हमीरपुर

MIR-

25 M.B.D
20-21

Schedule XLV-Form No. 134

TO2 के आदेश पर

DIVISION

Const - 4165560=00
Maint - 1465679=00

SUB-DIVISION

Total - 5631239=00

15-2-21 to 14-11-21

Measurement Book

A.E.
के संतोष कुमार

M.B - 667
5-2-21

के निरीक्षण में

05.7.2021
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

5/7/21

Sch. XLV-Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 667
5-7-21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Name of Officer _____

_____

Date of first entry _____

Date of last entry _____

1st mark & final
Bill

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 Tar to Gravel					
Agency:- Sri Nishikant Kumar mahesh Nagar Road No 1A P.O-Keshari Nagar, PS Patali-putra Patna-24					
Agt. No. 2500/BID/2020-21					
Date of Commencement:- 15.2.21					
Date of Completion:- 14.2.22					
Date of measurement:- 10.12.21					
Record Entry					
1. Change and Length of Road					
	2	33+30.00	x 1.50	=	2970.00
	2	1+30.00	x 1.5	=	30.00
	2	21+30.00	x 1.5	=	1890.00
	2	1+6.00	x 1.5	=	18.00
					4908.00 m2
	=	4908/10000.00 Hect			
	=	0.4908 Hect			

Continuation
Say 0.49 Hect

Sch. XLV_Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Construction of granular sub base with Conc.					
	1	2.40	1.40	0.130	0.36 m³
	1	5.50	1.30	0.140	1.00 "
	1	3.40	1.55	0.100	0.47 "
	1	5.20	1.70	0.120	0.78 "
	1	2.50	1.65	0.100	0.41 "
	1	7.50	1.50	0.120	1.35 "
	1	5.50	1.75	0.110	1.06 "
	1	6.50	1.40	0.100	0.91 "
	1	7.5	1.5	0.150	1.74 "
	1	6.40	1.45	0.120	1.11 "
	1	5.5	1.65	0.130	1.18 "
	1	7.00	1.40	0.100	0.98 "
	1	4.00	1.50	0.150	0.90 "
	1	6.50	1.40	0.120	1.13 "
	1	6.00	1.60	0.100	0.96 "
	1	3.50	1.70	0.150	0.89 "
	1	8.00	1.30	0.120	1.25 "
	1	4.50	1.55	0.130	0.91 "
	1	7.00	1.30	0.120	1.09 "
	1	5.50	1.65	0.100	0.91 "
	1	8.00	1.50	0.120	1.44 "
	1	3.50	1.75	0.110	0.67 "
	1	3.00	1.40	0.100	0.42 "
	1	5.00	1.55	0.150	1.16 "
	1	2.50	1.65	0.140	0.58 "
	1	7.50	1.45	0.120	1.31 "
	1	5.50	1.65	0.130	1.18 "
	1	6.50	1.40	0.100	0.91 "
	1	7.50	1.50	0.150	1.69 "
	1	5.00	1.45	0.120	0.87 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	6.00	× 1.60	× 0.10	= 0.96 m³
	1	× 5.50	× 1.70	× 0.150	= 1.40 "
	1	× 5.50	× 1.70	× 0.150	= 1.40 "
	1	× 7.00	× 1.30	× 0.120	= 1.09 "
	1	× 4.00	× 1.55	× 0.130	= 0.81 "
	1	× 6.50	× 1.30	× 0.170	= 1.01 "
	1	× 6.00	× 1.65	× 0.100	= 0.99 "
	1	× 3.50	× 1.50	× 0.120	= 0.63 "
	1	× 8.00	× 1.75	× 0.11	0 = 1.54 "
	1	× 4.50	× 1.40	× 0.10	= 0.63 "
					39.22 m³
3. Providing laying and spreading with					
Compacting with 6mm					
	1	× 2.00	× 1.50	× 0.075	= 0.23 m³
	1	× 5.00	× 1.40	× 0.075	= 0.58 "
	1	× 3.00	× 1.65	× 0.075	= 0.37 "
	1	× 5.00	× 1.40	× 0.075	= 0.53 "
	1	× 2.50	× 1.75	× 0.075	= 0.33 "
	1	× 7.50	× 1.60	× 0.075	= 0.90 "
	1	× 5.50	× 1.85	× 0.075	= 0.76 "
	1	× 6.50	× 1.50	× 0.075	= 0.73 "
	1	× 7.50	× 1.65	× 0.075	= 0.66 "
	1	× 6.00	× 1.55	× 0.075	= 0.70 "
	1	× 5.50	× 1.75	× 0.075	= 0.72 "
	1	× 7.00	× 1.50	× 0.075	= 0.79 "

Sch. XLV_Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	4.50	1.70	0.075	0.51
	1	6.50	1.65	0.075	0.80
	1	4.90	1.80	0.075	0.81
	1	5.50	1.90	0.075	0.78
	1	4.80	1.50	0.075	0.90
	1	4.50	1.75	0.075	0.59
	1	4.70	1.50	0.075	0.79
	1	5.50	1.85	0.075	0.76
	1	4.80	1.70	0.075	1.02
	1	3.50	1.95	0.075	0.51
	1	3.60	1.90	0.075	0.36
	1	4.50	1.75	0.075	0.99
	1	2.50	1.85	0.075	0.35
	4	7.50	1.90	0.075	0.93
	1	5.50	1.85	0.075	0.76
	1	6.50	1.90	0.075	0.78
	1	5.50	1.90	0.075	0.78
	1	5.50	1.85	0.075	0.62
	1	4.90	1.85	0.075	0.81
	1	5.50	1.90	0.075	0.78
	1	4.70	1.50	0.075	0.79
	1	4.50	1.75	0.075	0.53
	1	6.50	1.50	0.075	0.73
	1	4.90	1.85	0.075	0.87
	1	4.80	1.95	0.075	1.17
	1	4.50	1.90	0.075	0.64
	1	3.50	1.90	0.075	0.37
	1	4.50	1.75	0.075	0.99
	1	4.70	1.90	0.075	0.98
	1	3.70	1.85	0.075	0.42
	1	2.70	1.50	0.075	0.23
	1	4.90	1.65	0.075	0.74
	1	4.70	1.75	0.075	0.92

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
	1 × 3.m ×	1.35	× 0.075 =		0.35 m³
	1 × 3.m ×	1.75	× 0.075 =		0.26 "
	1 × 8.m ×	1.50	× 0.075 =		0.90 "
	1 × 9.m ×	1.70	× 0.075 =		1.15 "
					33.91 m³
4. Providing laying spreading and compacting 65 mm 6 mm					
	1 × 2.m ×	1.60	× 0.075 =		0.24 m³
	1 × 5.5 ×	1.50	× 0.075 =		0.62 m³
	1 × 3.m ×	1.75	× 0.075 =		0.39 m³
	1 × 5.m ×	1.50	× 0.075 =		0.56 "
	1 × 2.50 ×	1.85	× 0.075 =		0.35 "
	1 × 5.50 ×	1.70	× 0.075 =		0.96 "
	1 × 5.50 ×	1.95	× 0.075 =		0.80 "
	1 × 6.50 ×	1.60	× 0.075 =		0.78 "
	1 × 7.50 ×	1.75	× 0.075 =		0.98 "
	1 × 5.m ×	1.85	× 0.075 =		0.69 "
	1 × 6.m ×	1.65	× 0.075 =		0.74 "
	1 × 5.50 ×	1.85	× 0.075 =		0.76 "
	1 × 7.50 ×	1.60	× 0.075 =		0.84 "
	1 × 4.m ×	1.80	× 0.075 =		0.54 "
	1 × 6.50 ×	1.750	× 0.075 =		0.85 "
	1 × 6.m ×	1.90	× 0.075 =		0.86 "
	1 × 3.50 ×	2.m	× 0.075 =		0.53 "
	1 × 8.m ×	1.60	× 0.075 =		0.96 "
	1 × 4.50 ×	1.85	× 0.075 =		0.62 "
	1 × 7.m ×	1.60	× 0.075 =		0.84 "

Sch. XLV_Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	1	5.50	1.95	0.075	0.80 m³
	1	8.00	1.80	0.075	1.08 m³
	1	3.50	2.05	0.075	0.54 "
	1	3.00	1.70	0.075	0.38 "
	1	5.00	1.85	0.075	0.69 "
	1	2.50	1.95	0.075	0.37 "
	1	7.50	1.75	0.075	0.98 "
	1	5.50	1.95	0.075	0.80 "
	1	6.50	1.70	0.075	0.83 "
	1	7.50	1.80	0.075	1.01 "
	1	5.00	1.75	0.075	0.66 "
	1	6.00	1.90	0.075	0.86 "
	1	5.50	2.00	0.075	0.83 "
	1	7.00	1.60	0.075	0.84 "
	1	4.00	1.85	0.075	0.56 "
	1	6.50	1.60	0.075	0.78 "
	1	6.00	1.95	0.075	0.85 "
	1	3.50	1.80	0.075	0.47 "
	1	8.00	2.05	0.075	1.23 "
	1	4.50	1.70	0.075	0.57 "
	1	3.50	1.50	0.075	0.39 "
	1	5.00	1.85	0.075	0.69 "
	1	4.00	1.70	0.075	0.51 "
	1	3.00	1.95	0.075	0.44 "
	1	2.00	1.60	0.075	0.24 "
	1	6.00	1.75	0.075	0.79 "
	1	7.00	1.85	0.075	0.97 "
	1	3.00	1.65	0.075	0.37 "
	1	2.40	1.85	0.075	0.33 "
	1	8	1.60	0.075	0.96 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	7.00	1.60	0.075 =	0.84 m³
	1	5.50	1.95	0.075 =	0.80 "
	1	8.00	1.80	0.075 =	1.08 "
	1	3.50	2.05	0.075 =	0.54 "
	1	3.00	1.70	0.075 =	0.38 "
	1	5.00	1.85	0.075 =	0.69 "
	1	2.50	1.95	0.075 =	0.37 "
	1	7.50	1.75	0.075 =	0.98 "
	1	5.50	1.95	0.075 =	0.80 "
	1	6.50	1.70	0.075 =	0.83 "
	1	7.50	1.80	0.075 =	1.01 "
	1	5.00	1.75	0.075 =	0.66 "
	1	6.00	1.90	0.075 =	0.86 "
	1	5.50	2.00	0.075 =	0.83
	1	7.00	1.60	0.075 =	0.89 "
	1	4.00	1.85	0.075 =	0.56 "
	1	6.50	1.60	0.075 =	0.78 "
	1	3.50	1.80	0.075 =	0.47 "
	1	8.00	2.05	0.075 =	1.23 "
	1	4.50	1.70	0.075 =	0.57 "
	1	7.00	1.85	0.075 =	0.97 "
	1	5.50	1.95	0.075 =	0.80 "
	1	8.00	1.75	0.075 =	1.05 "
	1	3.50	1.95	0.075 =	0.51 "
	1	3.00	1.70	0.075 =	0.68 "
	1	2.50	1.75	0.075 =	0.33 "
	1	2.00	1.90	0.075 =	0.29 "
	1	5.50	2.00	0.075 =	0.83 "
	1	6.50	1.60	0.075 =	0.78 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1 × 3.50	× 1.50	× 0.075	=	0.39 m³
	1 × 5.m	× 1.85	× 0.075	=	0.69 "
	1 × 4.m	× 1.70	× 0.075	=	0.51 "
	1 × 3.m	× 1.95	× 0.075	=	0.44 "
	1 × 2.m	× 1.60	× 0.075	=	0.24 "
	1 × 6.m	× 1.75	× 0.075	=	0.79 "
	1 × 7.m	× 1.85	× 0.075	=	0.97 "
	1 × 3.m	× 1.65	× 0.075	=	0.37 "
	1 × 2.m	× 1.85	× 0.075	=	0.28 "
	1 × 8.m	× 1.60	× 0.075	=	0.96 "
	1 × 9.m	× 1.80	× 0.075	=	1.22 "
	1 × 7.m	× 1.60	× 0.075	=	0.84 "
	1 × 5.50	× 1.95	× 0.075	=	0.80 "
	1 × 8.m	× 1.80	× 0.075	=	1.08 "
	1 × 3.50	× 1.70	× 0.075	=	0.54 "
	1 × 3.m	× 1.70	× 0.075	=	0.38 "
	1 × 5.m	× 1.85	× 0.075	=	0.69 "
	1 × 2.50	× 1.95	× 0.075	=	0.37 "
	1 × 7.50	× 1.75	× 0.075	=	0.98 "
					71.10 m³
5 Providing Construction of Subgrade & Earthen Shoulder					
	2 × 10 × 30.m	× 0.75	× 0.30	=	135.m³
	2 × 33 × 30.m	× 1.10	× 0.450	=	980.10
	2 × 1 × 10.m	× 1.1	× 0.450	=	9.90 m³
	2 × 11 × 30.m	× 1.1	× 0.450	=	326.70
	2 × 1 × 6.m	× 1.1	× 0.450	=	5.94 m³
					1457.64 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
6. Providing Construction of unreinforced cement concrete M30					
	1	10	30.00	3.75	0.16 = 180.00 m³
Extra width	1	4.00	0.60	0.16	= 0.384 m³
	2	6.00	0.70	0.16	= 1.344 m³
					181.728 m³
7. Providing and applying Primer Coat Area = Area of WBM Grout item No (4) P No (8)		71.10 / 0.075			= 948.00 m²
8. Providing and applying Tack Coat for Patch work on Area of WBM as vide Item No (7) P-(9)					
		i.e. 948.00 m²			
9. Providing Patch Work over WBM surface					
Area same as item No (7) P (9)					
		948.00 m²			

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10 Providing and applying Tack Coat for SDBC					
	1	337.00		3.75 =	3712.50 m²
	1	10.00		3.75 =	37.50 m²
	1	330.00		3.75 =	1237.50 m²
	1	6.00		3.75 =	22.50 m²
Extra widths					
	3712.00		0.75 =		27.00 m²
	2	10.0	0.70 =		14.00
	1	15.00	0.60 =		9.00
					5060.00
11. Providing and laying Semi dense Bituminous Concrete with roller and Compaction					
Area same as in SI. No. (10) P (10)					
i.e.	5060.00		0.025 =		126.50 m³
				Say =	126.50 m³
12. SF/F ordinary km Stone P182 – 02 Nos					

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13. S/F/F 200 mm Stone Kerb					
	06 Nos				
13. S/F/F 600 mm equi lateral Triangular Board					
	15 Nos				
14 S/F/F 600 mm circular Board					
	08 Nos				
15 S/F/F 600 mm x 450 mm rectangular Board					
	12 Nos				
16. S/F/F 900 mm octagonal Board					
	01 No				
17. S/F/F Boundary pillar					
	45 Nos				
18. Road marking with thermo compound plastic paint					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
BT Portion					
2	(44×30+16)			×0.100 =	267.20 m²
CC Portion	2	10×30.00		×0.12 =	60.00 m²
19. SIPIF New maintenance Policy-2018, Board with Logo	02 Nos				
20. SIPIF Direction & plate Board	2	1.2	0.8	=	1.92 m²
21. Providing 100 A RCC (1:3) enclosure	2 Nos×2	6.00	1.4	×0.6 =	5.76 m³
22. Providing CP in col (14) centrally	2	4	6.00	×0.6 =	28.80 m²
	2	2	6.00	×0.4 =	9.60 m²
	2	4	0.4	×0.6 =	1.92 m²
					40.32 m²
23 Painting two Coats	2	4	6.00	×0.6 =	28.80 m²
	2	2	6.00	×0.4 =	9.60 m²
	2	4	0.4	×0.6 =	1.92 m²
					40.32 m²
24. Planting of Trees	22 Nos				

Continuation

10.12.21
SE

10/12/21
AE

ABSTRACT OF COST

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1/1 Clearing and Grubbing of Road Land with mm ①					
0.49 Hect @ Rs 51101.12/Hect					Rs 25040.-
2/3 Providing Construction of Granular Sub base Coat with mm ③					
39.77 m³ @ Rs 1207.13/m³					Rs 48008.- 4808.-
3/4 Providing laying and compacting wet mix Coat with mm ⑤					
33.91 m³ @ Rs 2315.20/m³					Rs 78508.-
4/5 Providing laying and spreading wet mix Coat with mm ⑧					
71.10 m³ @ Rs 1837.63/m³					Rs 130655.-
5/6 2 Construction of Sub-grade & Earthen shoulders with mm ⑧					
1457.64 m³ @ Rs 189.41/m³					Rs 276092.-
6/6 Providing and laying					

Rs 558305.-

Continuation

Sch. XLV-Form No. 134 BPM 558303

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
applying Primer Coat					
vtm no P ⑨					
948.00 m² @ Rs 42.64/m² = Rs 40423.36					
7 Providing laying & Compacting MSS for Patch work					
vtm no P ⑨					
948.00 m² @ Rs 170.51/m² = Rs 161643.48					
8 Providing and applying Tack Coat					
vtm no SP ⑨	948.00 m²				
P ⑩	5060.00 m²				
	6008.00 m²				
@ Rs 14.49/m² = Rs 87056.52					
9 Providing laying and Compacting SDBC					
vtm no SP ⑩					
126.50 m³ @ Rs 9676.77/m³ = Rs 1224111.41					
10 Construction of Unpaved forced c/c Pavement					
no 0					
vtm no P ⑨					
181.728 m³ @ Rs 5930.16/m³ = Rs 1077676.80					
11 S/F/R km Stone post					

Continuation Rs 31,49,212.00

Sch. XLV-Form No. 134 APAS 3149/12.m

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
VTM/SP (10)					
02 Nos Qty	2	100.71	Each	M	4201.00
12/12 SI/P/12 200 m Stone Pots VTM/SP (11)					
06 Nos	Qty	589.49	Each	RS	3537.00
13/13 SI/P/F Direction Place Board VTM/SP (12)					
1.92 m²	Qty	12229.03	/m²	RS	23480.00
14/14 SI/P/12 600 mm dia Wood Board VTM/SP (11)					
15 Nos	Qty	3559.34	Each	RS	53399.00
15/15 SI/P/12 600 mm Circular Board VTM/SP (11)					
08 Nos	Qty	3689.57	Each	RS	29516.00
16/16 SI/P/F 600 mm x 450 mm Rectangular Board					
12 Nos	Qty	3560.41	Each	RS	42725.00
17/17 SI/P/12 900 mm octagonal Board					

Continuation

RS 33,06,070.00

Sch. XLV-Form No. 134 Rs 330607.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
VTM no P - (11)					
01 No @ Rs 7553.00 Each					Rs 7553.00
18 S/P/P Boundary pillar VTM no B P (11)					
45 Nos @ Rs 515.09 Each					Rs 23179.00
19/21 Road marking with Hot applied thermo Compound Paint BT Surface (12)					
267.20 m² @ Rs 735.03/m²					Rs 196400.00
20/22 Road marking with Hot applied thermo Compound Paint CC Surface VTM no P (12)					
60.00 m² @ Rs 826.65/m²					Rs 49599.00
21/23 S/P/P New maintenance Policy Board - 2018					
02 Nos @ Rs 9538.38 Each					Rs 19077.00
22/25 Providing R/W (1:3) in Pavement VTM no P (12)					
5.76 m³ @ Rs 5768.17/m³					Rs 33225.00

Continuation Rs 3635703.00

Sch. XLV-Form No. 134

BR Rs 3635/03

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
23/24 Providing CP in cm (1:4) on wall					
VT MMP – (12)					
40.32 m2 @ Rs 143.97/m2				Rs	5805.00
24/26 Providing two coats painting on walls					
VT MMP (12)					
40.32 m2 @ Rs 98.03/m2				Rs	3953.00
25/20 Planting of Trees					
VT MMP (12)					
65/22 Nos @ Rs 818.70 each				Rs	15965.00 / 18011.00
				Rs	3662872. / 3660826
Add 1% labour cess				+ Rs	36629.00 / 36608
Add 12% GST				+ Rs	439545.00 / 439299
Add seigniorage 10% on					
Basic cost		33424.00		+ Rs	37038.00
Limited for BOQ				Rs	41,76084.
		4172470.00 / 4170484			4170157
Less for Below 1.26%				Rs	52619.00 / 52544
		52573.00		Rs	4123465.00
		4119897.00			4117613

06.6.22
SE

Sd/- 06/06/22
AE

Continuation CLP

P.T.O.

6.6.22

Sch. XLV Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Materials Statement					
(1) Earth (Ref 1)					1053.64 m³
(2) Stone metal 26.5 to 9.5 mm					= 17.78 m³
(3) Stone chips 9.5 mm to 2.36 mm					= 12.73 m³
(4) Coconut					20.28 m³
(5) Stone metal 63 mm to 45 mm					= 41.03 m³
(6) Stone screening					= 26.11 m³
(7) Moorum					= 2.71 m³
(8) Stone metal 53 mm to 22.4 mm					= 86.03 m³
(9) Agg. 13.20 mm					= 25.60 m³
(10) Agg 9.5 mm to 4.75 mm					= 105.38 m³
(11) Agg. 2.5 mm to 10 mm					= 0.00
(12) Agg 4.75 Below					= 75.80 m³
(14) Agg - 40 mm					= 3.61 m³
(15) Agg - 20 mm					1.80 m³
(16) Agg. 10 mm					= 0.83 m³
Stone Spalls -					= 10.08 m³
(17) Coarse Sand					= 92.48 m³
(18) Crushed Stone Agg					= 163.62
(19) Brick Ag					2880 Nos
(20) Bitumen Emulsion SS1					= 0.806 MT

06.05.22 JE

Continuation

(21) Bitumen Emulsion RS1 1.6522 MT

(22) Bitumen S90 for 10/VG30 = 1.8012 MT

+ 14.5962 MT = 16.3974 MT

6.5.22 JE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area

1st and Final bill

B.F – 4117613.

Memo.

8% S.D –	329409 =
1% S. Tax –	41176 =
1% L-Cess –	41176 =
1% C.G.S.T –	41176 =
1% S.G.S.T –	41176 =
Royalty –	1472884 =
S/F –	33424 =
Payable Rs –	34422792 =
Total –	4117613 =

Rupees Forty one Lakh Seventeen thousand six hundred thirteen Only.

18.8.22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Continuation

18-8-22