



CIPET: CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CSTS)
 (Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)
 City Centre, PO: Debhog, Haldia, Dist. Purba Medinipur. Pin Code: 721657. West Bengal.
 Ph.No : 03224-255444/255404/255534 Tele fax : 03224-253016
 E – mail : haldia@cipet.gov.in, cipet.haldia@gmail.com.
 Website : www.cipet.gov.in

NIT No. CIPET/HAL/ E-TEN.-01/Construction/2021-2022 **Date:29/07/2021**

Name of Work:- Proposed Sample Store for Testing Department of CIPET, Haldia

General Rules and Direction for the Guidance of Contractors

Work to be carried out as described below as per approved specifications and as per drawings and as directed from time to time.

Tenderer has to put the unit rate and to calculate the total amount in the table below.

Quoted rates should be exclusive of GST & other Taxes as applicable

Rates to be in Figures and Words:

The tenderer shall quote all the rates and amounts in figures and words in English. In case of any discrepancies are found between the RATES in FIGURES and WORDS or the AMOUNT quoted in the tender, the following procedure shall be followed:

a) When there is difference between the rates in figures and words, the rate which corresponds to the amount worked out by the tenderer shall be taken as correct.

b) When the rate quoted by the tenderer in figures and words tally but the amount is incorrect the item rate quoted by the tenderer shall be taken as correct.

c) When it is not possible to ascertain the correct rate by either of above methods, the rate quoted in words shall be taken as correct.

Schedule of work:

Name of the Contractor:

SL. No.	Description of Items	Units	Quantity	RRate Rs. P. (Price to be quoted by tenderer)	Total Amount Rs. P. (Price to be filled by tenderer)
01	Earth works in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item including necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailling out water as required complete.	Cu. m.			
	(a) Depth of excavation not exceeding 1500 mm.		97.07		
	Plinth protection		12.19		
02	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 15 cm. Including breaking clods watering and ramming etc. layer by layer, complete. (Payment to be made on the basis of measurement of finished quantity of work).	Cu. m.			
	(a) with earth obtained from excavation of foundation.		55.35		
03	A) Filling in foundation trenches or plinth by silver sand in layers not exceeding 150 mm. as directed and consolidating same by thorough saturation with water ramming complete including the cost of supply of sand. (Payment to be made on measurement of finished quality.)	Cu. m.	52.30		
	Plinth protection		14.63		
04	(I) Cement concrete with graded stone ballast (40 mm size excluding shuttering). In Ground Floor (A) [Pakur Variety]	Cu. m.			
	(a) 1:3:6 propotion.		19.92		
	Plinth protection		3.66		
05	Ordinary Cement concrete (mix 1: 1.5: 3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes.	Cu. m.			
	(i) Pakur Variety				
	• In Ground floor.				
	• In Ground floor.		64.03		
06	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns. lintels curved or straight including fitting, fixing and striking				

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	(When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m ht. shall be allowed)				
	(c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work				
	• In Ground floor.		241.78		
	(f) 25 mm to 30 mm shuttering without staging in foundation.	Sq. m.	44.80		
07	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.	Tonne			
	(a) For works in foundation, basement and upto roof of ground floor / upto 4 m				
	(i) Tor steel/Mild steel				
	I. SAIL/TATA/RINL				
	• In Ground floor.		5.026		
08	First Class Brick work (250 mm thick) in cement mortar (1:6)	Cu. m.			
	• In Super structure Ground floor.		45.59		
09	Labour for Chipping of concrete surface before taking up plastering work.	Sq. m.			
	• In Ground floor.		173.68		
10	Supplying and laying Polythene Sheet (150 gm/sq.m) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.	Sq. m.			
	• In Ground floor.		56.00		
11	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throughing, nosing and drip crouse, scaffolding / straging where necessary (Ground floor.) [excluding cost of chipping over concrete surface]	Sq. m.			
	With 1:6 Cement mortar.				
	b. 20 mm thick plaster (external)				
	• In Ground floor.		268.90		
	Plinth protection		48.75		
	With 1:6 Cement mortar.				
	c. 15 mm thick plaster (Internal)		251.20		
12	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cu.m per 100 sq.m.	Sq. m.			
	• In Ground floor.		32.70		
	Plinth protection		48.75		
13	Artificial stone in floor dado, stair case etc. with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg / sq.m. all complete including all materials and labour.	Sq. m.			
	3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement				
	(ii) 25 mm. thick				
	• In Ground floor.		196.81		
14	Cement washing including cleaning and smoothening surface thoroughly (cement to be used @ 15 kg / 100 sq m of surface for one coat and @ 25 kg / 100 sq m of surface for two coats)	Sq. m.			
	(b) Two coats (on new works only)				
	• In Ground floor.		520.10		
15	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface				

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16	Protective and decorative acrylic exterior emulsion paints of approved quality as per manufacturer's specification and as per direction of Engineer in charge to be applied over acrylic primer as required. The rates including the cost of materials, labour, scaffolding and all other incidental charges but excluding the cost of primer.	Sq. m.			
	Two coats				
	(a) Normal Acrylic Emulsion.				
	• In Ground floor.		268.90		
17	Applying Interior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC.	Sq. m.			
	(b) Two coats				
	(ii) Solvent base interior grade acrylic primer.				
	• In Ground floor.		251.20		
18	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of	Sq. m.			
	Two coats				
	• In Ground floor.		251.20		
19	Supplying, fitting and fixing windows and ventilators with or without integrated grills conforming to IS 1038-1975 and manufactured from rolled steel sections conforming to IS 7452-1974 with non-friction projecting type, box type hinges, glazing clips, lugs locking bracket, handle plate etc, including hoisting in position, straightening if required, fixing lugs in cement concrete (1:2:4) with stone chips 20 mm down cutting holes and mending good damages to match with existing surface complete in all respect excluding				
	Without integrated grills				
	(b) Openable steel windows as per IS sizes with side hung shutters and horizontal glazing bars with / without fixed type ventilators.	Sq. m.			
	• In Ground floor.		27.00		
	(iii). Central Hung Ventilator as per I.S. sizes 580 mm	Sq. m.	27.00		
	(iv) Two point nose Steel Handle including fitting and fixing.	Each	40.00		
	(vi) Steel Peg Stay 300 mm long including fitting and fixing.	Each	40.00		
	(viii) M S integrated grill as per approved design integrated with steel window or ventilator, joints continuously welded with M S flats and bars.	Kg	150.00		
20	b) Priming one coat to timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surface by sand papering etc.	Sq. m.	8.19		
	a) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothing surface by sand papering etc.	Sq. m.	40.65		
21	A) Painting with best quality synthetic enamel superior quality paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc.	Sq. m.			
	(a) On timber or plastered surface				
	(iv) Two coats (with any shade except white)		8.19		
	(b) On steel or other metal surface				
	(iv) Two coats (with any shade except white)		40.65		
22	Woodwork in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S. clamps. (The quantum should be corrected upto three	Cu. m.			
	(d) Sal: Local				
	• In Ground floor.		0.043		
23	Supplying best Indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. (In all floors for internal wall & upto 6 m height for external wall).	Sq. m.			
	(ii) 4 mm. thick				
	• In Ground floor.		27.00		

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24	Supplying solid flush type doors of commercial quality, the timber frame consisting of top and bottom rails and side styles of well seasoned timber 65 mm. wide each and the entire frame fitted with 37.5 mm. wide battens, placed both ways in order to make the door of solid core and internal lipping with Garjan or similar wood veneers using phenol formaldehyde as glue etc. complete. including the cost of hinges and other fitting in ground floor.	Sq. m.			
	a) 35 mm. thick shutters (single leaf)				
	• In Ground floor.		2.97		
25	Supplying, fitting and fixing M.S. clamp for doors and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete (1:2:4) as per direction. (Cost of concrete will be paid separately).				
	(a) 40 mm x 6 mm, 250 mm Length	Each	6.00		
26	Renewing 125 mm long wooden buffer block. (i) Sal: Siliguri	Each	1.00		
27	Supplying, fitting and fixing hinge cleat in position excluding the cost hinge and other				
	(b) With 75 mm iron butt hinge. Sal: Siliguri	Each	1.00		
28	Iron butt hinge of approved quality fitted and fixed with steel screws, with ISI mark	Each			
	(vi) 100 x 50 x 1.25 mm		3.00		
29	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16 mm dia rod with centre bolt and round fitting.	Each			
	c) 300 mm long.		1.00		
30	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws:	Each			
	vi) 200 mm x 10 mm dia. bolt		2.00		
31	Anodised aluminium decorative handle (hexagonal / fluted of approved quality fitted and fixed with cadmium-plated screws.	Each			
	i) 150 mm plate x 10 mm dia rod x 12 mm hexagonal / fluted		1.00		
32	a) Supplying fitting and fixing steel rolling shutter profile type with 18 B.G. of approved type, steel latch section 75 mm. wide, fitting of required No. of C.I. pulleys on heavy type solid drawn seamless steel tube complete with locking arrangements both inside and out side specially built up side guide channels including providing a hood for the steel rolling shutter in the room, painting two coats of approved aluminium paint over a coat of red lead primer complete.	Sq. m.	13.65		
33	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joints, angle, channel sections conforming to IS 226, IS 808 & SP (6) - 1964 connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & length, fabrication with necessary bolting, metal arc welding conforming to IS: 816-1956 & IS: 9595 using electrodes of approved make and brand conforming to IS: 814-1957, haulage, hoisting erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charges of tools & plants and labour required for the work including all incidental charges such as electricity charges, labour insurance charges etc.				
	(Payment to be made on the basis of calculated weight of structural members only unfinished work as per IS specified weight. Payment for gusset, bracket, cleat may be made by adding the actual weight of finished structural members or 7% of weight for finished structural members weighting not less than 22.5 kg./m or 15% of weight for finished structural members weighting less than 22.5 kg./m may be increased allow for bracket, cleat, rivet, bolts and nuts etc. and no payment being made for these items, as per direction of Engineer In Charge. The rates are considered for a height of erection 8m/2 nd floor level from the ground. Add. 1.5% extra over the rate for each additional floor or 4m beyond initial 8m or part there of.	MT			
	(ii) For Structural works in roof Trusses etc. using joint, channels and angles of specified section weighting less than 22.5 kg./m				

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34	Supplying, fitting & fixing Zn-Al alloy (55% Al & 45% Zn) coating of 150 grams per sq. metre (followed by colour coated on both side) steel sheet work having minimum yield strength of 550 Mpa of trapizoidal profile of approved make (excluding the supporting frame work) fitted and fixed with 55 mm & 25 mm self tapping screw, EPDM Washer 16 mm dia & 3 mm th. washer etc. complete with 150 mm end lap and one corrugation minimum side lap. (Payment to be made on area of finished work).	Sq m			
	i) In roof				
	(a) With 0.50 mm. Thick sheet		250.52		
35	Galvanized iron sheet caves gutter fitted and fixed with necessary 50 mm x 6 mm. M.S. flat bar clamps bent to design, bolts, nuts, washers etc. complete. Eaves gutter made of 0.63 mm. Sheets. (300 mm end lapping)	Mtr.			
	(b) 300 mm. Wide gutter		34.50		
36	Aluminium sheet ridging fitted with self tapping screws, EPDM washers etc complete. (Minimum 225 mm end lapping).	Mtr.			
	(A) 300 mm lapping each way				
	(a) With 0.71 mm. Thick sheet		17.25		
37		Grand Total			
	Rupees in words				