

हमारी

MLR

Schedule XLV-Form No. 134

T03 से चीर

28 M.B.D
20-21

DIVISION

Forst - 3193464

1.26% Below

mul + - 771936

SUB-DIVISION

Total - 39,65394

15-02-21 to 14-11-2021

Measurement Book

A.6

श्री संदीप कुमार

M.B -

664
5-7-21

श्री निशिकांत उरा

प्रमाणित किया जाता है कि
इस मापक 25 664 8
का 100 परत है जो मार
प्रमाणित 703 से अधिक
मिले हुए है 3 संकेत
A.E. से 2034 कुल है
513/21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय
5/3/21

Sch. XLV-Form No. 134

DIVISION

SUB-DIVISION

Measurement Book

No. 664
5-221

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st mile & final

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).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Repair & maintenance of road from Top to Dhing					
Agency:- Sai ^{Nishikant} Nishikant Karmar					
At - Mahesh Nagar Road No 1A					
PO Keshari Nagar, PS Pataliputra					
Pctng - 24					
Agg. No. 28 MBD/2020-21					
Date of Commencement:- 13.2.21					
Date of Completion:- 14.2.22					
Date of measurement:- 6.12.21					
Record Entry					
1/ cleaning and brushing of road					
Lead					
$2 \times 29 \times 30.17 \times 1.50 = 2610.10 m^2$					
$2 \times 1 \times 8.17 \times 1.5 = 24.51$					
$2634.61 m^2$					
$= 2634 / 10000 Hec$					
$= 0.2634 Hec$					
Sery 0.2614 Hec					

Continuation

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x	7.10	1.30	0.120		1.0911
1x	5.50	1.65	0.100		0.9111
1x	8.10	1.50	0.120		1.4411
1x	3.50	1.75	0.110		0.67 0.42
1x	3.20	1.40	0.100		0.42
1x	5.20	1.55	0.150		1.16011
1x	2.5	1.65	0.140		0.5811
1x	7.50	1.45	0.120		1.3111
1x	5.50	1.65	0.130		1.1811
1x	6.50	1.40	0.100		0.9111
1x	4.20	1.50	0.150		0.9011
1x	5.20	1.45	0.120		0.8711
1x	6.20	1.60	0.100		0.9611
1x	3.50	1.70	0.150		0.8911

1x	7.20	1.20	0.120		1.0911
1x	4.20	1.55	0.130		0.8111
1x	6.50	1.30	0.120		1.0111
1x	6.20	1.65	0.100		0.9911
10x	3.50	1.50	0.120		6.3011
1x	8.20	1.75	0.110		1.5411
1x	4.50	1.45	0.100		0.6311
1x	7.20	1.55	0.150		1.6311
					58.3921m ³
Limit 53.413 m ³					64.57m ³

4. Ponding layer & gravel
and compacted WBOM (or)
As per Specification
2 direction of 0/1

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17	9.50	1.50	70.075		0.51 m ³
17	5.5	1.40	70.075		0.58 "
17	3.20	1.65	70.075		0.37 "
17	5.20	1.40	70.075		0.33 "
17	2.50	1.75	70.075		0.33 "
17	7.50	1.60	70.075		0.90 "
17	5.50	1.85	70.075		0.76 "
17	6.50	1.50	70.075		0.73 "
17	4.20	1.65	70.075		0.50 "
17	5.20	1.75	70.075		0.66 "
17	6.20	1.55	70.075		0.70 "
17	3.50	1.75	70.075		0.46 "
17	7.20	1.50	70.075		0.79 "
17	4.20	1.70	70.075		0.51 "
17	6.50	1.65	70.075		0.80 "
17	6.20	1.80	70.075		0.81 "
17	3.50	1.90	70.075		0.50 "
17	8.20	1.50	70.075		0.90 "
17	7.20	1.50	70.075		0.79 "
17	4.50	1.75	70.075		0.59 "
17	5.50	1.85	70.075		1.02 "
17	3.50	1.95	70.075		0.51 "
17	3.00	1.60	70.075		0.36 "
17	5.20	1.75	70.075		0.66 "
17	2.50	1.85	70.075		0.35 "
17	7.50	1.65	70.075		0.93 "
17	5.50	1.85	70.075		0.76 "
17	6.50	1.60	70.075		0.78 "
10	4.20	1.70	70.075		5.10 0.51 "
17	5.00	1.65	70.075		0.62 "
17	6.20	1.80	70.075		0.81 "
10	3.50	1.90	70.075		4.98 0.50 "
17	7.20	1.50	70.075		0.79 "
17	4.20	1.75	70.075		0.53 "
17	6.50	1.50	70.075		0.73 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x	6.4x	1.85	x	0.075 =	0.83 m ³
1x	3.50	x	1.70	x 0.075 =	0.45 m ³
1x	8.2x	x	1.95	x 0.075 =	1.17 "
1x	4.50	x	1.60	x 0.075 =	0.54 "
1x	7.2x	x	1.75	x 0.075 =	0.92 "
1x	3.52	x	1.40	x 0.075 =	0.37 "
1x	5.20	x	1.75	x 0.075 =	0.66 "
1x	5.5	x	1.85	x 0.075 =	0.76
					8 28.2 m³ 37.31 m ³

5. Pondip layout and
spreadip with
compaction 8mm mtl

203mm 6x8					
1x	4.5	x	1.60	x 0.075 =	0.54 m ³
1x	5.5	x	1.50	x 0.075 =	0.62 "
1x	3.20	x	1.75	x 0.075 =	0.39 "
1x	5.20	x	1.50	x 0.075 =	0.56 "
1x	2.50	x	1.85	x 0.075 =	0.35 "
1x	7.50	x	1.70	x 0.075 =	0.96 "
1x	5.50	x	1.95	x 0.075 =	0.80 "
1x	6.50	x	1.60	x 0.075 =	0.78 "
1x	4.20	x	1.75	x 0.075 =	0.53 "
1x	5.2x	x	1.85	x 0.075 =	0.69 "
1x	6.2x	x	1.65	x 0.075 =	0.74 "
1x	3.50	x	1.85	x 0.075 =	0.49 "
1x	7.2x	x	1.60	x 0.075 =	0.84 "

Continuation

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 4.00 x 1.80				$\times 0.075 =$	0.54 m ³
1x 6.50 x 1.75				$\times 0.075 =$	0.85 m ³
1x 6.00 x 1.90				$\times 0.075 =$	0.86 v
1x 3.50 x 2.00				$\times 0.075 =$	0.53 v
1x 8.00 x 1.60				$\times 0.075 =$	0.96 v
1x 4.50 x 1.85				$\times 0.075 =$	0.62 v
1x 7.00 x 1.60				$\times 0.075 =$	0.84 v
1x 5.50 x 1.95				$\times 0.075 =$	0.80 v
1x 8.00 x 1.80				$\times 0.075 =$	1.08 v
1x 3.50 x 2.05				$\times 0.075 =$	0.54 v
1x 3.00 x 1.70				$\times 0.075 =$	0.38 v
1x 5.00 x 1.85				$\times 0.075 =$	0.69 v
1x 2.50 x 1.95				$\times 0.075 =$	0.37 v
1x 7.50 x 1.75				$\times 0.075 =$	0.98 v
1x 5.50 x 1.95				$\times 0.075 =$	0.80 v
1x 6.50 x 1.70				$\times 0.075 =$	0.83 v
1x 4.00 x 1.80				$\times 0.075 =$	0.54 v
10x 6.00 x 1.75				$\times 0.075 =$	6.56 v 0.66 v
1x 6.00 x 1.90				$\times 0.075 =$	0.86 v
1x 3.50 x 2.00				$\times 0.075 =$	0.53 v
1x 7.00 x 1.60				$\times 0.075 =$	0.84 v
1x 4.00 x 1.85				$\times 0.075 =$	0.56 v
1x 6.50 x 1.60				$\times 0.075 =$	0.78 v
1x 6.00 x 1.95				$\times 0.075 =$	0.88 v
1x 3.50 x 1.80				$\times 0.075 =$	0.47 v
1x 8.00 x 2.05				$\times 0.075 =$	1.23 v
1x 4.50 x 1.70				$\times 0.075 =$	0.57 v
1x 7.00 x 1.85				$\times 0.075 =$	0.97 v
1x 3.50 x 1.50				$\times 0.075 =$	0.39 v
10x 5.00 x 1.85				$\times 0.075 =$	6.93 v 0.69 v

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 7.00 x 1.60 x 0.075 =					0.84 m ³
1x 5.50 x 1.95 x 0.075 =					0.80 m ³
1x 8.00 x 1.80 x 0.075 =					1.08 m ³
1x 3.50 x 2.05 x 0.075 =					0.54 m ³
1x 3.00 x 1.70 x 0.075 =					0.38 m ³
1x 5.00 x 1.95 x 0.075 =					0.37 m ³
1x 7.50 x 1.75 x 0.075 =					0.98 m ³
1x 5.00 x 1.85 x 0.075 =					0.69 m ³
					35.62
Gravel					47.76 m ³
					47.76 m ³

6. Construction of subgrade
 & earthen shoulder

For CC Road

$$2 \times 9 \times 30.00 \times 0.75 \times 0.3 = 124.50 \text{ m}^3$$

$$2 \times 1 \times 8.00 \times 0.75 \times 0.3 = 3.60 \text{ m}^3$$

For BT Road

$$2 \times 30.00 \times 1.1 \times 1.00 = 66.00 \text{ m}^3$$

$$2 \times 20.00 \times 1.1 \times 1.00 = 44.00 \text{ m}^3$$

$$2 \times 18 \times 30.00 \times 1.10 \times 0.450 = 534.60 \text{ m}^3$$

$$2 \times 17 \times 10.00 \times 1.10 \times 0.45 = 99.00 \text{ m}^3$$

779.60

m³

7. Providing 2 layers

Prime coat & open 8mm.

Area same as above

WBS No. 60/11 Continuation

item (5) P (7)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ice.		35.62			
		$\frac{35.62}{0.075} =$			474.93 m²
		$\frac{53.412}{0.075} =$			712.22 m ²

8. Principles laying and applying

Tack Coat for full area

Area of WB m² ①

Area of Prime Coat

As shown ④ P ⑧

$$\text{ice. Area} = \frac{474.93 \text{ m}^2}{712.22 \text{ m}^2}$$

9. Principles laying and
applying close graded

Base mix Surface for full area

Area = Area of Prime

Coat ex. rate No. ④ P ⑧

$$\frac{712.22 \text{ m}^2}{474.93 \text{ m}^2}$$

10. Principles laying and
applying Tack Coat
for SDBL

$$1 \times (30 \cdot W + 20 \cdot W) \times 3.75 = 187.50 \text{ m}^2$$

$$1 \times 18 \times 20 \cdot W \times 3.75 = 2025 \cdot W \text{ m}^2$$

$$1 \times 1 \times 10 \cdot W \times 3.75 = 37.50 \text{ m}^2$$

Extra widening

$$1 \times 12 \cdot W \times 0.75 = 9 \cdot W \text{ m}^2$$

$$1 \times 18 \cdot W \times 0.85 = 15.3 \text{ m}^2$$

Continuation

2274.30 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16. SIF/E equilateral Triangle					
Board 600 mm					
18 NR					
17. SIF/E Circular board					
600 mm					
09 NR					
18. SIF/E 600 mm x 450 mm					
Rectangular board					
40 NR					
10 NR					
19. SIF/E 900 mm octagonal					
Board					
8 NR					
01 NR					
20. SIF/E Boundary pillar					
22 NR					
23. Pencil and logrip assembled					
6 kg					
$5 \times 370.5 = 1852.5$					
24. Plan lip of trees					
09 NR					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16. S/P/R equilateral Triangle					
Board		600 mm			
		12 Nos			
17. S/P/R circular board					
600 mm					
		090 Nos			
18. S/P/R 600 mm x 50 mm					
Rectangular Board					
		10 Nos			
		10 Nos			
19. S/P/R 900 mm Octagonal Board					
		8 Nos			
		01 No			
20. S/P/R Boundary pillar					
		22 Nos			
23. Pencil and logrip assembled					
sticks					
		5 x 370.5 = 7.50 m ²			
24. Plan lip of trees					
		090 Nos			

Continuation

[illegible]

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>29</u> Pradip Brick Setp work					
on wall (1.4) in from					
$1.00 \times 0.90 + 0.4$				$1.85 = 1.203$	
		2			
for lap 1/5 = 88.00m				$= 1.203 \times 88m$	
				$= 105.820 m^3$	
<u>30</u> Pradip Pce m 20 in					
Coping					
$1.00 \times 0.4 \times 0.075 = 0.03 m^3$					
for lap 1/5 = 88.00m				$= 88 \times 0.03$	
				$= 2.64 m^3$	

<u>31</u> Pradip Wap holes					
1000ms					
					
<u>32</u> Pradip e/m (con 1/4)					
on wall					
$1.4 \times 0.4 = 0.4 m^2$					
$1.00 \times 1.20 = 1.20$					
				$1.60 m^2$	
for lap 1/5 = 88.00m				$= 1.60 \times 88.00$	
				$= 140.80 m^2$	
					
06.12.21					
SB					
				06.12.21	
				ME	

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Clearing and Grubbing of road land					
VTMP (1)					
0.26 Hect Cms 51101.124 Hect Rs 13286.00					
2. Scarifying the Existing Bituminous Surface					
VTMP (2)					
260.63 ^{m²} Cms 15.43/m ² Rs 4022.00					
3. Construction of Gravel Sub base Gr II					
VTMP (3)					
53.417 m ² Cms 1197.94/m ² Rs 63990.00					
4. Concrete Paving					
5. Spreading and Compacting Gravel Gr II					
VTMP (5)					
37.31 m ² Cms 2305.83/m ² Rs 86031.00					
5. Paving layer and					
6. Compacting Gravel Gr II					
VTMP (7)					
47.76 m ² Cms 1820.27/m ² Rs 86936.00					
Continuation					Rs 2,54,265.00

Sch. XLV-Form No. 134

BP No. 254265m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6 Prindip Construction					
3 of bulgrock 280kg					
VT 00 BP (7)					
779.60 m ² Cps 189.41/m ² as 147664.7					
7 Prindip and applying					
7 Paine Coat					
VT 00 BP (8)					
712.22 m ²					
Limit 646.27 m ²					
Cps 42.59/m ² as 27525.1					
8 Prindip Patch work					
using on s.s. as per 15					
VT 00 BP (8)					
712.22 m ²					
Limit 646.27 m ²					
Cps 171.057 m ² as 110544.4					
9 Prindip and applying					
9 Tack Coat					
VT 00 BP (8)					
712.22 m ²					
P (8)					
2274.30 m ²					
2986.52 m ²					
Limit 2918.77 m ²					
Cps 14.47/m ² as 42275.1					
14582233.10					

Continuation

Sch. XLV-Form No. 134

BFA 582233

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 Paved & layup SDBC					
10 with Compaction					
VTMP (9)					
56.81 m ² Cms		9704.18/m ²		708	551294.7
11 Construction of main					
11 forced reformation					
VTMP (9)					
105.30 m ² Cms		105.29 m ²			
Cms		5956.35/m ²		08	627144.7
12 SIPR ordinary km					
12 Stone Post					
VTMP (9)					
01 No Cms		2106.99	Each	18	2107.7
13 SIPR 2100 Stone Post					
13 VTMP (15)					
03 MS		590.63	Each	18	1772.7
14 SIPR Disinfectant place					
14 Board					
VTMP (9)					
1.92 m ² Cms		12232.93	Each	18	23487.7
15 SIPR Retroreflective					
15					

Continuation

MS 1788037.7

Sch. XLV-Form No. 134

SPAS 1788037

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
cautionary mandatory					
Board (600 mm square)					
VTMRP (10)					
18.10 NTS QRS 3562.87 Each					49880.7 46377.7 8
16 Perodip and fix					
16 reflectorized					
600 mm square board					
VTMRP (10)					
9 NTS QRS 3692.46 Each					29540.7 20940.7 8
17 SIP/P 600 x 600 mm					

Irregular board					
VTMRP (10)					
10.0 NTS QRS 3563.34 Each					35633.7 1.7 N
18 SIP/P informative					
18 sign board 900 mm square					
VTMRP (10)					
01 NO QRS 7536.14 Each					7556.7 1.7 N
19 SIP/P Boundary pillars					
19 VTMRP (10)					
22 NTS QRS 515.61 Each					11343.7 1.7 N
20 Plunkip & trees as per					
20 Continuation					192,989.7

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BP No 192,989.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
VTMP (10)					
30.00					7368.00
8.00	818.70	Each	10/10	8	6550.00
21 Road marking with					
22 hot applied thermos					
Plastic Compound Paint on BT surface					
VTMP (11)					
120.00 m ²	735	735.03/m ²	13	88,209.00	
22 Road marking with hot					
23 applied thermos compound					
plastic Paint on cedar.					
VTMP (11)					
55.60 m ²	826.65/m ²	13	45962.00		
23 SIFIR New maintenance					
24 Policy - 2018 Sign Board					
with life					
VTMP (11)					
0.20 m ²	9544.24	Each	13	19088.00	
24 E/W in excavation in					
25 fad 2					
VTMP (11) 20					
79.20 m ²	294.73	13	23343.00		
					13,05,136.00

Continuation

Sch. XLV-Form No. 134

BPM 215136 n

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
25 Pindip Pce m 15 m for					
26 V.M.P. (11)					
11.88 m ² @ Rs 4971.49 per m ²					59061.00
26 Pindip Pce m (1:1) m for					
27 V.M.P. (12)					
105.82 m ² @ Rs 5564.97/m ²					588885.00
27 Pindip Pce m 20 concrete					
28 in Coping over Pootchis					
404					
V.M.P. (12)					
2.64 m ² @ Rs 5867.48/m ²					15332.00
29 Pindip keep holes					
29 in Pontackin wall					
V.M.P. (12)					
100.00 m ² @ Rs 117.48/m ²					11748.00
29 Pindip CP m (1:1)					
30 on wall					
V.M.P. (12)					
140.80 m ² @ Rs 144.10/m ²					20289.00
					Rs 2800451.00
Add 1% labour Cms + Rs					2801269.00
Add 12% GST					336054.00
					Rs 3164516.00
Add 10% Seigniorate fee					
on Basic rate of					Rs 21062.00
materially					
Continuation					Rs 31,85,572.00
					3186496

Materials Statement

UP-To-Date

(i) Stone metal $26.5 \text{ mm} \times 9.5 \text{ mm} = 28.875 \text{ m}^3$

(ii) Stone chips $9.5 \text{ mm} \times 2.76 \text{ mm} = 17.09 \text{ m}^3$

(iii) Coarse sand $27.243 \text{ m}^3 + 47.39 \text{ m}^3 + 6.72 + 1.35 + 6.7 = 89.003 \text{ m}^3 + 30.53 = 119.533 \text{ m}^3$

(iv) Stone metal II $63 \text{ mm} \times 45 \text{ mm} = 45.15 \text{ m}^3$

(v) Stone screening Type I $9.70 \text{ m}^3 \times 13.573 = 23.073 \text{ m}^3$

(vi) Filling Material $0.75 \text{ m}^3 \times 2.50 \text{ m}^3 = 3.25 \text{ m}^3$

(vii) Stone metal Gravel $= 57.79 \text{ m}^3$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(vii) E/W (GUP) = 779.60 m ²					
(ix) Bituminous Gravel/Rt = 0.6054					0.55 MT
(x) Bituminous Gravel/Rt RS = 0.803 MT					1.23 T
(xi) Bituminous Gravel/Rt 10/15 = 3.531 MT					
(xii) + 6.555 MT					
= 7.785 MT					
(xiii) Stone chips 13.2 to 0.09 mm = 17.45 m ³					
(iv) Stone chips 9.5 mm to 4.75 mm = 47.723 m ³					
(xv) Stone chips 4.75 Below = 34.03 m ³					
(vi) clips 20 mm 56.86 + 3.76 + 1.08					61.70 m ³
					33.54 + 0.52
(xvi) Stone chips - 40 mm - 6.78 + 1.08					7.86 m ³
(xvii) Bit. res - 53000 NR					
05.8.22					
SE					

1st and final bill

B.F - 3146346

21

Memo

Sch. XLV-Form No. 134

251708 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Lx S. T ₄₈	—	—	31463	—	—
Lx L. loss	—	—	31463	—	—
Lx L. S. T	—	—	31463	—	—
Lx S. L. S. T	—	—	31463	—	—
Royalty	—	—	97056	—	—
B.F	—	—	21062	—	—
Payable	—	—	2650668	—	—

Total - 3146346 =

Passed for Rs - Thirty one Lakhs
Twenty six thousand three
hundred Twenty six only.

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्गु प्रमण्डल, लखीसराय

18-7-22