

Approximate estimate of renovation and extension work of faculty room in JIST, Jorhat-10
Estimate is prepared as per PWD SOR 2013-14

SL No	Description of the work	Unit	quantity	Rate	Amount
1	DISMANTLING				
1.1	Dismantling all types of ceiling, partition and wall lining and stacking the materials as directed by the department for all levels Area= 14.4 m x 3.2m=	Sqm	46.08	17.26	795.34
1.2	Dismantling wood work in frames, trusses, purlins and rafters including stacking the materials as directed by the department for all levels. window= 8 x 1.1m x 0.12m x 0.11m cum= 0.126 Cum Door= 2 x 2.1m x 0.12m x 0.11m= 0.055 Cum	Cum	0.181	716.52	129.69
2	Earthwork				
2.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
	(A) Up to a depth of 2.00m below the existing ground level.				
	(a) In ordinary soil Volume= 3 x 1.2m x 1.2m x 1.5m	Cum	5.184	108.82	564.12

2.2	Shuttering and shoring the earth at different levels in foundations where necessary with required prop, struts, planks, timbers, nails etc. including dewatering if necessary, complete as directed and specified (measurement to be taken in the face area timbered)				
	(a) Upto a depth of 1.5 metre	Cum	5.184	75.38	390.77
2.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading. Volume= 14.4m x 3.5m x 1m	Cum	50.4	345.61	17,418.74
3	Masonry work				
3.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.				
	(a).Brick on flat soling. 1) Area= 3x 1.2m x 1.2m 2) Area= 14.4m x 3.5m	Sqm	54.72	368.71	20,175.81
3.2	230mm thick brick wall in cement mortar with 1st class brick including racking out joints and curing complete as directed in structure				
	(I) In Sub-structure upto plinth level including dewatering if necessary				

	(a). In proportion 1:3. 1) Area= 2 x 1m x 3.5m 2) Area= 1m x 14.4m 3) Area= 2x 1m x 3.5m 4) Area= 2x 1mx 3.6m	Sqm	35.6	1390.26	49,493.26
	(A) 112mm thick brick wall				
	(II) In superstructure above plinth level up to 1st floor level.				
	(a). In proportion 1:4 1) Area= 2 x 3m x 3.5m 2) Area= 3m x 14.4m 3) Area= 2x 3m x 3.5m 4) Area= 2x 3mx 3.6m	Sqm	106.8	653.01	69,741.47
4	Plastering				
	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.				
	A) On rough side				
	a) In cement mortar 1:3 1) Area= 2 x 3m x 3.5m 2) Area= 3m x 14.4m 3) Area= 2x 3m x 3.5m 4) Area= 2x 3mx 3.6m	sqm	106.8	167.05	17,840.94
	B) On fair side				
	a) In cement mortar 1:3 1) Area= 2 x 3m x 3.5m 2) Area= 3m x 14.4m 3) Area= 2x 3m x 3.5m 4) Area= 2x 3mx 3.6m	sqm	106.8	165.52	17,677.54
5	Cement Concrete Work				
	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				

	(A) In substructure up to plinth level				
	b) M20 grade concrete or Prop. 1:1.5:3 Footing= 6 x 1.2m x 1.2 x 0.6	Sqm	5.184	6063.65	31,433.96
	(B) In super structure from plinth level up to 1st floor level.				
	ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
	b) M20 grade concrete or Prop. 1:1.5:3 Column= 6 x 3.4m x 0.2m x 0.2m Lintel= 14.4m x 0.15m x 0.2m +3 (3.5m x 0.15m x 0.2m)+ 3.6m x 0.15m x 0.2m	Cum	1.671	6331.46	10,579.87
6	Flooring and floor finish				
6.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete. Area= 7.6m x 3.5m	Sqm	26.6	717.19	19,077.25
6.2	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)				
	a) Normal range Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make				
	i) Of size 400mmx400mm and above Area= 6.8m x 3.5m	Sqm	23.8	1712.5	40,757.50

6.3	<p>Providing polished vitrified wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (coloured pigment should be in conformity with colour of tiles and as approved and directed by the department).</p>				
	i) Of size 300mmx450mm and above Area= 3 x (3.6m x 1.2m) + 3.5m x 1.2m	Sqm	17.16	1311.67	22,508.26
7	Steel and Iron Work				
7.1	<p>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)</p>				
	a) From Primary Producer: TATA/SAIL/Esser Steel/ Jindal steel/Shyam steel/RINL				
	(ii)Super Ductile (SD) TMT reinforcement bars	Qtl	5	6902.86	34,514.30

7.2	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated using MS circular hollow section conforming to relevant I.S. code, as per approved design and drawings including providing M.S. cleats, base plates, bolts and nuts and one coat of red oxide Zinc Chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. for fixing ceiling joists as per design and drawing as directed.				
	a) TATA make Circular Hollow section-CHS of Grade YST-310 conforming to I.S. Specification : 1161-1998	Qtl	8	8839	70,712.00
9	ceiling of 9.5mm thick Area= 14.4m x 3.5m	Sqm	50.4	1214.8	61,225.92
10	Roofing				
	Providing corrugated galvenised Iron sheet roofing of TATA SHAKTEE / SAIL including fitting and fixing necessary galvenised J or L hooks, bolts and nuts 8 mm dia with bitumen washer 25 mm dia x 3 mm thick and 1.6 mm thick limpet washer complete excluding cost of roof truss, purlin etc. (Roof trusses and purlin etc.to be measured and paid separately).				
	(a) 0.45 mm thick Area= 15.2m x 4.2 m	Sqm	63.84	450.45	28,756.73
11	Aluminium				
	Partition walls				
	Providing, fitting and fixing anodised aluminium partition walls of standard sections of approved brand, joints mitred and welded (manufactured to relevant I.S. specification) and providing and fitting angle cleat, rubber gasket, bolting device screws etc. at all levels.				
	Area= 20 x 3m x 2m	Sqm	120	3593.12	4,31,174.40
	Total				9,44,967.87
	Add 30% premum for 2017-2018				2,83,490.36
	A) Total Civil Work				12,28,458.23
	B) Other works				
	Add Internal water supply @5%				61,422.91
	Add senitary Installation @ 8%				98,276.66

	Add for internal Electrification @9%				1,10,561.24
	Sub Total(B)				2,70,260.81
	Total(A+B)				14,98,719.04
	C)Miscellaneous				
	For Supervision @ 2%				29,974.38
	contingency @3%				44,961.57
	Sub Total(C)				74,935.95
	Total Cost of construction (A+B+C)				15,73,654.99
					15,73,655.00
	Fifteen Lakh seventy three thousand six hundred fifty five only				