

Detailed Estimate

OD/364/3484/119960/430234/00015497 : Construction of VSS building at Sukraguda

Block : Malkangiri, Panchayat : Challanguda

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| 1. Earth Work (AR0122Ai1) : Earthwork in all kinds of soil within 50m to 75m 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 | | | | | | | | | |
|---|--------------|-------|--------|-------|----------------------------------|-------|--------------------------|-----------|--|
| Earthwork in all kinds of soil within 50m to 75m 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 direction of the Engineer-in-charge. | | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction | |
| i | wall | 1.000 | 32.800 | 0.600 | 0.700 | 0.000 | 13.776 | - | |
| ii | septic tank | 1.000 | 3.000 | 2.100 | 1.800 | 0.000 | 11.340 | - | |
| iii | column | 9.000 | 1.200 | 1.200 | 1.200 | 0.000 | 15.552 | - | |
| iv | column | 9.000 | 1.200 | 0.600 | 0.700 | 0.000 | - | 4.536 | |
| Total Quantity | | | | | 36.132 cum (cum) | | 36.132 Cum (Cubic Meter) | | |
| Amount | | | | | 36.132 X 229.87334168 | | 8305.78 | | |
| 2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed | | | | | | | | | |
| 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. | | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction | |
| i | wall | 1.000 | 32.800 | 0.600 | 0.100 | 0.000 | 1.968 | - | |
| ii | column | 9.000 | 1.200 | 1.200 | 0.100 | 0.000 | 1.296 | - | |
| iii | septic tank | 1.000 | 3.000 | 2.100 | 0.100 | 0.000 | 0.630 | - | |
| iv | office | 1.000 | 3.800 | 2.150 | 0.400 | 0.000 | 3.268 | - | |
| v | meeting hall | 1.000 | 5.450 | 3.250 | 0.400 | 0.000 | 7.085 | - | |
| vi | toilet | 1.000 | 1.350 | 2.150 | 0.400 | 0.000 | 1.161 | - | |
| vii | column | 9.000 | 1.200 | 0.600 | 0.100 | 0.000 | - | 0.648 | |
| Total Quantity | | | | | 14.76 cum (cum) | | 14.76 Cum (Cubic Meter) | | |

| Amount | | | | | 14.76 X 580.009872 | 8560.95 | | |
|---|--------------|-------|--------|-------|----------------------------------|----------------|-----------------------------|-----------|
| 3. Concrete (AR0304a) : Cement concrete (1:4:8) with 4 cm. hard granite(Hand Broken) metal | | | | | | | | |
| Cement concrete (1:4:8) 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. | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
| i | wall | 1.000 | 32.800 | 0.600 | 0.150 | 0.000 | 2.952 | - |
| ii | column | 9.000 | 1.200 | 1.200 | 0.150 | 0.000 | 1.944 | - |
| iii | wall footing | 1.000 | 32.800 | 0.500 | 0.900 | 0.000 | 14.760 | - |
| iv | office | 1.000 | 3.800 | 2.150 | 0.150 | 0.000 | 1.226 | - |
| v | meeting hall | 1.000 | 5.450 | 3.250 | 0.150 | 0.000 | 2.657 | - |
| vi | step | 3.000 | 2.000 | 0.500 | 0.200 | 0.000 | 0.600 | - |
| vii | column | 9.000 | 1.200 | 1.200 | 0.150 | 0.000 | 1.944 | - |
| Total Quantity | | | | | 26.082375 cum (cum) | | 26.082375 Cum (Cubic Meter) | |
| Amount | | | | | 26.082375 X 5192.84653816 | | 135441.77 | |
| 4. R.C.C. Work (AR0404A) : 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. complete and as per direction of Engineer-in charge. (excluding centering and shuttering) | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
| i | footing | 9.000 | 1.200 | 1.200 | 0.300 | 0.000 | 3.888 | - |
| ii | grade beam | 1.000 | 32.800 | 0.230 | 0.300 | 0.000 | 2.263 | - |
| iii | Roof beam | 1.000 | 32.800 | 0.230 | 0.300 | 0.000 | 2.263 | - |
| iv | beam2 | 1.000 | 7.500 | 0.230 | 0.450 | 0.000 | 0.776 | - |
| v | lintel beam | 1.000 | 32.800 | 0.230 | 0.150 | 0.000 | 1.132 | - |
| vi | chajja | 1.000 | 5.850 | 0.500 | 0.075 | 0.000 | 0.219 | - |

| | | | | | | | | |
|----------------|-----------|--------|-------|-------|-------------------------------|-------|----------------------------|---|
| vii | roof slab | 1.000 | 6.380 | 7.400 | 0.125 | 0.000 | 5.902 | - |
| viii | staircase | 1.000 | 4.500 | 1.350 | 0.125 | 0.000 | 0.759 | - |
| ix | step | 24.000 | 1.350 | 0.250 | 0.200 | 0.000 | 1.620 | - |
| x | column | 9.000 | 0.230 | 0.230 | 4.200 | 0.000 | 2.000 | - |
| Total Quantity | | | | | 20.82212 cum (cum) | | 20.82212 Cum (Cubic Meter) | |
| Amount | | | | | 20.82212 X 6320.6691958674 | | 131609.73 | |

5. 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

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.

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|----------------|-------------|-------|--------|-------|-------------------|-------|-------------------|-----------|
| i | 90% of RCC | 1.000 | 18.000 | 0.000 | 0.000 | 0.000 | 18.000 | - |
| Total Quantity | | | | | 18 Qntl (Quintal) | | 18 Qntl (Quintal) | |
| Amount | | | | | 18 X 8710.1454337 | | 156782.62 | |

6. Masonry Brick Work (AR0602di) : C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure

Brickwork with C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure having crushing strength not less than 75.00 Kg/cm² 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.

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|-------|------------------|-------|--------|-------|-------|-------|----------|-----------|
| i | walls | 1.000 | 25.750 | 0.230 | 2.850 | 0.000 | 16.879 | - |
| ii | walls2 | 1.000 | 6.200 | 0.230 | 2.850 | 0.000 | 4.064 | - |
| iii | parapet | 1.000 | 24.000 | 0.230 | 0.900 | 0.000 | 4.968 | - |
| iv | Column deduction | 9.000 | 0.230 | 0.230 | 2.850 | 0.000 | - | 1.357 |
| v | lintel deduction | 1.000 | 25.750 | 0.230 | 0.150 | 0.000 | - | 0.888 |
| vi | septic tank | 4.000 | 3.000 | 0.230 | 1.800 | 0.000 | 4.968 | - |
| vii | D1 | 1.000 | 1.050 | 0.230 | 2.100 | 0.000 | - | 0.507 |

| | | | | | | | | |
|----------------|----|-------|-------|-------|----------------------------------|-------|----------------------------|-------|
| viii | D2 | 1.000 | 0.750 | 0.230 | 2.100 | 0.000 | - | 0.362 |
| ix | w1 | 1.000 | 1.000 | 1.500 | 0.230 | 0.000 | - | 0.345 |
| x | w2 | 1.000 | 1.050 | 0.230 | 1.350 | 0.000 | - | 0.326 |
| Total Quantity | | | | | 27.09354 cum (cum) | | 27.09354 Cum (Cubic Meter) | |
| Amount | | | | | 27.09354 X 5097.81138 | | 138117.76 | |

7. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory

Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4)and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|----------------|-------------|-------|-------|-------|-----------------------------------|-------|-------------------------|-----------|
| i | Room | 1.000 | 7.200 | 5.200 | 0.000 | 0.000 | 37.440 | - |
| ii | Verenda | 1.000 | 7.200 | 1.800 | 0.000 | 0.000 | 12.960 | - |
| Total Quantity | | | | | 50.4 Sqm (Sqm) | | 50.4 Sqm (Square Meter) | |
| Amount | | | | | 50.4 X 1146.1621168306 | | 57766.57 | |

8. 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 | inside room | 2.000 | 7.200 | 3.000 | 0.000 | 0.000 | 43.200 | - |
| ii | short wall | 2.000 | 5.200 | 3.500 | 0.000 | 0.000 | 36.400 | - |
| iii | parapet | 2.000 | 6.000 | 0.900 | 0.000 | 0.000 | 10.800 | - |
| Total Quantity | | | | | 90.4 Sqm (Sqm) | | 90.4 Sqm (Square Meter) | |
| Amount | | | | | 90.4 X 248.634493054 | | 22476.56 | |

9. 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.

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|--|--------------------------|-------|---------|---------|-----------------------------|-------|----------------------------|-----------|
| i | Outside wall | 2.000 | 7.700 | 3.050 | 0.000 | 0.000 | 46.970 | - |
| ii | short wall | 2.000 | 7.200 | 1.800 | 0.000 | 0.000 | 25.920 | - |
| iii | Partition wall | 1.000 | 7.200 | 3.080 | 0.000 | 0.000 | 22.176 | - |
| iv | door | 1.000 | 0.750 | 2.100 | 0.000 | 0.000 | - | 1.575 |
| v | window | 2.000 | 1.050 | 1.350 | 0.000 | 0.000 | - | 2.835 |
| vi | parapet | 4.000 | 6.000 | 0.900 | 0.000 | 0.000 | 21.600 | - |
| Total Quantity | | | | | 112.256 Sqm (Sqm) | | 112.256 Sqm (Square Meter) | |
| Amount | | | | | 112.256 X 174.3620824924 | | 19573.19 | |
| 10. Iron Work (AR1704) : Iron Doors and windows fixing | | | | | | | | |
| 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. | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
| i | door and windows | 1.000 | 0.000 | 400.000 | 0.000 | 0.000 | 400.000 | - |
| Total Quantity | | | | | 400 Kg (Kilo Gram) | | 4 Qntl (Quintal) | |
| Amount | | | | | 4 X 15891.489382976 | | 63565.96 | |
| 11. Painting (AR0922) : Finishing wall two coats with distemper of approved shades on new work (Inside) | | | | | | | | |
| 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) | | | | | | | | |
| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
| i | quantity same as AR0901a | 1.000 | 170.000 | 0.000 | 0.000 | 0.000 | 170.000 | - |
| Total Quantity | | | | | 170 Sqm (Sqm) | | 170 Sqm (Square Meter) | |
| Amount | | | | | 170 X 80.900184425 | | 13753.03 | |
| 12. Other Building Items. (AR1902) : cement based wall putty (water based) | | | | | | | | |

Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|----------------|------------------------|-------|---------|-------|-----------------------|-------|------------------------|-----------|
| i | qntity same as AR01014 | 1.000 | 202.000 | 0.000 | 0.000 | 0.000 | 202.000 | - |
| Total Quantity | | | | | 202 Sqm (Sqm) | | 202 Sqm (Square Meter) | |
| Amount | | | | | 202 X 78.13764 | | 15783.80 | |

13. 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 | qnty same as AR01014 | 1.000 | 90.000 | 0.000 | 0.000 | 0.000 | 90.000 | - |
| ii | qnty same as AR1004 | 1.000 | 112.000 | 0.000 | 0.000 | 0.000 | 112.000 | - |
| Total Quantity | | | | | 202 Sqm (Sqm) | | 202 Sqm (Square Meter) | |
| Amount | | | | | 202 X 70.756555300133 | | 14292.82 | |

14. Flooring (AR0816) : 30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755

Fixing tiles in floors(30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755), treads, or steps and landing on a 25mm thick bed of cement mortar 1:1 (1cement: 1sand) jointed with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing. cost of precast tiles complete as per direction of Engineer-in-charge.

| Sl No | Description | No | L | B | D | CF | Quantity | Deduction |
|----------------|---------------|-------|--------|-------|-------------------------------|-------|-------------------------|-----------|
| i | dado/skirting | 1.000 | 30.000 | 0.150 | 0.000 | 0.000 | 4.500 | - |
| ii | toilet | 4.000 | 1.500 | 2.000 | 0.000 | 0.000 | 12.000 | - |
| Total Quantity | | | | | 16.5 Sqm (Sqm) | | 16.5 Sqm (Square Meter) | |
| Amount | | | | | 16.5 X 1310.4769320896 | | 21622.87 | |

15. Painting (AR0901b) : Fourth Floor

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.

| SI No | Description | No | L | B | D | CF | Quantity | Deduction |
|---------------------------------|----------------------|-------|--------|-------|-----------------------------|-------|-----------------------|-----------|
| i | ms doors and windows | 1.000 | 10.000 | 0.000 | 0.000 | 0.000 | 10.000 | - |
| Total Quantity | | | | | 10 Sqm (Sqm) | | 10 Sqm (Square Meter) | |
| Amount | | | | | 10 X 73.620396968133 | | 736.20 | |
| Total Amount | | | | | | | 808389.62 | |
| Addition | | | | | | | | |
| Provision for PH Work (+) @ | | | | | | | 9090.00 | |
| Provision for EI Work (+) @ | | | | | | | 10520.00 | |
| Provision for Contingency (+) @ | | | | | | | 8500.00 | |
| Display Citizen Board (+) @ | | | | | | | 5000.00 | |
| Any Other Lumpsum (+) @ | | | | | | | 8500.00 | |
| Total Addition | | | | | | | 41610.00 | |
| Grand Net Total Amount | | | | | | | 849999.62 | |