

## Analysis

**OD/363/3467/119725/429197/00075699 : CONST OF CULVERT AT SUNDHIGUDA TO  
GUNDAL ROAD**

**Block : Boipariguda, Gram Panchayat : Kenduguda**

**Created By:Shakti Mohapatra**

<b>Item 1</b>
<b>Earth Work (AR0122Bii):</b> 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 <b>Earthwork in hard soil or gravelly soil within 5 Km. mechanical carriages and spreading in filling area/road berm within initial lead and lift</b>

a) Specific Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRMM402</b> : 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
<b>BRMM401</b> : Conveyance of material by 10 ton trucks within 5 KM including loading and unloading	1	1 Cum	276.01	276.01	0
<b>LR002</b> : Female mulia	0.215	Per day	462	99.33	0
<b>LR001</b> : Male mulia	0.215	Per day	462	99.33	0

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

<b>Item 2</b>
<b>Earth Work (AR0102aa):</b> 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 <b>Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift</b>

a) Specific Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
<b>LR002</b> : 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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<b>Total Amount (a+b+c)</b>	23839.2
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	1787.94
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	1922.0355
<b>LABOUR CESS @ 1% (+)</b>	275.491755
<b>Grand Total</b>	27824.667255
<b>Say For Unit 1 (Grand Total/100)</b>	278.24667255

### Item 3

**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	406.21	40621	0

#### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	100	1 Cum	77.25	7725	0

<b>Total Amount (a+b+c)</b>	61250.32
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	4593.774
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	4938.30705
<b>LABOUR CESS @ 1% (+)</b>	707.8240105
<b>Grand Total</b>	71490.2250605
<b>Say For Unit 1 (Grand Total/100)</b>	714.902250605

### Item 4

**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.	546.37	1251.1873	225.213714
BRM028 : Screened and washed sharp sand for mortar	0.48	1 Cum	75.86	36.4128	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.	36.677	83.99033	0
BRM028 : Screened and washed sharp sand for mortar	0.48	1 Cum	406.21	194.9808	0
BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	536.41	514.9536	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	77.25	37.08	0
BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	191.9	184.224	0

<b>Total Amount (a+b+c)</b>	5161.22883
<b>Total GST (a)</b>	225.213714
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	403.9831908
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	434.28193011
<b>LABOUR CESS @ 1% (+)</b>	62.2470766491
<b>Grand Total</b>	6286.9547415591
<b>Say For Unit 1 (Grand Total/1)</b>	6286.9547415591

**Item 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 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
<b>PM096</b> : Generator 33KVA Generation of Electric Energy 50KVA	0.4	per hour	700	280	0
<b>PM083</b> : Concrete Mixer 04/0.28 cum Concrete Mixing 2.5cum/hour	0.4	per hour	229.55	91.82	0
<b>LR001</b> : Male mulia	1.3333	Per day	462	615.9846	0
<b>LR025</b> : Mason	0.1	Per day	562	56.2	0
<b>LR010</b> : Mate	0.0573	Per day	512	29.3376	0
<b>BRM340</b> : Cement	3.4733	1 Qntl.	546.37	1897.706921	341.58724578
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	75.86	34.137	0
<b>BRM060</b> : 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
<b>BRM052</b> : 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
<b>BRM340</b> : Cement	3.4733	1 Qntl.	36.677	127.3902241	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	406.21	182.7945	0
<b>BRM060</b> : 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.	536.41	193.1076	0
<b>BRM052</b> : 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.	536.41	289.6614	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.4733	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	77.25	34.7625	0
<b>BRM060</b> : 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.	191.9	69.084	0

<b>BRM052</b> : 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.	191.9	103.626	0
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<b>Total Amount (a+b+c)</b>	5262.7701451
<b>Total GST (a)</b>	341.58724578
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	420.326804316
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	451.8513146397
<b>LABOUR CESS @ 1% (+)</b>	64.765355098357
<b>Grand Total</b>	6541.3008649341
<b>Say For Unit 1 (Grand Total/1)</b>	6541.3008649341

### 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
<b>LR001</b> : Male mulia	8	Per day	462	3696	0
<b>LR046</b> : Blacksmith	3	Per day	612	1836	0
<b>LR010</b> : Mate	0.44	Per day	512	225.28	0
<b>BRM162</b> : Binding Wire.	8	1 Kg.	90.1	720.8	0
<b>BRM341</b> : Steel	10.5	1 Qntl.	6379.83	66988.215	12057.8787

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM341</b> : Steel	10.5	1 Qntl.	36.677	385.1085	0

#### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM341</b> : Steel	10.5	1 Qntl.	0	0	0

<b>Total Amount (a+b+c)</b>	73851.4035
<b>Total GST (a)</b>	12057.8787
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	6443.196165
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	6926.435877375
<b>LABOUR CESS @ 1% (+)</b>	992.78914242375
<b>Grand Total</b>	100271.7033848

Say For Unit 1 (Grand Total/10)	10027.17033848
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**Item 7**

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

**b) Carriage Rate Details**

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

<b>Total Amount (a+b+c)</b>	2140.93953364
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	160.570465023
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	172.61324989972
<b>LABOUR CESS @ 1% (+)</b>	24.741232485627
<b>Grand Total</b>	2498.8644810484
<b>Say For Unit 1 (Grand Total/10)</b>	249.88644810484

**Item 8**

**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
<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.72	1Mtr	51.87	348.5664	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.05424	1Cum.	58374.79	3166.2486096	0
<b>LR008</b> : Sangi mulia	3.3	Per day	512	1689.6	0
<b>LR027</b> : Carpenter	3.3	Per day	562	1854.6	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0828	1Mtr	293.416	24.2948448	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.05424	1Cum.	198.296	10.75557504	0

**c) Royalty Rate Details**

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

<b>Total Amount (a+b+c)</b>	7094.06542944
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	532.054907208
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	571.9590252486
<b>LABOUR CESS @ 1% (+)</b>	81.980793618966
<b>Grand Total</b>	8280.0601555156
<b>Say For Unit 1 (Grand Total/9)</b>	920.00668394617

**Item 9**

**Plastering (AR1027):** 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping 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 including chipping (Inside)**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>LR001</b> : Male mulia	0.12	Per day	462	55.44	0
<b>LR002</b> : Female mulia	0.05	Per day	462	23.1	0

LR025 : Mason	0.14	Per day	562	78.68	0
BRM340 : Cement	0.0372	1 Qntl.	546.37	20.324964	3.65849352
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	75.86	0.56895	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.0372	1 Qntl.	36.677	1.3643844	0
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	406.21	3.046575	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.0372	1 Qntl.	0	0	0
BRM028 : Screened and washed sharp sand for mortar	0.0075	1 Cum	77.25	0.579375	0

<b>Total Amount (a+b+c)</b>	183.1042484
<b>Total GST (a)</b>	3.65849352
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	14.007205644
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	15.0577460673
<b>LABOUR CESS @ 1% (+)</b>	2.158276936313
<b>Grand Total</b>	217.98597056761
<b>Say For Unit 1 (Grand Total/1)</b>	217.98597056761

**Item 10**

**Road Work (AR1307):** 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.

Sub-Item of Work

**Supplying & spreading moorum and consolidation with HRR**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM025 : Gravel or moorum	3.6224	1 Cum	64.29	232.884096	0
LR002 : Female mulia	1.5	Per day	462	693	0
LR001 : Male mulia	1.5	Per day	462	693	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM025 : Gravel or moorum	3.6224	1 Cum	341.11	1235.636864	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
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BRM025 : Gravel or moorum	3.6224	1 Cum	54	195.6096	0
<b>Total Amount (a+b+c)</b>				3050.13056	
<b>Total GST (a)</b>				0	
<b>OVERHEAD CHARGES @ 7.5% (+)</b>				228.759792	
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>				245.9167764	
<b>LABOUR CESS @ 1% (+)</b>				35.248071284	
<b>Grand Total</b>				3560.055199684	
<b>Say For Unit 1 (Grand Total/2.83)</b>				1257.970035224	

**Umesh**  
**JE**  
**Boipariguda Block**

**Khiroda chandra Behara**  
**AEE**  
**Boipariguda Block**

**Subrat Kumar Sahu**  
**BDO**  
**Boipariguda Block**