

**ASSAM PROJECT  
ON  
FOREST AND BIO-DIVERSITY CONSERVATION**

CONSTRUCTION OF NEW RESIDENTIAL QUARTERS  
– AT REHABARI, GUWAHATI - 781 008.

**BILL OF QUANTITIES OF  
SUMP (1.00 LAKH CAPACITY) For Fire Fighting**

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(In Figures)	(In Words)	
1	<p><b>PILING WORKS</b> <b>MACHINE DRIVEN PILES</b> Providing cast in-situ machine driven reinforced cement concrete piles of required bore-diameter, bulb diameter, lengths and with reinforcement as per specifications and drawings including using of Bentonite solution.</p> <p><b>A) UNIFORM PILE</b> (l) Concrete Grade M25 (i) Pile dia 400 mm</p>	R.M.	576.00			
2	<p><b>MISCELLANEOUS</b> Extra for using admixture &amp; plasticiser (a) RCC grade M25 (i) Pile Dia 400 mm</p>	R.M.	576.00			

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3	<p><b>REINFORCEMENT</b></p> <p>Supplying, fitting and fixing in position reinforcement bars conforming to relevent IS code, for reinforced cement concrete works in piles including straightening, cleaning, cutting and bending to proper shapes and length as per specifications and drawings. The rings should be welded with vertical reinforcements as per specified IS codes of practice. (Inclusive of lap length, hook, chair, bend, anchor...etc)</p> <p>(A) TMT bar made of Primary producer (From Primary producer)</p>	Qtl	69.00			
4	<p><b>DISMANTLING WORKS.</b></p> <p>Demolishing R.C.C. / P.C.C. pile head of different diameters carefully without disturbing the remaining portion of the pile including opening out of the pile head to be demolished by excavating the earth upto required depth and clearing the debris as directed.</p>	Cu.M.	37.00			

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5	<p><b>EARTHWORK IN EXCAVATION</b></p> <p>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.</p> <p>(A) Up to a depth of 2.00m below the existing ground level. In ordinary soil</p>	Cu.M.	409.00			
6	<p><b>PLAIN CEMENT WORKS</b></p> <p>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).</p> <p>(a). In prop. 1:3: 6 (1 cement:3 coarse sand : 6 coarse agg. by volume (using mixture machine)</p>	Cu.M.	25.00			

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7	<p><b>REINFORCED CEMENT CONCRETE WORKS</b></p> <p>Providing and laying plain/reinforced cement concrete works cement with coarse sand &amp; 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 In sub - structure up to plinth level Using admixture, plasticiser etc for air entraining, water reducing purposes including addition of agent for changing normal setting time of concrete as required. 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. M25 grade concrete</p>	Cu.M.	198.00			

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8	<b>TIMBER SHUTTERING (FORMWORK)</b> 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:	Sq.M.	44.00			
	(i) Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc. Using 25mm thick plank					
	(ii) 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					
(iii)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. Floors etc. upto 200mm in thickness. Using 25mm thick plank	Sq.M.	387.00			

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9	<p><b>MASONRY WORKS</b></p> <p>Providing brick 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.</p> <p>(a).Brick on flat soling.</p>	Sq.M.	149.00			
10	<p><b>AUTOCLAVED AERATED CONCRETE BLOCK.</b></p> <p><b>Superlight Weight Autoclaved Aerated concrete Block work</b> using AAC block of size 625x240mmm of different thickness of compressive strength 35 Kg/Cm<sup>2</sup> having dry density 500 to 650 kg./ Cu.m. subject to maximum water absorbtion of 8% conforming to IS-2185 Pt-3 or Pt-4 in cement mortar in prop. 1:4 including racking out joints and curing complete as directed instructure. (protruding rod is to be provided at every 3 course interval and will be measured and paid separately)</p> <p><b>(I) In Super-structure above plinth level upto 1st floor level.</b></p> <p><b>a) For 125mm thick wall.</b></p>	Sq.M.	36.00			

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11	<p><b>CEMENT PLASTERING</b></p> <p>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.</p> <p>(a) In cement mortar 1:4</p>	Sq.M.	589.00			
12	<p><b>ROOFING</b></p> <p>Providing Pre Painted Galvanized Iron Sheet Roofing (PPGI) at all levels including fitting and fixing with self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.)</p> <p>TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement</p> <p>(i) 0.60 mm thick</p>	Sq.M.	24.00			
13	<p>Providing Bare Galvalume Sheet roofing accessories (Ridges / Valley / Gutter /Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete.</p> <p>TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement</p> <p>(i) 0.60 mm thick</p>	R.M.	21.00			

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14	<p><b>REINFORCEMENT</b></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 (upto 1st floor level). ISI approved super ductile TMT Bar (i) Other ISI Marked</p>	Qtl.	70.00			
15	<p><b>BEAMS AND JOISTS</b></p> <p>Structural steel work in sigle 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. . a) In M.S angle, channels, Tees</p>	Qtl.	2.00			

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16	<p><b>ROOF TRUSS</b></p> <p>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.</p> <p>a) TATA make Circular Hollow section- CHS of Grade YST-310 conforming to I.S. Specification : 1161-1998</p>	Qtl.	4.50			
17	<p><b>MANHOLE COVER</b></p> <p>Providing fitting and fixing 450 mm dia. 90 mm thick C.I. Man hole cover and frame of 38 kg. weight complete as directed and specified .</p>	Each	2			
18	Neat Cement Punning	Sq.M.	589.00			
<b>TOTAL =Rs.</b>						-

(Rupees)

Signature of the Contractor:

Date & Seal :