.08	0.00	994.08
36.160	0.000	36.160	(51/59)	Supply of Iron screws 25 mm as per item no 11(l)	65.50	2368.48	0.00	2368.48
54.000	0.000	54.000	(52/61)	Supply of Aluminium door stoper as per item no 8(D)	50.50	2727.00	0.00	2727.00
139.860	990.563 1130.423		(53/62)	Providing and laying of factory made 80 mm thick rubber moulded interlocking cement concrete tiles (30mpa) including 25mm thick compacted bed of fine sand compacting and proper embedding/ laying	805.00	909992.05 797403.225	~~352892.68~~	112587.30
4000.000	0.000	4000.000	(54/63)	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow	6.00	24000.00	0.00	24000.00
0.000	1402.15	1402.153	(55/64)	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/ cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture	1452.00	2035926.16	2035926.16	0.00
15.000	0.000	15.000	(56/65)	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.As per D.S.R. 17.31	792.00	11880.00	0.00	11880.00

	438.38	460.571	(57/66)	counters, wi[illegible] and similar locations of required size, approved [illegible] laid over 20mm thick base cement mortar [illegible] and) joints treated with white cement,	3249.00	1496395.18	1424283.62	72111.56
00	53.51	53.511	(58/67)	Proving [illegible] steel shutters with vertical channels [illegible] of T iron 40x40 x 6 mm arrangen[illegible] standards with bolts, nuts locking coat of [illegible] complete including applying a priming	3610.00	193174.71	193174.71	0.00
Items								
0.000	7807.70	7807.696	1	Providing [illegible] putty of average thickness of approxi[illegible] as per item no 13.80	83.00	648038.77	648038.77	0.00
27.000	27.00	54.000	2	Supply [illegible] cover equivanletn ane per direction of E/[illegible]	1100.00	59400.00	29700.00	29700.00
8.000	2.00	10.000	3	Supply [illegible] Mark heavy quality as per direction of E/[illegible]	2500.00	25000.00	5000.00	20000.00
108.170	0.000	108.170	4	[illegible] thick marbl stone as per dsr 2016 [illegible]	138.90	15024.81	0.00	15024.81
9.241	47.02	56.258	5	Grani[illegible] 400/1 [illegible] by mix in placed method (table	4300.00	241909.40	202173.10	39736.30
6.600	64.45	71.050	6	S[illegible] system passive 55- 304 grade [illegible] Chapter-1	3800.00	269990.00	244910.00	25080.00
0.000	206.60	206.603	7	[illegible] floor with cement approve corse [illegible] stone single plate as sl no 606	410.00	84707.23	84707.23	0.00
0.000	2518.11	2518.112	8	[illegible] at the rate of 1.67 liter for 1 0 sqm over as [illegible]	92.00	231666.30	231666.30	0.00
				Total		~~30977219.82~~	~~28108560.73~~	~~2668669.08~~
					3123238.576	2956367.875	1668670.08	
				Say	3123238=00	~~2956368=00~~	~~1668670=00~~	
				Below 5.50% (-)	171779=00	162602=00	91777=00	
				Total value of work done	2951459=00	2793766=00	1576893=00	
				Ad 11.83 + 12% (+)	354174=00	335252=00	189227=00	
				Deduct as per details on reverse(for final bill only)	~~2986879=00~~	3129018=00	1766120=00	
				Net value of work to be paid for	3305636=00			

The work above entered have been satisfactory executed and all materials delivered.The necessary measurement have been made by.....us.....are clearly record with the date on which they were made on page.....~~168147~~.....of 168-176

Measurement Book No.....177/L.....*a verbatim certified extract from which accompanies this Memo the bill new will be a**

Date.6/11/2020.....

Witnesses of Contractor's (1).....

Signature of work (2).....

Incharge of the work

Signature of Contractor

*The portion in italies to be struck out when the Measurement Book is submitted.

Here enter final bill on Account

Memorandum of payments	AMOUNT	COPY OF CONTRACTOR'S RECEIPT
of previous payment from last certificate Of ..... Rs. P. By Cash 212421=00 heque No. ..... alue of stock supplied s etc.as noted in ails on the reverse		Receipt 1766/2020 .....as per detail in the date.....signed..... Rs witness to contractor Signature of Work signed..... Ture Copy
Total payments now made	3305630=00	
Total payments to date	31290180=00	
Total value of work done	1766120	
Balance due		

Detail number of bill	Reference by Head Clerk. (To be continue half margin_on foolscape in necessary)	Order by Disbursing officer
	AE To the submitted of 10th/~~Final~~ bill of Construction of Library extension building and new laboratory building of Computer Science and Engineering department in Madan Mohan Malviya University of Technology Gorakhpur Campus. For passed and next necessary action . सं०अ० कार्य पूर्ण एवं संतोषजनक है एवं देयक से नियमानुसार कटौती कर ली गयी है। अतः देयक रु० 1766120=00 मात्र का पारित कर भुगतान हेतु प्रेषित है। AEII	