

Analysis

OD/367/3527/120672/406232/00013743 : MAINT. OF RAUTARAPUR TANK

Block : Nayagarh, Gram Panchayat : Laxmiprasad

Created By:Aishwarya Bhuyan

Item 1

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

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 |

| | |
|---|--------------|
| 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 |

Item 2

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

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|-------|---------|-----|
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 56.57 | 5657 | 0 |
| LR002 : Female mulia | 12.36 | Per day | 462 | 5710.32 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|-------|--------|--------|-----|
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 354.13 | 35413 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|-------|--------|----------------|-----|
| BRM029 : Sand for filling and road blinding | 100 | 1 Cum | 305.25 | 30525 | 0 |
| Total Amount (a+b+c) | | | | 77305.32 | |
| Total GST (a) | | | | 0 | |
| OVERHEAD CHARGES @ 7.5% (+) | | | | 5797.899 | |
| CONTRACTOR PROFIT @ 7.5% (+) | | | | 6232.741425 | |
| LABOUR CESS @ 1% (+) | | | | 893.35960425 | |
| Grand Total | | | | 90229.32002925 | |
| Say For Unit 1 (Grand Total/100) | | | | 902.2932002925 | |

Item 3

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. | 523.07 | 1197.8303 | 215.609454 |
| BRM028 : Screened and washed sharp sand for mortar | 0.48 | 1 Cum | 63 | 30.24 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 954 | 915.84 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|----------|-----|
| BRM340 : Cement | 2.29 | 1 Qntl. | 24.787 | 56.76223 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.48 | 1 Cum | 354.13 | 169.9824 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 276.01 | 264.9696 | 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 | 305.25 | 146.52 | 0 |
| BRM044 : Granite Stone broken metal 40mm. size (Crusher broken) | 0.96 | 1 Cum. | 199.5 | 191.52 | 0 |

| | |
|-----------------------------|------------|
| Total Amount (a+b+c) | 4876.62453 |
|-----------------------------|------------|

| | |
|---------------------------------------|-----------------|
| Total GST (a) | 215.609454 |
| OVERHEAD CHARGES @ 7.5% (+) | 381.9175488 |
| CONTRACTOR PROFIT @ 7.5% (+) | 410.56136496 |
| LABOUR CESS @ 1% (+) | 58.8471289776 |
| Grand Total | 5943.5600267376 |
| Say For Unit 1 (Grand Total/1) | 5943.5600267376 |

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 specifaion 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. | 523.07 | 1689.5161 | 304.112898 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 63 | 28.35 | 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. | 24.787 | 80.06201 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.45 | 1 Cum | 354.13 | 159.3585 | 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. | 276.01 | 248.409 | 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 | 305.25 | 137.3625 | 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. | 199.5 | 179.55 | 0 |

| | |
|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 6286.92611 |
| Total GST (a) | 304.112898 |
| OVERHEAD CHARGES @ 7.5% (+) | 494.3279256 |
| CONTRACTOR PROFIT @ 7.5% (+) | 531.40252002 |
| LABOUR CESS @ 1% (+) | 76.1676945362 |
| Grand Total | 7692.9371481562 |
| Say For Unit 1 (Grand Total/1) | 7692.9371481562 |

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 |

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

| | |
|--|-----------------|
| 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

Masonry Brick Work (AR0603bi): 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/cm² with dimensional tolerance ± 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.

Sub-Item of Work

Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|----------|---------|-----------|------------|
| LR002 : Female mulia | 0.14 | Per day | 462 | 64.68 | 0 |
| BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK | 1 | 1 Cum | 33 | 33 | 0 |
| LR001 : Male mulia | 2.82 | Per day | 462 | 1302.84 | 0 |
| LR025 : Mason | 1.05 | Per day | 562 | 590.1 | 0 |
| LR044 : Mason | 0.35 | Per day | 612 | 214.2 | 0 |
| BRM340 : Cement | 0.672 | 1 Qntl. | 523.07 | 351.50304 | 63.2705472 |
| BRM028 : Screened and washed sharp sand for mortar | 0.28 | 1 Cum | 63 | 17.64 | 0 |
| BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance ± 2 % | 350 | 1000 Nos | 5.14255 | 1799.8925 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|----------|--------|-----------|-----|
| BRM340 : Cement | 0.672 | 1 Qntl. | 24.787 | 16.656864 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.28 | 1 Cum | 354.13 | 99.1564 | 0 |
| BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance ± 2 % | 350 | 1000 Nos | 0.8641 | 302.435 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|----------|---------|--------|--------|-----|
| BRM340 : Cement | 0.672 | 1 Qntl. | 0 | 0 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.28 | 1 Cum | 305.25 | 85.47 | 0 |

| | | | | | |
|---|-----|----------|---|---|---|
| BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance $\pm 2\%$ | 350 | 1000 Nos | 0 | 0 | 0 |
|---|-----|----------|---|---|---|

| | |
|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 4877.573804 |
| Total GST (a) | 63.2705472 |
| OVERHEAD CHARGES @ 7.5% (+) | 370.56332634 |
| CONTRACTOR PROFIT @ 7.5% (+) | 398.3555758155 |
| LABOUR CESS @ 1% (+) | 57.097632533555 |
| Grand Total | 5766.8608858891 |
| Say For Unit 1 (Grand Total/1) | 5766.8608858891 |

Item 7

Plastering (AR1014): 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.

Sub-Item of Work
16mm thick cement Plaster in CM (1:6) over brick work in inside.

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|----------|-----------|
| LR002 : Female mulia | 0.11 | Per day | 462 | 50.82 | 0 |
| LR001 : Male mulia | 0.13 | Per day | 462 | 60.06 | 0 |
| LR025 : Mason | 0.16 | Per day | 562 | 89.92 | 0 |
| BRM340 : Cement | 0.043 | 1 Qntl. | 523.07 | 22.49201 | 4.0485618 |
| BRM028 : Screened and washed sharp sand for mortar | 0.018 | 1 Cum | 63 | 1.134 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|----------|-----|
| BRM340 : Cement | 0.043 | 1 Qntl. | 24.787 | 1.065841 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.018 | 1 Cum | 354.13 | 6.37434 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|--------|-----|
| BRM340 : Cement | 0.043 | 1 Qntl. | 0 | 0 | 0 |
| BRM028 : Screened and washed sharp sand for mortar | 0.018 | 1 Cum | 305.25 | 5.4945 | 0 |

| | |
|-------------------------------------|---------------|
| Total Amount (a+b+c) | 237.360691 |
| Total GST (a) | 4.0485618 |
| OVERHEAD CHARGES @ 7.5% (+) | 18.10569396 |
| CONTRACTOR PROFIT @ 7.5% (+) | 19.463621007 |
| LABOUR CESS @ 1% (+) | 2.78978567767 |

| | |
|---------------------------------------|-----------------|
| Grand Total | 281.76835344467 |
| Say For Unit 1 (Grand Total/1) | 281.76835344467 |

Item 8

Painting (AR0918cb): Finishing wall two coats with weather coat with one coat waterbound 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)

Sub-Item of Work

Finishing wall two coats with weather coat with one coat waterbound Primer

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|-------------------|---------|--------|-----------------|-----|
| Combine :: Painting (AR0918f) | | | | | |
| BRM255 : Weather Coat (I.S.I.) | 0.125 | 1 Ltr | 194.79 | 24.34875 | 0 |
| LR001 : Male mulia | 0.064 | Per day | 462 | 29.568 | 0 |
| LR048 : Painter/ Polisher | 0.054 | Per day | 612 | 33.048 | 0 |
| Combine :: Painting (AR0901di) | | | | | |
| BRM253 : Wall cement primer (I.S.I.) Water bound | 0.090322580645161 | 1 Ltr | 159.03 | 14.364 | 0 |
| LR048 : Painter/ Polisher | 0.053763440860215 | Per day | 612 | 32.903225806452 | 0 |
| LR001 : Male mulia | 0.053763440860215 | Per day | 462 | 24.838709677419 | 0 |

b) Carriage Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|-------------------|-------|---------|-------------------|-----|
| BRM255 : Weather Coat (I.S.I.) | 0.125 | 1 Ltr | 0.24787 | 0.03098375 | 0 |
| BRM253 : Wall cement primer (I.S.I.) Water bound | 0.090322580645161 | 1 Ltr | 0.24787 | 0.022388258064516 | 0 |

c) Royalty Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|---|-------------------|-------|------|--------|-----|
| BRM255 : Weather Coat (I.S.I.) | 0.125 | 1 Ltr | 0 | 0 | 0 |
| BRM253 : Wall cement primer (I.S.I.) Water bound | 0.090322580645161 | 1 Ltr | 0 | 0 | 0 |

| | |
|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 159.12405749194 |
| Total GST (a) | 0 |
| OVERHEAD CHARGES @ 7.5% (+) | 11.934304311895 |
| CONTRACTOR PROFIT @ 7.5% (+) | 12.829377135287 |
| LABOUR CESS @ 1% (+) | 1.8388773893912 |
| Grand Total | 185.72661632851 |
| Say For Unit 1 (Grand Total/1) | 185.72661632851 |

Item 9

Earth Work (AR0122Bii): Earthwork in hard soil or gravelly soil within 5 Km.mechanical carriages and spreading in filling area/road berm within initial lead and lift including dressing and leveling the bed, etc. as per direction of Engineer-in-Charge.

Sub-Item of Work

Earthwork in hard soil or gravelly soil within 5 Km. mechanical carriages and spreading in filling area/road berm within initial lead and lift

a) Specific Rate Details

| Particular | Quantity | Unit | Rate | Amount | GST |
|--|----------|---------|--------|-----------------|-----|
| BRMM402 : Loading into trucks and unloading from trucks within 50 Meter lead (2/3 of rate is consider for loading). | -0.6666 | 1 Cum | 175.38 | - 116.908308 | 0 |
| BRMM401 : Conveyance of material by 10 ton trucks within 5 KM including loading and unloading | 1 | 1 Cum | 276.01 | 276.01 | 0 |
| LR002 : Female mulia | 0.215 | Per day | 462 | 99.33 | 0 |
| LR001 : Male mulia | 0.215 | Per day | 462 | 99.33 | 0 |

| | |
|---------------------------------------|-----------------|
| Total Amount (a+b+c) | 357.761692 |
| Total GST (a) | 0 |
| OVERHEAD CHARGES @ 7.5% (+) | 26.8321269 |
| CONTRACTOR PROFIT @ 7.5% (+) | 28.8445364175 |
| LABOUR CESS @ 1% (+) | 4.134383553175 |
| Grand Total | 417.57273887067 |
| Say For Unit 1 (Grand Total/1) | 417.57273887067 |

Jyotishree Subudhi
JE
Nayagarh Block

Chandra Sekhar Samantaray
AEE
Nayagarh Block

Aishwarya Bhuyan
BDO
Nayagarh Block