MIR/Lakhisarai - 02

Schedule XLV-Form No. 134

TOY आलुई नया टोला से रामाकोला पथ

Approv. No - 18 M.B.D / 20-21

Cost - 3387573.00

Main + 1487496.00

______________________ DIVISION

Total:- 4,87,5069.00

______________________ SUB-DIVISION

धानाा

M.B - 597 / 19-8-20

श्री गणेश सार्ड कंस्ट्र०-

MEASUREMENT BOOK

A.E श्री संदीप कुमार

प्रमाणित किया जाता है कि इस मापीपुस्त सं० 597 में कुल 100 पन्ने हैं जो MIR योजनान्तर्गत T04 मालुई नया नौला से रामपुरकोला पथ निर्माण कार्य हेतु संबंधित A.E श्री संदीप कुमार के नाम निर्गत किया जाता है।

19.8.2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय
19.8.20

Sch. XLV—Form No. 134

______________________ DIVISION

______________________ SUB-DIVISION

Measurement Book

No. 597

19.8.20

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Name of Officer ______________________

____

Date of first entry ______________________

Date of last entry ______________________

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 Tea Bhalwi Naye Tole to Ramal Bigha					
Agency:- Ganesh Sai Contractor & Construction Pvt LTD					
Agg. No. 18 MBD/2020-21					
Date of Commencement					5/8/20
Date of Completion:-					4/8/21
Actual Date of Completion:-					21.5.21

Record Entry

1. Clearing & Grubbing of road

2	× 33	× 30.00	× 1.00	=	1980.00 m2
2	× 1	× 10.00	× 1.00	=	20.00
2	× 25	× 30.00	× 1.00	=	1500.00
					3500.00 m2

$= \frac{3500.00}{10000}$

$= 0.35$ Hect

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2- Concreting for foundation base Coo-I					
	1	7.00	1.60	0.100	= 1.12 m³
	1	6.00	1.10	0.120	= 0.79 m³
	1	5.00	1.20	0.130	= 0.78 m³
	1	8.00	1.00	0.100	= 0.80 m³
	1	9.00	0.80	0.120	= 0.86 m³
	1	7.00	0.70	0.100	= 0.49 m³
	1	8.00	0.90	0.120	= 0.86 m³
	1	7.00	1.00	0.130	= 0.91 m³
	1	6.00	1.10	0.150	= 0.99 m³
	1	7.00	1.70	0.150	= 1.79 m³
	1	5.00	1.70	0.150	= 1.28 m³
	1	4.00	1.40	0.150	= 0.84 m³
	1	6.00	2.00	0.150	= 1.80 m³
	1	5.00	1.20	0.150	= 0.90 "
	1	6.00	1.60	0.150	= 1.44 "
	1	8.00	1.90	0.150	= 2.28 "
	1	4.00	2.10	0.150	= 1.26 "
	1	7.00	1.90	0.150	= 2.00 "
	1	5.00	1.80	0.150	= 1.35 "
	1	8.00	1.40	0.150	= 1.68 "
	1	6.00	1.60	0.150	= 1.44 "
	1	5.00	1.70	0.150	= 1.28 "
	1	6.00	2.10	0.150	= 1.89 "
Continuation	1	5.00	1.90	0.150	= 1.43 "
					30.25 m³

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3. Providing WBM 6 cm in pots of road					
	1	7.00	1.70	0.075	0.89 m³
	1	6.00	1.20	0.075	0.54 m³
	1	5.00	1.70	0.075	0.49 m³
	1	8.00	1.10	0.075	0.66 m³
	1	9.00	0.90	0.075	0.61 m³
	1	7.00	0.80	0.075	0.42 m³
	1	8.00	1.10	0.075	0.60 m³
	1	7.00	1.10	0.075	0.53 m³
	1	6.00	1.20	0.075	0.54 m³
	1	7.00	1.80	0.075	0.95 m³
	1	5.00	1.80	0.075	0.68 "
	1	4.00	1.50	0.075	0.45 "
	1	6.00	2.10	0.075	0.95 "
	1	5.00	1.30	0.075	0.49 "
	1	6.00	1.70	0.075	0.77 "
	1	8.00	2.00	0.075	1.20 "
	1	4.20	2.20	0.075	0.66 "
	1	7.00	2.00	0.075	1.06 "
	1	5.00	1.90	0.075	0.71 "
	1	8.00	1.50	0.075	0.90 "
	1	6.00	1.70	0.075	0.77
	1	5.00	1.80	0.075	0.63
	1	6.00	2.20	0.075	0.99
	1	5.00	2.00	0.075	0.75
	1	7.00	1.70	0.075	0.89

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	6.00	1.80	0.075	0.81 m³
	1	4.00	1.90	0.075	0.57 m³
	1	6.00	1.90	0.075	0.86 "
	1	7.00	2.00	0.075	1.05 "
	1	6.00	1.60	0.075	0.72 "
	1	11.00	1.80	0.075	1.49 m³
	1	9.00	1.70	0.075	1.15 m³
	1	6.00	1.50	0.075	0.68 m³
	1	7.00	2.10	0.075	1.10 m³
	1	8.00	2.00	0.075	1.20 "
	1	11.00	1.80	0.075	1.49 "
	1	9.00	1.70	0.075	1.15 "
	1	8.00	1.95	0.075	1.17 "
	1	11.00	2.00	0.075	1.65 "
	1	9.00	1.80	0.075	1.22 "
	1	7.00	1.20	0.075	0.63 "
	1	8.00	1.40	0.075	0.84 "
					35.94 m³
3. From dip laying and Spreading WBM 60 mm with Compaction					
	1	7.00	1.80	0.075	= 0.95 m³
	1	6.00	1.30	0.075	= 0.59 m³
	1	5.00	1.40	0.075	= 0.53 m³
	1	8.00	1.20	0.075	= 0.72 m³
	1	9.00	1.00	0.075	= 0.68 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	× 7.00	× 0.90	× 0.075 =	0.470 m³
	1	× 8.00	× 1.10	× 0.075 =	0.66 m³
	1	× 7.00	× 1.20	× 0.075 =	0.63 m³
	1	× 6.00	× 1.30	× 0.075 =	0.59 m³
	1	× 7.00	× 1.90	× 0.075 =	1.00 m³
	1	× 5.00	× 1.90	× 0.075 =	0.71 m³
	1	× 4.00	× 1.60	× 0.075 =	0.48 m³
	1	× 6.00	× 2.20	× 0.075 =	0.99 m³
	1	× 5.00	× 1.40	× 0.075 =	0.53 m³
	1	× 6.00	× 1.80	× 0.075 =	0.81 m³
	1	× 8.00	× 2.10	× 0.075 =	1.26 m³
	1	× 4.00	× 2.30	× 0.075 =	0.69 m³
	1	× 7.00	× 2.10	× 0.075 =	1.10 m³
	1	× 5.00	× 2.00	× 0.075 =	0.75 m³
	1	× 8.00	× 1.60	× 0.075 =	0.96 m³
	1	× 6.00	× 1.80	× 0.075 =	0.81 m³
	1	× 5.00	× 1.90	× 0.075 =	0.71 m³
	1	× 6.00	× 2.30	× 0.075 =	1.04 m³
	1	× 5.00	× 2.10	× 0.075 =	0.79 m³
	1	× 7.00	× 1.80	× 0.075 =	0.95 m³
	1	× 6.00	× 1.90	× 0.075 =	0.86 m³
	1	× 4.00	× 2.00	× 0.075 =	0.60 m³
	1	× 6.00	× 2.00	× 0.075 =	0.90 m³
	1	× 7.00	× 2.10	× 0.075 =	1.10 m³
	1	× 6.00	× 1.70	× 0.075 =	0.77 m³
	1	× 11.00	× 1.90	× 0.075 =	1.57 m³
	1	× 9.00	× 1.80	× 0.075 =	1.22 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1×	6.00	× 1.60	× 0.075 =	0.72 m³
	1×	7.00	× 2.20	× 0.075 =	1.16 "
	1×	8.00	× 2.10	× 0.075 =	1.26 m³
	1×	11.00	× 1.90	× 0.075 =	1.57 m³
	1×	9.00	× 1.80	× 0.075 =	1.22 "
	1×	8.00	× 2.05	× 0.075 =	1.23 "
	1×	11.00	× 2.10	× 0.075 =	1.73 "
	1×	9.00	× 1.90	× 0.075 =	1.28 "
	1×	7.00	× 1.30	× 0.075 =	0.68 "
	1×	8.00	× 1.50	× 0.075 =	0.90 "
	1×	10.00	× 1.50	× 0.075 =	1.13 "
	1×	11.00	× 1.80	× 0.075 =	1.49 "
	1×	9.00	× 1.70	× 0.075 =	1.15 "
	1×	12.00	× 1.80	× 0.075 =	1.62 "
	1×	10.00	× 1.90	× 0.075 =	1.43 "
	1×	11.00	× 2.00	× 0.075 =	1.65 "
	1×	12.00	× 2.20	× 0.075 =	1.98 "
	1×	10.00	× 1.70	× 0.075 =	1.28 "
	1×	13.00	× 1.60	× 0.075 =	1.56 "
	1×	11.00	× 1.50	× 0.075 =	1.24 "
	1×	10.00	× 1.90	× 0.075 =	1.43 "
	1×	13.00	× 2.20	× 0.075 =	2.15 "
	1×	14.00	× 2.00	0.075 =	2.10 "
					58.29 m³
	11	15.21			
4. Providing and applying Prime Coat with SS1					

Continuation

Sch. XLV—Form No. 134

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

Area = Area of WBM (Gr III)

TMBP (6)

i.e. $\frac{58.29}{0.075} = 777.20 m^2$

5. Patch work using MSS for Bituminous surface

Area = Area of Prime Coat

TMBP (7) i.e.

777.20 m2

6. Providing and applying Tack Coat with Bitumen emulsion RS,

Area of MSS = 777.20 m2

33×30.00×3.75 = 3712.50 m2

1×10.00×3.75 = 37.50 m2

25×30.00×3.75 = 2812.50 m2

Extra widenings

$2 \times 22.5 \times \left(\frac{5.05+3.75}{2} - 3.75\right) = 29.25$

$2 \times 25 m \left(\frac{5.05+3.75}{2} - 3.75\right) = 37.50 m^2$

7406.45

Limit 7405.37 m2

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7. Providing DBC as per specification					
33 x 30.00 x 3.75 x 0.025 =					92.81 m^3
1 x 10.00 x 3.75 x 0.025 =					0.94 m^3
25 x 30.00 x 3.75 x 0.025 =					70.31
Extra widening					
2 x 22.50 x ((5.05 + 3.75)/2 − 3.75) x 0.025 =					0.730
2 x 25.00 x ((5.25 + 3.75)/2 − 3.75) x 0.025 =					0.94 m^3
					165.73 m^3
Unit 165.70 m^3					
18/5/21					
8. S/F/F ordinary km stone post					
02					
9. S/P/F 200m stone post					
08 Nos					
10. S/P/F direction & place identification board					
2 x 1.2 x 0.8 =					1.92 m^2

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11. SIP/I2 retro Reflectorised Traffic Sign Board					
(i) 600 mm equilateral Trapular Board	13 Nos				
(ii) 600 mm circular Board	07 Nos				
(iii) 600 mm × 450 mm Board	03 Nos				
	9				
(iv) 900 mm octagonal Board	02 Nos				
12. SIP/I Boundary pillar	30 Nos				
13. Placing of Trees	06 Nos				
14. Road marking with Thermoplastic Compound Paint					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2×33×30.00×0.1					=198.00m2
1×10 ×0.1 =					2.00
2×25×30.00×0.12					150.00
					350.00m2
15. SIMP Logo Board with information Board citizen information Board, Maintainance Board					
		01			
		01			
		01			
		03 Nos			
16. Providing 100 ABBW in (1:3) in Parapet					
2×6.00×0.40×0.6 =					2.88m3
17. Providing CP in cm(1:4) on walls					
Side face 4×6.00×.6 =					14.40m2
2×6.00×0.4 =					4.80m2
4×.4×0.6 =					0.96m2
					20.16m2

Continuation

P.T.O

Sch. XLV—Form No. 134

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

18. Painting two coats on new surface

4 × 4.07 × 0.6 = 9.60 m2

2 × 4.00 × 6.0 = 48.00 m2

4 × .4 × 0.6 = 0.96 m2

58.56 m2

HPC 1000 mm Ø

1) E/W in excavation in foundation

H.W. 2 × 6.45 × 1.4 × 1.5 = 27.090 m3

Below pipe 1 × 4.85 × 1.53 × 0.365 = 2.708 m3

29.798 m3

2. Providing PCC M15 in foundation

2 × 6.45 × 1.40 × 0.15 = 2.709 m3

1 × 4.931 × 1.53 × 0.250 = 1.886 m3

Less for pipe 5.496 × 0.7857 × 1.23² × .21

= − 1.633

2.962 m3

3. Providing 100 A BBM (1:4) in footing & basement

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
H.W.	2	6.15	$\frac{1.25+0.4}{2}$	2.58	$= 26.180\ m^3$
Parapet	2	6.15	0.400	0.600	$= 2.952\ m^3$
less for pipe	2	0.7857	1.23^2	0.612	$= -1.478$
					$27.654\ m^3$

4 SIFIF ΔP3 HP 100mm ϕ

$3 \times 2.5 = 7.50$ m

6. Plaster Arch (ml wise)

	2	6.15	3.78	$= 46.494\ m^2$
	2	6.15	0.600	$= 7.38\ m^2$
Top	2	6.15	0.400	$= 4.920\ m^2$
Gnd.	4	0.825	2.58	$= 8.514\ m^2$
	4	0.400	0.600	$= 0.960\ m^2$
less	2	7.7857	1.23^2	$= -2.377\ m^2$
				$65.890\ m^2$

19.5.21
JE

Continuation

P.T.O.

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
DISTRACT OF COST					
1 Clearing and Grubbing the road land using					
0.35 Hect @ Rs 4964.05 (49986.05)/Hect Rs 1737.2					
2.					
Providing Construction of subgrade & Earthen shoulders					
2×33×30.00×1.00×0.3 = 594.00 (~~198.00~~)					
2×1×10.00×1.00×0.3 = 6.00 (~~2.00~~)					
2×25×30.00×1.00×0.3 = 450.00					
Rs 1050.00 m3					
21.9.21 JE					
28/06/2022 AE					

Continuation

P.T.O.

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
ABSTRACT OF COST					
1/1 Clearing and Grubbing of road Land					
Vide ①					
0.35 Hect @ Rs 49464.05/Hect Rs 17312/-					
2. 3 Providing Construction of granular Sub base Coat I					
Vide ②					
30.25 m³ @ Rs 1486.78/m³ Rs 44975/-					
3/4 Providing laying, spreading and Compacting WBM Coat II					
Vide ④					
35.94 m³ @ Rs 2670.14/m³ Rs 95965/-					
4/5 Providing laying spreading and Compacting WBM Coat II					
Vide ⑥					
58.29 m³ @ Rs 2304.05/m³ Rs 134303/-					
Continuation					Rs 2,92,555/-

Sch. XLV—Form No. 134 BPAS 292555

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6/6 Providing and applying Prime coat on SS,					
VTMBP (7)					
777.20 m2 @ Rs 41.75/m2 Rs 32448.00					
6/7 Tack coat over WBM/ WMM SS					
VTMBP (7)					
777.2 m2 @ Rs 193.30/m2 Rs 150233.00					
7/8 Providing and applying Tack coat on ...					
VTMBP (7)					
7405.33 m2 @ Rs 14.28/m2 Rs 1,05,748.00					
8/9 Providing laying and Compacting SDBC					
VTMBP (8)					
165.73 m3 @					
Limit 165.70 m2 @ 9599.01/m3 1573492.00					
9/10 S/F/F Km Stone Post VTMBP (8)					
02 Nos @ Rs 1985.49 Each Rs 3971.00					
10/11 S/F/F 200 m Stone Post					

Continuation

Rs 2158447.00

Sch. XLV—Form No. 134

BF Rs 2158477.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
VTm BP (8)					
08 Nos	Cft 575.19	Each Rs 4602.00			
10 SIP/F Diameter					
12 place Board					
VTm BP (8)					
1.92 m²	Cft 12539.70	Each Rs 24076.00			
12 SIP/F 600 mm equilateral					
13 Board					
VTm BP (9)					
13 Nos	Cft 3539.80	Each Rs 45952.00			
13 SIP/F 600 mm circular					
14 Board					
VTm BP (9)					
07 Nos	Cft 3743.21	Each Rs 26202.00			
14 SIP/F 600 mm × 450 mm					
15 Rectangular Board					
VTm BP (9)					
03 Nos	Cft 3608.25	Each Rs 10825.00			
15 SIP/F 900 mm octa					
16 gonal Board					
VTm BP (9)					

Continuation Rs 2270104.00

Sch. XLV—Form No. 134 BPRs 22701/09.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
02 Nos @ Rs 7741.48 Each Rs					15483.00
		7781.48			15563
16/17 SI/F/F Boundary pillars					
VTMBP (5)					
30.00 Nos @ 507.44 Each Rs					15223.20
17/19 Providing Planting of Trees					
VTMBP (6)					
~~06~~ 18 Nos @ Rs 793.54 Each Rs					~~4761.00~~ 4285.00
~~15~~		X30%.			~~15~~
18/20 ~~SI/F/F~~ Road marking					
using hot applied thermo compound paint					
VTMBP (10)					
350 m2 @ Rs 713.53 /m2 Rs					249736.00
19/21 SI/F/F MMGSY Board					
VTMBP (10)					
03 Nos @ Rs 8815.72 Each Rs					26447.00
20/22 E/W in excavation in feeder					
VTMBP (14)					
29.798 m3 @ Rs 285.17 /m3					8497.00

Continuation

Rs 25,90,251.00

2590331

2589855.00

Sch. XLV—Form No. 134 BP Rs 2590251.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
21/23 Providing Plain Cement Concrete M15 in footing					
VTMBP (11)					
2.962 m3					
Limit 2.96 m3 @ Rs 4537.11/m3 Rs 13430.00					
22/24 B/W in CM (1:4) in Sub St					
VTMBP (12)					
27.654 m3					
Limit 27.650 m3 @ Rs 5938.94/m3 Rs 164212.00					
23/25 S/F/F ISI NP3 100/1000mm					
7 VTMBP (12)					
7.5m @ Rs 3253.89 Each Rs 24404.00					
24/26 Providing B/W (1:3) in Parapet					
VTMBP (10)					
2.88 m3 @ Rs 5771.95/m3 Rs 16623.00					
25/27 Providing CP in CM (1:4) on walls					
VTMBP (10) 20.16 m2					
P (12) 65.89 m2					

Continuation 86.05 m2 Rs 28,08,920.00

2809000

2808521.0

Sch. XLV—Form No. 134

BP Rs 288920.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
BP 86.05 m2					
@ Rs 152.72/m2					Rs 13142.00
26/28 Providing Painting two Coats on Wall					
VTMBP (11)					
58.56 m2 @ Rs 94.70/m2					Rs 5546.00
27/2 Construction of Subgrade & Earthen Shoulding					
VTMBP (13)					
1050.10 m3 @ Rs 181.11/m3					Rs 190166.00
		3017378=00			3017854
		3017420			Rs 3017774.00
		36208=00			
Add 1% Labo. Cess					+ Rs 30178.00
Add 12% GST					+ Rs 3,62133.00
					362142=
	3409637=00				Rs 3410085.00
		51486=00			3410175
Less 1.51 below					51494
	3358151=00				3358661
23.6.22 JE					23/06/22 AE
			Total:-		33,58,661=

Continuation

PJO

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Materials Statement upto-Date					
(1) Stone metal 53mm to 9.5mm = 19.36 m2					
(2) Stone chips 9.5mm to 2.36mm = 7.65 m3					
(3) Coarse Sand (Below 2.36mm) = 11.59 m3					
(4) Stone metal (Gr II) 63mm to 45mm = 43.50 m3					
(5) Stone screenings = 9.75 m3					
(6) Filler materials = 0.72 m3 + 16.32 m3 = 17.04 m3					
(7) Stone metal Gr III 53mm to 22.4mm = 70.531 m3					
8 Stone chips 13.2mm to 0.89 mm = 20.984 m3					
9 Stone chips 9.75mm to 4.75mm 138.045 m3					
10 Stone chips 4.75 Below = 99.26 m3					
11 Filler Materials = 7.29 m3					
12 Bitumen Emulsion SS, 0.661 MT					
(13) Bitumen Emulsion Rs, = 2.0365 MT					
(14) Bitumen SS0/VG10/VG30 = 1.48 MT + 19.073 = 20.553 MT					

Continuation

P.T.O.

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) E/W (Slope)					1050.00 m³
16. Course Sc-1					1.41 m³ + 7.96 + 0.83 + 2.48 m³ = 12.68 m³
(17) Stone chips 40 mm					1.41 m³
Stone chips 20 mm					= 0.71 m³
Stone chips 10 mm					= 0.29 m³
Bricks – ~~13827~~ Nos					
					13827 Nos + 1440 Nos
					= 15267 Nos

23.6.22

Continuation

1st and Final bill

B.F - 3358151

Memo

8% S.D — 268652=

8% G. Tax — 671632=

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
~~1% L.C.~~					
~~1% S.G.S.T~~					
Royalty					106799=
S/F					50378=
Pay/o Rs					2764491=
Total					3358151=00

Passed for Rs — Thirty three

Lakh Fifty Eight thousand

one hundred fifty one) only.

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Continuation