

Analysis

OD/364/3484/120002/430193/00063764 : Construction of road and culvert at Pedawada to Dongruguda

Block : Malkangiri, Gram Panchayat : Pedawada

Created By: Tapan kumar senapati

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

LABOUR CESS @ 1% (+)

238.392

Grand Total

24077.592

Say For Unit 1 (Grand Total/100)

240.77592

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	71.94	7194	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	341.11	34111	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
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BRM029 : Sand for filling and road blinding	100	1 Cum	40.25	4025	0
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Total Amount (a+b+c)	51040.32
Total GST (a)	0
LABOUR CESS @ 1% (+)	510.4032
Grand Total	51550.7232
Say For Unit 1 (Grand Total/100)	515.507232

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.	536.37	1228.2873	221.091714
BRM028 : Screened and washed sharp sand for mortar	0.48	1 Cum	76.88	36.9024	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.	60.457	138.44653	0
BRM028 : Screened and washed sharp sand for mortar	0.48	1 Cum	536.41	257.4768	0
BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	341.11	327.4656	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	40.25	19.32	0
BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	149.5	143.52	0

Total Amount (a+b+c)	5009.81863
Total GST (a)	221.091714
LABOUR CESS @ 1% (+)	52.30910344
Grand Total	5283.21944744

Say For Unit 1 (Grand Total/1)	5283.21944744
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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.	536.37	1732.4751	311.845518
BRM028 : Screened and washed sharp sand for mortar	0.45	1 Cum	76.88	34.596	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.	60.457	195.27611	0
BRM028 : Screened and washed sharp sand for mortar	0.45	1 Cum	536.41	241.3845	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.	341.11	306.999	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	40.25	18.1125	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.	149.5	134.55	0

Total Amount (a+b+c)	6427.71121
Total GST (a)	311.845518

LABOUR CESS @ 1% (+)	67.39556728
Grand Total	6806.95229528
Say For Unit 1 (Grand Total/1)	6806.95229528

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.	293.416	7.8342072	0
BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.00614	1Mtr.	293.416	1.80157424	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)	2144.06327444
Total GST (a)	0
LABOUR CESS @ 1% (+)	21.4406327444
Grand Total	2165.5039071844
Say For Unit 1 (Grand Total/10)	216.55039071844

Item 6

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.	6590.6	69201.3	12456.234

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM341 : Steel	10.5	1 Qntl.	60.457	634.7985	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)

76314.1785

Total GST (a)

12456.234

LABOUR CESS @ 1% (+)

887.704125

Grand Total

89658.116625

Say For Unit 1 (Grand Total/10)

8965.8116625

Item 7

R.C.C. Work (AR0404A): 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)

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
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.	536.37	1862.973921	335.33530578
BRM028 : Screened and washed sharp sand for mortar	0.45	1 Cum	76.88	34.596	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

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	3.4733	1 Qntl.	60.457	209.9852981	0
BRM028 : Screened and washed sharp sand for mortar	0.45	1 Cum	536.41	241.3845	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.	341.11	122.7996	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.	341.11	184.1994	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	40.25	18.1125	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.	149.5	53.82	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.	149.5	80.73	0

Total Amount (a+b+c)	5139.1012191
Total GST (a)	335.33530578
LABOUR CESS @ 1% (+)	54.7443652488
Grand Total	5529.1808901288
Say For Unit 1 (Grand Total/1)	5529.1808901288

Item 8

Plastering (AR1026i): 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in outside 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.

Sub-Item of Work

6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (outside)

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
LR002 : Female mulia	0.05	Per day	462	23.1	0
LR001 : Male mulia	0.07	Per day	462	32.34	0
LR025 : Mason	0.14	Per day	562	78.68	0
BRM340 : Cement	0.0271	1 Qntl.	536.37	14.535627	2.61641286
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	76.88	0.5766	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.0271	1 Qntl.	60.457	1.6383847	0
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	536.41	4.023075	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.0271	1 Qntl.	0	0	0
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	40.25	0.301875	0

Total Amount (a+b+c)				155.1955617	
Total GST (a)				2.61641286	
LABOUR CESS @ 1% (+)				1.5781197456	
Grand Total				159.3900943056	
Say For Unit 1 (Grand Total/1)				159.3900943056	

Item 9

R.C.C. Work (AR0410k): 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. Work in slab for culverts and Bridges upto 8M span)

Sub-Item of Work

Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling upto 8M span

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.72	1Mtr	51.87	348.5664	0
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.05424	1Cum.	58374.79	3166.2486096	0

LR008 : Sangi mulia	3.3	Per day	512	1689.6	0
LR027 : Carpenter	3.3	Per day	562	1854.6	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0828	1Mtr	293.416	24.2948448	0
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.05424	1Cum.	293.416	15.91488384	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0828	1Mtr	0	0	0
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.05424	1Cum.	0	0	0

Total Amount (a+b+c)	7099.22473824
Total GST (a)	0
LABOUR CESS @ 1% (+)	70.9922473824
Grand Total	7170.2169856224
Say For Unit 1 (Grand Total/9)	796.69077618027

Item 10

Bridge Works (AR2008): Back filling behind abutment, wing wall and return wall using sandy material complete as per drawing and direction of Engineer-in charge.

Sub-Item of Work

Back filling behind abutment, wing wall and return wall using sandy material complete.

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
PM027 : Truck mounted water tanker Water transport 6KL	0.06	per hour	900.84	54.0504	0
PM109 : Pneumatic rammer	2.5	per hour	66.19	165.475	0
BRM029 : Sand for filling and road blinding	12	1 Cum	71.94	863.28	0
LR001 : Male mulia	7	Per day	462	3234	0
LR010 : Mate	0.28	Per day	512	143.36	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	12	1 Cum	341.11	4093.32	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
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BRM029 : Sand for filling and road blinding	12	1 Cum	40.25	483	0
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Total Amount (a+b+c)	9036.4854
Total GST (a)	0
LABOUR CESS @ 1% (+)	90.364854
Grand Total	9126.850254
Say For Unit 1 (Grand Total/10)	912.6850254

Item 11

Road Work (AR1342): Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (Last Revision) and as per direction of Engineer-in-Charge.

Sub-Item of Work

Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam(WMM) specification including premixing the material.

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRMMR0037 : Cost of water	18	KL	10	180	0
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	44.55	1 Cum	136.33	6073.5015	0
BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	103.95	1 Cum.	805.85	83768.1075	0
BRM050 : Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve) (Crusher broken)	103.95	1 Cum.	1123.78	116816.931	0
BRM042 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Crusher broken)	44.55	1 Cum.	899.33	40065.1515	0
PM019 : Tipper-5cum 5.5cum	2722.5	per tonne.km	3.86	10508.85	0
PM027 : Truck mounted water tanker Water transport 6KL	3	per hour	900.84	2702.52	0
PM023 : Vibratory Roller 8-10 tonne WMM 60cum/hour	3.9	per hour	1538.54	6000.306	0
PM046 : Paver Finisher Mechanical 100 TPH Paving of WMM/PMC 40cum/hour	6	per hour	1143.9	6863.4	0
PM017 : Front End loader 1 cum bucket capacity Aggregate loading 25cum/hour	6	per hour	804.86	4829.16	0
PM098 : Generator 125KVA Generation of Electric Energy KVA	6	per hour	1341.16	8046.96	0
PM036 : Wet Mix Plant 75 TPH Wet Mix 34cum/hour	6.6	per hour	1700	11220	0
LR001 : Male mulia	10	Per day	462	4620	0
LR025 : Mason	2	Per day	562	1124	0
LR010 : Mate	0.48	Per day	512	245.76	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	44.55	1 Cum	341.11	15196.4505	0
BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	103.95	1 Cum.	341.11	35458.3845	0
BRM050 : Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve) (Crusher broken)	103.95	1 Cum.	341.11	35458.3845	0
BRM042 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Crusher broken)	44.55	1 Cum.	341.11	15196.4505	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	44.55	1 Cum	40.25	1793.1375	0
BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	103.95	1 Cum.	149.5	15540.525	0
BRM050 : Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve) (Crusher broken)	103.95	1 Cum.	149.5	15540.525	0
BRM042 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Crusher broken)	44.55	1 Cum.	149.5	6660.225	0

Total Amount (a+b+c)	443908.73				
Total GST (a)	0				
LABOUR CESS @ 1% (+)	4439.0873				
Grand Total	448347.8173				
Say For Unit 1 (Grand Total/225)	1992.6569657778				

TAPAN KUMAR SAMAL
JE
Malkangiri Block

Er. ABHIJIT SETHI
AEE
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Tapan kumar senapati
BDO
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