

**DETAILED ESTIMATE FOR REPAIR AND RENOVATION OF TYAG KHETRA,
UNDER 15TH FINANCE COMMISSION, NORTH LAKHIMPUR, ASSAM.**

Total Amount Rs.39,60,123.00

Sl. No.	Description	Unit	qty	Rate	Quoted Rate	Amount in Rs.
1 (1.1)	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 depth of 2m below the Existing G.L.a) In Ordinary Soil.	M ³	77.26	116.44		
2. (4.1.1)	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 soiling	M ²	102.75	394.52		
3. (2.2.1)	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) (I) Using Mixture machine	M ³	19.484	7065.22		
	A) In Sub-Structure upto plinth level 1. Foundation Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.			0.00		
	c. In M25 grade in foundation of columns			0.00		
	2) Column upto plinth			0.00		
	3) Tie Beams (Longitudinal)			0.00		
	B. In Super Structure 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. in M25 Grade			0.00		
	1) Columns above plinth	M ³	11.07	7357.41		
	b. In M20 grade	M ³	0.38	6774.66		
4. (3.1.1)	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work with 25mm planks		0	0.00		
	1) Column base	M ²	76.88	269.90		
	2) Column upto plinth		0	0.00		
	3) Tie Beams Sides (Longitudinal)	M ²	53.1	365.83		
	5) Columns above plinth	M ²	78.24	389.49		
	9) Roof Beams Sides (Longitudinal)	M ²	66	216.61		
5. (18.1.1)	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)	Qtl	10.25	7386.06		
	A) a) From Primary Producer: TATA/SAIL/JSW Neosteel/ JSPL/Shyam					
	4. 12MM Bars 0.89 KG/M)					
	a) For Columns					
	b) Tie Beams (Longitudinal)					
	c) Roof Beams (Longitudinal)					
	2. 10MM bars (0.62KG/M)	Qtl	0.37	7386.06		
	a) For Base Jalli			0.00		

	4. 8MM bars (0.38KG/M	Qtl	0.91	7386.06		
	b) Lintel Beams (Longitudinal)			0.00		
	b) Column Stirrups	Qtl.	19.29	7386.06		
	c) Tie Beams (Longitudinal)			0.00		
	d) Roof Beams (Longitudinal)			0.00		
6. (4.1.6)	230mm thick brick wall in cement mortar with 1st class brick including racking out joints and curing complete as directed in structure in prop 1:4	M2	43.2	1442.20		
	(l) In Sub-structure upto plinth level					
	b) in prop 1:4					
	a) Base Walls(Longitudinal)					
	b) Base Walls(Transverse)					
7. (1.3)	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.	M ³	79.1	369.80		
	(c) With river sand or silt (predominantly non plastic) by truck carriage					
8. (5.1.4)	65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.	M ²	72	546.88		
	a) Flooring before tiling					
10. (6.2.2)	15mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st. floor level including arises, internal rounded angles not exceeding 80mm girth and finish even and smooth including curing complete as directed. b) in cement mortar 1:4	M ²	10.8	157.54		
	1)Total Wall Plastering					
	2)Total column Sides Plastering					
11. (13.3.1)	Providing surface preparation for walls, ceiling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.	M ²	10.8	64.87		
	1)Total Wall Plastering					
	RIDGING (REAR SIDE)					
12. (8.1.34)	Providing Pre Painted Galvanized Iron Sheet (PPGI) accessories (Ridges / Valley / Gutter /Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement	m	30	357.20		
	(a) 0.40 mm thick					
13. (9.2)	ROOF TRUSS (REAR SIDE)					
	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.	Qtl	5.6	9457.73		
	a) TATA make Circular Hollow section- CHS of Grade YST-310			0.00		
14.	ROOFING (REAR SIDE)	sqm	81	607.18		
	Providing Bare Galvalume Sheet Roofing at all levels including fitting and fixing self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement					
	0.40 mm thick					
14.	BEAMS AND JOISTS (STAGE)	Qtl	8.28	7083.40		

	Structural steel work in single sections including cutting, hoisting, fixing in position and applying a priming coat of red lead paint (up to 4.6m height) from plinth level including drilling holes, supplying, fitting and fixing with bolts and nuts or welding, if necessary as directed.					
	b) In flat up to 25mm thickness					
14.(5.4.3)	WOODEN FLOORING (STAGE)	m ²	128	3707.55		
	Wooden planking in flooring including fixing to wooden base frame with necessary wood-screws complete (base of the wooden frame to be measured and paid separately.) (d) 38mm thick Sal wood plank, butt jointed					
1.(4.1.4)	BRICKWORK UPTO PLINTH					
	Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed.					
	(l) In Sub-structure upto plinth level					
	b) in prop 1:4					
	1. GROUND FLOOR	M ³	46.45	6271.12		
3.(4.1.1)	BRICK SOLING					
	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. GROUND FLOOR	M ²	15.44	394.52		
4.(2.1.1)	P.C.C (1:3:6)					
	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).					
	a. In ratio 1:3:6					
	1. GROUND FLOOR	M ³	3.48	4593.36		
5.(5.1.10)	PLASTERING UPTO PLINTH					
	Cement plaster skirting with cement mortar in prop. 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement including rounding of junctions with floor.					
	(b) 20 mm thick					
	1. GROUND FLOOR	M ²	9	284.30		
6.(6.2.2)	15 MM PLASTER					
	15mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st. floor level including arises, internal rounded angles not exceeding 80mm girth and finish even and smooth including curing complete as directed.					
	b) In cement mortar 1:4					
	1. GROUND FLOOR	M ²	151.65	155.90		
7.(6.2.7)	Extra over item no 6.2.1 to 6.2.3 for exterior plastering over wall up to a height of 1st floor level above ground level including curing complete as directed.					
	a) On Single coat plaster					
	1. GROUND FLOOR	M ²	18	4.10		
8.(6.2.1)	10 MM CEMENT PLASTER					
	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.					
	b) In cement mortar 1:4					
	1. GROUND FLOOR	M ²	20.4	125.03		
9.(13.2.3)	PRIMER					
	a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.					
	1. GROUND FLOOR	M ²	16	43.51		
10.(13.4.1)	INTERNAL PAINTING					

	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.papered smooth.					
	(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)					
	1. GROUND FLOOR	M ²	16	76.15		
11.(5.7.2.2)	VITRIFIED TILES (WALL)					
	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).					
	i) Of size 300mmx450mm and above					
	1. GROUND FLOOR	M ²	400	1122.78		
12.(19.4)	DRAIN					
	Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shuttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.					
	1. GROUND FLOOR	M ²	390	1122.78		
2. (9.1.2)	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.	M ³	0.37	82897.18		
	b. With 1st class timber		0	0.00		
3. (9.12.1)	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevant I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws.	M ²	7.31	3199.91		
	a) Decorative type face panel and block board core. 35mm thick					
4. (5.7.1.1)	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 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 the shade of granite slab, complete at all levels as specified and directed (coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).	M ²	22.05	727.60		
	a) Normal range Somany/ Orient/Nitco /Asian Make of 300 x 300			0.00		
5. (5.7.1.1)	Providing polished ceramic 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. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls).	M ²	54	684.80		
	a) Normal range Somany/ Orient/Nitco /Asian Make of 200 x 300					

6. (13.5.1)	Applying one self-priming coat of acrylic emulsion coating of Unicem "Rakshak" brand by thinning 1ltrs of paints with 1ltrs of water over freshly plastered wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth as specified and directed by the department.	M ²	178	56.35		
7. (13.5.2)	Finishing wall with two coats of acrylic emulsion exterior coatings of Unicem "Rakshak" brand of required shade by thinning 1ltr. of paint with 750ml of water to give an even shade after thoroughly brooming the surfaces to remove all dirt and remains of loose powdered materials as specified and directed by the department.	M ²	46.75	91.77		
8. (13.2.1)	a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	M ²	45	43.51		
9. (13.3.1)	Providing surface preparation for walls, ceiling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making the surface even and smooth complete at all levels as specified and directed.	M ²	45	64.87		
10. (13.4.1)	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.papered smooth.	M ²	45	76.15		
	(a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)		0	0.00		
11. (13.6.3)	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and stopping.	M ²	11.82	39.48		
	(a). With ready mixed paint , Wood primer (pink)					
12. (13.6.5)	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.	M ²	5.18	78.11		
	b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).					
13. (19.1)	Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg.of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floating coat of neat cement finished..	M ²	11.7	366.80		
2. (4.1.1)	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.	M ²	87.5	394.52		
	a) Brick on flat soiling					
	a) For Foundation and Tie Beams					
3. (2.1.1)	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).	M ³	9.54	4162.95		
	a) in prop. 1:4:8, a. Foundation					
7. (13.9.2)	Finishing old/ new wall with water proofing weather coat smooth anti-fungal exterior painting of Apex brand of Asian Paints and of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	M ²	133.65	136.51		
8. (1.4)	Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, dressing etc. complete including paying necessary forest royelty, sales tax, land compensation, municipal gate fees, if any monopoly duty etc. (profile measurement to be taken and 12.5% deduction for shrinkage to be made from total quantity) etc. complete as directed and specified.	M ³	42	224.91		
	(b) Other than Guwahati city		0	0.00		

16. (13.7)	Providing and laying of inter locking concrete block pavement (ICBP) with cement concrete paver blocks as per IS 15658-2006 of thickness 80mm and 28 days compressive strength not less than 40 N/m over a layer of bedding sand of compacted thickness 30mm, laid either in stretcher/ running/ herringbone pattern of bonds as directed by the engineer and in proper level and grade and compacted with appropriate equipment such as plat vibrator along with spreading of a thin layer of joint filling sand to fill up the gaps between blocks including construction of edge restraint wherever required complete as per drawings and Technical specification clause 1504 of MORD.	M ²	315	1003.32		
	BRICKWORK : 115 BRICK WALL		0	0.00		
4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately) 115mm thick wall					
	15 MM PLASTER	M ²	2.4	698.72		
13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).					
	IRON GATE	M ²	6.64	78.11		
17.12	Supplying, fitting and fixing double leaf heavy duty iron gate, frame made from 40mm x 40mm x 6mm M.S. angle and with M.S. flat of 40mm x 6mm size as per approved design.Necessary locking arrangement for temporary closing the gate and 2nos.(minimum) strong iron hinges of M.S bars and flat of same sizes on each leaf to be embedded in C.C brick pillars as necessary including a red oxide painting to all iron works as directed and specified.(Separate payment will be made for posts).		0	0.00		
	STATUE TILES	QNTL	6	7284.81		
8.1.33	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). i) Of size 300mmx450mm and above					
	STATUE RAILINGS	M ²	72	1122.78		
18.9.1	Providing and fixing Stainless Steel (Grade 304) railing made of hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature(wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i.e. fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineer in charge.(For payment, only weight of stainless steel member is to be considered. No extra payment for fixing accessories such as nuts, bolts, fasteners etc. will be considered)	m	43.2	623.07		
1. (1.2)	Providing fitting and fixing vitreous china pedestal type water closet (European type W.C pan 400mm high) with seat and lead ,CP brass hinges and rubber buffers , CI/MS brackets , 40 mm dia flush band with fittings including painting of fittings and brackets, required. (Flushing Cistern to be paid separately)					
	B) Hindware make a) White	no	5	5513.86		
2. (1.5)	Supplying, fitting and fixing PVC flushing cistern with all internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. complete as directed and specified (pipes will be measured separately)					
	ii) Hindware make a) White					
	(i) Sleek+ PVC cistern					
	1					

	Total	nos	5	2023.19		
3. (1.13.1)	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately)					
	PEDESTAL BASIN (with pedestal)					
	B) Hindware make a) White					
	(iii) Constellation " 5 (Cat. No.10032/11010)					
	Total	nos	4	4930.91		
4. (1.32)	Providing, fitting and fixing Chrome Plated waste coupling complete as directed and specified.(a) Jaquar Make					
	(i) 32mm (HT/FT) (Cat.No.ALD-705 / 709)					
	Total	nos	4	433.52		
5. (1.37.1)	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including joining ,fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified. a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	8	674.96		
	(iv) 75mm dia.					
	Total	nos	8	357.33		
	(vi) 50mm dia					
	Total	nos	7	188.02		
6. (1.37.2)	Supplying, fitting and fixing 87.5 degree PVC bend of (Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	6	674.96		
	(iv) 75mm dia.					
	Total	nos	6	357.33		
	(vi) 50mm dia					
	Total	nos	6	188.02		
7. (1.37.3)	Supplying fitting and fixing 87.5 degree PVC bend with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	6	674.96		
8. (1.37.4)	Supplying fitting and fixing 45degree PVC bend of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	6	205.85		
9. (1.37.5)	Supplying fitting and fixing PVC Plain single tee of (Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	6	298.27		
	(iv) 75mm dia.					
	Total	nos	6	189.06		
	(vi) 50mm dia					
	Total	nos	6	144.24		
10. (1.37.6)	Supplying fitting and fixing PVC single tee with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(ii) 110mm dia.					
	Total	nos	5	379.49		
11. (1.37.13)	Supplying fitting and fixing PVC coupler of (Supreme / Prince)or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					

	(i) 110mm dia.					
	Total	nos	5	142.83		
12 (1.37.14)	Supplying fitting and fixing PVC coupler of (Supreme / Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(iv) 110 mm x 75mm					
	1	nos	2	201.65		
13. (1.37.15)	Supplying fitting and fixing PVC reducing Tee of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(iv) 110 mm x 75mm					
	1					
	Total	nos	3	536.34		
14. (1.37.17)	Supplying fitting and fixing PVC socket plug of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. in exposed surface or trenches as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches.					
	(a) 110 mm					
	1					
	Total	nos	2	169.45		
	(b) 75mm					
	Total	nos	2	147.05		
15. (1.39)	Providing fitting and fixing PVC cowl of ISI make complete as directed and specified. a) In exposed surfaces or in trenches.					
	(b) 75mm					
	Total	nos	2	142.83		
16. (1.42)	Providing fitting & fixing C.P. Grating to the floors complete as directed					
	(b) 110mm					
	Total	nos	8	275.91		
17. (1.47)	Construction of filter bed in soak pit including earth work in excavation of soil and then filling up of the trench with brick bats/Charcoal covered with earth over a layer of A.C. plain sheet above brick bat filling complete as directed. (sizes of soak pit may vary depending on the sizes and capacities of the septic tank as well as the number of users as mentioned in the table.					
	Total	nos	4	4076.76		
1. (3.1.6)	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe					
	(B) Concealed pipe with cutting chases & making good the walls		0	0.00		
	a) 15 mm nominal outer dia pipe	Rm	40	179.16		
	b) 20 mm nominal outer dia pipe	Rm	10	205.37		
2. (3.2.1)	Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand as directed and specified. (G.I. & C.P pipes will be measured					
	Jaquere make (a)Continental /Clarion					
	(i)Standard	Nos	2	838.71		
	(iii)2-Way bib cock	Nos	6	1119.42		
3. (3.5.1)	Supplying and fitting fixing C.P. pillar cock of 15mm dia of approved brand as specified and directed.					
	Jaguar make					
	(a) Continental	Nos	5	689.32		
4. (3.3.1)	Supplying fitting and fixing stop-cock of approved brand of size as mentioned below and directed and specified (G.I. & C.P. pipes will be measured and paid separately)					
	(v) 50mm dia	Nos	2	734.22		
5. (3.3.2)	Supplying fitting and fixing chrome plated (C.P.) stop-cock of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately)					
	Jaguar make					
	(ii)15mm dia(Angular stop cock)	Nos	4	807.52		
8.	Supplying and fitting ball valve as specified and directed..					
	b) 20mm dia. (gun metal/Copper)	Nos	2	584.51		

9. (5.1.1)	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed (External Water Supply)					
	C) CPVC pipe with CPVC fittings (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)					
	iii) 25mm (OD) diameter	Rm	15	157.50		
	iv) 32 mm diameter	Rm	10	199.92		
1. (4.1.1)	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed					
	C) CPVC pipe with CPVC fittings (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)					
	iii) 25mm diameter	Rm	20	157.50		
2. (5.3.4)	Labour for boring hole for inserting tube well pipes through different soil/ rock media including hire charges of drill pipes, scaffolding, tools and plants as necessary and taking out the same and lowering pipes, fittings complete as directed by the Department.					
	ii) Bore hole of 100mm diameter	Rm	15	462.74		
3. (5.3.5)	Supplying, fitting and fixing pipes plain/bevel ended for casing, conforming to relevant IS codes of practice including supplying and fitting of tube well accessories, lowering of assembly pipes concentrically in the borehole followed by supplying and packing of pea gravel free from dirt, dust and other foreign materials in the annular space between the borehole and assembly pipes complete as directed by the Department.					
	G.I. pipe					
	iv) 100mm diameter	Nos	6	1437.01		
4. (5.3.6)	Supplying, fitting and fixing suction pipes plain/bevel ended, conforming to relevant IS codes of practice including supplying and fitting of accessories, lowering of assembly pipes concentrically in the casing pipes complete as directed.					
	B) PVC PIPE SUPREME / PRINCE / FUSION /SFMC Brand					
	i) 25mm diameter	Nos	12	198.09		
5. (5.3.10)	Supplying fitting and fixing ISI approved PVC filter 3.00 metre long.					
	1	Nos	1	199.29		
6.	Supplying fitting and fixing check valve (non return valve) including					
	i) 25mm diameter	Nos	1	723.62		
7. (5.4.2)	Supplying and placing plastic cylindrical vertical cloused top (PCVC) tank of Sintex / Polycon / Patton make over the staggng with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes					
	2000 Lt capacity					
	(a) Sintex make	Nos	2	14642.95		
8. (5.4.5)	Labour for erecting and placing PCVC Tank over the staggng up to a height of 5.00m complete as directed.					
	2000 Lt capacity	Nos	2	1124.57		
2.1	Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/ MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete					
2.1.1	Short point up to 3.00 metre. length.	Each	6	692.29		
2.1.2	Medium point up to 6.00 metre. Length.	Each	6	980.12		
2.1.3	Long point up to 10.00 metre. Length.	Each	9	1397.42		

2.10	Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and fan.	Each	4	144.45		
2.7	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.					
2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre	11	201.16		
2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Mtr	22	53.50		
SB8.13	Supplying including and fixing of following Metal boxes for MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) in surface/ recessed system complete as per direction of department.					
SB. 8.13.4	6 module type Metal	Each	7	196.88		
SB. 8.13.5	8 module type Metal	Each	7	223.63		
SB8.14	Supplying including fitting and fixing of following MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) front plate of suitable colour as per direction of department.					
SB. 8.14.5	6 module	Each	7	187.25		
SB. 8.14.6	8 module	Each	7	261.08		
SB8.4	Supplying including installation of socket outlet 10/16 Amps 3/5 pin combine shuttered complete , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	Each	22	282.48		
SB8.10	Supplying with fitting and fixing of 6/10 amp one way modular clip in switch with LED , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	Each	13	178.69		
22.1	Supply, installation & testing of Copper Plate earth station with 600 mmx600 mmx3 mm copper earth plate with necessary 40 mm dia. G.I. medium duty watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm C.I. hinged cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .	Each	3	14143.26		
22.13	Extra for using salt 5 Kg and Charcoal 96 Kg in G.I./Copper plate Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the deptt .	Each	3	4372.02		
22.16	Supplying & laying of 8 SWG Copper. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	Metre	15	111.28		
22.19	Supplying & laying of 8 SWG Copper earth drawn through 15 mm dia. Medium quality G.I. pipe from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	Metre	15	274.99		
ECBC 3.2	Supplying with fitting and fixing of T 5 luminaries complete with all accessories such as ballast, starter etc. directly on wall / ceiling including connection cable, as approved by the Deptt. with 1.5 sq mm P.V.C. insulated S.C.copper conductor as required and as directed by the department.	Each	14	1103.17		
ECBC.3.2 7	LHDT01128632 1 X 28W T5 FTL Havells or equivalent make E-LITE DESIRE Surface Decorative ultra slim fixture with extruded aluminium body, prismatic diffuser, snap on installers & HF electronic ballast suitable for T5 FTL or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ WIPRO/ BAJAJ/CROMPTON GREAVES / HPL/ SOLAR/ JAQUAR make).					

27.2	Supplying including fitting and fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt. as required complete and as directed by the Department.					
27.2.1	Domestic					
27.2.1.1	Ventilator RX 150 mm sweep (ORIENT make), Brisk Air 150 mm sweep Louver type (Crompton make)	Each	4	1249.76		
11.10	Supplying and fixing of batten holder (Anchor Penta PC CHERRY /Gold medal /Kolor kany.kom/Havells or equivalent make as approved by the Deptt.) including connection as approved by the Deptt. as required (without Lamp)	Each	18	58.85		
11.26	Supplying and fitting of 18/20 Watt CFL lamp in the existing batten holder/angle holder/decorative bracket/bulk head fitting/ pendent holder etc. as specified and directed by the deptt.	Each	18	242.89		
15.2	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door (IP-43) surface mounting SPN MCB DB incorporated with bus-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.					
15.2.1	(ABB, Schneider MG, legrand, Hager, Crabtree xpro make)					
15.2.1.3	8 way SPN double door	Each	3	1755.87		
16.1	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.					
16.1.2	C Series (Schneider MG, legrand, Hager, Crabtree xpro make)					
16.1.2.1	6 to 32A	Each	6	247.17		
16.3	Supplying with fitting and fixing DP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.					
16.3.2	C Series (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)					
16.3.2.2	40A	Each	3	936.25		
32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV Grade Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCl/Polycab/Gloster/ Finolex make) .					
32.1.1	2 Core A2XWaY A2XFaY					
32.1.1.1	4.00 sqmm2 core armoured			0.00		
32.1.1.3	10.00 Sq.mm 2 Core armoured U.G. cable	Metre	31	373.43		
11.10	Supplying and fixing of batten holder (Anchor Penta PC CHERRY /Gold medal /Kolor kany.kom/Havells or equivalent make as approved by the Deptt.) including connection as approved by the Deptt. as required (without Lamp)	Each	10	0.00		
32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV Grade Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCl/Polycab/Gloster/ Finolex make) .					
32.1.1	2 Core A2XWaY A2XFaY					
32.1.1.1	4.00 Sq.mm 2 Core armoured U.G. cable	Rm	21	329.56		
	(STATUTE SPOT LIGHTS)					

23.2.5	RVP 339 1 X CDMTD 70W R Phillips make) Unifold RVP339 Integral floodlight luminaries with die Cast Aluminium housing & toughened glass cover (IP-65) ingress protection and rectangular R reflector for planar symmetric optical distribution. Or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (Havells/ WIPRO/ BAJAJ/ CROMPTON / HPL/ SOLAR/ JAQUAR make).	nos	6	5103.90		
	Landscaping			278200.00		
	Total=				Rs.	

Executive Officer
North Lakhimpur Municipal Board
North Lakhimpur

537 -537.00