

Analysis

OD/356/3400/118416/400977/00086024 : PRIYA road
Block : Jajpur, Gram Panchayat : Badasuar
Created By: Rama Narayan Mohanty

Item 1

Road Work (AR1344a): Providing and applying tack coat with bitumen emulsion rapid setting (packed) (from Bhubaneswar) using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom 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 applying tack coat with bitumen emulsion rapid setting (packed) using emulsion pressure distributor

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM355 : Rapid Setting emulsion	0.7	1 MT	49698	34788.6	6261.948
PM039 : Emulsion pressure distributor Applying emulsion tack coat 1750sqm/hour	2	per hour	798.68	1597.36	0
PM031 : Air Compressor General purpose 170/250cfm	2.8	per hour	585	1638	0
PM037 : Mechanical broom hydraulic Surface cleaning 1250sqm/hour	2.8	per hour	356	996.8	0
LR001 : Male mulia	2	Per day	462	924	0
LR010 : Mate	0.08	Per day	512	40.96	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM355 : Rapid Setting emulsion	0.7	1 MT	664.02	464.814	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM355 : Rapid Setting emulsion	0.7	1 MT	0	0	0

Total Amount (a+b+c)	40450.534
Total GST (a)	6261.948
LABOUR CESS @ 1% (+)	467.12482
Grand Total	47179.60682
Say For Unit 1 (Grand Total/3500)	13.479887662857

Item 2

Road Work (AR1321aii): 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 Kakinada) 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 Kakinada)

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM351 : KAKINADA BULK VG-30	8.59794	1 MT	39592	340409.64048	61273.7352864
PM025 : Smooth wheeled Roller 8 -10 tonne BMcompaction 25cum/hour	88.0598	per hour	524.7	46204.97706	0
PM053 : Bitumen boiler oil fired Bitumen spraying 1500Litre	74.5	per hour	198.11	14759.195	0
PM044 : Hotmix plant -8 to 10TPH Premix cum/hour	14.9	per hour	1586.51	23638.999	0
BRM058 : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	1415.4	75017.6154	0
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	1361	144268.722	0
BRM106 : Fire wood	25.7	1Qntl	588	15111.6	0
LR001 : Male mulia	427	Per day	462	197274	0
LR010 : Mate	47	Per day	512	24064	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM351 : KAKINADA BULK VG-30	8.59794	1 MT	723.47	6220.3516518	0
BRM058 : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	796.81	42231.72681	0
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	796.81	84463.45362	0

c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM351 : KAKINADA BULK VG-30	8.59794	1 MT	0	0	0
BRM058 : Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve) (Crusher broken)	53.001	1 Cum.	149.5	7923.6495	0
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	106.002	1 Cum.	149.5	15847.299	0

Total Amount (a+b+c)

1037435.2295218

Total GST (a)

61273.7352864

LABOUR CESS @ 1% (+)	10987.089648082
Grand Total	1109696.0544563
Say For Unit 1 (Grand Total/5889)	188.43539725867

Item 3

Road Work (AR1354b): Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen (packed) (from Haldia) 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 (packed) (from Haldia)

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM354 : HALDIA PACKED VG-30	0.2045	1 MT	49292	10080.214	1814.43852
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	1361	773.048	0
BRM031 : Stone lime unslaked.	360	1 Kg.	21.88	7876.8	0
BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	805.85	314.2815	0
PM028 : Tractor Pulling 50HP	1	per hour	357.55	357.55	0
PM053 : Bitumen boiler oil fired Bitumen spraying 1500Litre	6	per hour	198.11	1188.66	0
PM056 : Mastic Cooker Mastic Wearing Coat 1tonne	6	per hour	2454.85	14729.1	0
PM031 : Air Compressor General purpose 170/250cfm	0.06	per hour	585	35.1	0
PM037 : Mechanical broom hydraulic Surface cleaning 1250sqm/hour	0.06	per hour	356	21.36	0
LR025 : Mason	1	Per day	562	562	0
LR001 : Male mulia	10	Per day	462	4620	0
LR010 : Mate	0.44	Per day	512	225.28	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM354 : HALDIA PACKED VG-30	0.2045	1 MT	664.02	135.79209	0
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	796.81	452.58808	0

BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	796.81	310.7559	0
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c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM354 : HALDIA PACKED VG-30	0.2045	1 MT	0	0	0
BRM054 : Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.568	1 Cum.	149.5	84.916	0
BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.39	1 Cum.	149.5	58.305	0

Total Amount (a+b+c)	41825.75057
Total GST (a)	1814.43852
LABOUR CESS @ 1% (+)	436.4018909
Grand Total	44076.5909809
Say For Unit 1 (Grand Total/35)	1259.3311708829

Item 4

Road Work (AR1305i): Supplying & spreading metal to proper camber with filler materials crusher dust and consolidation with H.R.R. including watering and turf edging including cost, conveyance, royalty, and taxes, etc. required for work as per specification and direction of Engineer-in-Charge.

Sub-Item of Work

Filler materials crusher dust and consolidation with H.R.R.

a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM043 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Hand broken)	1.415	1 Cum.	659.3	932.9095	0
BRM041 : Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve (Hand broken)	1.415	1 Cum.	653.8	925.127	0
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	0.9811	1 Cum	122.3	119.98853	0
LR002 : Female mulia	2	Per day	462	924	0
LR001 : Male mulia	3	Per day	462	1386	0

b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
BRM043 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Hand broken)	1.415	1 Cum.	471.31	666.90365	0
BRM041 : Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve (Hand broken)	1.415	1 Cum.	471.31	666.90365	0
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	0.9811	1 Cum	471.31	462.402241	0

c) Royalty Rate Details					
Particular	Quantity	Unit	Rate	Amount	GST
BRM043 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Hand broken)	1.415	1 Cum.	149.5	211.5425	0
BRM041 : Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve (Hand broken)	1.415	1 Cum.	149.5	211.5425	0
BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	0.9811	1 Cum	40.25	39.489275	0
Total Amount (a+b+c)	6546.808846				
Total GST (a)	0				
LABOUR CESS @ 1% (+)	65.46808846				
Grand Total	6612.27693446				
Say For Unit 1 (Grand Total/2.83)	2336.493616417				

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