

Analysis

**OD/357/3404/118515/381127/00101643 : Construction of CC Road from Mulchan Chhachhan House to Srikara Besan house at Brundamal
Block : Jharsuguda, Gram Panchayat : Badmal
Created By:Anil Kumar Acharya**

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| Item 1 |
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Earth Work (AR0102aa): 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

Sub-Item of Work
Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift

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|---------------------------------|--|--|--|--|--|
| a) Specific Rate Details | | | | | |
|---------------------------------|--|--|--|--|--|

| Particular | Quantity | Unit | Rate | Amount | GST |
|----------------------|----------|---------|------|---------|-----|
| LR002 : Female mulia | 25.8 | Per day | 462 | 11919.6 | 0 |
| LR001 : Male mulia | 25.8 | Per day | 462 | 11919.6 | 0 |

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|---|--------------|
| Total Amount (a+b+c) | 23839.2 |
| Total GST (a) | 0 |
| OVERHEAD CHARGES @ 7.5% (+) | 1787.94 |
| CONTRACTOR PROFIT @ 7.5% (+) | 1922.0355 |
| LABOUR CESS @ 1% (+) | 275.491755 |
| Grand Total | 27824.667255 |
| Say For Unit 1 (Grand Total/100) | 278.24667255 |

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| Item 2 |
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Earth Work (AR0115): 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.

Sub-Item of Work
Filling foundation and plinth with sand well watered and rammed

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|---------------------------------|--|--|--|--|--|
| a) Specific Rate Details | | | | | |
|---------------------------------|--|--|--|--|--|

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|------|---------|-----|
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 66 | 6600 | 0 |
| LR002 : Female mulia | 12.36 | Per day | 462 | 5710.32 | 0 |

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|---------------------------------|--|--|--|--|--|
| b) Carriage Rate Details | | | | | |
|---------------------------------|--|--|--|--|--|

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|-------|--------|--------|-----|
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 406.21 | 40621 | 0 |

| c) Royalty Rate Details | | | | | |
|--|----------|-------|--------|--------|-----|
| Particular | Quantity | Unit | Rate | Amount | GST |
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 441.25 | 44125 | 0 |

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|---|---------------|--|--|--|--|
| Total Amount (a+b+c) | 97056.32 | | | | |
| Total GST (a) | 0 | | | | |
| OVERHEAD CHARGES @ 7.5% (+) | 7279.224 | | | | |
| CONTRACTOR PROFIT @ 7.5% (+) | 7825.1658 | | | | |
| LABOUR CESS @ 1% (+) | 1121.607098 | | | | |
| Grand Total | 113282.316898 | | | | |
| Say For Unit 1 (Grand Total/100) | 1132.82316898 | | | | |

| Item 3 |
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| Concrete (AR0303): 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. |
| Sub-Item of Work Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal |

| a) Specific Rate Details | | | | | |
|--|----------|---------|--------|-----------|------------|
| Particular | Quantity | Unit | Rate | Amount | GST |
| LR025 : Mason | 0.18 | Per day | 562 | 101.16 | 0 |
| LR002 : Female mulia | 1.4 | Per day | 462 | 646.8 | 0 |
| LR001 : Male mulia | 2.5 | Per day | 462 | 1155 | 0 |
| BRM340 : Cement | 2.29 | 1 Qntl. | 508.47 | 1164.3963 | 209.591334 |
| BRM028 : Screened and washed sharp sand for mortar | 0.48 | 1 Cum | 74 | 35.52 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 995.25 | 955.44 | 0 |

| b) Carriage Rate Details | | | | | |
|--|----------|---------|--------|----------|-----|
| Particular | Quantity | Unit | Rate | Amount | GST |
| BRM340 : Cement | 2.29 | 1 Qntl. | 30.732 | 70.37628 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.48 | 1 Cum | 341.11 | 163.7328 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 601.51 | 577.4496 | 0 |

| c) Royalty Rate Details | | | | | |
|--|----------|---------|--------|--------|-----|
| Particular | Quantity | Unit | Rate | Amount | GST |
| BRM340 : Cement | 2.29 | 1 Qntl. | 0 | 0 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.48 | 1 Cum | 441.25 | 211.8 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 457.5 | 439.2 | 0 |

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|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 5520.87498 |
| Total GST (a) | 209.591334 |
| OVERHEAD CHARGES @ 7.5% (+) | 429.78497355 |
| CONTRACTOR PROFIT @ 7.5% (+) | 462.01884656625 |
| LABOUR CESS @ 1% (+) | 66.222701341163 |
| Grand Total | 6688.4928354574 |
| Say For Unit 1 (Grand Total/1) | 6688.4928354574 |

Item 4

Concrete (AR0307): 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 specification and direction of Engineer-in charge.

Sub-Item of Work

Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|---------|-----------|------------|
| LR002 : Female mulia | 1.4 | Per day | 462 | 646.8 | 0 |
| LR001 : Male mulia | 3.2 | Per day | 462 | 1478.4 | 0 |
| LR025 : Mason | 0.68 | Per day | 562 | 382.16 | 0 |
| BRM340 : Cement | 3.23 | 1 Qntl. | 508.47 | 1642.3581 | 295.624458 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 74 | 33.3 | 0 |
| BRM056 : Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve) (Crusher broken) | 0.9 | 1 Cum. | 1396.62 | 1256.958 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|----------|-----|
| BRM340 : Cement | 3.23 | 1 Qntl. | 30.732 | 99.26436 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 341.11 | 153.4995 | 0 |
| BRM056 : Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve) (Crusher broken) | 0.9 | 1 Cum. | 601.51 | 541.359 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|------------------------|----------|---------|------|--------|-----|
| BRM340 : Cement | 3.23 | 1 Qntl. | 0 | 0 | 0 |

| | | | | | |
|--|------|-----------|--------|----------|---|
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 441.25 | 198.5625 | 0 |
| BRM056 : Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve) (Crusher broken) | 0.9 | 1 Cum. | 457.5 | 411.75 | 0 |

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|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 6844.41146 |
| Total GST (a) | 295.624458 |
| OVERHEAD CHARGES @ 7.5% (+) | 535.50269385 |
| CONTRACTOR PROFIT @ 7.5% (+) | 575.66539588875 |
| LABOUR CESS @ 1% (+) | 82.512040077387 |
| Grand Total | 8333.7160478161 |
| Say For Unit 1 (Grand Total/1) | 8333.7160478161 |

Item 5

R.C.C. Work (AR0410c): 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

Sub-Item of Work

R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|----------|-------------|-----|
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.0267 | 1Cum. | 58374.79 | 1558.606893 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 1.26 | 1Mtr. | 30.81 | 38.8206 | 0 |
| LR008 : Sangi mulia | 0.5 | Per day | 512 | 256 | 0 |
| LR027 : Carpenter | 0.5 | Per day | 562 | 281 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|-------|---------|------------|-----|
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.0267 | 1Cum. | 198.296 | 5.2945032 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 0.00614 | 1Mtr. | 198.296 | 1.21753744 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|-------|------|--------|-----|
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.0267 | 1Cum. | 0 | 0 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 0.00614 | 1Mtr. | 0 | 0 | 0 |

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|-----------------------------|---------------|
| Total Amount (a+b+c) | 2140.93953364 |
| Total GST (a) | 0 |

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|--|-----------------|
| OVERHEAD CHARGES @ 7.5% (+) | 160.570465023 |
| CONTRACTOR PROFIT @ 7.5% (+) | 172.61324989972 |
| LABOUR CESS @ 1% (+) | 24.741232485627 |
| Grand Total | 2498.8644810484 |
| Say For Unit 1 (Grand Total/10) | 249.88644810484 |

Item 6

R.C.C. Work (AR0404Aa): 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.)

Sub-Item of Work

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|----------|----------|--------------|--------------|
| Combine :: R.C.C. Work (AR0404A) | | | | | |
| PM096 : Generator 33KVA Generation of Electric Energy 50KVA | 0.4 | per hour | 700 | 280 | 0 |
| PM083 : Concrete Mixer 04/0.28 cum Concrete Mixing 2.5cum/hour | 0.4 | per hour | 229.55 | 91.82 | 0 |
| LR001 : Male mulia | 1.3333 | Per day | 462 | 615.9846 | 0 |
| LR025 : Mason | 0.1 | Per day | 562 | 56.2 | 0 |
| LR010 : Mate | 0.0573 | Per day | 512 | 29.3376 | 0 |
| BRM340 : Cement | 3.4733 | 1 Qntl. | 508.47 | 1766.068851 | 317.89239318 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 74 | 33.3 | 0 |
| BRM060 : Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve) (Crusher broken) | 0.36 | 1 Cum. | 1418.67 | 510.7212 | 0 |
| BRM052 : Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve) (Crusher broken) | 0.54 | 1 Cum. | 1382.29 | 746.4366 | 0 |
| Combine :: R.C.C. Work (AR0410c) | | | | | |
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.004005 | 1Cum. | 58374.79 | 233.79103395 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 0.189 | 1Mtr. | 30.81 | 5.82309 | 0 |
| LR008 : Sangi mulia | 0.075 | Per day | 512 | 38.4 | 0 |

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|-------------------|-------|---------|-----|-------|---|
| LR027 : Carpenter | 0.075 | Per day | 562 | 42.15 | 0 |
|-------------------|-------|---------|-----|-------|---|

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|---------|-------------|-----|
| BRM340 : Cement | 3.4733 | 1 Qntl. | 30.732 | 106.7414556 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 341.11 | 153.4995 | 0 |
| BRM060 : Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve) (Crusher broken) | 0.36 | 1 Cum. | 601.51 | 216.5436 | 0 |
| BRM052 : Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve) (Crusher broken) | 0.54 | 1 Cum. | 601.51 | 324.8154 | 0 |
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.004005 | 1Cum. | 198.296 | 0.79417548 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 0.000921 | 1Mtr. | 198.296 | 0.182630616 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|--------|----------|-----|
| BRM340 : Cement | 3.4733 | 1 Qntl. | 0 | 0 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 441.25 | 198.5625 | 0 |
| BRM060 : Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve) (Crusher broken) | 0.36 | 1 Cum. | 457.5 | 164.7 | 0 |
| BRM052 : Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve) (Crusher broken) | 0.54 | 1 Cum. | 457.5 | 247.05 | 0 |
| BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma) | 0.004005 | 1Cum. | 0 | 0 | 0 |
| BRM092 : Non-sal bullahs 75mm. mean dia of any length. | 0.000921 | 1Mtr. | 0 | 0 | 0 |

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|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 5862.922236646 |
| Total GST (a) | 317.89239318 |
| OVERHEAD CHARGES @ 7.5% (+) | 463.56109723695 |
| CONTRACTOR PROFIT @ 7.5% (+) | 498.32817952972 |
| LABOUR CESS @ 1% (+) | 71.427039065927 |
| Grand Total | 7214.1309456586 |
| Say For Unit 1 (Grand Total/1) | 7214.1309456586 |

Item 7

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 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.

Sub-Item of Work

Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|------------------------|----------|---------|---------|----------|------------|
| LR001 : Male mulia | 8 | Per day | 462 | 3696 | 0 |
| LR046 : Blacksmith | 3 | Per day | 612 | 1836 | 0 |
| LR010 : Mate | 0.44 | Per day | 512 | 225.28 | 0 |
| BRM162 : Binding Wire. | 8 | 1 Kg. | 90.1 | 720.8 | 0 |
| BRM341 : Steel | 10.5 | 1 Qntl. | 6179.52 | 64884.96 | 11679.2928 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|----------------|----------|---------|--------|---------|-----|
| BRM341 : Steel | 10.5 | 1 Qntl. | 30.732 | 322.686 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|----------------|----------|---------|------|--------|-----|
| BRM341 : Steel | 10.5 | 1 Qntl. | 0 | 0 | 0 |

| | | | | | |
|--|--|--|--|--|-----------------|
| Total Amount (a+b+c) | | | | | 71685.726 |
| Total GST (a) | | | | | 11679.2928 |
| OVERHEAD CHARGES @ 7.5% (+) | | | | | 6252.37641 |
| CONTRACTOR PROFIT @ 7.5% (+) | | | | | 6721.30464075 |
| LABOUR CESS @ 1% (+) | | | | | 963.3869985075 |
| Grand Total | | | | | 97302.086849258 |
| Say For Unit 1 (Grand Total/10) | | | | | 9730.2086849258 |

**Rasmita maharana
JE
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**Madhumita Mishra
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Jharsuguda Block**

**Anil Kumar Acharya
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