

## Detailed Estimate

**OD/368/3534/120841/421676/00016415 : Improvement Of Road With CD Work From Sirigidi To Nuagaon**  
**Block : Nuapada, Gram Panchayat : Kendubahara**  
**Created By:DHANANJAYA KALO**

| <b>1. Earth Work (AR0102a) : Earth work in hard soil or gravelly soil within 50m. Initial lead and 1.5m initial lift</b>  |                    |       |       |       |                          |       |                          |           |
|---|--------------------|-------|-------|-------|--------------------------|-------|--------------------------|-----------|
| Earth work in hard soil or gravelly soil 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 |                    |       |       |       |                          |       |                          |           |
| Sl No   | Description        | No    | L     | B     | D                        | CF    | Quantity                 | Deduction |
| i   | Abutment           | 2.000 | 6.000 | 1.200 | 1.500                    | 0.000 | 21.600                   | -         |
| ii  | Bed                | 1.000 | 6.000 | 3.000 | 0.300                    | 0.000 | 5.400                    | -         |
| iii   | Wing Wall          | 4.000 | 5.000 | 1.200 | 1.200                    | 0.000 | 28.800                   | -         |
| iv  | Cut off            | 2.000 | 3.650 | 0.600 | 0.900                    | 0.000 | 3.942                    | -         |
| v   | Aprone Cut off U/S | 1.000 | 4.000 | 0.600 | 1.200                    | 0.000 | 2.880                    | -         |
| vi  | D/S cuttof         | 1.000 | 4.000 | 0.600 | 1.500                    | 0.000 | 3.600                    | -         |
| Total Quantity  |                    |       |       |       | 66.222 cum (cum)         |       | 66.222 Cum (Cubic Meter) |           |
| <b>Amount</b>   |                    |       |       |       | <b>66.222 X 196.3036</b> |       | <b>12999.62</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.                                |                    |       |       |       |                          |       |                          |           |
| Sl No   | Description        | No    | L     | B     | D                        | CF    | Quantity                 | Deduction |
| i   | Abutment           | 2.000 | 6.000 | 1.500 | 0.150                    | 0.000 | 2.700                    | -         |
| ii  | Wing Wall          | 2.000 | 5.000 | 1.200 | 0.150                    | 0.000 | 1.800                    | -         |
| iii   | Bed                | 1.000 | 6.000 | 3.650 | 0.150                    | 0.000 | 3.285                    | -         |
| iv  | Aprone Us          | 1.000 | 4.000 | 1.500 | 0.150                    | 0.000 | 0.900                    | -         |
| v   | DS                 | 1.000 | 4.000 | 3.000 | 0.150                    | 0.000 | 1.800                    | -         |
| Total Quantity  |                    |       |       |       | 10.485 cum (cum)         |       | 10.485 Cum (Cubic Meter) |           |

| <b>Amount</b>  |                   |       |       | <b>10.485 X 597.361672</b>      |                    |       | <b>6263.34</b>             |           |
|--|-------------------|-------|-------|---------------------------------|--------------------|-------|----------------------------|-----------|
| <b>3. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal</b>   |                   |       |       |                                 |                    |       |                            |           |
| Cement concrete (1:3:6) with 4 cm. hard granite(Crusher 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  | Abutment          | 2.000 | 6.000 | 1.500                           | 0.300              | 0.000 | 5.400                      | -         |
| ii   |                   | 2.000 | 6.000 | 0.950                           | 3.050              | 0.000 | 34.770                     | -         |
| iii  | Wing walllll      | 4.000 | 5.000 | 1.200                           | 0.300              | 0.000 | 7.200                      | -         |
| iv   |                   | 4.000 | 3.650 | 0.675                           | 3.050              | 0.000 | 30.058                     | -         |
| v  | Cut off US        | 1.000 | 3.000 | 0.500                           | 0.750              | 0.000 | 1.125                      | -         |
| vi   | DS                | 1.000 | 3.000 | 0.500                           | 1.000              | 0.000 | 1.500                      | -         |
| vii  | Aprone cut off us | 1.000 | 4.000 | 0.500                           | 0.900              | 0.000 | 1.800                      | -         |
| viii   | D                 | 1.000 | 4.000 | 0.500                           | 1.500              | 0.000 | 3.000                      | -         |
| ix   | Vent              | 1.000 | 6.000 | 3.000                           | 0.150              | 0.000 | 2.700                      | -         |
| x  | Aprone Bed        | 1.000 | 4.000 | 1.500                           | 0.150              | 0.000 | 0.900                      | -         |
| xi   | DS                | 1.000 | 4.000 | 3.000                           | 0.150              | 0.000 | 1.800                      | -         |
| Total Quantity   |                   |       |       |                                 | 90.25275 cum (cum) |       | 90.25275 Cum (Cubic Meter) |           |
| <b>Amount</b>  |                   |       |       | <b>90.25275 X 5403.18274486</b> |                    |       | <b>487652.10</b>           |           |
| <b>4. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc</b>  |                   |       |       |                                 |                    |       |                            |           |
| Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc  |                   |       |       |                                 |                    |       |                            |           |
| Sl No  | Description       | No    | L     | B                               | D                  | CF    | Quantity                   | Deduction |
| i  | Abutment          | 2.000 | 6.000 | 3.050                           | 0.000              | 0.000 | 36.600                     | -         |
| ii   | Wing wall         | 2.000 | 4.000 | 5.000                           | 3.050              | 0.000 | 122.000                    | -         |
| iii  | Cut off us        | 2.000 | 3.000 | 0.750                           | 0.000              | 0.000 | 4.500                      | -         |

|                |                |       |       |       |                            |       |                          |   |
|----------------|----------------|-------|-------|-------|----------------------------|-------|--------------------------|---|
| iv             | Ds             | 2.000 | 3.000 | 1.000 | 0.000                      | 0.000 | 6.000                    | - |
| v              | Aprone cut off | 2.000 | 4.000 | 0.900 | 0.000                      | 0.000 | 7.200                    | - |
| vi             | DS             | 2.000 | 4.000 | 1.500 | 0.000                      | 0.000 | 12.000                   | - |
| Total Quantity |                |       |       |       | 188.3 Sqm (Sqm)            |       | 188.3 Sqm (Square Meter) |   |
| Amount         |                |       |       |       | 188.3 X<br>215.85588853924 |       | 40645.66                 |   |

**5. 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 centring and shuttering)

| Sl No          | Description | No    | L     | B     | D                         | CF    | Quantity               | Deduction |
|----------------|-------------|-------|-------|-------|---------------------------|-------|------------------------|-----------|
| i              | Slab        | 1.000 | 6.000 | 4.200 | 0.300                     | 0.000 | 7.560                  | -         |
| ii             | Pire Cap    | 2.000 | 6.000 | 0.750 | 0.150                     | 0.000 | 1.350                  | -         |
| Total Quantity |             |       |       |       | 8.91 cum (cum)            |       | 8.91 Cum (Cubic Meter) |           |
| Amount         |             |       |       |       | 8.91 X<br>5739.1745001222 |       | 51136.04               |           |

**6. Concrete (AR0307) : Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum**

Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) 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 as per specifaicaon and direction of Engineer-in charge.

| Sl No          | Description | No    | L     | B     | D                   | CF    | Quantity              | Deduction |
|----------------|-------------|-------|-------|-------|---------------------|-------|-----------------------|-----------|
| i              | Vent        | 1.000 | 6.000 | 3.000 | 0.100               | 0.000 | 1.800                 | -         |
| ii             | Aprone us   | 1.000 | 4.000 | 1.500 | 0.100               | 0.000 | 0.600                 | -         |
| Total Quantity |             |       |       |       | 2.4 cum (cum)       |       | 2.4 Cum (Cubic Meter) |           |
| Amount         |             |       |       |       | 2.4 X 6965.10855282 |       | 16716.26              |           |

**7. Special items for irrigation works (AR0216) : Excavation, loading, unloading, and carriage by mechanical means of all kinds of soil, including stoney earth, gravel, and moorum etc interspread with boulders upto 1/2 cum**

Excavation, loading, unloading, and carriage by mechanical means of all kinds of soil, including stoney earth, gravel, and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer-in-charge within an initial lead of 1km from the place of excavation complete. Per 1 cum.

| Sl No          | Description | No    | L      | B     | D                    | CF    | Quantity               | Deduction |
|----------------|-------------|-------|--------|-------|----------------------|-------|------------------------|-----------|
| i              | Road        | 1.000 | 60.000 | 7.000 | 1.750                | 0.000 | 735.000                | -         |
| ii             |             | 1.000 | 60.000 | 7.000 | 1.600                | 0.000 | 672.000                | -         |
| Total Quantity |             |       |        |       | 1407 cum (cum)       |       | 1407 Cum (Cubic Meter) |           |
| <b>Amount</b>  |             |       |        |       | <b>1407 X 67.165</b> |       | <b>94501.16</b>        |           |

#### 8. Road Work (AR1307) : Supplying & spreading moorum and consolidation with HRR

Supplying & spreading moorum and consolidation with HRR including cost, conveyance, royalty, taxes cost of all labour & material, hire charges of T & P materials required for work as per specification and complete as per direction of Engineer-in-Charge.

| Sl No          | Description | No    | L       | B     | D                              | CF    | Quantity                | Deduction |
|----------------|-------------|-------|---------|-------|--------------------------------|-------|-------------------------|-----------|
| i              | Road        | 1.000 | 150.000 | 3.650 | 0.100                          | 0.000 | 54.750                  | -         |
| Total Quantity |             |       |         |       | 54.75 cum (cum)                |       | 54.75 Cum (Cubic Meter) |           |
| <b>Amount</b>  |             |       |         |       | <b>54.75 X 988.68076867845</b> |       | <b>54130.27</b>         |           |

#### 9. R.C.C. Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height

| Sl No          | Description | No    | L     | B     | D                           | CF    | Quantity              | Deduction |
|----------------|-------------|-------|-------|-------|-----------------------------|-------|-----------------------|-----------|
| i              | sLAB        | 1.000 | 6.000 | 3.000 | 0.000                       | 0.000 | 18.000                | -         |
| Total Quantity |             |       |       |       | 18 Sqm (Sqm)                |       | 18 Sqm (Square Meter) |           |
| <b>Amount</b>  |             |       |       |       | <b>18 X 665.12801693244</b> |       | <b>11972.30</b>       |           |

#### 10. 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                               | Ms Rod | 22.000 | 0.000 | 0.000 | 0.000                    | 0.000 | 22.000            | - |
| Total Quantity                  |        |        |       |       | 22 Qntl (Quintal)        |       | 22 Qntl (Quintal) |   |
| <b>Amount</b>                   |        |        |       |       | <b>22 X 7661.7803514</b> |       | <b>168559.17</b>  |   |
| <b>Total Amount</b>             |        |        |       |       |                          |       | <b>944575.92</b>  |   |
| <b>Addition</b>                 |        |        |       |       |                          |       |                   |   |
| Provision for Contingency (+) @ |        |        |       |       |                          |       | 9445.76           |   |
| Display Citizen Board (+) @     |        |        |       |       |                          |       | 3400.00           |   |
| Any Other Lumpsum (+) @         |        |        |       |       |                          |       | 0.00              |   |
| <b>Total Addition</b>           |        |        |       |       |                          |       | <b>12845.76</b>   |   |
| <b>Grand Net Total Amount</b>   |        |        |       |       |                          |       | <b>957421.68</b>  |   |