

Chenna Baidya to Chhazapathi

C. M. Pradyum

Shedule XLV Form No. 134.

R.W.D. PHULPARAS

DIVISION

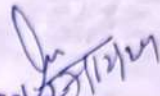
PHULPARAS

SUB-DIVISION

M.B.No = 562/2024-25

MEASUREMENT BOOK

प्रमाणित किया जाता है कि इस सही पुरान में सही प्रकार मुद्रित
100 (एक सौ) पृष्ठों का है जो सहायक अभियंता,
ग्रामीण कार्य विभाग, कर्ण प्रमोदता -
के नाम से निर्माण किया जाता है।


EXECUTIVE ENGINEER
Rural Works Department
Phulparas
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)

[illegible]

Name of work - Construction of
Road from Grehua
Bairia to Chharabatti

① Clearing and grubbing road land including abutting - - - as per technical specification.

$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 20 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	1200.00 m^2
$2 \times 20 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	1200.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
$2 \times 10 \times 30.0 \text{ m} \times 1.0 \text{ m}$	$=$	600.00 m^2
		6000.00 m^2

$$= 0.60 \text{ Ha}$$

Continuation

16/6/2025
TE

Wah
8/7/2025
AE

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 (G.S.R. 11)					
5x6.0m x 2.2m x 0.15m =					9.90 m ³
8x11.0m x 2.0m x 0.15m =					26.40 m ³
6x9.0m x 2.4m x 0.15m =					19.44 m ³
4x9.6m x 2.2m x 0.15m =					12.67 m ³
9x7.0m x 1.8m x 0.15m =					17.01 m ³
12x10.0m x 2.0m x 0.15m =					36.00 m ³
10x6.9m x 1.5m x 0.15m =					15.53 m ³
5x5.4m x 1.8m x 0.15m =					7.29 m ³
9x6.3m x 1.7m x 0.15m =					14.46 m ³
12x7.5m x 1.9m x 0.15m =					25.65 m ³
8x6.0m x 1.6m x 0.15m =					11.52 m ³
14x9.8m x 1.55m x 0.15m =					31.90 m ³
6x8.3m x 1.65m x 0.15m =					12.33 m ³
11x9.2m x 1.8m x 0.15m =					27.32 m ³
5x12.6m x 1.4m x 0.15m =					13.23 m ³
13x4.25m x 1.5m x 0.15m =					12.43 m ³
4x6.9m x 1.3m x 0.15m =					5.38 m ³
6x4.8m x 1.45m x 0.15m =					6.26 m ³
9x3.25m x 1.4m x 0.15m =					6.14 m ³
15x8.0m x 1.75m x 0.15m =					31.50 m ³
5x5.40m x 1.6m x 0.15m =					6.48 m ³

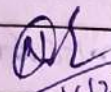
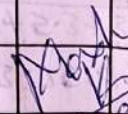
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1X20.0mX3.75mX0.075m					5.63 m ³
1X20.0mX	4.2+6.3+3.9			mX0.075m	7.20 m ³
6X30.0mX3.75mX0.075m					50.63 m ³
1X20.0mX3.75mX0.075m					5.63 m ³
1X20.0mX	3.9+4.3+4.0			mX0.075m	6.10 m ³
5X30.0mX3.75mX0.075m					42.19 m ³
1X15.0mX	4.8+4.2+4			mX0.075m	4.86 m ³
7X30.0mX3.75mX0.075m					59.06 m ³
1X30.0mX	3.8+5.2+3.9			mX0.075m	9.68 m ³
5X30.0mX3.75mX0.075m					42.19 m ³
1X17.0mX3.75mX0.075m					4.78 m ³
1X26.0mX	3.8+4.4+3.8			mX0.075m	7.80 m ³
1X27.0mX	3.7+4.0+3.8			mX0.075m	7.76 m ³

3X30.0mX3.75mX0.075m					25.31 m ³
1X22.0mX3.75mX0.075m					6.19 m ³
1X24.0mX	4.1+5.0+4.9			mX0.075m	7.86 m ³
20X30.0mX3.75mX0.075m					168.75 m ³
15X30.0mX3.75mX0.075m					126.56 m ³
1X27.0mX3.75mX0.075m					7.59 m ³
1X10.0mX	8.1+5.3+3.9			mX0.075m	4.32 m ³
1X27.0mX3.75mX0.075m					7.59 m ³
1X15.0mX	3.8+5.0+4.8			mX0.075m	5.10 m ³
10X30.0mX3.75mX0.075m					84.38 m ³
1X30.0mX3.75mX0.075m					8.44 m ³
					769.87 m³

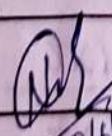
18/7/25
J.E

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
For Bituminous					
2 X 8 X 30.0m		0.375m	0.075m		13.50 m ³
2 X 1 X 20.0m		0.375m	0.075m		1.13 m ³
					= 14.63 m ³
Total = 769.87 + 14.63 =					784.50 m ³
 15/10/2025 JE  15/10/25 VAE					
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 (C.C. Pavement)				
1 X 15.0m	$\frac{5.8+4.2+3.9}{3}$		0.125m		8.69 m ³
7 X 30.0m	$\frac{3.75}{3}$		0.125m		98.44 m ³
1 X 20.0m	$\frac{4.2+6.3+3.9}{3}$		0.125m		12.00 m ³
8 X 30.0m	$\frac{3.75}{3}$		0.125m		112.50 m ³
1 X 15.0m	$\frac{3.75}{3}$		0.125m		7.03 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 X 20.0m X	$\frac{3.9+4.3+4.0}{3}$			m X 0.125m	10.17m ³
5 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	70.31m ³
1 X 15.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	8.13m ³
7 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	98.44m ³
1 X 30.0m X	$\frac{3.8+5.2+3.9}{3}$			m X 0.125m	16.13m ³
5 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	70.31m ³
1 X 17.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	7.97m ³
1 X 26.0m X	$\frac{3.8+4.4+3.8}{3}$			m X 0.125m	13.00m ³
1 X 27.0m X	$\frac{3.7+4.0+3.8}{3}$			m X 0.125m	12.94m ³
3 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	42.19m ³
1 X 22.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	10.31m ³
1 X 24.0m X	$\frac{4.1+5.0+4.0}{3}$			m X 0.125m	13.10m ³
20 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	281.25m ³

15 X 30.0m X	$\frac{3.70+4.0+3.8}{3}$			m X 0.125m	208.13m ³
1 X 27.0m X	$\frac{3.70+4.0+3.8}{3}$			m X 0.125m	12.49m ³
1 X 10.0m X	$\frac{8.1+5.3+3.9}{3}$			m X 0.125m	7.21m ³
1 X 27.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	12.66m ³
1 X 15.0m X	$\frac{3.8+5.0+4.8}{3}$			m X 0.125m	8.50m ³
10 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	140.63
1 X 30.0m X	$\frac{3.75+4.8+4.2+4.0}{3}$			m X 0.125m	14.06
					≈ 1296.5


 20/6/2025
 J.E.

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

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
--- as per technical specification.					
$2 \times 8 \times 30.0 \text{ m} \times 0.375 \text{ m}$					180.00 m^2
$2 \times 1 \times 20.0 \text{ m} \times 0.375 \text{ m}$					15.00 m^2
					195.00 m^2

⑦	Providing and applying tack coat with bituminous emulsion				
	--- as per technical specification				

$$3 \times 30.0 \text{ m} \times 4.5 \text{ m} = 405.00 \text{ m}^2$$

$$1 \times 30.0 \text{ m} \times 4.3 \text{ m} = 129.00 \text{ m}^2$$

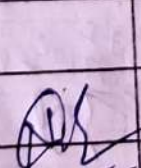
$$1 \times 20.0 \text{ m} \times \frac{4.5 + 5.5 + 4.5}{3} \text{ m} = 96.67 \text{ m}^2$$

$$1 \times 20.0 \text{ m} \times \frac{4.5 + 5.0 + 4.5}{3} \text{ m} = 93.33 \text{ m}^2$$

$$3 \times 30.0 \text{ m} \times 4.5 \text{ m} = 405.00 \text{ m}^2$$

$$1 \times 10.0 \text{ m} \times \frac{4.5 + 5.8}{2} \text{ m} = 51.50 \text{ m}^2$$

$$= 1180.50 \text{ m}^2$$


 2016/05
 J.E.

⑧	Providing and laying semi dense bituminous concrete --- as per MORTH specification				
---	--	--	--	--	--

$$3 \times 30.0 \text{ m} \times 4.5 \text{ m} \times 0.025 \text{ m} = 10.13 \text{ m}^3$$

$$1 \times 30.0 \text{ m} \times 4.3 \text{ m} \times 0.025 \text{ m} = 3.23 \text{ m}^3$$

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

2016/25
J.E

21/7/2025
J.E

⑨ Construction of
subgrade and earthen
shoulders with
approved material

per technical
specification

2X 20X 30.0m X 1.0m X 0.3m	= 360.00m ³
2X 25X 30.0m X 1.0m X 0.3m	= 450.00m ³
2X 25X 30.0m X 1.0m X 0.3m	= 450.00m ³
2X 6X 30.0m X 1.0m X 0.3m	= 108.00m ³
1X 11X 30.0m X 1.0m X 0.3m	= 99.00m ³
1X 6X 30.0m X 1.0m X 0.3m	= 54.00m ³
2X 1X 30.0m X 1.0m X 0.3m	= 18.00m ³
	= 1539.00m ³

21/6/2025
J.E

21/7/2025
J.E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Laying brick soling layer on prepared sub-grade with brick on end edging ----- as per technical specification					
2 X 20.0 X 30.0 m X 0.5 m					600.00 m ²
2 X 25 X 30.0 m X 0.5 m					750.00 m ²
2 X 25 X 30.0 m X 0.5 m					750.00 m ²
2 X 6 X 30.0 m X 0.5 m					180.00 m ²
1 X 11 X 30.0 m X 0.5 m					165.00 m ²
					<u>2445.00 m²</u>

N/S
21/6/2025
JLE

M/S
30/7/2025
JLE

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

(i) Km Stone - 4.00 Nos.

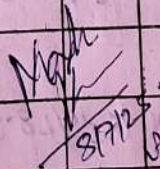
(ii) 200m Stone - 9.00 Nos.

(12) Providing and laying of hot applied thermoplastic

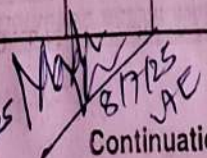
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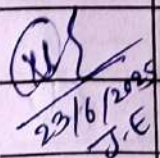
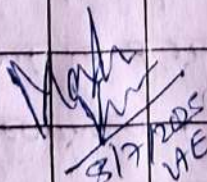
- Top left: A circled "41" and a signature.
- Top right: A signature and the date "8/7/2025" with "JAE" written below it.
- Bottom left: The date "23/6/2025" and "JAE" written below it.

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

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
as per drawings and technical specification.					
(i) 600 mm equilateral & triangle					6.00 Nos.
(ii) 600 mm circular					6.00 Nos.
(iii) 600 mm x 450 mm rectangular					6.00 Nos.
(12) 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.  S.P.125 JAE					
<u>Material Statement</u>					
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
J.E.


S.P.125
JAE
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Seigniorage fee</u>					
<u>Earth work-</u>					
39.00 m ³ @ Rs. 35.25/m ³ of 10% =					5425.00
<u>NSR Gr-II</u>					
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
<u>NSM Gr-III</u>					
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
<u>S&SC</u>					
<u>CC Pavement</u>					
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
<u>Kilometer Stone</u>					
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
<u>Traffic Sign and logo board</u>					
4.78 m ³ @ Rs. 1105.52/m ³ of 10% =					528.00
					= 293290.00
					
					

Abstract of Cost

13

Sch. XLV-Form No. 134

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

Continuation

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

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑦ Bitumen emulsion (RSI) - - - as per technical specification (Tack coat)					
Qty. vide TMR P.No. ⑦ $1180.50 \text{ m}^2 @ \text{Rs. } 16.38/\text{m}^2 =$					19337.00
⑧ Providing and laying semi dense bituminous concrete (SDBC) - - as per MORTH specification					
Qty. vide TMR P.No. ⑧ $29.53 \text{ m}^3 @ \text{Rs. } 11739.47/\text{m}^3 =$					346667.00
⑨ Construction of subgrade and earthen shoulder - - - as per drawing and technical specification (1000m lead)					
Qty. vide TMR P.No. ⑧ $1539.00 \text{ m}^3 @ \text{Rs. } 217.35/\text{m}^3 =$					334502.00
⑩ Laying brick soling layer on prepared					

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) 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 MIS 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
7.00 Nos. (ii) 2.50 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. 81.60/m ²					4168.00

Sch. XLV-Form No. 134				Contents of area
Particulars	Details of actual measurement			
	No.	L.	B.	D.
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			

[illegible]