

Name of Road :- Dhenuki To Tothra Jagat Pur
Path

MB No-688

Schedule XLV-Form No. 134

Executive Engineer
Rural Works Department
Works Div. Marhaura

DIVISION

CHITRA

SUB-DIVISION

Measurement Book

Hernant Kumar Singh

Name of Work—
 Situation of Work—
 Agency by which work is executed—
 Date of Measurement—
 No. and date of agreement

(These four lines should be repeated at the commencement of the measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st and Final Bill					
Name of work: M.R. of Road from					
Dhemuke to Totake,					
Jagatpur					
N/Agency: Hemant KRSingh					
Agg No. - 09/MR-2054/MCB/2020-21					
D.O. Start: 21.05.2020					
D.O. Comp: 20.02.2021					
		/			
(1) Cleaning and Grubbing					
of R.L. 100					
$2 \times 25 \times 30.00 \times 1.00$					$= 1500.00 \text{ m}^2$
$2 \times 25 \times 30.00 \times 1.00$					$= 1500.00 \text{ m}^2$
$2 \times 25 \times 30.00 \times 1.00$					$= 1500.00 \text{ m}^2$
$2 \times 25 \times 30.00 \times 1.00$					$= 1500.00 \text{ m}^2$
$2 \times 25 \times 30.00 \times 1.00$					$= 1500.00 \text{ m}^2$
$2 \times 10 \times 30.00 \times 1.00$					$= 600.00 \text{ m}^2$
					<u>8100.00 m²</u>
					at 0.81 Hare
(2) Cost of G.R. 90.11 m ²					
apd material					
thickness 150 mm					
$20 \times 2.00 \times 2.50$					$= 100.00 \text{ m}^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	24	1.50	2.00		72.00 m ²
	30	1.75	1.25		65.62 m ²
	18	3.00	2.00		108.00 m ²
	12	2.00	2.00		48.00 m ²
					1.
					393.62 m ² (A)
Qty: 393.62 m ² x 0.150 = 59.04 m ³					
(3) Boundary and Laying					
with 100 mm brick work					

Qty: 393.62 m ² x 1.02 = 401.49 m ²					
only 100 mm brick work					
	32	2.00	2.50		160.00 m ²
	25	1.50	2.00		75.00 m ²
	36	2.00	2.00		144.00 m ²
	4	2.50	1.10		11.00 m ²
					791.49 m ² (A)
Qty: 791.49 m ² x 0.075 = 59.36 m ³					
Qty: 600 m ² x 0.075 = 59.32 m ³					
(4) Pav and Laying with 100 mm					
with 100 mm material					
Qty: 807.32 m ² x 1.02 = 807.32 m ²					

Continuation

Continuation
 Area of do = $16.00 \times 8.00 \text{ m}^2$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) Bonding and lapping mix seal surface					
Area of 14 6(A) =					1651.07 m ²
Area of 28 14B =					1650.80 m ²
(8) Bonding and applying steel reinforcement					
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
10 x 30.0 x 3.75 =					1125.00 m ²
Total =					15187.50 m ²
(9) Bonding and lapping 3-D-B reinforcement					
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
25 x 30.0 x 3.75 =					2812.50 m ²
10 x 30.0 x 3.75 =					1125.00 m ²
Total =					15187.50 m ²

Continuation

$$\text{Dm} = 15187.50 \text{ m}^2 \times 0.025 = 379.69 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) construction of subgrade and earthen shoulder					
	2x	13.5x30m	x 0.70x0.3m		170.10m ³
(11) Road and approach					
hot applied thermoplastic Road marking					
Road					
	2x	13.5x30m	x 0.100		810.00m ²
(12) Roadwork					
cut (1.4) -					
repair of shoulder					
	7x2	x 6.15x0.400	x 0.600		20.66m ³
(13) Roadwork					
plastering					
in cut (1.4)					
	7x2	x 6.15x1.00			86.10m ²
	7x2	x 6.15x0.600			51.66m ²
	7x2	x 6.15x0.400			34.44m ²
	7x4	x 0.400x0.600			17.04m ²
					149.24m ²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Branding two coat Backup over new Surface					
Area under (13) =					149.24 m ²
2 x 2 x 15.00 x 1.00 =					60.00 m ²
					209.24 m ²
(15) Baromet Backup 1m Post					05 Nos
(16) Baromet Backup 1m Post					16 Nos
(17) Baromet Backup 2 Baromet Pillar					88 Nos
(18) Baromet Backup 2 Baromet and place identification					
Baromet 2 x 1.20 x 0.80 =					1.92 m ²
(19) Branding and Backup of Cautionary, mandatory and Informative Board					
(i) 600 mm sq. sample					48 Nos
(ii) 600 mm circle					8 Nos
(iii) 600 mm x 150 mm rect					16 Nos
(20) Planting trees by the Road Side					196 Nos

Continuation

<u>Abstract of Cost</u>			
①	clearing and grubbing of 21 ha	It is ①-1	
0.81	Rate of 49496.70/ha	40092.00	
②	Cost of W.B or D with app mtr	It is ② P-2 & 3	
59.04	m ³ of 2511.59/m ³	148248.00	
③	Proc and Layer wsm	Cr-2 It is ③ P-2	
59.32	m ³ of 4752.39/m ³	281908.00	

Scanned with CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ Bonding and lay up with 1mm					
see ④ P-2 & 3					
96-64 m ² @ 4227.38/m ²					408534.10
⑤ Bonding and applying Prime Coat					
see ⑤ P-3					
1288.57 m ² @ 411.30/m ²					53218.00
⑥ Bonding and applying Tack Coat					
see ⑥ P-3					
1650-80 m ² @ 14.91/m ²					23128.00
⑦ Bonding and Lay up 25mm thick concrete					
14 ⑦ P-4					
mix Seal surface					
14 ⑦ P-4					
1650-80 m ² @ 230.37/m ²					380295.00
⑧ Bond and applying Tack Coat					
14 ⑧ P-4					
15187.50 m ² @ 11.75/m ²					178453.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑨ Room and larder 25 mm thick SDB-e at ⑨ P-4					
379.69 m ³ DB	11323.48	m ³	4299412.0		
⑩ Cost of subgrade and earthen chaulatess at ⑩ P-5					
1701.00 m ³ CB	176.96	m ³	301009.00		
⑪ Room and appurtenant masonry work at ⑪ P-5					
810.00 m ² CB	735.40	m ²	595674.00		
⑫ Room masonry (1:4) at ⑫ P-5					
20.66 m ³ CB	5102.55	m ³	105419.00		
⑬ Plastered plaster (1:4) at ⑬ P-5					
149.24 m ² CB	155.79	m ²	23250.00		
⑭ Providing two coat plaster at ⑭ P-5					
209.24 m ² CB	95.63	m ²	20010.00		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) Forward Release of					
km Pass					
24 (15) R/L					
OS No CB 2405.86/km ²					12029.40
(16) Forward Release of					
200 m ² Pass					
14 (16) R/L					
16 No CB 652.98/each					10448.40
(17) Forward Release of					
Boundary Pillar					
17 (17) R/L					
88 No CB 516.15/each					45421.40
(18) Forward Release of					
dim & place Identification					
14 (18) R/L					
1.92 m ² CB 12428.98/m ²					23856.40
(19) Forward Release of					
mandatory as internally					
Sign Pass					
14 (19) R/L					
1 600 mm sq triangle					
48 No CB 3709.49/each					178056.40

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(52) Grounding Corral					
8 No. ch 3808.84/each					30471.0
(52) 800 mm x 400 mm Rect					
16 No. ch 3679.72/each					58876.0
(50) Planting of trees by the Road side					
10 (30) P-6					
19.6 No. ch 800.80/each					156859.0
(21) Down and Acreage of typical					
Large and Center Euphr					
Side Row					
10 (21) P-6					
02 No. ch 9447.30/each					18895.0
Total					7393561.0
Add GST 12%	(12%)				887227.0
Add Less 1%	(1%)				73936.0
					8354724.0
14.2.2021					
6					
4/02/21					
05					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Material statement					
① Barite					1701.00 m ³
Stone Ash					
26.50 to 9.50					26.57 m ³ or 533.32 m ³
9.50 to 2.36					18.89 m ³ or 411.33 m ³
decal sand					30.11 m ³ or 116.85 m ³
6.3 mm to 4.75 mm					71.78 m ³ or 427.69 m ³
11.2 mm screen					15.82 m ³ or 345.52 m ³
Binding Mat					4.75 m ³ or 131.28 m ³
53 mm to 22.40					116.93 m ³ or 458.22 m ³
11.2 mm screen					23.19 m ³ or 345.52 m ³
Stone cherty					
Waste Plaster - 0.2509 m ³ or 3550.07 m ³					
13.2 to 0.09 mm					44.57 m ³ or 470.04 m ³
9.50 mm to 4.75 mm					316.78 m ³ or 528.94 m ³
4.75 mm to 2.36 mm					227.81 m ³ or 200.45 m ³
Filter Material					16.78 Tons or 3555.28 Tons
Bricks					10330 Nos or 4960 m ³ or 13
Sand					6.70 m ³ or 150 m ³
Bitumen 5-90					46.6961 MT.
Invoice No. 20215869 BOD 3211 dt-6.2.2021					
emulsion RS-1 (SS-1)					1.0953 MT
emulsion RS-1					3.8512 MT
1					
14.2.2021					
Gr					
14/02/21					
AB					
Attachment Let No 202119-03-2021					

Alto + mm + Lt + No. 202119-03-2021

Continuation

RS- 68,70,000=00