

NAME OF PROJECT:

TENDER FORM for Construction of proposed Incubation Centre for Wood Carving and Carpentry , Guwahati

CIVIL WORKS

SL. NO.	APWD SOR NO.	DESCRIPTION OF ITEMS	UNIT	QUANT ITY	RATE (in Rs./unit)	Amount (Rs.)
1						
EARTHWORK						
1.01		Earthwork in excavation for foundation trenches of walls, retaining walls, footing 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.				
	1.1	(A) Up to a depth of 2.00m below the existing ground level (a) In ordinary soil	Cum	31.43		
1.02	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. C) With silt (predominantly non plastic) by truck carriage including loading and unloading.	Cum	44.40		
2						
ANTI-TERMITE TREATMENT						
2.01	26.1.1	Pre construction anti-termite treatment with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or equivalent) and water. This provides emulsion containing 1% chloropirophose solution (by weight)- at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column, plinth beam, wall, trenches etc. by applying the emulsion @ 5 liters per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				

		b) with aqueous emulsion having concentration 1:499 with Premise 350 SC (imidachloprid 30.5% SC) and water i.e.0.07% solution	Sq.m	155.45		
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2.02	26.1.2	Pre construction anti-termite treatment by applying the emulsion @ 5 (five) litres per square meter of the surface to be spread with light rodding so as to ensure proper absorption by the filled up earth (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
		b) with aqueous emulsion having concentration 1:499 with Premise 350 SC (imidachloprid 30.5% SC) and water i.e.0.07% solution	Sq.m	74.00		
3		PLAIN CEMENT CONCRETE WORKS				
3.01	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).				
		(a). In prop. 1:3: 6 (1 cement:3 coarse sand : 6 coarse agg. by volume (using mixture machine)	Cum	6.80		
3.02	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 100mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacture including curing etc. complete as directed.	Sq.m	82.00		
4		PLINTH PROTECTION AND DRAIN:				
4.01	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.	sqm	21.60		
4.02	19.4	Providing drain with cement concrete (1:3:6) 100mm thick sides 100mm thick bed over brick flat soling including 15mm thick cement plastering in proportion 1:3 finished coat of cement slurry as directed with necessary shuttering for sides and earthwork in excavation of foundation trenches and refilling the sides after completion of work etc as directed.				
	i)	300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.	Rm	38.00		

5		REINFORCED CEMENT CONCRETE WORKS				
5.01	2.2.1	Providing and laying plain/reinforced cement concrete works in prop 1:1.5:3 (1 cement :1.5 coarse sand :3 graded stone chips, 20mm down) 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)In substructure up to plinth level				
	A)	Foundation, footing, column with base, tie and plinth beam, grade beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick.	Cum	11.47		
		(B) (ii)In super structure above plinth				
5.02	2.2.1	(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase, ramp including preparing of top surface and furnishing and nosing.(up to first floor)	Cum	38.10		
6		FORM WORK				
6.01	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 in:				
	3.1.1.1(i)	(a) Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.				
		Using 25mm thick plank	Sq.m	16.80		
6.02	3.1.1.2(i)	(b) Sides of tie beams, plinth beams, grade beams etc. at or below plinth level.				
		Using 25mm thick plank	Sq.m	35		
	3.2.1	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, 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:				

6.03	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	SQ.M.	263.20		
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6.04	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.	SQ.M.	263.20		
6.05	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like.				
	(a)	Floors etc. upto 200mm in thickness.	SQ.M.	73.00		
6.06	3.1.1.10	(f) Staircase with sloping or stepped soffits including risers and stringers but excluding landing. (Using 38mm thick plank)	Sq.m	15.02		
7		REINFORCEMENT				
7.01	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 20 G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete (up to 1st floor level).				
	(b) & (ii)	Super Ductile TMT bar TATA\SAIL	Qtl.	164.73		
8		BRICKWORK				
8.01	4.1.1(a)	Providing brick soling in foundation and under floor with stone/best quality picked jhama brick, sand packed and laid to level and panel after preparing the sub-grade as directed including all labour and materials and if necessary dewatering, complete.				
		Brick on flat soling.	Sq.m	91.92		
8.02	4.1.8	112 mm thick 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) In cement mortar in proportion 1:4 (1 cement : 4 sand)				
		(i) In super structure up to 1st floor level	Sq.m	366.63		

9		RAILING				
9.01	18.9.1	Providing and fixing Stainless Steel railing made of Hollow tubes, channelas, plates etc., including welding, grinding, buffing, polishing and making curvature and fitting the same with necessary stainless steel nuts and bolts complete, i.e. fixing the raling 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.				
		(c). Fixed to Brickwork/P.C.C/R.C.C.	Kg	40		
10		PLASTERING				
10.01	6.2.2+6.	15mm thick Cement plaster in single coat on rough side of brick/concrete walls for interior plastering up to 1st floor level including arises, internal round angles, chamfers and/ or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.				
	2.8					
		In Cement mortar 1:4				
		(i)In Superstructure upto 1st floor Level	Sq.m	341.00		
10.02	6.2.3	15 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed.				
		(b). In cement mortar 1:4				
		(i)In Superstructure upto 1st floor Level	Sq.m	403.29		
10.03	6.2.3+6.	15mm thick Cement plaster in single coat on ceilings for interior plastering including arises, internal round angles, chamfers and/ or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.				
	2.5					
		In Cement mortar 1:3				
		(ii)upto 1st floor level	Sq.m	81.40		

12		Floor Tiles				
12.01	5.7.2.1	<p>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. (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)</p> <p>c) Delux range (Sizes 1000 mm x 1000mm iii) Nitco vitrified made</p>	Sq.m.	270		
13		PAINTING				
13.01	13.3.5	<p>Providing two coats of J.K Wall Putty (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>	Sq.m	826		
13.02	13.2.3	<p>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	826		
13.03	13.4.7	<p>Wall painting (two coats) with Plastic emulsion paint of 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.</p>				
		<p>(a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)</p>	Sq.m	826		

14		DOORS/ WINDOWS & FITTING				
14.01	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 oxidized iron butt hinges (100mm× 75mm×3.5mm) 6 nos. with necessary wood screws.				
		a) Decorative type face panel and block board core.				
		(ii) 35mm thick.	Sq.m	17.46		
14.05	11.1.5	a) Providing , fitting & fixing anodised aluminium windows and ventilators of				
		a) in coloured anodised aluminium				
		i) With 6mm thk glass panes	Sq.m	54.00		
15		GRILL				
15.01	10.2	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.				
		II. Ornamental grill.	KG	216.00		
		C) fixed to brick work /P.C.C/R.C.C.				
16		DOORS/ WINDOWS & FITTING				
16.01	15.3	Supplying, fitting, fixing brass fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary c.p. brass screws etc. complete.(bright natural matt & satin finished).				
		b) Tower bolts	NO	12		
		i) 300mm x 10mm				
		c) Door handles(iii)150 mm	NO	6		
17		TRUSS				
17.01	18.3.1	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated out of M.S. black-tubes 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. (b) ISI marked	QTL	17.10		
18		ROOF				
18.01	8.1.	Roofing (PPGI) (Tata Blue scope / Dyna roof / Wonder roof) at all levels including fitting and fixing with self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.)				
		© 0.55 mm thick	sqm	188		

18.02	8.1.7	Providing Pre Painted Galvanized Iron Sheet (PPGI) accessories (Ridges / Valley / Gutter /Flashing) (Tata Blue scope / Dyna roof / Wonder roof) at all levels including fitting and	sqm	10		
18.03	8.1.8	Supplying, fitting and fixing wind ties with 40mm x6mm M.S. flat iron and necessary 10 mm dia G.I hook bolt, G.I flat washer and bitumen washer etc. complete including two coats painting with red oxide anticorrosive paint.	rm	77		
Total cost of Civil works =						