

**ASSAM PROJECT
ON
FOREST AND BIO-DIVERSITY CONSERVATION
CONSTRUCTION OF NEW RESIDENTIAL COMPLEX
– AT REHABARI, GUWAHATI - 781 008.
BILL OF QUANTITIES OF CIVIL WORKS
FOR PUMP HOUSE.**

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
1	<p>EARTHWORK IN EXCAVATION</p> <p>Earth work in excavation for foundation trenches of walls, retaining walls , footings of column, steps , septic tank etc. including refilling (return felling) 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 following classification of soils including bailing out water where necessary as directed and specified.</p> <p>(A) Up to a depth of 2.00m below the existing ground level.</p> <p>In ordinary soil</p>	Cu.M.	29.00			

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2	<p>PLAIN CEMENT WORKS</p> <p>Plain cement concrete works with coarse aggregate of sizes 13mm to 32 mm 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).</p> <p>(a). In prop. 1 cement:3 coarse sand : 6 coarse agg. by volume</p>	Cu.M.	2.00			
3	<p>Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.</p>	Sq.M.	3.00			
4	<p>REINFORCED CEMENT CONCRETE WORKS</p> <p>Providing and laying plain/rainforced 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)</p> <p>Using mixture machine</p>					

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	<p>In sub - structure up to plinth level 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. (I) Without using admixture plasticiser M20 or Prop. 1:1.5:3</p>	Cu.M.	8.00			
	<p>In super-structure from plinth level upto 1st floor level. (i) 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. Without using admixture , plasticiser M20 or Prop. 1:1.5:3</p>	Cu.M.	9.50			
5	<p>TIMBER SHUTTERING (FORMWORK) 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 in: (i) Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc. Using 25mm thick plank</p>	Sq.M.	6.00			

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(ii)	Sides of tie beams, grade beams etc. at or below ground level Using 25mm thick plank	Sq.M.	19.00			
(iii)	Columns, Pillars, Posts & Strut Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face Using 25mm thick plank	Sq.M.	33.00			
(iv)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. For depth not exceeding 1.0M. Using 38mm thick plank	Sq.M.	25.50			
(v)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. Floors etc. upto 200mm in thickness. Using 25mm thick plank	Sq.M.	50.00			
6	MASONRY WORKS Providing soling in foundation and under floor with stone / best quality picked Jhama bricks, sand packed and laid to level and in panel after preparing the sub grade as directed including all labour and materials and if necessary, dewatering complete. (a).Brick on flat soling.	Sq.M.	19.00			

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7	<p>IN SUB-STRUCTURE.</p> <p>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 including dewatering if necessary (a). In proportion 1:4.</p>	Cu.M.	3.20			
8	<p>IN SUPERSTRUCTURE.</p> <p>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) (A) 112mm thick brick wall (a). In cement mortar in proportion 1:4.(1 cement:4 sand)</p>	Sq.M.	46.00			

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9	<p>CEMENT CONCRETE FLOORING</p> <p>40 mm thick cement concrete floor consisting of 25 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 12.5 mm 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) finished with a floating coat of neat cement finish using cement slurry for bond @ 2.75 kg. per square metre of floor area , wearing layer is to be laid in panels including curing etc. complete as directed.</p>	Sq.M.	17.00			
10	<p>CEMENT PLASTER SKIRTING</p> <p>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. (a) 15 mm thick</p>	Sq.M.	2.60			
11	<p>CEMENT PLASTERING</p> <p>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. (a) In cement mortar 1:4</p>	Sq.M.	111.00			

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12	15 mm 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 finished even and smooth including curing complete as directed. A) On rough side (a) In cement mortar 1:4	Sq.M.	46.00			
13	Neat cemennt punning	Sq.M.	18.00			
14	DOORS/WINDOWS / VENTILATORS / CLERESTORY WINDOWS Providing, fitting and fixing full panelled doors/ windows including oxidised M.S butt hinges (100mm x75 mm x3.55mm) with necessary screws (other fittings to be measured and paid separately) A).With 1st class local wood(Gamari / Hollock / Bonsum) (i). 30 mm thick .	Sq.M.	2.10			

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15	<p>GRILLS</p> <p>Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.</p> <p>I . Plain grill (a). Fixed to Brickwork/P.C.C/R.C.C.</p>	Kg	44.00			
16	<p>DISTEMPERING</p> <p>g) Distempering with dry distemper of approved brand and manufacture (twocoats) and of required shade on new wall surface to give an even shade, after thoroughly brushing the surface free from mortar droppings and other foreign matter and including preparing surface even and sand papered smooth.</p>	Sq.M.	98.00			
17	<p>PLASTER OF PARIS & WALL PUTTY</p> <p>Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)</p> <p>(i) Thickness = 1.5 mm thick</p>	Sq.M.	111.00			

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18	<p>CEMENT PAINT & PRIMER</p> <p>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.</p>	Sq.M.	111.00			
19	<p>Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)</p>	Sq.M.	111.00			
20	<p>PAINING ON WOOD AND WOOD BASED SURFACE</p> <p>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 knotting.</p> <p>(a). With ready mixed paint , Wood primer (pink)</p>	Sq.M.	4.20			

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21	<p>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.</p> <p>(i).Surfaces over 100mm in width or girth.</p> <p>a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).</p>	Sq.M.	4.20			
22	<p>PAINTING ON STEEL AND OTHER METAL SURFACE</p> <p>Applying primary coat over new steel and other metal surface upto 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.</p> <p>a). With ready mixed "red-lead/ red oxide" primer.</p>	Sq.M.	10.50			

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23	<p>Painting two coats (excluding priming coat) on new steel and other metal 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 surface of all dirt, dust and other foreign matter.</p> <p>(i).Surfaces over 100mm in width or girth.</p> <p>a) General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).</p>	Sq.M.	10.50			
24	<p>DOOR AND WINDOW FITTINGS</p> <p>ALUMINIUM FITTINGS</p> <p>Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)</p> <p>a) Sliding door bolts</p> <p>i) 300mm x 16mm</p>	Each	1			
	<p>b) Tower bolts</p> <p>i) 150mm x 10mm</p>	Each	2			
	<p>c) Door handles</p> <p>i) 150mm</p>	Each	2			

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25	<p>GLASS FITTING</p> <p>Providing and fixing clear sheet glass beded in putty and fixed with/without wooden bidding including necessary cutting and glass to be required sized(payment for wooden bead shall be made separately)</p> <p>(1). Area of glass panes not exceeding 0.15m²</p> <p>(a). 3.00mm thick.</p>	Sq.M.	5.25			
26	<p>STEEL & IRON WORKS REINFORCEMENT</p> <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> <p>From Primary Producer : TATA / SAIL / Jindal steel / Shyam steel / RINL</p> <p>(i) Super Ductile (SD) TMT reinforcement bars</p>	Qtl.	27.00			

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27	<p>WINDOWS/VENTILATORS</p> <p>Providing, fitting and fixing steel windows of standard rolled steel sections as per relevant I.S. Code, joints mitred and welded with 15mmx13mmx100mm lugs embedded in cement concrete block of M-10 grade including providing and fixing of projecting hinges (not more than 65mm and not less than 15mm wide) bolting device, steel handles, pegs, stays of 300mm long etc. complete including providing 12mmx12mm sq. bars duly welded to steel frame at not more than 12cm c/c applying a priming coat of red-lead paint etc. complete as per drawing.</p> <p>a) Openable</p>	Sq.M.	5.25			

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28	<p>DOOR FRAMES</p> <p>Supplying, fitting and fixing door frame made of M.S. equal angle of size 40mmx40mmx5mm fabricated, welded, mitred and joined as per relevant I.S. Codes including fitting 8 nos. of M.S. hold fast, providing closing/ holding device for 2 nos. tower bolts of door for each side and 1 no. for fitting and fixing Aldrop (for single leaf) to the frame for fixing the door to the frame, applying primer to all steel surfaces fixing the frame to the wall / R.C.C. members by embedding the hold fast securely in C.C. block of M-15 grade complete at all levels as specified and directed. (Door hinges to be paid as per relevant item of the schedule of rates).</p>	R.M.	5.20			
29	<p>PLINTH PROTECTION WORKS AND DRAINS</p> <p>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 floting coat of neat cement finished.</p>	Sq.M.	14.10			

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30	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 shattering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.	R.M	23.50			
31	Providing and fixing M.S. Fan clamp Type-I of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs or beams during laying , including painting the exposed portion of loop, all as per standard design complete.	Each	2			
TOTAL = 'Rs.						

(Rupees

Signature of the Contractor:

Date & Seal: