

MM5345C
R-EO 215-29-HE 211-21011-44-

Schedule XLV-Form No. 134

Executive Engineer
RWD Works Division
Darbhanga-1

DIVISION

~~Darbhanga-1~~

SUB-DIVISION

Dharamvir Kumar Mishra.

Measurement Book

3430/19-20

Sch. XLV-Form No. 134

Executive Engineer
R W D Works Division

DIVISION

Darbhangha-1

Darbhangha

SUB-DIVISION

Measurement Book

No.

3430

19-20

Name of Officer

Date of first entry

Date of last entry

M.O No - 3430/19-20

INDEX

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समाप्त किया जाता है कि
इस माप-पुस्तक में क्रमांक-01 से
10 तक के सौ तक कुल मुहल्ले
अंकित पंक्ता है। यह माप-पुस्तक
श्री श्रीमधुसूदन कुमार प्रवीण, स.क.
ग्रा.क. वि. कार्य अण्ड प्रमंडल
दरभंगा डिवीजन से निर्गत किया
जाता है।



Executive Engineer
RWD Works Division
Darbhanga-1



25.6.19

श्रीमति सरिता कुमारी, का.क. ग्रा.
का. वि. कार्य प्रशाखा - दरभंगा
से निर्गत किया जाता है।


25.6.19

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2nd on A/c Bill				
Name of work -	Construction of road				
from	Mabbi R.C.D. Path road				
to	Machha talga.				
Agency -	Sri Dharmendra Kumar Mishra,				
Agreement value -	Rs 47,63,250/-				
Agreement no -	66580/2018-19				
	MMGS/SCJ				
Date of work start -	16-02-2019				
Date of completion -	15/11/2019				
Date of entry -	28/06/2020.				

(1) clearing and grubbing					
of 1 road Land					
1 x 30.00 x 3.50 = 105.00 m ²					
1 x 5.00 x 3.50 = 17.50 "					
122.50 "					
= 0.01225 Hect					
(2) Construction of G.C.B.					
90% materials - all					
complete for					
for P.P. position at start					
1 x 8.40 x $\frac{10.00 + 4.75}{2}$ x 0.20 = 12.39 m ³					
1 x 9.70 x $\frac{4.75 + 3.80}{2}$ x 0.20 = 8.464					
Culvert - 1 x 6.20 x $\frac{7.70 + 4.40}{2}$ x 0.20 = 3.75					
Continuation to - 24.60 m ³ .					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 x 20.00 x 4.00 + 3.60 x 0.075 =					8.25 "
1 x 10.00 x 3.70 + 3.70					2.24 "
1 x 10.00 x 3.40 + 3.70					2.24 "
1 x 30.00 x 3.00 + 3.75					3.23 "
1 x 20.00 x 3.25 x 0.075 =					5.67 "
1 x 10.00 x 3.25 + 3.60 x 0.075 =					2.25 "
1 x 30.00 x 3.60 x 0.075 =					8.10 "
1 x 30.00 x 3.60 + 3.70					8.21 "
1 x 30.00 x 3.70 + 3.75					8.32 "
4 x 30.00 x 3.75 x 0.075 =					33.75 "
1 x 25.00 x 3.75 + 3.70					6.98 "
385.00 m.					115.37 m ²

② provide and apply
primer coat (854)

1 x 8.40 x 9.90 + 4.65					6.11 m ²
1 x 9.90 x 4.65 + 3.70					41.53 "
1 x 6.20 + 0					18.44 "
CH - 268.30 m					to 653.80 m
1 x 30.00 x 3.65					102.50 m ²
1 x 30.00 x 3.65 + 3.40					105.75 "
1 x 30.00 x 3.40 + 3.70					106.50 "
1 x 30.00 x 3.70 + 3.75					111.75 "

Continuation

60, 554.38 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 x 20.00 x 3.75					75.00 ml
1 x 10.00 x 3.75 + 3.60					= 36.75 "
1 x 20.00 x 3.60					= 108.00 "
1 x 30.00 x 3.60 + 3.70					= 109.50 "
1 x 30.00 x 3.70 + 3.75					= 111.75 "
4 x 30.00 x 3.75					= 450.00 "
1 x 25.00 x 3.75 + 3.70					= 92.12 "
					<u>1538.50 ml</u>

(2) provide and apply
chaco coat with bitumen

emulsion (RS-1) — Ety

Ety same as item no. (1)
= 1538.50 ml

(3) provide, Layup and
rollup of close packed
premixed Surface — 54

Complete the
(Mix Seal Surface)

1 x 8.40 x 7.90 + 4.65					= 61.11 ml
1 x 9.90 x 4.65 + 3.70					= 41.32 "
Curve — 1 x 6.20 + 0.7.60 + 4.30					= 18.44 "
Chd - 268 20m to 659.30m					
1 x 20.00 x 3.65					= 109.50 ml

Continuation 290.38 ml

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Alf		220.38 M ²
1 x 30.00 x 3.45		651	3.45		= 103.75
		2			
1 x 30.00 x 3.70 + 3.70			3.70		= 103.50
1 x 30.00 x 3.70 + 3.75			3.75		= 111.75
		2			
1 x 20.00 x 3.75					= 75.00
1 x 10.00 x 3.75 + 3.60					= 36.75
		2			
1 x 30.00 x 3.60					= 108.00
1 x 30.00 x 3.60 + 3.70					= 109.50
		2			
1 x 30.00 x 3.70 + 3.75					= 111.75
		2			
4 x 30.00 x 3.75					= 450.00
1 x 25.00 x 3.75 + 3.70					= 93.75
					1538.50 M ²
(4) provide R.C.C. M15					
Grade K.M. post —					
Qty. 2. No					
(5) 200 M. Stone post - precast					
Qty. 3. No					
(6) provide and fix					
Semi-reflective cautionary					
Mandatory and information					
Sign Board					
complete job					
(i) 600 mm equilateral					
triangle					
Qty. 2. No					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑦ 600 mm circular					
Qty. 2 No					
⑧ 600 mm x 40 mm rectangular					
Qty. 2 No.					
⑨ providing and fixing of typical M.S.M. information sign board with logo as per per road specification				all	
complete job					
Qty. 1 No. (Maintenance Board)					
⑩ Road Marking with hot applied Thermoplastic compound				on B.T.	
Surface				all complete	
$2 \times 403.30 \times 0.10 = 80.66 \text{ m}^2$					
⑪ Construction of Sub-grade and earthen shoulders with approved materials.					
sheet attached for B.T. position					for Estimation
$1 \times 18.80 \times 1.30 \times 0.20 = 4.758 \text{ m}^3$					
$1 \times 18.80 \times 1.20 \times 0.20 = 4.758 \text{ m}^3$					
for inside of W.S.M.					
$2 \times 18.80 \times 1.00 \times 0.075 = 2.345 \text{ m}^3$					
for c.c. pavements					
$3 \times 30.00 \times 0.75 + 1.00 \times 0.335 = 21.600$					
$2 \times 30.00 \times 1.00 + 1.00 \times 0.335 = 24.124$					
Continuation					68.791 m

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BIA	68791.17
$2 \times 30.00 \times 0.90 + 1.35$				$\times 0.235$	22.61
$1 \times 30.00 \times 0.90 + 1.40$				$\times 0.335$	11.5
$1 \times 10.00 \times 0.90 + 1.40$				$\times 0.335$	3.85
For B.T. portion.					
$3 \times 30.00 \times 0.65 + 0.95$				$\times 0.275$	19.80
				2	
$3 \times 30.00 \times 0.75 + 1.10$				$\times 0.275$	22.85
$2 \times 30.00 \times 0.80 + 1.15$				$\times 0.275$	16.09
				2	
$2 \times 30.00 \times 0.80 + 1.15$				$\times 0.275$	16.09
$2 \times 30.00 \times 0.75 + 1.10$				$\times 0.275$	15.2
				2	

$2 \times 25.00 \times 0.75 + 1.00$				$\times 0.275$	12.72
				2	
					209.65 M ³

(12.) Construction of embankment with material obtained from borrow pit - all complete and (Each calculation sheet is attached this way)

chainage (m)	cls Area (sq m)	Mean cls Area (sq m)	length (m)	Quantity (cu m)
(1)	(2)	(3)	(4)	(5)
0	3.349	—	—	—
50	11.758	2.554	50	127.70
100	2.238	2.009	50	100.45

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
①	②	③	④	—	⑤
150	1.946	2.103	50		105.15
200	1.785	1.866	50		93.30
250	2.207	2.426	50		124.80
300	3.395	3.301	50		165.05
350	5.022	4.209	50		210.45
400	4.610	4.816	50		240.80
450	4.060	4.335	50		216.75
500	6.373	5.217	50		260.85
550	5.401	5.887	50		294.35
600	5.086	5.244	50		262.20
650	4.373	4.230	50		236.50
653	3.510	3.942	3.00		11.83

payable Qty. = 2450.18×0.95
 $= 2327.67 \text{ m}^3$

Reduction

(i) G.S.B. Qty. = $184.36 - \frac{P}{6}$

$160.29 - \frac{5}{6}$

(ii) W.B.M. Qty. = $344.65 \text{ m}^3 - \frac{70.42 \text{ m}^3}{6}$

$115.33 \text{ m}^3 - \frac{P}{6}$

185.80 m^3

(iii) c.c. pavement = $151.18 \text{ m}^3 - \frac{P}{6}$

(iv) Sub grade & earthen shoulder

209.65 m^3

89.28 m^3

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Net Earth Qty = (A-B)					
					$= 1436.33 \text{ m}^3$
(i) For 1000 M. lead					
Earth Qty. =					
				$\frac{1436.39 \times 30}{100}$	$= 430.91 \text{ m}^3$
(ii) For 100 M. lead.					
Earth Qty. =					
				$\frac{1436.39 \times 30}{100}$	$= 1005.48 \text{ m}^3$
13. Road Marking with hot applied Thermoplastic Compound on c.c. surface				51	
Complex 1/2					
Qty 2 x 250.00 x 0.10 = 50.00 m ²					

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
ABSTRACT of work					
1. Provision of 1st					
2. Provision of 2nd					
3. Provision of 3rd					
4. Provision of 4th					
5. Provision of 5th					
6. Provision of 6th					
7. Provision of 7th					
8. Provision of 8th					
9. Provision of 9th					
10. Provision of 10th					
11. Provision of 11th					
12. Provision of 12th					
13. Provision of 13th					
14. Provision of 14th					
15. Provision of 15th					
16. Provision of 16th					
17. Provision of 17th					
18. Provision of 18th					
19. Provision of 19th					
20. Provision of 20th					
21. Provision of 21st					
22. Provision of 22nd					
23. Provision of 23rd					
24. Provision of 24th					
25. Provision of 25th					
26. Provision of 26th					
27. Provision of 27th					
28. Provision of 28th					
29. Provision of 29th					
30. Provision of 30th					
31. Provision of 31st					
32. Provision of 32nd					
33. Provision of 33rd					
34. Provision of 34th					
35. Provision of 35th					
36. Provision of 36th					
37. Provision of 37th					
38. Provision of 38th					
39. Provision of 39th					
40. Provision of 40th					
41. Provision of 41st					
42. Provision of 42nd					
43. Provision of 43rd					
44. Provision of 44th					
45. Provision of 45th					
46. Provision of 46th					
47. Provision of 47th					
48. Provision of 48th					
49. Provision of 49th					
50. Provision of 50th					
51. Provision of 51st					
52. Provision of 52nd					
53. Provision of 53rd					
54. Provision of 54th					
55. Provision of 55th					
56. Provision of 56th					
57. Provision of 57th					
58. Provision of 58th					
59. Provision of 59th					
60. Provision of 60th					
61. Provision of 61st					
62. Provision of 62nd					
63. Provision of 63rd					
64. Provision of 64th					
65. Provision of 65th					
66. Provision of 66th					
67. Provision of 67th					
68. Provision of 68th					
69. Provision of 69th					
70. Provision of 70th					
71. Provision of 71st					
72. Provision of 72nd					
73. Provision of 73rd					
74. Provision of 74th					
75. Provision of 75th					
76. Provision of 76th					
77. Provision of 77th					
78. Provision of 78th					
79. Provision of 79th					
80. Provision of 80th					
81. Provision of 81st					
82. Provision of 82nd					
83. Provision of 83rd					
84. Provision of 84th					
85. Provision of 85th					
86. Provision of 86th					
87. Provision of 87th					
88. Provision of 88th					
89. Provision of 89th					
90. Provision of 90th					
91. Provision of 91st					
92. Provision of 92nd					
93. Provision of 93rd					
94. Provision of 94th					
95. Provision of 95th					
96. Provision of 96th					
97. Provision of 97th					
98. Provision of 98th					
99. Provision of 99th					
100. Provision of 100th					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Pro 100 m. 100 D.					
Qty 1005.18 m ²				P/16	
@ 129.26/m ²				P/16	12996820
⑦ construction of Sub-grade and earthen shoulder					
all complete job					
Qty. 209.65 m ²				P/15	
@ 148.61/m ²				P/15	3115620
⑧ Construction of Granular Sub-base by providing well graded material					
all complete job					
Qty. 187.36 m ²				P/5	
160.25 m ²				P/5	
344.65 m ²					
@ 2738.86/m ²					94394820
⑨ providing Laying, spreading & compacting (SBM-III) material					
all complete					
Qty. 70.43 m ²				P/6	
115.37 m ²				P/10	
185.80 m ²					
@ 3347.85/m ²					62203120
⑩ providing and applying primer coat (SS-1)					
all complete				P/11	
Qty. 1538.50 m ²					7311020
@ 47.52/m ²					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) providing grad and applying Tack coat (R-1) — all complete job				P/11	
Qty. 1538.50 m ²					
@ 16.02/m ²					24647.00
(12) providing, Layer and rolling of close graded premium Surfacing material of 20 mm thickness — all complete job (Ultra Seal Surfacing)				P/12	
Qty. 1538.50 m ²					
@ 209.01/m ²					321562.20
(13) Construction of 4m - reinforced concrete concrete pavement with grade — — all complete job				P/6	
Qty. 151.18 m ³					
@ 3347.85/m ³					235785.10
@ 7537.87/m ³					1139575.20
(14) providing R.C.C. M15 grade C.M. post				P/12	
Qty. 2.00 No					5096.00
@ 2548.44 each					2548.20
(15) 200m. Stone post				P/12	
Qty. .3.00 No					
@ 662.01 each					1986.00

Continuation co. 6337426420

3376.812. -

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) provide color and finish on Scrub wall painting - 2500 sq. ft. 1100 sq. ft. of color painting Sign Board - 1 sample					
(17) 600 mm equilateral triangle Qty. 2 @ 16.12				P/12	
		@ 1703.12 / No.		Rs	34062.20
(18) 600 mm circular Qty. 2 @ 16.12				P/13	
		@ 1767.018 / No.		Rs	35342.20
(18) 800 mm x 450 mm rectangles Qty. 2 @ 16.12				P/13	
		@ 1760.620 / No.		Rs	35212.20
(19) provide and fix a typical MUGSY information Sign Board with logo all complete job.					
Qty. 2 @ 16.12				P/16	
1 @ 16.12				P/13	
03 @ 16.12					
		@ 9759.79 each		Rs	29279.20
(20) Road Marking with HSE applied Thermoplastic Compound with Reflectors glass on B.T. surfaces all complete job					
Qty. 8 @ 66.11				P/13	
		@ 867.16 / m ²		Rs	69452.20

Continuation to 24,83,942.20

34,86,497.-

[illegible]