

श्रीधर MR-3054 योजनामार्फत परामर्शदाता
-एनएनएन-

Schedule XLV Form No. 134.

Agreement No. 52 MBD/2020-21)

DIVISION

SUB-DIVISION

Executive Engineer
RWD Works Division
Basant

Measurement Book

Madan Kumar Singh.

1340

प्रमाणित किया जाता है कि इस मापी हुई में
कुल 100 (एक सौ) प्रणव मशीन द्वारा भीषित
है इससे भी ऊंचीर कुमार 50 कामों कार्य
कम प्रमाण पर लोनी के नाम से किया
किया जाता है

07/10/20
Executive Engineer
RWD Works Division
Bokaro
07/10/20

Sch. XLV-Form No. 134

_____ DIVISION
_____ SUB-DIVISION

MEASUREMENT BOOK

No. 1340

Name of Officer _____

Date of first entry _____

Date of last entry _____

1.

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 measurements relating to each work).

of the measurements relating to each work.					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1st and final Bill				
Name of work	1 - Construction of Road with				
5 year Maintenance of package	No - MR				
19-20 Bel Sand/07	Under 3054 M/R Scheme				
	to Pansurampur To Dhanhara.				
Agency	1 - Madan Kumar Singh.				
Agreement	No 1 - 52MBD/2020-20				
Date of Start	1 - 18.05.2020				
Date of completion	1 - 17.02.21				

Record Measurement: - 11.12.2020					
Date of Measurement: - 11.12.2020					
(1) Clearing and Grubbing Road Land.					
as per drawing and specification of E/I.					
2 x 900m x 1.0 = 1800m ²					
= 0.18 Hect					
(2/3) Granular sub-base with well graded					
material: - Construction of granular					
sub-base by providing well graded material.					
as per drawing and specification of E/I.					
9 x 3.5 x 1.52 x 0.175 = 8.37m ³					
7 x 4.0 x 2.15 x 0.175 = 10.53m ³					
Limit = 16.76m ³					
= 18.905m ³					

Skiv
 11/12/20

JE Continuation

Skiv
 11/12/20
 AK

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Measurement:-	17	11	2020		
Date of Measurement:-	17	11	2020		
(1/4) WBM Grading:-	02				
providing and laying WBM Gr-I with					
stone materials as per drawing and					
specification of E/I.					
9x	4.0x	1.50x	0.075	=	4.05m ³
14x	2.0x	1.35x	0.075	=	2.83m ³
17x	4.05x	1.95x	0.075	=	10.06m ³
				=	16.94m ³
				Limit	215.49m ³
Shiv	17/11/20				
J.E					
Skema	17/11/20				
ATE					

Record Measurement:-	19	11	2020		
Date of Measurement:-	19	11	2020		
(1/5) WBM Grading:-	03				
providing and laying W.B.M Gr-III with					
stone materials as per drawing and					
specification of E/I.					
27x	3.5x	1.0x	0.075	=	7.08m ³
37x	2.5x	1.25x	0.075	=	8.67m ³
9x	4.0x	1.50x	0.075	=	4.05m ³
11x	2.72x	1.75x	0.075	=	3.927m ³
				=	23.727m ³
				Limit	23.64m ³
Shiv	19/11/20				
J.E					
Skema	19/11/20				
ATE					

Skema Continuation
19/11/20
ATE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Measurement :-				15.02	2021
Date of Measurement :-				15.02	2021
① Providing and applying primer coat (SS-1) as per drawing and specification of E/I					
27 Nos $\times 3.5 \text{ m} \times 0.95$					$= 89.75 \text{ m}^2$
22 Nos $\times 2.72 \times 0.7$					$= 43.08 \text{ m}^2$
19 Nos $\times 2.57 \times 0.97$					$= 47.36 \text{ m}^2$
40 Nos 15 Nos $\times 3.5 \times 0.97$					$= 50.92 \text{ m}^2$
26 Nos 26 Nos $\times 3.6 \times 0.95$					$= 88.92 \text{ m}^2$
					$= 320.03 \text{ m}^2$
					Limit $= 315.20 \text{ m}^2$
② Providing and laying tack coat (RS-1) with emulsion as per drawing and specification of E/I.					
27 Nos $\times 3.5 \times 0.95$					$= 89.75 \text{ m}^2$
22 Nos $\times 2.72 \times 0.7$					$= 43.08 \text{ m}^2$
19 Nos $\times 2.57 \times 0.97$					$= 47.36 \text{ m}^2$
15 Nos $\times 3.5 \times 0.97$					$= 50.92 \text{ m}^2$
26 Nos $\times 3.6 \times 0.95$					$= 88.92 \text{ m}^2$
					$= 320.03 \text{ m}^2$
					Limit $= 315.20 \text{ m}^2$
gn p.c.c Part 1 -					
6.8 m $\times 2.5 \text{ m} \times 1.0$					$= 17 \text{ m}^2$

③ patch work over WBM using Mix-seal surface with waste plastic for bituminous and Existing CC Pavement					
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Continuation

$$\frac{4}{9}$$
Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{5}{10}$ Semi-dense Bituminous concrete - providing and laying semi-dense bitumi- nous concrete with 100-120 TPH bit ch type HMP. as per drawing and specification of E/1 SDBC. Qty $2375 \text{ m}^2 \times 0.025 = 84.38 \text{ m}^2$					
$\frac{6}{16}$ providing and fixing of retro-reflectors - $\frac{6}{15}$ See cautionary,					
	1x2				2 Nos.
$\frac{7}{12}$ (ii) Kan Stone.					
	1x2				2 Nos.
$\frac{8}{13}$ (ii) 200mm Stone.					
	1x4				4 Nos.
$\frac{9}{16}$ 600mm circular.					
	1x 222				20 Nos.
$\frac{10}{17}$ 600mm x 450mm rectangular.					
	1x 222				20 Nos.
$\frac{11}{18}$ Boundary pillar/Guard post -					
	1x 242				24 Nos.
$\frac{12}{20}$ Planting of trees and their by the road side (Avenue trees) in 0.60m dia holes 1.0mtr.					
	1x 402				40 Nos.
	1x 20				20 Nos. 40 Nos.
$\frac{13}{21}$ Road marking with hot applied thermoplastic compound.					
	2x 900m				$2 \times 900 \text{ m} \times 0.10 = 180 \text{ m}^2$

Continuation

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) 22 Providing and fixing of typical masonry information sign board.					
		1x2 = 2.0 Nos.			
(15) 2 Construction of sub-grade and earthen shoulder/shoulder with approved material. lead up to 1000 mtr.					
L.H.S side -					
	10x	30m x 0.70 x 0.30 = 63m ²			
	10x	30m x 0.70 x 0.30 = 63m ²			
	10x	30m x 0.70 x 0.30 = 63m ²			
				= 189m ²	
R.H.S side -					

$$10 \times 30 \text{ m} \times 0.70 \times 0.30 = 63 \text{ m}^2$$

$$10 \times 30 \text{ m} \times 0.70 \times 0.30 = 63 \text{ m}^2$$

$$10 \times 30 \text{ m} \times 0.70 \times 0.30 = 63 \text{ m}^2$$

$$= 189 \text{ m}^2$$

L.H.S side + R.H.S side

$$189 \text{ m}^2 + 189 \text{ m}^2 = 378 \text{ m}^2$$

(16)
23 Brick masonry work in cement
mortar (1:2:3) in parapet.

$$2 \times 6.0 \times 0.40 \times 0.60 = 2.88 \text{ m}^3$$

as for same 7.0 Nos culvert.

$$2.88 \text{ m}^3 \times 7 \text{ Nos} = 20.16 \text{ m}^3$$

(17)
24 Plastering with cement mortar
(1:2) on brick work in sub.
structure. as per drawing

Continuation

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Abstract of cost				
Name of work:-	Construction of Road from				
	Pasasurampur To Dhanhara				
Package No:-	MR-N/19-20 Belsand/07 under				
	3054 MIR Scheme				
Agency:-	Madan Kumar Singh				
Agreement No:-	52 MBD/2020-2021				
Estimated cost:-	2,93,17,128200				
Date of start:-	18.05.2020				
Date of completion:-	17.02.2021				
Date of Entry:-	15.02.2021				

① clearing and Grubbing Road Land
as per drawing as specification of E/I.

Qty. vide TMB.P. No. — ⑥①

Item No. — ⑥① 0.18 Hect

@ 49496.70/Hect ————— R, 890920.

② Construction of sub-grade and
earthen shoulders with approved material.

Qty. vide TMB.P. No. — ⑥②

Item No. — ⑥② 378 m³

@ 176.75/m³ ————— R, 6681100.

③ Providing and laying G.S.B with stone
material. do do do E/I.

Qty. vide TMB.P. No. — ⑥③

Item No. — ⑥③ 16.76 m³

@ 2103.68/m³ ————— R, 352570

C-0. Rs 2,10,977200

Continuation

Sch. XLV-Form No. 134 B.F. 1, 16, 977 200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ providing and laying WBM Gr-II with stone materials.					
Qty. vide TMB P.No. — (62)					
item No. — (64) 15.49 m ³					
@ 3782.57/m ³				R,	58591200
⑤ providing and laying WBM Gr-III with stone materials.					
Qty. vide TMB P.No. — (62)					
item No. — (65) 23.64 m ³					
@ 3496.13/m ³				R,	82648200
⑥ providing and applying primer coat.					
Qty. vide TMB P.No. — (63)					
item No. — (66) 315.20 m ²					
@ 41.36/m ²				R,	13036200
⑦ providing and applying tack coat.					
Qty. vide TMB P.No. — (63)					
item No. — (67) 332.2 m ²					4660200
@ 14.03/m ²				R,	4665200
⑧ patch work over WBM using Mix seal surface with waste plastic for bituminous surface for C.C. pavement.					
Qty. vide TMB P.No. — (63 to 64)					
item No. — (68) 332.2 m ²					
@ 204.98/m ²				R,	68094200
Total Rs					3,38,006200

Continuation

Sch. XLV-Form No. 134 B.P. 3,38,006200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑨ Semi-Dense bituminous Concrete					
Qty. vide TMB P. No. — (64)					
Item No. — (10) 84.38m ³					
@ 10253.76/m ³					R 8,65,684-
⑩ providing and applying tack coat.					
Qty. vide TMB P. No. — (64)					
Item No. — (69) 3375 m ²					
@ 11.76/m ²					R 39,69,0200
⑪ Km stone.					
Qty. vide TMB P. No. — (65)					
Item No. — (12)(i) 2.0 Nos					
@ 2443.25/each					R 4886200
⑫ 200mm Stone.					
Qty. vide TMB P. No. — (65)					
Item No. — (13)(i) 4.0 Nos					
@ 655.93/each					R 2623200
⑬ Retro-reflectorised Traffic signs.					
Qty. vide TMB P. No. — (65)					
Item No. — (15) 2.0 Nos					
@ 3728.94/each					R 745720-
⑭ 600mm circular.					
Qty. vide TMB P. No. — (65)					
Item No. — (16) 2.0 Nos					
@ 3828.29/each					R 7656200
					Total Rd 12,66,00200

C.O.

Continuation

Sch. XLV-Form No. 134 B.P 12,66,002200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) 600mm x 450mm rectangular					
Qty. vide TMB. P.No. (65)					
Item No. (17) 2.0 Nos					
@ 3699.17/each				P,	7398200
(16) Boundary Pillar/Guard Post.					
Qty. vide TMB. P.No. (65)					
Item No. (18) 84 Nos					
@ 516.43/each				P,	43380200
(17) Planting of trees by the Road side					
in 0.60m dia holes.					
Qty. vide TMB. P.No. (65)					
Item No. (17) 40 Nos					
@ 800.30/each				P,	32012200
(18) Road marking with hot applied thermoplastic compound.					
Qty. vide TMB. P.No. (65)					
Item No. (21) 180m ²					
@ 735.40/m ²				P,	32372200
(19) providing and fitting logo of typical MMGSy Informatory Sign Board.					
Qty. vide TMB. P.No. (66)					
Item No. (22) 2.0 Nos					
@ 9486.20/each				P,	18972200
(20) Brick work in (123) in parapet.					
Qty. vide TMB. P.No. (66)					
Item No. (23) 20.16m ³					
@ 5266.93/m ³				P,	106181200
					Total Rs 216,06,317200

Continuation

Sch. XLV-Form No. 134 B.P 16,06,317200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(21) Plastering with cement mortar (1:4) on brick work in sub-structure.					
Qty. vide TMB.P. No. — (67)					
Item No. — (24)		141.12m ²			
@ 193.67/m ²					R 27330200
(22) Painting two coats including Primer — coat after filling the Joint.					
Qty. vide TMB.P. No. — (67)					
Item No. — (25)		409.92m ²			
@ 95.63/m ²					R 39200200
Total RS 216,72,847200					
Less for 2.117 below — (C) 352 97200					
					RS 216,37,550200
Add 11. Labour cost (4) = 16376200					

RS 216,53,887200
Add 12.1. G.S.T — (+) RS 1,98,466200
RS 218,52,353200

Shiv
15/02/21
S.E.

Skumar
15/02/21
MR

2A.0
22/1

2A
4/3/21

Sch. XLV-Form No. 134

Sch. XLV-Form No. 10					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
	Material-Statement				
① Earth:-	378	m ³			
@ 23.78	m ³	@		R ₁	898920
② Stone Metel	26.5 mm to 9.5 mm				
5.866	m ³	@ 550.83	m ³	R ₁	323120
Stone metel	9.5 mm to 2.36 mm				
4.19	m ³	@ 411.33	m ³	R ₁	172320
Local Sand	6.709	m ³	@ 116.85	R ₁	78320
③ Stone Metel	63 mm to 95 mm				
18.794	m ³	@ 427.69		R ₁	803020
Moosam (Grava) :-					
4.543	m ³	@ 345.82		R ₁	157020
④ Stone metel	53 mm to 22.9 mm				
28.663	m ³	@ 458.22	m ³	R ₁	1314320
Stone screening:-					
5.673	m ³	@ 345.52		R ₁	196020
⑤ Emulsion SS1 :-					
⑥ Emulsion RS11:-					
⑦ Bitumen Sg1:-					
⑧ Stone chips:-	9.5 mm to 4.75 mm				
70.34	m ³	@ 528.94		R ₁	3718620
Stone chips	7.75 mm below				
50.563	m ³	@ 200.45		R ₁	1013720
Filler:-	2.466	m ³	@ 355.38	R ₁	876820
West plastic	0.0507	MT			
⑨ Stone egg	13.2 mm to 0.09 mm				
9.016	m ³	@ 470	m ³	R ₁	423820
				R ₁ 299,	758200

Shiv
15/09/21
J.C

Continuation