

## Detailed Estimate

**OD/358/3419/275614/422503/00069325 : CONSTRUCTION OF VANA SURAKSHA SAMITI BUILDING AT KUTIHEJU**  
**Block : Madanpur Rampur, Gram Panchayat : Singpur**  
**Created By:JE DILLIP**

<b>1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift</b>								
Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	9.000	1.200	1.200	1.200	1.000	15.552	-
ii	Walls	3.000	3.860	0.760	0.760	1.000	6.689	-
iii		3.000	3.450	0.760	0.760	1.000	5.978	-
iv		1.000	2.800	0.600	0.600	1.000	1.008	-
<b>Total Quantity</b>					29.226768 cum (cum)		29.226768 Cum (Cubic Meter)	
<b>Amount</b>					<b>29.226768 X 240.77592</b>		<b>7037.10</b>	
<b>2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed</b>								
Filling foundation and plinth with sand well watered and rammed including cost, conveyance, royalty, taxes of all materials, labours and T & P required for the work etc. complete and as per direction of Engineer-in charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	9.000	1.200	1.200	0.150	1.000	1.944	-
ii	Walls	3.000	3.860	0.760	0.150	1.000	1.320	-
iii		3.000	3.450	0.760	0.150	1.000	1.180	-
iv		1.000	3.530	2.330	0.300	1.000	2.467	-
v		1.000	1.720	2.330	0.300	1.000	1.202	-
vi		1.000	5.390	3.120	0.300	1.000	5.045	-

Total Quantity	13.15881 cum (cum)	13.15881 Cum (Cubic Meter)
Amount	13.15881 X 820.931232	10802.48

### 3. Concrete (AR0303a) : Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal

Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal including laying in layers not exceeding 300 mm in depth, ramming, compacting to proper thickness, watering and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	9.000	1.200	1.200	0.150	1.000	1.944	-
ii	Walls	3.000	3.860	0.760	0.100	1.000	0.880	-
iii		3.000	3.450	0.760	0.100	1.000	0.787	-
iv		1.000	2.330	0.600	0.100	1.000	0.140	-
v		1.000	5.380	3.120	0.100	1.000	1.679	-
vi		1.000	3.530	2.330	0.100	1.000	0.822	-
vii		1.000	1.720	2.330	0.100	1.000	0.401	-
Total Quantity					6.65229 cum (cum)		6.65229 Cum (Cubic Meter)	
Amount					6.65229 X 5772.20157666		38398.36	

### 4. R.C.C. Work (AR0404Aa) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC foundation, footing bases of column, mass concrete, pre-cast slabs etc.)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Footings	9.000	1.200	1.200	0.150	1.000	1.944	-
ii		9.000	0.750	1.000	0.450	1.000	3.038	-
Total Quantity					4.9815 cum (cum)		4.9815 Cum (Cubic Meter)	

<b>Amount</b>						<b>4.9815 X 6607.8016388283</b>	<b>32916.76</b>	
<b>5. R.C.C. Work (AR0404Ab) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								
Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Plinth band)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Plinth	3.000	5.900	0.230	0.300	1.000	1.221	-
ii		3.000	6.300	0.230	0.300	1.000	1.304	-
Total Quantity					2.5254 cum (cum)		2.5254 Cum (Cubic Meter)	
<b>Amount</b>						<b>2.5254 X 7367.9364910884</b>	<b>18606.99</b>	
<b>6. R.C.C. Work (AR0404Ac) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								
Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column(Below plinth)	9.000	0.230	0.300	1.300	1.000	0.807	-
ii	Column SS	9.000	0.230	0.300	2.900	1.000	1.801	-
iii	Beam	3.000	5.900	0.230	0.230	1.000	0.936	-
iv		3.000	6.300	0.230	0.230	1.000	1.000	-
Total Quantity					4.54434 cum (cum)		4.54434 Cum (Cubic Meter)	
<b>Amount</b>						<b>4.54434 X 14687.171824959</b>	<b>66743.50</b>	
<b>7. R.C.C. Work (AR0404Ad) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintel	3.000	5.900	0.230	0.150	1.000	0.611	-
ii	Lintel	2.000	6.300	0.230	0.150	1.000	0.435	-
iii	Chajja	1.000	5.900	0.460	0.070	1.000	0.190	-
iv	Chajja	3.000	1.370	0.460	0.070	1.000	0.132	-
Total Quantity					1.367672 cum (cum)		1.367672 Cum (Cubic Meter)	
Amount					1.367672 X 13306.311088252		18198.67	

**8. R.C.C. Work (AR0404Ae) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips**

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Stairs excluding landing but including railing)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Stairs	18.000	0.900	0.350	0.150	1.000	0.851	-
ii		1.000	0.900	0.460	0.100	1.000	0.041	-
iii		1.000	0.900	0.460	0.100	1.000	0.041	-
Total Quantity					0.9333 cum (cum)		0.9333 Cum (Cubic Meter)	
Amount					0.9333 X 14565.221799042		13593.72	

**9. R.C.C. Work (AR0404Ag) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips**

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Roof slab, landing, balcony, sun shade)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Slab	1.000	6.200	6.600	0.120	1.000	4.910	-
Total Quantity					4.9104 cum (cum)		4.9104 Cum (Cubic Meter)	
Amount					4.9104 X 12944.833749381		63564.31	

**10. Masonry Brick Work (AR0603b) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth**

Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth having crushing strength not less than 75.00 Kg/cm<sup>2</sup> with dimensional tolerance  $\pm 8$  percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	5.900	0.380	0.686	1.000	3.075	-
ii		2.000	6.300	0.380	0.686	1.000	3.284	-
iii	Columns	9.000	0.230	0.300	0.686	1.000	-	0.426
Total Quantity					5.9328558 cum (cum)		5.9328558 Cum (Cubic Meter)	
Amount					5.9328558 X 5187.202711488		30774.93	

**11. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure**

Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm<sup>2</sup> with dimensional tolerance  $\pm 8$  percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		3.000	5.900	0.250	2.900	1.000	12.833	-
ii		2.000	6.300	0.250	2.900	1.000	9.135	-
iii		1.000	2.330	0.250	2.900	1.000	1.689	-
iv	COLUMN	9.000	0.230	0.300	2.900	1.000	-	1.801

v	D	2.000	1.060	0.250	2.130	1.000	-	1.129	
vi		1.000	0.760	0.250	1.830	1.000	-	0.348	
vii	W	1.000	1.220	0.250	1.160	1.000	-	0.354	
viii		1.000	1.500	0.250	1.160	1.000	0.435	-	
ix	Parapet	2.000	5.900	0.250	0.910	1.000	2.685	-	
x		2.000	6.300	0.250	0.910	1.000	2.867	-	
Total Quantity					26.01145 cum (cum)		26.01145 Cum (Cubic Meter)		
Amount					26.01145 X 5220.532711488		135793.63		

## 12. Plastering (AR1004) : 12mm thick cement plster (1:6) over Brick work in inside

12mm thick cement plster (1:6) over Brick work in inside including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc. comp.and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	5.900	0.000	3.050	1.000	35.990	-
ii		2.000	6.300	0.000	3.050	1.000	38.430	-
iii	ded door	1.000	0.760	0.000	1.960	1.000	-	1.490
iv	D	1.000	1.060	0.000	2.130	1.000	-	2.258
v	W1	1.000	1.220	0.000	1.160	1.000	-	1.415
vi	W2	1.000	1.500	0.000	1.160	1.000	-	1.740
vii	Parapet	2.000	5.900	0.000	0.900	1.000	10.620	-
viii		2.000	6.300	0.000	0.900	1.000	11.340	-
ix		2.000	5.400	0.000	0.900	1.000	9.720	-
x		2.000	5.800	0.000	0.900	1.000	10.440	-

Total Quantity	109.6374 Sqm (Sqm)	109.6374 Sqm (Square Meter)
Amount	<b>109.6374 X 173.5709839132</b>	<b>19029.87</b>

**13. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.**

16mm thick cement Plaster in CM (1:6) over brick work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp.and as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	5.380	0.000	2.900	1.000	31.204	-
ii		2.000	3.120	0.000	2.900	1.000	18.096	-
iii		2.000	3.550	0.000	2.900	1.000	20.590	-
iv		2.000	2.330	0.000	2.900	1.000	13.514	-
v		2.000	1.720	0.000	2.900	1.000	9.976	-
vi		2.000	2.330	0.000	2.900	1.000	13.514	-
vii	Ded Door	2.000	1.060	0.000	2.130	1.000	-	4.516
viii		1.000	0.760	0.000	1.830	1.000	-	1.391
ix		1.000	1.220	0.000	1.160	1.000	-	1.415
x		1.000	1.500	0.000	1.160	1.000	-	1.740

Total Quantity	97.8324 Sqm (Sqm)	97.8324 Sqm (Square Meter)
Amount	<b>97.8324 X 248.569445822</b>	<b>24318.15</b>

**14. Concrete (AR0317) : 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips**

2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete as per specifaion and direction of Engineer-in charge. (new work)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
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i	Slab	1.000	6.200	6.600	0.000	1.000	40.920	-
ii	Steps	18.000	0.900	0.350	0.000	1.000	5.670	-
iii		18.000	0.900	0.000	0.150	1.000	2.430	-
iv	Landings	1.000	0.900	0.460	0.000	1.000	0.414	-
v		1.000	0.900	0.560	0.000	1.000	0.504	-
Total Quantity					49.938 Sqm (Sqm)		49.938 Sqm (Square Meter)	
Amount					49.938 X 364.9107813532		18222.91	
<b>15. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)</b>								
6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	HALL	1.000	5.380	3.120	0.000	1.000	16.786	-
ii	OFFICE	1.000	3.530	2.330	0.000	1.000	8.225	-
iii	TOILET	1.000	1.720	2.330	0.000	1.000	4.008	-
Total Quantity					29.0181 Sqm (Sqm)		29.0181 Sqm (Square Meter)	
Amount					29.0181 X 192.1798153288		5576.69	
<b>16. R.C.C. Work (AR0409) : Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position</b>								
Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge with cost of steel rod and as per drawing, design, and direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	1 CUM=1.05 QTL	18.444	0.000	0.000	0.000	1.050	19.366	-
Total Quantity					19.3662 Qntl (Quintal)		19.3662 Qntl (Quintal)	

<b>Amount</b>						<b>19.3662 X 8678.1421293</b>	<b>168062.64</b>	
<b>17. Iron Work (AR1704) : Iron Doors and windows fixing</b>								
Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	DOOR	2.000	1.060	2.130	0.000	35.000	158.046	-
ii		1.000	0.760	1.830	0.000	35.000	48.678	-
iii	WINDOW	1.000	1.220	1.160	0.000	25.000	35.380	-
iv		1.000	1.500	1.160	0.000	25.000	43.500	-
Total Quantity					285.604 Kg (Kilo Gram)		2.85604 Qntl (Quintal)	
<b>Amount</b>						<b>2.85604 X 16009.060973087</b>	<b>45722.52</b>	
<b>18. Plastering (AR1006) : 12mm thick cement plaster (1:4) over brickwork in inside</b>								
12mm thick cement plaster (1:4) over brickwork in inside with cement punning for skirting/wall punning including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc. comp. and as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	BELOW PLINTH	2.000	5.900	0.000	0.600	1.000	7.080	-
ii		2.000	6.300	0.000	0.600	1.000	7.560	-
Total Quantity					14.64 Sqm (Sqm)		14.64 Sqm (Square Meter)	
<b>Amount</b>						<b>14.64 X 195.8201491176</b>	<b>2866.81</b>	
<b>19. Flooring (AR0802ii) : 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips</b>								
2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips including punning incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction

i	HALL	1.000	5.380	3.120	0.000	1.000	16.786	-
ii	OFFICE	1.000	3.530	2.330	0.000	1.000	8.225	-
iii	TOILET	1.000	1.720	2.330	0.000	1.000	4.008	-
Total Quantity					29.0181 Sqm (Sqm)		29.0181 Sqm (Square Meter)	
Amount					29.0181 X 371.4868974132		10779.84	

**20. Painting (AR0901b) : Priming one coat in inner surface with primer of approved quality over iron work.**

Priming one coat in inner surface with primer of approved quality over iron work including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	D	2.000	1.060	0.000	2.130	2.250	10.160	-
ii		1.000	0.760	0.000	1.830	2.250	3.129	-
iii	W	1.000	1.220	0.000	1.160	2.250	3.184	-
iv		1.000	1.500	0.000	1.160	2.250	3.915	-
Total Quantity					20.3886 Sqm (Sqm)		20.3886 Sqm (Square Meter)	
Amount					20.3886 X 66.13518608651		1348.40	

**21. Painting (AR0901d) : Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface)**

Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	INSIDE QTY	126.848	0.000	0.000	0.000	1.000	126.848	-
Total Quantity					126.8481 Sqm (Sqm)		126.8481 Sqm (Square Meter)	
Amount					126.8481 X 71.86275175751		9115.65	

<b>22. Painting (AR0922) : Finishing wall two coats with distemper of approved shades on new work (Inside)</b>								
Finishing wall two coats with distemper of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	INSIDE QTY	126.848	0.000	0.000	0.000	1.000	126.848	-
Total Quantity					126.8481 Sqm (Sqm)		126.8481 Sqm (Square Meter)	
Amount					126.8481 X 78.925583925		10011.56	
<b>23. Painting (AR0918ca) : Finishing wall two coats with weather coat with one coat oilbound Primer</b>								
Finishing wall surface two coats with weather coat with one coat oilbound Primer including all costs of labour, Paint, Primer, Brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	OUTSIDE QTY	124.277	0.000	0.000	0.000	1.000	124.277	-
Total Quantity					124.2774 Sqm (Sqm)		124.2774 Sqm (Square Meter)	
Amount					124.2774 X 156.26092852001		19419.70	
<b>24. Other Building Items. (AR1911) : Stainless steel of 304 grade in hand railing using 50mm dia of 2mm</b>								
Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in staircase as per approved design and specification, buffing, polishing etc with cost,conveyance, taxes of all materials, labour,T&P etc. required for the complete in all respect. and as per direction of Engineer in Charge								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	0.754	0.000	0.000	0.000	0.754	-
Total Quantity					0.754 DM (Decimtr)		7.54 Rmt (Meter)	
Amount					7.54 X 3129.0244276074		23592.84	
<b>Total Amount</b>							<b>794498.04</b>	

<b>Addition</b>	
Provision for PH Work (+) @	16800.00
Provision for EI Work (+) @	13900.00
Provision for Contingency (+) @	7944.98
Display Citizen Board (+) @	5000.00
Any Other Lumpsum (+) @	
Provision for survey investigation and quality control (+) @	7944.98
<b>Total Addition</b>	<b>51589.96</b>
<b>Grand Net Total Amount</b>	<b>846088.00</b>

**JE DILLIP**  
**JE**  
Madanpur Rampur Block

**AEE MRAMPUR**  
**AEE**  
Madanpur Rampur Block

**Sharat Kumar Sethi**  
**BDO**  
Madanpur Rampur Block