

## Analysis

**OD/366/3520/120536/427221/00085974 : PRAGATI**

**Block : Raighar, Gram Panchayat : Haladi**

**Created By:CPPPMS**

<b>Item 1</b>
<p><b>Road Work (AR1341a):</b> Providing, laying, spreading and compacting Grading-I stone aggregates of specific sizes using moorum or gravel to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Clause 404 of MoRT&amp;H Specifications for Road &amp; Bridge works(Last Revision).</p>
<p>Sub-Item of Work  <b>Providing, laying, spreading and compacting Grading-I stone aggregates of specific sizes using moorum or gravel to water bound macadam</b></p>

a) Specific Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
BRMMR0037 : Cost of water	144	KL	10	1440	0
BRM025 : Gravel or moorum	108	1 Cum	64.52	6968.16	0
BRM075 : I.R.C. Grade I (90mm-45 mm.)	435.6	1 Cum.	804.94	350631.864	0
PM027 : Truck mounted water tanker Water transport 6KL	24	per hour	900.84	21620.16	0
PM025 : Smooth wheeled Roller 8 -10 tonne BMcompaction 25cum/hour	12	per hour	524.7	6296.4	0
LR001 : Male mulia	250	Per day	462	115500	0
LR025 : Mason	2	Per day	562	1124	0
LR010 : Mate	10.08	Per day	512	5160.96	0

b) Carriage Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
BRM025 : Gravel or moorum	108	1 Cum	406.21	43870.68	0
BRM075 : I.R.C. Grade I (90mm-45 mm.)	435.6	1 Cum.	536.41	233660.196	0

c) Royalty Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
BRM025 : Gravel or moorum	108	1 Cum	140.25	15147	0
BRM075 : I.R.C. Grade I (90mm-45 mm.)	435.6	1 Cum.	249.5	108682.2	0

<b>Total Amount (a+b+c)</b>	910101.62
<b>Total GST (a)</b>	0
<b>LABOUR CESS @ 1% (+)</b>	9101.0162
<b>Grand Total</b>	919202.6362
<b>Say For Unit 1 (Grand Total/360)</b>	2553.3406561111

**Item 2**

**Road Work (AR1321a):** Laying 20mm thick premix carpet using 0.27cum of 13.2mm to 5.6mm size crushed stone chipping and 14.60kg. viscosity grade (VG-30) bitumen (from Paradip) for 10sqm including hand packing to proper camber and consolidation with PRR including cost conveyance, royalty, taxes, cess etc. of all materials, hire and running charges of PRR, hot mix plant, bitumen boilers and all other T & P articles required for the work complete as per specification and direction of the Engineer-in-Charge.

Sub-Item of Work

**Laying 20mm thick premix carpet using 0.27cum of 13.2mm to 5.6mm (VG-30) bitumen (from Paradip)**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	8.59794	1 MT	40442	347717.88948	62589.2201064
<b>PM025</b> : Smooth wheeled Roller 8 -10 tonne BMcompaction 25cum/hour	88.0598	per hour	524.7	46204.97706	0
<b>PM053</b> : Bitumen boiler oil fired Bitumen spraying 1500Litre	74.5	per hour	198.11	14759.195	0
<b>PM044</b> : Hotmix plant -8 to 10TPH Premix cum/hour	14.9	per hour	1586.51	23638.999	0
<b>BRM058</b> : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	1428.13	75692.31813	0
<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	1370.27	145251.36054	0
<b>BRM106</b> : Fire wood	25.7	1Qntl	676.01	17373.457	0
<b>LR001</b> : Male mulia	427	Per day	462	197274	0
<b>LR010</b> : Mate	47	Per day	512	24064	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	8.59794	1 MT	426.22	3664.6139868	0
<b>BRM058</b> : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	406.21	21529.53621	0
<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	497.35	52720.0947	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	8.59794	1 MT	0	0	0
<b>BRM058</b> : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	199.5	10573.6995	0
<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	249.5	26447.499	0

<b>Total Amount (a+b+c)</b>	1006911.6396068
<b>Total GST (a)</b>	62589.2201064
<b>LABOUR CESS @ 1% (+)</b>	10695.008597132
<b>Grand Total</b>	1080195.8683103
<b>Say For Unit 1 (Grand Total/5889)</b>	183.42602620315

### Item 3

**Road Work (AR1354a):** Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen (from Paradip) meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 13.2mm nominal size @ 0.005cum per 10sqm and at an approximate spacing of 10cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 100 degree centigrade, protruding 1 mm to 4 mm over mastic surface all complete as per MoRT&H Specifications for Road & Bridge works (Last Revision) including cost conveyance, taxes, cess etc. of all materials and direction of the Engineer-in-Charge.

Sub-Item of Work

**Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen (from Paradip)**

#### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	0.2045	1 MT	40442	8270.389	1488.67002
<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	1370.27	778.31336	0
<b>BRM031</b> : Stone lime unslaked.	360	1 Kg.	21.88	7876.8	0
<b>BRM063</b> : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	805.85	314.2815	0
<b>PM028</b> : Tractor Pulling 50HP	1	per hour	357.55	357.55	0
<b>PM053</b> : Bitumen boiler oil fired Bitumen spraying 1500Litre	6	per hour	198.11	1188.66	0
<b>PM056</b> : Mastic Cooker Mastic Wearing Coat 1tonne	6	per hour	2454.85	14729.1	0
<b>PM031</b> : Air Compressor General purpose 170/250cfm	0.06	per hour	585	35.1	0
<b>PM037</b> : Mechanical broom hydraulic Surface cleaning 1250sqm/hour	0.06	per hour	356	21.36	0
<b>LR025</b> : Mason	1	Per day	562	562	0
<b>LR001</b> : Male mulia	10	Per day	462	4620	0
<b>LR010</b> : Mate	0.44	Per day	512	225.28	0

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	0.2045	1 MT	426.22	87.16199	0

<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	497.35	282.4948	0
<b>BRM063</b> : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	627.55	244.7445	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM350</b> : PARADIP BULK VG-30	0.2045	1 MT	0	0	0
<b>BRM054</b> : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	249.5	141.716	0
<b>BRM063</b> : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	249.5	97.305	0

<b>Total Amount (a+b+c)</b>	39832.25615
<b>Total GST (a)</b>	1488.67002
<b>LABOUR CESS @ 1% (+)</b>	413.2092617
<b>Grand Total</b>	41734.1354317
<b>Say For Unit 1 (Grand Total/35)</b>	1192.4038694771

**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
<b>LR025</b> : Mason	0.18	Per day	562	101.16	0
<b>LR002</b> : Female mulia	1.4	Per day	462	646.8	0
<b>LR001</b> : Male mulia	2.5	Per day	462	1155	0
<b>BRM340</b> : Cement	2.29	1 Qntl.	561	1284.69	231.2442
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	76.13	36.5424	0
<b>BRM044</b> : 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
<b>BRM340</b> : Cement	2.29	1 Qntl.	43.811	100.32719	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	406.21	194.9808	0
<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	497.35	477.456	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	2.29	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	140.25	67.32	0
<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	249.5	239.52	0

<b>Total Amount (a+b+c)</b>	5259.23639				
<b>Total GST (a)</b>	231.2442				
<b>LABOUR CESS @ 1% (+)</b>	54.9048059				
<b>Grand Total</b>	5545.3853959				
<b>Say For Unit 1 (Grand Total/1)</b>	5545.3853959				

### Item 5

**Concrete (AR0307a):** Cement concrete work with (1:2:4) using 12mm size hard granite(hand broken) chips including hoisting and laying in position compacting to proper thickness 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 specifaicon and direction of Engineer-in charge.

Sub-Item of Work

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

#### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM057</b> : 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)(Hand broken)	0.9	1 Cum.	1085.19	976.671	0
<b>LR002</b> : Female mulia	1.4	Per day	462	646.8	0
<b>LR001</b> : Male mulia	3.2	Per day	462	1478.4	0
<b>LR025</b> : Mason	0.68	Per day	562	382.16	0
<b>BRM340</b> : Cement	3.23	1 Qntl.	561	1812.03	326.1654
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	76.13	34.2585	0

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM057</b> : 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)(Hand broken)	0.9	1 Cum.	445.27	400.743	0
<b>BRM340</b> : Cement	3.23	1 Qntl.	43.811	141.50953	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	406.21	182.7945	0

#### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM057</b> : 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)(Hand broken)	0.9	1 Cum.	249.5	224.55	0
<b>BRM340</b> : Cement	3.23	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	140.25	63.1125	0

<b>Total Amount (a+b+c)</b>	6343.02903
<b>Total GST (a)</b>	326.1654
<b>LABOUR CESS @ 1% (+)</b>	66.6919443
<b>Grand Total</b>	6735.8863743
<b>Say For Unit 1 (Grand Total/1)</b>	6735.8863743

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