Gehrua Bairig to Chharapathi

C.M. Program

Shedule XLV Form No. 134.

R.W.D. PHULPARAS DIVISION

PHULPARAS SUB-DIVISION

M.B No = 562/2024-25

MEASUREMENT BOOK

प्रमाणित किया जाता है कि इस मापी पुस्तक में मापी दिनांक सुरक्षित 100 (एक सौ) प्रतिशत अंकित है तो सहायक अभियन्ता, प्रशासनिक कार्य विभाग, कार्य कार्यालय प्रभेदता के नाम से निर्गत किया जाता है।

EXECUTIVE ENGINEER
Rural Work[illegible]artment
Works D[illegible]ulparas
27-12-2024

Sch. XLV - Form No. 134

R.W.D PHULPARAS DIVISION

PHULPARAS SUB-DIVISION

MEASUREMENT BOOK

M.B No. 562/2024-25

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 measurement relating to each work)

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Detailed Measurment					
Name of work - Construction of Road from Gehua Bairia to Chhorapathi					
① Cleaning and grubbing road land including uprooting ---- as per technical specification.					
	2	10 × 30.0m	1.0 m	=	600.00 m²
	2	10 × 30.0m	1.0 m	=	600.00 m²
	2	10 × 30.0m	1.0 m	=	600.00 m²
	2	20 × 30.0m	1.0 m	=	1200.00 m²
	2	20 × 30.0m	1.0 m	=	1200.00 m²
	2	10 × 30.0m	1.0 m	=	600.00 m²
	2	10 × 30.0m	1.0 m	=	600.00 m²
	2	10 × 30.0m	1.0 m	=	600.00 m²
					6000.00 m²
					= 0.60 Ha

Continuation

16/6/2025 JE

8/7/2025 AE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2)	Construction of granular sub-base by providing well graded material... ... as per technical specification (GSR Cir-II)				
	5	6.0m	2.2m	0.15m =	9.90 m³
	8	11.0m	2.0m	0.15m =	26.40m³
	6	9.0m	2.4m	0.15m =	19.44m³
	4	9.6m	2.2m	0.15m =	12.67 m³
	9	7.0m	1.8m	0.15m =	17.01 m³
	12	10.0m	2.0m	0.15m =	36.00 m³
	10	6.9m	1.5m	0.15m =	15.53 m³
	5	5.4m	1.8m	0.15m =	7.29 m³
	9	6.3m	1.7m	0.15m =	14.46 m³
	12	7.5m	1.9m	0.15m =	25.65 m³
	8	6.0m	1.6m	0.15m =	11.52 m³
	14	9.8m	1.55m	0.15m =	31.90 m³
	6	8.3m	1.65m	0.15m =	12.33 m³
	11	9.2m	1.8m	0.15m =	27.32 m³
	5	12.6m	1.4m	0.15m =	13.23 m³
	13	4.25m	1.5m	0.15m =	12.43 m³
	4	6.9m	1.3m	0.15m =	5.38 m³
	6	4.8m	1.45m	0.15m =	6.26 m³
	9	3.25m	1.4m	0.15m =	6.14 m³
	15	8.0m	1.75m	0.15m =	31.50 m³
	5	5.40m	1.6m	0.15m =	6.48 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	12	6.8m	1.25m	0.15m =	15.30 m³
	15	4.5m	1.55m	0.15m =	15.69 m³
	8	8.5m	1.65m	0.15m =	16.83 m³
	12	9.7m	1.35m	0.15m =	23.57 m³
	14	7.3m	1.52m	0.15m =	23.30 m³
	4	5.4m	1.3m	0.15m =	4.21 m³
	13	6.75m	1.3m	0.15m =	17.11 m³
	10	1.5m	1.2m	0.15m =	2.70 m³
	6	2.3m	1.25m	0.15m =	2.59 m³
	8	6.5m	2.0m	0.15m =	15.60 m³
	15	3.5m	1.8m	0.15m =	14.18 m³
	11	3.0m	1.6m	0.15m =	7.92 m³
	4	5.0m	1.2m	0.15m =	3.60 m³
				=	511.44 m³

8/7/2025 AE

8/7/2025 JE

(3) Providing, laying, spreading and compacting stone aggregates - - - - as per technical specification. (WBM Gr-3)

For CC Pavement

1	15.0m	$\frac{5.8+4.2+3.9}{3}$ m	0.075m =		5.21 m³
7	30.0m	3.75m	0.075m =		59.06 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	20.0m	3.75m	0.075m =	5.63 m³
	1	20.0m	$\frac{4.2+6.3+3.9}{3}$ m	0.075m =	7.20 m³
	6	30.0m	3.75m	0.075m =	50.63 m³
	1	20.0m	3.75m	0.075m =	5.63 m³
	1	20.0m	$\frac{3.9+4.3+4.0}{3}$ m	0.075m =	6.10 m³
	5	30.0m	3.75m	0.075m =	42.19 m³
	1	15.0m	$\frac{4.8+4.2+4}{3}$	0.075m =	4.86 m³
	7	30.0m	3.75m	0.075m =	59.06 m³
	1	30.0m	$\frac{3.8+5.2+3.9}{3}$ m	0.075m =	9.68 m³
	5	30.0m	3.75m	0.075m =	42.19 m³
	1	17.0m	3.75m	0.075m =	4.78 m³
	1	26.0m	$\frac{3.8+4.4+3.8}{3}$ m	0.075m =	7.80 m³
	1	27.0m	$\frac{3.7+4.0+3.8}{3}$ m	0.075m =	7.76 m³
	3	30.0m	3.75m	0.075m =	25.31 m³
	1	22.0m	3.75m	0.075m =	6.19 m³
	1	24.0m	$\frac{4.1+5.0+4.9}{3}$ m	0.075m =	7.86 m³
	20	30.0m	3.75m	0.075m =	168.75 m³
	15	30.0m	3.75m	0.075m =	126.56 m³
	1	27.0m	3.75m	0.075m =	7.59 m³
	1	10.0m	$\frac{3.1+5.3+3.9}{3}$ m	0.075m =	4.32 m³
	1	27.0m	3.75m	0.075m =	7.59 m³
	1	15.0m	$\frac{3.8+5.0+4.8}{3}$ m	0.075m =	5.10 m³
	10	30.0m	3.75m	0.075m =	84.38 m³
	1	30.0m	3.75m	0.075m =	8.44 m³
				=	769.87 m³

18/7/25
J.E

8/7/2025
A.E

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
For Bituminous					
2 X 8 X 30.0m X 0.375m X 0.075m =					13.50 m³
2 X 1 X 20.0m X 0.375m X 0.075m =					1.13 m³
				=	14.63 m³
Total = 769.87 + 14.63 =					784.50 m³
15/6/2025 JE				3/7/25 JE	
(4) Providing and fixing of typical informatory sign board with logo - - - as per MORD specification and drawing.					2.0 Nos.
(5) Construction of un-reinforced, dowel jointed - - - as per drawing and technical specification (CC Pavement)					
1 X 15.0m X $\frac{5.8+4.2+3.9}{3}$ m X 0.125m =					8.69 m³
7 X 30.0m X 3.75m X 0.125m =					98.44 m³
1 X 20.0m X $\frac{4.2+6.3+3.9}{3}$ m X 0.125m =					12.00 m³
8 X 30.0m X 3.75m X 0.125m =					112.50 m³
1 X 15.0m X 3.75m X 0.125m =					7.03 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1	20.0m	$\frac{3.9+4.3+4.0}{3}$ m	0.125m	= 10.17 m^3
	5	30.0m	3.75m	0.125m	= 70.31 m^3
	1	15.0m	$\frac{4.8+4.2+4.0}{3}$ m	0.125m	= 8.13 m^3
	7	30.0m	3.75m	0.125m	= 98.44 m^3
	1	30.0m	$\frac{3.8+5.2+3.9}{3}$ m	0.125m	= 16.13 m^3
	5	30.0m	3.75m	0.125m	= 70.31 m^3
	1	17.0m	3.75m	0.125m	= 7.97 m^3
	1	26.0m	$\frac{3.8+4.4+3.8}{3}$ m	0.125m	= 13.60 m^3
	1	27.0m	$\frac{3.7+4.0+3.8}{3}$ m	0.125m	= 12.94 m^3
	3	30.0m	3.75m	0.125m	= 42.19 m^3
	1	22.0m	3.75m	0.125m	= 10.31 m^3
	1	24.0m	$\frac{4.1+5.0+4.0}{3}$ m	0.125m	= 13.10 m^3
	20	30.0m	3.75m	0.125m	= 281.25 m^3
	15	30.0m	3.70m	0.125m	= 208.13 m^3
	1	27.0m	3.70m	0.125m	= 12.49 m^3
	1	10.0m	$\frac{8.1+5.3+3.9}{3}$ m	0.125m	= 7.21 m^3
	1	27.0m	3.75m	0.125m	= 12.66 m^3
	1	15.0m	$\frac{3.8+5.0+4.8}{3}$ m	0.125m	= 8.50 m
	10	30.0m	3.75m	0.125m	= 140.63
	1	30.0m	3.75m	0.125m	= 14.06
					= 1296.5

20/6/2025 J.E

SDO/AEE 2025

(6) Providing and applying primer coat with bitumen emulsion (SS1)

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	- - - as per technical specification.				
	2 X 8 X 30.0m X 0.375 m =				180.00 m²
	2 X 1 X 20.0 m X 0.375 m =				15.00 m²
					195.00 m²
(7)	Providing and applying tack coat with bituminous emulsion - - - - - as per technical specification				
	3 X 30.0m X 4.5 m =				405.00 m²
	1 X 30.0m X 4.3 m =				129.00 m²
	1 X 20.0m X $\frac{4.5+5.5+4.3}{3}$ m =				96.67 m²
	1 X 20.0m X $\frac{4.5+5.0+4.5}{3}$ m =				93.33 m²
	3 X 30.0m X 4.5m =				405.00 m²
	1 X 10.0 m X $\frac{4.5+5.8}{2}$ m =				51.50 m²
				=	1180.50 m²
	20/6/2025 J.E			8/7/2025 J.E	
(8)	Providing and laying semi dense bituminous concrete - - - as per MORTH specification				
	3 X 30.0m X 4.5m X 0.025m =				10.13 m³
	1 X 30.0m X 4.3m X 0.025m =				3.23 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			
	No.	L.	B.	D.
	1	20.0m	$\frac{4.5+5.0+4.5}{3}$ m	0.025m
	1	20.0m	$\frac{4.5+5.5+4.5}{3}$ m	0.025m =
	3	30.0m	4.5m	0.025m = 10.
	1	10.0m	$\frac{4.5+5.8}{2}$	0.025m = 1.2
				= 29.5

20/6/25 J.E

8/7/2025

(9) Construction of subgrade and earthen shoulders with approved material as per technical specification

2	20 × 30.0m × 1.0m	× 0.3m = 360.00 m³
2	25 × 30.0m × 1.0m	× 0.3m = 450.00 m³
2	25 × 30.0m × 1.0m	× 0.3m = 450.00 m³
2	6 × 30.0m × 1.0m	× 0.3m = 108.00 m³
1	11 × 30.0m × 1.0m	× 0.3m = 99.00 m³
1	6 × 30.0m × 1.0m	× 0.3m = 54.00 m³
2	1 × 30.0m × 1.0m	× 0.3m = 18.00 m³
		= 1539.00 m³

21/6/2025 JE

8/7/2025 AE

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(10) Laying brick soling layer on prepared sub grade with brick on end edging ------ as per technical specification					
2 X 20.0 X 30.0m X 0.5m =					600.00 m^2
2 X 25 X 30.0m X 0.5m =					750.00 m^2
2 X 25 X 30.0m X 0.5m =					750.00 m^2
2 X 6 X 30.0m X 0.5m =					180.00 m^2
1 X 11 X 30.0m X 0.5m =					165.00 m^2
				=	2445.00 m^2

21/12/2025 JE

31/12/2025 JE

(11) Reinforced cement concrete M15 grade Kilometer local stone ------ as per drawing and technical specification

(ii) Km Stone - 4.00 Nos.

(iii) 200m Stone - 9.00 Nos.

(12) Providing and laying of hot applied thermoplastic

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
compound - - - as per technical specification.					
for BT portion					
2X8X30.0mX0.1m=					48.00m²
2X1X20.0mX0.1m=					4.00m²
				=	52.00m²
for cc portion					
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X10X30.0mX0.1m=					60.00m²
2X11X30.0mX0.1m=					66.00m²
2X1X10.0mX0.1m=					2.00m²
				=	548.00m²

23/6/2025 J.E

8/7/2025 A.E

(13) Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign. - - - -

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	as per drawings and technical specification.				
(i)	600mm equilateral & triangle				6.00 Nos.
(ii)	600mm circular				6.00 Nos.
(iii)	600mm x 450mm rectangular				6.00 Nos.
(14)	Planting of trees by the road side in 0.6m dia. holes and maintaining the plants for one year.				13.00 Nos.
	23/6/2025 J.E Material Statement				8/7/25 AE
	Earth work -				1539.00 m^3
	Stone metal -				1317.48 m^3
	Stone chips -				1212.65 m^3
	Coarse sand -				585.53 m^3
	Local sand -				337.67 m^3
	Dust -				188.28 m^3
	23/6/2025 JE 8/7/25 AE				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Seigniorage fee					
Earth work-					
539.00 m^3 @ Rs. 35.25/m^3 of 10% =					5425.00
WSB Gr-II					
14.80 m^3 @ Rs. 913.48/m^3 of 10% =					19622.00
53.43 m^3 @ Rs. 434.45/m^3 of 10% =					6666.00
45.49 m^3 @ Rs. 145.87/m^3 of 10% =					3581.00
WBM Gr-III					
149.25 m^3 @ Rs. 1115.24/m^3 of 10% =					105864.00
188.28 m^3 @ Rs. 434.45/m^3 of 10% =					8180.00
SDBC					
CC Pavement					
1166.93 m^3 @ Rs. 913.48/m^3 of 10% =					106597.00
583.47 m^3 @ Rs. 584.64/m^3 of 10% =					34112.00
Kilometer Stone					
1.08 m^3 @ Rs. 1105.52/m^3 of 10% =					119.00
0.43 m^3 @ Rs. 1105.52/m^3 of 10% =					48.00
Traffic Sign and logo board					
4.78 m^3 @ Rs. 1105.52/m^3 of 10% =					528.00
					= 293290.00

23/6/2023 J.E

8/7/2023 AE

Abstract of Cost

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
①	Clearing and grubbing road land including uprooting. ---- as per technical specification.				
Qty. vide TMB P.No. ①					
60 Ha @ Rs. 65115.00/Ha =					39069.00
②	Construction of granular sub-base by providing well graded material ---- as per technical specification (CSB Gr-II)				
Qty. vide TMB P.No. ③					
511.44 m^3 @ Rs. 2572.36/m^3 =					1315608.00
③	Providing, laying, spreading and compacting stone aggregate. ---- as per technical specification (WBM Gr-II)				
Qty. vide TMB P.No. ⑤					
784.50 m^3 @ Rs. 4844.05/m^3 =					3800157.00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
④ Providing and fixing of typical informatory sign board - - - - as per drawing.					
Qty. vide TM② P. No ⑤					
20 Nos. @ Rs. 12869.78 Each =					25740.00
⑤ Construction of un-reinforced, dowel jointed - - - - as per drawing and technical specification (CC Pavement)					
Qty. vide TM② P. No ⑥					
1296.59 m^3 @ Rs. 8776.43/m^3 =					11379431.00
⑥ Providing and laying primer coat with bitumen emulsion (SS1) - - - - as per technical specification (Primer coat)					
Qty. vide TM② P. No. ⑦					
195.00 m^2 @ Rs. 47.66/m^2 =					9294.00
⑦ Providing and applying tack coat with					

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		bitumen emulsion (RS1) ---- as per technical specification (Tack coat)			
Qty vide TM2 P.No. (7)					
1180.50 m² @ Rs. 16.38/m² =					19337.00
(8)		Providing and laying semi dense bituminous concrete (SDBC) — as per MORTH specification			
Qty. vide TM2 P.No. (8)					
29.53 m³ @ Rs. 11739.47/m³ =					346667.00
(9)		Construction of Subgrade and earthen shoulder ---- as per drawing and technical specification (1080 m lead)			
Qty. vide TM2 P.No. (8)					
1539.00 m³ @ Rs. 217.35/m³ =					334502.00
(10)		Laying brick soling layer on prepared			

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	subgrade with brick on end edging - - - as per technical specification.				
Qty. vide TMR P.No. (9)					
2445.00 m^2 @ Rs. 397.01/m^2 =					970689.00
(11)	Km Stone - Reinforced cement concrete M15 grade - - - as per drawing and technical specification (i) ordinary Km stone				
Qty. vide TMR P.No. (9)					
4.00 Nos. @ Rs. 2851.99 Each =					11408.00
~~4.00 Nos.~~	(ii) 250 m Stone				
Qty. vide TMR P.No. (9)					
9.00 Nos. @ Rs. 769.56 Each =					6926.00
(12)	Providing and laying of hot applied thermoplastic compound (Road marking) On bituminous surface				
Qty. vide TMR P.No. (10)					
52.00 m^2 @ Rs. 801.60/m^2 =					41683.00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	on Concrete surface				
Qty. vide TMR P.No. (10)					
548.00 m^2 @ Rs. 883.88/m^2 =					484366.00
(13)	Providing and fixing of retro reflective, cautionary, mandatory sign board - - - as per drawing and technical specification (i) 600mm equilateral & triangle				
Qty. vide TMR P.No. (11)					
6.00 Nos. @ Rs. 3777.45 Each =					22665.00
	(ii) 600mm circular				
Qty. vide TMR P.No. (11)					
6.00 Nos. @ Rs. 4947.03 Each =					29682.00
	(iii) 600mm x 450mm rectangular				
Qty. vide TMR P.No. (11)					
6.00 Nos. @ Rs. 4827.31 Each =					28964.00
(14)	Planting of trees by the road side - - - and maintaining the plant for				

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	one year.				
Qty. vide TMR P.No. (11)					
13.00 Nos. @Rs. 1054.73 Each=					13711.00
			Total=		18879899.00
Add GST @ 18%			=		3398382.00
Add Labour Cess @ 1%			=		188799.00
Add Seignirage Fee			=		293290.00
			Total =		22760370.00

24/6/2025 S.E

8/7/2025 AE