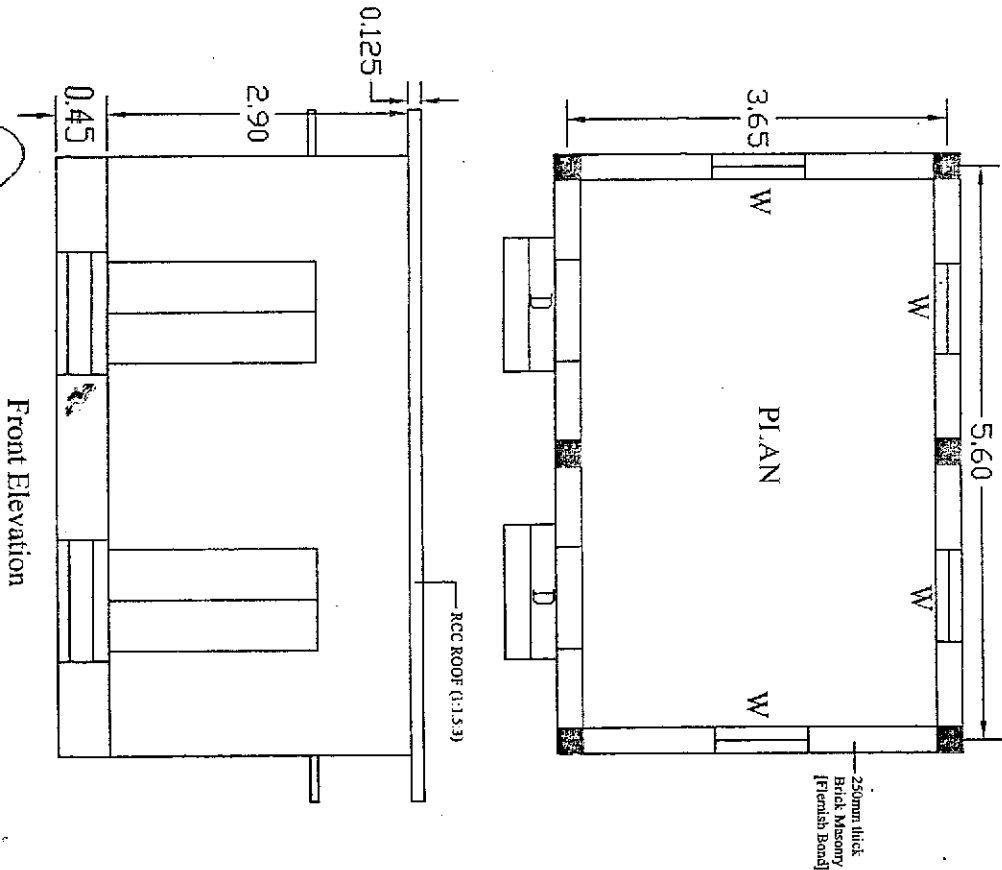
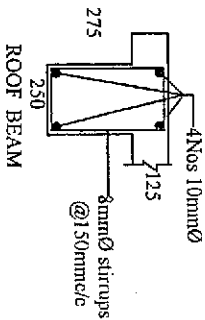
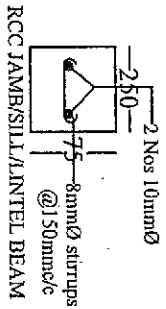
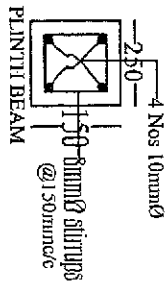
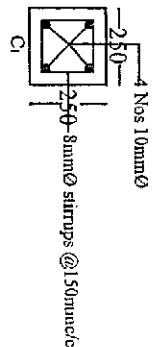


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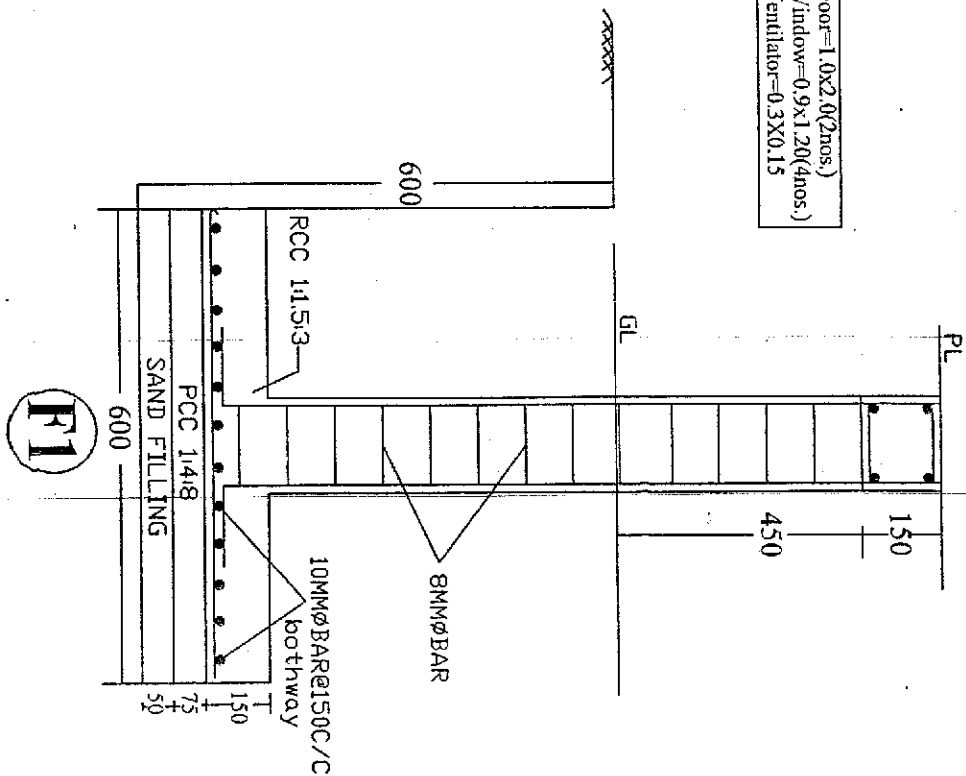
Construction Of Earthquake Resistant IAY House Under West Tripura District [Confined Masonry Structure]



250mm thick
Brick Masonry
[Finish Band]



Door=1.0x2.0(2nos.)
Window=0.9x1.20(4nos.)
Ventilator=0.3X0.15



(F1)

(Signature)
Mr. M. Kumar
Chief Engineer

(Signature)
Mr. U. Debbarmal
Assistant Engineer

(Signature)
Mr. S. K. Malakar
Executive Engineer
O/o the S.E., RD 1st Circle
Cuttachabadi, Agartala.

(Signature)
Mr. K. Tripura
Superintending Engineer
RD 1st Circle, Agartala

Based on Original Estimate No. TS No.

Construction Of Earthquake Resistant Jay House At West Tripura District

Name & Designation of Implementing Officer:
 Name & Designation of 1st Supervising Officer:
 Name & Designation of 2nd Supervising Officer:
 Name & Designation of Deptt. Representative(s):

Division: Agartala Division
 Block: AMC
 Gram Panchayat: North Zone, AMC
 Habitation: Ward 3

West tripura district

Estimate No:	West tripura district		
Activity Number	Description	Activity Output to be measured/(with unit)	Requirement of Material and Labour for Activity
1	Earth work in excavation in foundation trenches not exceeding 1.5 mtr in width or 10 sqm on plan or drains not exceeding 1.5 mtr in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift up to 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, with in a lead of 50 mtrs for ordinary soil(Cubic metre(Cum))	Add Foundation $1.00 * 1.00 * (2 * (5.60 + 3.65) * .60 * .60) = 6.6600$ Trenches $1.00 * (1/2 * (5.60 + 3.65) * .60 * .60) = 6.6600$ Cubic metre(Cum)	Unskilled 3,5831 Number (Nos.)
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m	Add Foundation $0.67 * 1.00 * (2 * (5.60 + 3.65) * .60 * .60) = 4.4622$ Trenches $0.67 * (1/2 * (5.60 + 3.65) * .60 * .60) = 4.4622$ Cubic metre(Cum)	Unskilled 1,2271 Number (Nos.)
3	Filling in plinth with local sand under floors including watering, ramming, consolidating and dressing complete	Add Foundation $1.00 * 1.00 * (18.50 * .60 * .050) = 0.5550$ Trenches Add under floor $1.00 * 1.00 * (5.35 * 3.40 * .075) = 1.3643$ $1.00 * (1/2 * (18.50 * .60 * .050) + (5.35 * 3.40 * .075)) = 1.9193$ Cubic metre(Cum)	Sand(Local) Unskilled 2,2072 Cubic metre(Cum) 0,5261 Number (Nos.)

Estimate No:

<p>4 Providing and laying in foundations and plinth cement concrete 1:4:8 (1 cement:4 river sand :8 jhama brick aggregate 40 mm nominal size) excluding the cost of centering and shuttering including breaking labour</p>	<p>Add under front steps Add For flooring Add at Foundation trenches $1.00*(+2(1.20 * .60 * .075)+1(5.35 * 3.4 * .10))$ $+1(18.50 * .60 * .075)=2.7595$ Cubic metre(Cum)</p>	<p>Cement{Bag} Brick aggregate (40mm) Sand (coarse){Cubic metre(Cum)} Highly skilled Skilled Semi Skilled Unskilled</p> <p>9.3823 Bag 736.7860 Number (Nos.) 1.4915 Cubic metre(Cum) 0.1601 Number (Nos.) 0.1609 Number (Nos.) 14.3770 Number (Nos.) 5.0499 Number (Nos.)</p>
<p>5 Reinforced cement concrete work 1:1.5:3(1 cement :1.5 river sand :3 graded brick aggregate 20 mm nominal gauge)including finishing and plastering the exposed surface with cement mortar 1:3(1 cement :3 river sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding the cost of centering shuttering and reinforcement in foundations,footings,bases of column etc and mass concrete including breaking of Bricks.</p>	<p>Add Foundation $1.00*1.00*(18.50 * .60 * .15)=1.6650$ $1.00*(1(18.50 * .60 * .15))=1.6650$ Cubic metre(Cum)</p>	<p>Cement{Bag} Brick aggregate(20-12.5mm) {Number (Nos.)} Sand (coarse){Cubic metre(Cum)} Highly skilled Skilled Semi Skilled Unskilled</p> <p>13.5265 Bag 424.5750 Number (Nos.) 0.8233 Cubic metre(Cum) 0.1732 Number (Nos.) 0.2980 Number (Nos.) 9.9900 Number (Nos.) 4.8618 Number (Nos.)</p>
<p>6 Reinforced cement concrete work 1:1.5:3(1 cement :1.5 river sand :3 graded brick aggregate 20 mm nominal gauge)including finishing and plastering the exposed surface with cement mortar 1:3(1 cement :3 river sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding the cost of centering shuttering and reinforcement in lintels beams,girders,bresummers and cantilevers up to floor two leve including breaking of Bricks.1</p>	<p>Add Plinth beam Add Window Sill beam Add Lintel beam Add RCC Jamb Add Roof beam $1.00*1.00*(18.50 * .25 * .15)=0.6938$ $1.00*1.00*(16.50 * .25 * .075)=0.3094$ $1.00*1.00*(18.50 * .25 * .075)=0.3469$ $1.00*1.00*((4*2*1.20+2*2*2.0) * .25 * .075)=0.3300$ $1.00*1.00*(18.50 * .25 * .15)=0.6938$</p>	<p>Cement{Bag} Brick aggregate(20-12.5mm) {Number (Nos.)} Sand (coarse){Cubic metre(Cum)} Highly skilled Skilled Semi Skilled Unskilled</p> <p>19.2856 Bag 605.3440 Number (Nos.) 1.1739 Cubic metre(Cum) 0.2469 Number (Nos.) 0.4249 Number (Nos.) 14.2434 Number (Nos.) 6.9318 Number (Nos.)</p>

Estimate No:

<p>7 Reinforced cement concrete work 1:1.5:3(1 cement :1.5 river sand :3 graded brick aggregate 20 mm nominal gauge)including finishing and plastering the exposed surface with cement mortar 1:3(1 cement :3 river sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding the cost of centering shuttering and reinforcement in columns,pillars,posts and struts up to floor two leve including breaking of Bricks.</p>	<p>1.00*(1(18.50 * .25 * .15)+1(16.50 * .25 * .075) +1(18.50 * .25 * .075)+1((4*2*1.20+2*2*2.0) * .25 * .075)+1(18.50 * .25 * .15))=2.3739 Cubic metre(Cum)</p> <p>Add Columns 1.00*6.00*(.25 * .25 * 3.35)=1.2563</p> <p>1.00*(6(.25 * .25 * 3.35))=1.2563 Cubic metre(Cum)</p>	<p>Cement{(Bag)} 10.3192 Bag Brick aggregate(20-12.5mm) 320.3570 Number (Nos.) Sand (coarse){Cubic metre(Cum)} 0.6212 Cubic metre(Cum) Highly skilled 0.1307 Number (Nos.) Skilled 0.2249 Number (Nos.) Semi Skilled 7.5378 Number (Nos.) Unskilled 3.6684 Number (Nos.)</p>
<p>8 Hiring charges for centering/shuttering including propping(Bamboo/Steel/Balke)complete as per direction of Engineer in Charge(Nails,dhan/polythene/pinding wire will be supplied by the department</p>	<p>Add For column 1.00*6.00*(4*.25 * 3.35)=20.1000 Add For beam 1.00*2.00*(18.5 * 0.15)=5.5500 Add For beam 1.00*2.00*(16.5 * 0.075)=2.4750 Add For beam 1.00*2.00*(18.5 * 0.075)=2.7750 Add For beam 1.00*2.00*(17.60 * 0.075)=2.6400 Add For Roof 1.00*1.00*(6.50 * 4.55)=29.5750 Add Roof beam 1.00*2.00*(18.50 * .15)=5.5500 Add for Chajjas 1.00*2.00*(1.20 * .45)=1.0800 Add for Chajjas 1.00*4.00*(1.10 * .45)=1.9800 Add for Doors 1.00*2.00*(1.0 * 0.25)=0.5000 Add for Windows 1.00*4.00*(.90 * .25)=0.9000 1.00*(4(6(4*.25 * 3.35)+2(18.5 * 0.15)+2(16.5 * 0.075) +2(18.5 * 0.075)+2(17.60 * 0.075)+1(6.50 * 4.55)+2(18.50 * .15)+2(1.20 * .45)+4(1.10 * .45)+2(1.0 * 0.25)+4(.90 * .25))=73.1250 Square metre(Sqm)</p>	<p>Polythene 7.6050 Kilogram(KG) Nails 8.0438 Kilogram(KG) Centering Shuttering 73.1250 Square metre(Sqm)</p>
<p>9 Fitting,fixing precast cement concrete jali 1:2:4(1 cement :2 river sand :4 brick aggregate 6 mm nominal gauge)reinforced with mild steel wire including roughening cleaning fixing and finishing in cement mortar 1:3 (1 cement :3 river sand)etc complete excluding plastering of the jumbs,still soffits</p>	<p>Add Ventilators 1.00*6.00*(.30 * .15)=0.2700 1.00*(6(.30 * .15))=0.2700 Square metre(Sqm)</p>	<p>C. C. Jali 0.2700 Square metre(Sqm) Highly skilled 0.0621 Number (Nos.) Skilled 0.1921 Number (Nos.) Unskilled 0.2619 Number (Nos.)</p>

Estimate No:

10 Cold twisted steel reinforcement for R.C.C work including bending, binding and placing in position complete (8 mm dia)

Add for stirrup at Plinth beam $1.00 * 1.00 * (124 * .70 * 0.39) = 33.8520$
 Add for stirrup at Sill beam $1.00 * 1.00 * (110 * .35 * 0.39) = 15.0150$
 Add For Lintel Beam $1.00 * 1.00 * (76 * .35 * 0.39) = 10.3740$
 Add For roof Beam $1.00 * 1.00 * (124 * 1.0 * 0.39) = 48.3600$
 Add For RCC jamb $1.00 * 1.00 * (118 * .35 * 0.39) = 16.1070$
 Add For Column $1.00 * 6.00 * (24 * .90 * 0.39) = 50.5440$
 Add For Chajjas $1.00 * 6.00 * (8 * .90 * 0.39) = 16.8480$
 Add For Chajjas $1.00 * 6.00 * (4 * 1.10 * 0.39) = 10.2960$
 Add For Roof $1.00 * 330.00 * (1) = 330.0000$
 $1.00 * (1(124 * .70 * 0.39) + 1(110 * .35 * 0.39) + 1(76 * .35 * 0.39) + 1(124 * 1.0 * 0.39) + 1(118 * .35 * 0.39) + 6(24 * .90 * 0.39) + 6(8 * .90 * 0.39) + 6(4 * 1.10 * 0.39) + 330(1)) = 531.3960$
 Kilogram(KG) 8 dia rod

TMT bar (8mm)
Black Wire
Highly skilled
Unskilled

584.5360 Kilogram(KG)
5.3140 Kilogram(KG)
7.2536 Number (Nos.)
8.2898 Number (Nos.)

11 Cold twisted steel reinforcement for R.C.C work including bending, binding and placing in position complete (10 mm dia)

Add for plinth beam $1.00 * 1.00 * (4 * 18.50 * 0.62) = 45.8800$
 Add for Sill beam $1.00 * 1.00 * (2 * 16.5 * 0.62) = 20.4600$
 Add for lintel beam $1.00 * 1.00 * (2 * 18.5 * 0.62) = 22.9400$
 Add for RCC jamb $1.00 * 1.00 * (2 * 17.60 * 0.62) = 21.8240$
 Add for RCC Column $1.00 * 6.00 * (4 * 4.50 * 0.62) = 66.9600$
 Add Roof beam $1.00 * 1.00 * (4 * 18.50 * 0.62) = 45.8800$
 Add For Foundation $1.00 * 1.00 * (5 * 18.50 * 0.62) = 57.3500$
 Add For Foundation $1.00 * 1.00 * (124 * .55 * 0.62) = 42.2840$

TMT bar (10mm)
Black Wire
Highly skilled
Unskilled

355.9360 Kilogram(KG)
3.2358 Kilogram(KG)
4.4168 Number (Nos.)
5.0478 Number (Nos.)

$1.00 * (1(4 * 18.50 * 0.62) + 1(2 * 16.5 * 0.62) + 1(2 * 18.5 * 0.62) + 1(2 * 17.60 * 0.62) + 6(4 * 4.50 * 0.62) + 1(4 * 18.50 * 0.62) + 1(5 * 18.50 * 0.62) + 1(124 * .55 * 0.62)) = 323.5780$
 Kilogram(KG) 10 dia rod

12 Fitting fixing of Dhari for centering shuttering of roof, chujja, suspended floor.

Dhari Mat(1.2x1.2m)

20.7025 Each

<p>13 Reinforced cement concrete work 1:1.5:3 (1 cement :1.5 river sand :3 stone aggregate 20 mm nominal gauge) in suspended floors, roofs, landing shelves and their supports and balconies up to floor two level including finishing and plastering the ceiling with cement mortar 1:3(1 cement :3 river sand) of thickness not exceeding 6 mm to give a smooth and over surface but excluding the cost of centering shuttering and reinforcement.</p>	<p>Add For Roof $1.00 * 1.00 * (6.5 * 4.55) = 29.5750$ Square metre (Sqm) $1.00 * (16.5 * 4.55) = 29.5750$ Square metre (Sqm)</p>	<p>Cement {Bag} 31.8981 Bag Stone aggregate 13711 Sand (coarse) {Cubic metre (Cum)} 1.9416 Cubic Highly skilled 0.4083 Number (Nos.) Skilled 0.7028 Number (Nos.) Semi Skilled 3.5338 Number (Nos.) Unskilled 12.8786 Number (Nos.) <i>Bracing 4 cups 5/8x 80 nos.</i></p>
<p>14 First class brick work in foundations and plinth in cement mortar 1:6(1 cement:6 river sand)</p>	<p>Add upto plinth level $1.00 * 1.00 * (17 * 0.25 * 0.65) = 2.7625$ Add Front Steps $1.00 * 2.00 * (1.20 * .60 * .15) = 0.2160$ Add Front Steps $1.00 * 2.00 * (1.20 * .30 * .15) = 0.1080$ $1.00 * (17 * 0.25 * 0.65) + 2(1.20 * .60 * .15) + 2(1.20 * .30 * .15) = 3.0865$ Cubic metre (Cum)</p>	<p>Cement {Bag} 3.3952 Bag 1st class bricks {Number (Nos.)} 1203.7300 Number (Nos.) Sand (coarse) {Cubic metre (Cum)} 0.7986 Cubic Highly skilled 1.1883 Number (Nos.) Skilled 1.1883 Number (Nos.) Unskilled 4.8983 Number (Nos.)</p>
<p>15 First class brick work in superstructure above plinth level up to floor two level in cement mortar 1:6(1 cement:6 river sand)</p>	<p>Add $1.00 * 1.00 * (18.50 * 6 * .25) * .25 = 2.60$ $= 11.0500$ Subtract for Door $1.00 * 2.00 * (1.0 * .25 * 2.0) = 1.0000$ Subtract for windows $1.00 * 4.00 * (.90 * .25 * 1.20) = 1.0800$ Subtract for RCC jamb $1.00 * 1.00 * (17.60 * .25 * .075) = 0.3300$</p>	<p>Cement {Bag} 9.5040 Bag 1st class bricks {Number (Nos.)} 3369.6000 Number (Nos.) Sand (coarse) {Cubic metre (Cum)} 2.2356 Cubic Highly skilled 4.1299 Number (Nos.) Skilled 4.1299 Number (Nos.) Unskilled 17.2368 Number (Nos.)</p>

	$1.00 * (1((18.50 - 6 * .25) * .25 * 2.60) - 2(1.0 * .25 * 2.0) - 4(.90 * .25 * 1.20) - 1(17.60 * .25 * .075)) = 8.6400$ Cubic metre(Cum)	
1612 mm cement plaster 1:6(1 cement:6 river sand)	$1.00 * 1.00 * (19.50 * .45) = 8.7750$ Add up to Plinth $1.00 * 4.00 * (1.20 * .30) = 1.4400$ Add Front Steps $1.00 * 1.00 * (19.5 * 2.90) = 56.5500$ Add outside plastering $1.00 * 2.00 * (1.20 * .45) = 1.0800$ Add For chajja $1.00 * 4.00 * (1.10 * .45) = 1.9800$ $1.00 * (+1(19.50 * .45) + 4(1.20 * .30) + 1(19.5 * 2.90) + 2(1.20 * .45) + 4(1.10 * .45)) = 69.8250$ Square metre(Sqm)	Cement(Bag) Sand (coarse){Cubic metre(Cum)} Skilled Unskilled 5.0274 Bag 1.2045 Cubic metre(Cum) 8.9376 Number (Nos.) 15.3615 Number (Nos.)
1715 mm cement plaster 1:6(1 cement:6 river sand) on the rough side brick wall	$1.00 * 1.00 * (17.5 * 2.90) = 50.7500$ Add Inside wall $1.00 * 2.00 * (1.0 * 2.0) = 4.0000$ Subtract For Doors $1.00 * 4.00 * (.90 * 1.20) = 4.3200$ Subtract For windows $1.00 * (+1(17.5 * 2.90) - 2(1.0 * 2.0) - 4(.90 * 1.20)) = 42.4300$ Square metre(Sqm)	Cement(Bag) Sand (coarse){Cubic metre(Cum)} Skilled Unskilled 3.6490 Bag 0.8783 Cubic metre(Cum) 6.6191 Number (Nos.) 11.0318 Number (Nos.)
18 Neat cement punning	$1.00 * 1.00 * (19.50 * .45) = 8.7750$ Add up to Plinth $1.00 * 4.00 * (1.20 * .30) = 1.4400$ Add Front Steps $1.00 * (1(19.50 * .45) + 4(1.20 * .30)) = 10.2150$ Square metre(Sqm)	Cement(Bag) Skilled Unskilled 0.4495 Bag 0.4392 Number (Nos.) 0.5618 Number (Nos.)
19 Applying one coat of distemper primer of approved quality on wall surface	$1.00 * 1.00 * (17.5 * 2.90) = 50.7500$ Add Inside wall $1.00 * 2.00 * (1.0 * 2.0) = 4.0000$ Subtract For Doors $1.00 * 4.00 * (.90 * 1.20) = 4.3200$ Subtract For windows $1.00 * (+1(17.5 * 2.90) - 2(1.0 * 2.0) - 4(.90 * 1.20)) = 42.4300$ Square metre(Sqm)	Primer Skilled Unskilled 3.4368 Litre (Ltr) 1.3365 Number (Nos.) 1.5275 Number (Nos.)

Estimate No:

<p>20 Finishing walls water proofing cement paint of approved quality and of required shade on new work (three or more coats) to give an even shade</p>	<p>Add outside 1.00*1.00*(19.5 * 2.90)=56.5500 plastering Add Chajja 1.00*2.00*(1.20 * .45)=1.0800 Add Chajja 1.00*4.00*(1.10 * .45)=1.9800 1.00*(1(19.5 * 2.90)+2(1.20 * .45)+4(1.10 * .45))=59.6100 Square metre(Sqm)</p>	<p>Water Proofing Cement Paint Skilled Unskilled</p> <p>32.6067 Kilogram(KG) 5.1861 Number (Nos.) 6.5571 Number (Nos.)</p>
<p>21 6 mm cement plaster to ceiling 1:4(1 cement :4 river sand)</p>	<p>Add 1.00*1.00*(6.50 * 4.55)=29.5750 1.00*(1(6.50 * 4.55))=29.5750 Square metre(Sqm)</p>	<p>Sand (coarse)(Cubic metre(Cum)) Skilled Unskilled</p> <p>0.2483 Cubic metre(Cum) 2.9871 Number (Nos.) 6.5065 Number (Nos.)</p>
<p>22 Applying one coat of cement primer of approved quality on wall surface</p>	<p>Add outside 1.00*1.00*(19.5 * 2.90)=56.5500 plastering Add For chajja 1.00*2.00*(1.2 * 0.45)=1.0800 Add For chajja 1.00*4.00*(1.10 * 0.45)=1.9800 1.00*(+1(19.5 * 2.90)+2(1.2 * 0.45)+4(1.10 * 0.45))=59.6100 Square metre(Sqm)</p>	<p>Cement Primer Skilled Unskilled</p> <p>4.1727 Litre (Ltr) 1.8777 Number (Nos.) 2.1460 Number (Nos.)</p>
<p>23 Applying priming coats with ready mixed pink primer of approved quality on wood work complete</p>	<p>Add For Doors 1.00*4.00*(1.0 * 2.0)=8.0000 Add For windows 1.00*8.00*(.90 * 1.20)=8.6400 1.00*(4(1.0 * 2.0)+8(.90 * 1.20))=16.6400 Square metre(Sqm)</p>	<p>Primer Skilled Unskilled</p> <p>1.2480 Litre (Ltr) 0.6922 Number (Nos.) 0.8653 Number (Nos.)</p>
<p>24 Painting two or more coats (excluding priming coat) with superior ready mixed paint for wood of approved quality in all shades on new work to give an even shade</p>	<p>Add For Doors 1.00*4.00*(1.0 * 2.0)=8.0000 Add For windows 1.00*8.00*(.90 * 1.20)=8.6400 1.00*(4(1.0 * 2.0)+8(.90 * 1.20))=16.6400 Square metre(Sqm)</p>	<p>Wood Paint Skilled Unskilled</p> <p>2.0800 Litre (Ltr) 1.4643 Number (Nos.) 1.8138 Number (Nos.)</p>

Estimate No:

<p>25 Distemping(two or more coats)with oil bound washable distemper of approved quality and of required shade on new work over including a priming coat with distemper primer of approved quality to give an even shade</p>	<p>Add Inside wall $1.00 * 1.00 * (17.5 * 2.90) = 50.7500$ Subtract For $1.00 * 2.00 * (1.0 * 2.0) = 4.0000$ Doors Subtract For $1.00 * 4.00 * (.90 * 1.20) = 4.3200$ Windows $1.00 * (+1(17.5 * 2.90) - 2(1.0 * 2.0) - 4(.90 * 1.20)) = 42.4300$ Square metre(Sqm)</p>	<p>Oil bound washable distemper Skilled Unskilled 4.7522 Kilogram(KG) 3.2459 Number (Nos.) 3.6914 Number (Nos.)</p>
<p>26 Requirement of paint Brush as per direction of Eng-in-Charge</p>	<p>Add $1.00 * 4.00 * (1) = 4.0000$ $1.00 * (4(1)) = 4.0000$ Each</p>	<p>Paint Brush(4 inch) 4.0000 Each</p>
<p>27 Requirement of Sand Paper as per direction of Eng-in-Charge</p>	<p>Add $1.00 * 10.00 * (1) = 10.0000$ $1.00 * (10(1)) = 10.0000$ Each</p>	<p>Sand paper{Number (Nos.)} 10.0000 Number (Nos.)</p>
<p>28 Requirement of Thinner as per direction of Eng-In-Charge</p>	<p>Add $1.00 * 1.00 * (1) = 1.0000$ $1.00 * (1(1)) = 1.0000$ Litre (Ltr)</p>	<p>Thinner 1.0000 Litre (Ltr)</p>
<p>29 Scraping with sand paper and preparing the surface smooth including necessary repairs to surfaces etc. complete.</p>	<p>Add Inside wall $1.00 * 1.00 * (17.5 * 2.90) = 50.7500$ Add Out side wall $1.00 * 1.00 * (19.50 * 2.90) = 56.5500$ $1.00 * (1(17.5 * 2.90) + 1(19.50 * 2.90)) = 107.3000$ Square metre(Sqm)</p>	<p>Sand paper{Square metre(Sqm)} Unskilled 5.1504 Each 3.7555 Number (Nos.)</p>

Estimate No:

<p>30 Cement concrete to flooring 1:2:4(1 cement : 2 Flyer sand : 4 stone aggregate 20 mm nominal size) finished with a floating coat of neat cement 40 mm thick</p>	<p>Add 1.00*1.00*(5.35 * 3.40)=18.1900 1.00*(1(5.35 * 3.40))=18.1900 Square metre(Sqm)</p>	<p>Cement{Bag} Brick aggregate(20-12.5mm) {Number (Nos.)} Sand (Coarse){Cubic metre(Cum)} Semi Skilled Unskilled</p> <p>5.4570 Bag 194.2690 Number (Nos.) 0.4602 Cubic 2.8740 metre(Cum) 3.8854 Number (Nos.) 5.2569 Number (Nos.)</p>
<p>31 Providing and fixing 35 mm thick paneled,glazed or paneled and glazed shutters for doors,including black enameled M.S. butt hinges with necessary screws for granit wood.</p>	<p>Add For Doors 1.00*2.00*(1 * 2)=4.0000 Add For Windows 1.00*4.00*(.90 * 1.20)=4.3200 1.00*(+2(1 * 2)+4(.90 * 1.20))=8.3200 Square metre(Sqm)</p>	<p>Garnair Highly skilled Skilled Unskilled</p> <p>0.3058 Cubic 23.5456 metre(Cum) 15.6416 Number (Nos.) 6.8224 Number (Nos.)</p>
<p>32 Providing and fixing M.S.Grills (Plain) of required pattern in wooden frames of windows etc with M.S. flats square or round bars with round headed bolts and nuts or by screws for plain grill.</p>	<p>Add for windows 1.00*4.00*(.90 * 1.20)=4.3200 1.00*(4(.90 * 1.20))=4.3200 Square metre(Sqm)</p>	<p>M.S.Grill Highly skilled Unskilled</p> <p>64.8000 Kilogram(KG) 1.2960 Number (Nos.) 4.5360 Number (Nos.)</p>
<p>33 Providing and fixing MS tower bolts (barrel type) with necessary screws etc. complete for 200 * 10 mm.</p>	<p>Add for Doors 1.00*4.00*(1)=4.0000 1.00*(+4(1))=4.0000 Each</p>	<p>Tower Bolt Skilled</p> <p>4.0000 Number (Nos.) 0.2200 Number (Nos.)</p>
<p>34 Providing and fixing MS tower bolts (barrel type) with necessary screws etc. complete for 150 * 10 mm.</p>	<p>Add for windows 1.00*8.00*(1)=8.0000 1.00*(8(1))=8.0000 Each</p>	<p>Tower Bolt Skilled</p> <p>8.0000 Number (Nos.) 0.3360 Number (Nos.)</p>
<p>35 Providing and fixing M.S. sliding door bolts(250x16mm) bright finished or/and black enameled with necessary nuts and screws etc complete.</p>	<p>Add 1.00*1.00*(1)=1.0000 1.00*(1(1))=1.0000 Each</p>	<p>Screws Sliding Door Bolts Skilled</p> <p>12.0000 Number (Nos.) 1.0000 Number (Nos.) 0.0210 Number (Nos.)</p>

Estimate No:

	Add	1.00*1.00*(1)=1.0000	
		1.00*(1(1))=1.0000 Each	

Estimate No:

Construction Of Earthquake Resistant Jay House At West Tripura District

Requirement of materials, Labour and Funds for construction of Summary of materials and Labour Usages

ANNEXURE III

Sl No	Description	Unit	Requirement as per ANNEXURE II	Cost of 1 unit as per RD Schedule	Cost of work as per RD Schedule	Market cost of item at location	Approved cost of work at location
	Cement(Bag)	Bag	111	327.00	36,584.02	36,297.00	
	TMT bar (8mm)	Kilogram(KG)	584.54	56.32	32,920.48		
	TMT bar (10mm)	Kilogram(KG)	355.94	55.78	19,854.11		
	Brick aggregate (40mm) (Price/GT)	Number (Nos.)	737	736.79	5,457.50	5,896.00	
	Brick aggregate(20-12.5mm)(Price/GT)	Number (Nos.)	1545	4,544.55	40,011.82	1,23,601.00	
	1st class bricks(Number (Nos.))	Number (Nos.)	4573	4,573.33	32,013.31	36,584.02	
	Stone aggregate (20mm) (Price/GT)	Cubic metre(Cum)	1001	3.34	43,082.76	8,008.00	
	Sand (coarse)(Cubic metre(Cum))	Cubic metre(Cum)	12	44.88	736.79	6,000.00	
	Sand(LOCAL)	Cubic metre(Cum)	2.71	140	881.88	3,991.00	
	Primer	Litre (Ltr)	5	4.66	374.79	3,000.00	
	Cement Primer	Litre (Ltr)	4	4.47	790.22	5,360.00	
	Water Proofing Cement Paint	Kilogram(KG)	30	32.64	2,119.44	1,350.00	
	Wood Paint	Litre (Ltr)	2	2.88	567.84	548.00	
	Thinner	Litre (Ltr)	1.00	1.00	450.00	650.00	
	Paint Brush(4 inch)	Each	4.00	100	672.00	400.00	
	Sand paper(4 inch)	Number (Nos.)	10.00	3.00	30.00	450.00	
	Oil bound washable distemper	Kilogram(KG)	6	4.75	75	65.00	
	Sand paper(Square metre(Sqm))	Each	5	5.15	15.45	15.00	
	Garnair	Cubic metre(Cum)	0.31	30	405	9,900.00	
	C. C. Jall	Square metre(Sqm)	0.27	330.00	89.10		
	Screws	Number (Nos.)	168.00	0.50	84.00		
	M.S.Grill	Kilogram(KG)	64.80	75	9,750.00	4,018.00	
	Barak Bamboo	Each	30	9.75	4,660.00	4,500.00	
	Mull Bamboo	Each	50	64.94	4,662.50	4,500.00	
	Dhari Mat(1.2x1.2m)	Each	21	30.56	4,629.38	1,250.00	
	Polythene	Kilogram(KG)	8	7.61	4,607.77	1,428.00	
	Nails	Kilogram(KG)	8	8.04	608.70	640.00	
	8/11 Rops	Kilogram(KG)	7	6.44	603.28	600.00	
	Centring Shuttering	Square metre(Sqm)	73.13	186	4,500.00	1,36,021.00	
	Vibrator Machine	Each	1.00	600.00	19,528.13		
	Mixture Machine	Each	1.00	1,500.00	600.00		
	Black Wire	Kilogram(KG)	8.55	75.00	1,500.00		
	Butt Hinges(100x47x1.9mm)	Each	22.00	35	641.23	790.00	
	Aluminium Handle(100mm)	Each	2.00	25.00	4,430.00		
	Aluminium Handle(75mm)	Each	4.00	17.00	50.00		
	Sliding Door Bolts	Number (Nos.)	1.00	200.00	68.00		

Estimate No:

	Number (Nos.)	12.00	35.00	420.00
Tower Bolt	Number (Nos.)	12.00	35.00	420.00
Mechanical transportation	Cubic metre (Cum)	9.41	150.00	1,412.00
				2,06,302.00
				Total of Material Components (A): 206,607.98
Highly skilled	Number (Nos.)	43.00	280.00	12,040.00
Skilled	Number (Nos.)	60.00	245.00	14,700.00
Semi Skilled	Number (Nos.)	34	54.96	44,340.00
Unskilled	Number (Nos.)	154.00	182.00	28,028.00
				Total of Manpower Component (B): 66,108.00
				Total C=(A+B): 272,715.98

Add 3% Contingency = ₹ 82208.00
 Add 5% Price escalation = ₹ 13,830.00

Subtotal D=(C+C1+C2+C3+C4+C5):

Add 1% for labour cess = ₹ 2,987.00
 Grand Total E=(D+D1+D2): **272,715.00**

RUPEES-TWO LAKHS SEVENTY-TWO THOUSAND SEVEN HUNDRED FIFTEEN ONLY
 [Rupees two lakhs seventy two thousand seven hundred thirty six only]
 [Rupees three lakhs only]

Prepared by

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