

MR-N/23-24 BERAUL/05.
Schedule XLV-Form No. 134

2057-2026 AFZA2A TO BHARHI

Executive Engineer

DIVISION

R.W.D Works Division

Biraul (Dargah Road)

BERAUL.

SUB-DIVISION

AG.NO: 221/M.B.D/2024-25. MR.No-1449

MEASUREMENT BOOK

GAUTAM KUMAR THAKUR - DAR BHARHI.

...गणित किया जाता है कि इस मापी
पुस्तक में कुल 100 (हो 12) टंकित है जिस को
सहायक अभियंता Arvind Kumar ग्रामीण
...य विभाग कार्य अवर प्रमंडल
Biroul के नाम से निर्गत किया जाता है


Executive Engineer
R.W.D Works Division
Biraul (Darbhanga)

MK
4.10.24

Sch. XLV-Form No. 134

Executive Engineer
R.W.D Works Division DIVISION
Biraul (Darbhanga)

Biroul SUB-DIVISION

Measurement Book

MB.No. 1449

Name of officer _____

Date of first entry _____

Date of last entry _____

1st on A/c 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.	
N/Work:	Construction of Road				
	from LOS 7-1026				
	Afzala to Bherhi				
N/Agency :	Shri Gautam Kr				
	Thakur				
Agreement No.	21/MBD/2024-2025				
Date of Start :	31/07/2024				
Date of Completion :	30/07/2025				

Measurement

① Clearing and grooving of road land do-do - all comp. job.

$$2 \times 38 \times 30 \times 1.0 = 2280.00 \text{ m}^2$$

$$2 \times 1 \times 10 \times 1.0 = 20$$

$$2300.00 \text{ m}^2$$

$$\sim 0.23 \text{ Heet.}$$

② Construction of embankment with material from borrow pit with 100 mm lead.

$$2 \times 12 \times 30 \times 0.90 \times 0.10 = 64.80 \text{ m}^3$$

$$2 \times 21 \times 30 \times 1.2 \times 0.35 = 529.20 \text{ m}^3$$

$$2 \times 21 \times 1.2 \times 0.35 = 17.64 \text{ m}^3$$

$$611.64 \text{ m}^3$$

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

③ Construction of embankment for 1000 m lead.

$$2 \times 16 \times 30 \times 1.2 \times 0.35 = 408.20 \text{ m}^3$$

④ Providing and scarifying existing bitumen do-dos all comp. job.

$$1 \times 8 \times 2.1 = 16.80 \text{ m}^2$$

$$1 \times 12 \times 2.6 = 31.20 \text{ m}^2$$

$$1 \times 15 \times 2.5 = 37.50 \text{ m}^2$$

$$1 \times 8 \times 3.75 = 30.00 \text{ m}^2$$

$$1 \times 9 \times 2.5 = 22.50 \text{ m}^2$$

$$1 \times 5 \times 2.5 = 12.50 \text{ m}^2$$

$$1 \times 10 \times 2.5 = 25.00 \text{ m}^2$$

$$1 \times 12 \times 1.3 = 15.60 \text{ m}^2$$

$$1 \times 8 \times 2.5 = 20.00 \text{ m}^2$$

$$1 \times 12 \times 2.5 = 30.00 \text{ m}^2$$

$$1 \times 8 \times 1.5 = 12.00 \text{ m}^2$$

$$1 \times 12 \times 2.5 = 30.00 \text{ m}^2$$

$$1 \times 10 \times 2.5 = 25.00 \text{ m}^2$$

$$1 \times 8 \times 3.75 = 30.00 \text{ m}^2$$

$$1 \times 10 \times 1.80 = 18.00 \text{ m}^2$$

$$1 \times 12 \times 1.6 = 19.20 \text{ m}^2$$

$$1 \times 10 \times 1.3 = 13.00 \text{ m}^2$$

$$1 \times 8 \times 1.2 = 9.60 \text{ m}^2$$

$$1 \times 5 \times 2 = 10.00 \text{ m}^2$$

$$1 \times 4 \times 1.3 = 5.20 \text{ m}^2$$

$$1 \times 6 \times 2.5 = 15.00 \text{ m}^2$$

$$1 \times 8 \times 1.4 = 11.20 \text{ m}^2$$

$$1 \times 9 \times 1.6 = 14.40 \text{ m}^2$$

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
⑤ Providing Granular sub-base do-do all comp. job.					
Vide item No-4 -	1298.95				m ²
Qty	1298.95			0.1	= 129.89 m ³
⑥ Providing WBM Grade III do-do all comp. job.					
Vide item No-4 -	1298.95				m ²
Qty	1298.95			0.075	= 97.42 m ³
⑦ Providing frame coat do- do-all comp. job.					

Vide item No-4 -	1298.95				m ²
⑧ Providing tack coat do-do all comp. job.					
Vide item No-4 -	1298.95				m²
1 x 38 x 30 x 3.75 =					4275.00 m ²
1 x 7 x 3.75 =					26.25 m ²
⑨ Providing SDBC do-do all comp. job.					4301.25 m ²
1 x 38 x 30 x 3.75 x 0.025 =					106.875 m ³
1 x 07 x 3.75 x 0.025 =					0.656 m ³
					107.53 m ³

⑩ Providing of D.C. do-do All Comp. job.					
1 x 7 x 1.3 x 0.10 =					0.910 m ³

Continuation					
1 x 12 x 1.1 x 0.10 =					1.32 m ³
1 x 6 x 1.4 x 0.10 =					0.840 m ³
1 x 13 x 1.3 x 0.10 =					1.69 m ³
1 x 8 x 2 x 0.10 =					1.60 m ³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
1 x 6 x 1.4 x 0.10					$= 0.840m^3$
1 x 13 x 1.3 x 0.10					$= 1.690m^3$
1 x 8 x 2 x 0.10					$= 1.60m^3$
1 x 9 x 1 x 0.10					$= 0.90m^3$
1 x 7 x 1.5 x 0.10					$= 1.050m^3$
1 x 9 x 2.5 x 0.10					$= 2.25m^3$
					$14.69m^3$

⑪ Construction of Cement Concrete Pavement M30

do - do -	All comp. 100.	
10 x 5.45 + 5.30 x 0.160		$= 8.59m^3$
10 x 5.30 + 4.60 x 0.160		$= 7.92m^3$
10 x 4.60 + 5.10 x 0.160		$= 7.76m^3$

10 x 3.5 x 0.160		$= 5.60m^3$
10 x 3.5 x 0.160		$= 5.60m^3$
10 x 3.65 x 0.160		$= 5.84m^3$
10 x 3.65 x 0.160		$= 5.84m^3$
10 x 3.75 x 0.160		$= 6.0m^3$
10 x 4.05 x 0.160		$= 6.48m^3$
10 x $\frac{4.05 + 4.45 + 2.45}{3}$ x 0.160		$= 6.36m^3$
10 x 3.40 x 0.160		$= 5.44m^3$
10 x 3.10 x 0.160		$= 4.96m^3$
10 x 3.10 x 0.160		$= 4.96m^3$
10 x 3.40 x 0.160		$= 5.44m^3$
10 x 3.75 x 0.160		$= 6.0m^3$
10 x $\frac{3.1 + 6.50 + 5.30}{3}$ x 0.160		$= 10.08m^3$
10 x 4.2 x 0.160		$= 6.72m^3$

Continuation

$$10 \times \frac{7.20 + 6.80}{2} \times 0.160 = 11.2m^3$$

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
10 x $\frac{7.10 + 4.80}{2}$ x 0.160 =					9.52m ³
10 x $\frac{2.80 + 3.95}{2}$ x 0.160 =					6.19m ³
9 x 3.95 x 0.160 =					5.40m ³
					141.90m ³
10 x 3.60 x 0.160 =					5.76m ³
10 x 3.60 x 0.160 =					5.76m ³
40 x 3.8 x 0.160 =					24.32m ³
10 x $\frac{4.85 + 4.60}{2}$ x 0.160 =					7.55m ³
10 x 4.2 x 0.160 =					6.72m ³
10 x 4.0 x 0.160 =					6.40m ³
10 x 3.45 x 0.160 =					5.52m ³
10 x 3.80 x 0.160 =					6.08m ³
10 x 3.85 x 0.160 =					6.16m ³

10 x $\frac{3.85 + 3.6}{2}$ x 0.160 =					5.95m ³
5 x 3.60 x 0.160 =					2.08m ³
					22.30m³
					224.20m ³
			Limited		221.796m ³

(12) Construction of Protection wall
Earth work in excavation
of Foundation

30 x 1 x 1.1 x 0.9 =					29.70m ³
28 x 1 x 1.1 x 0.9 =					27.72m ³
					57.42m ³

(13) Providing of P.C.C. MIS

30 x 1 x 1.1 x 0.15 =					4.95m ³
28 x 1 x 1.1 x 0.15 =					4.62m ³

Continuation

9.57m³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(14) Providing of P.C.C					
30 $\times$ $\frac{0.95+0.25}{2}$ $\times$ 2.05 =					36.9 m ³
28 $\times$ $\frac{0.95+0.25}{2}$ $\times$ 2.05 =					34.44 m ³
					71.34 m ³
(15) Providing of 'weat holes					
60 Nos					
(16) Providing of Brick masonry					
in C.M (1:3) Parapet wall					
4 $\times$ 2 $\times$ 6.0 $\times$ 0.40 $\times$ 0.60 =					11.52 m ³ 2.88 m³
(17) Providing of Plastering					

	With Cement mortar (1:4)	
4 $\times$ 4 $\times$ 6.0 $\times$ 0.60	= 57.60 m ²	
4 $\times$ 2 $\times$ 6.0 $\times$ 0.40	= 19.20 m ²	
4 $\times$ 4 $\times$ 0.40 $\times$ 0.60	= 3.84 m ²	
	80.64 m ²	
(18) Providing of Painting two coat		
4 $\times$ 4 $\times$ 6.0 $\times$ 0.60 =	57.60 m ²	
4 $\times$ 2 $\times$ 6.0 $\times$ 0.40 =	19.20 m ²	
4 $\times$ 4 $\times$ 0.40 $\times$ 0.60 =	3.84 m ²	
	80.64 m ²	
(19) Providing Kilometer Stone		
03 Nos		
(20) Providing 200m Stone		

Continuation

05 Nos

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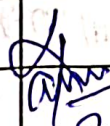
Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(20) Providing and Fixing road Markers			68	Nos	
(21) Providing and Fixing of traffic signs					
600mm equilateral triangle				do-do	
			08	Nos	
(22) Providing and Fixing traffic signs					
600mm Circular					
			06	Nos	
(24) Providing Fixing traffic sign					
600mm x 450mm rectangular					
			04	Nos	
(25) Providing boundary Pillar					
			12	Nos	
(26) Planting of trees and their Maintenance for one year					
			112	Nos	

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
27) Providing and laying Road Marking with hot applied thermoplastic Compound.					
	2 x 49	x 30	x 0.10 =		294 m ²
	2 x 1	x 20	x 0.10 =		4 m ²
					<u>298 m²</u>
28) Providing and fixing Logo board					
		03 Nos			
29) Construction of Subgrade shoulder do-do					

$2 \times 12 \times 30 \times 1.125 \times 0.025 = 20.25 m^3$
 $2 \times 21 \times 30 \times 1.125 \times 0.025 = 35.43 m^3$
 $2 \times 1 \times 21 \times 1.125 \times 0.025 = 1.18 m^3$
 $2 \times 4 \times 30 \times 1.125 \times 0.025 = 6.75 m^3$
 $2 \times 12 \times 30 \times 0.875 \times 0.0160 = 10.08 m^3$
 $73.69 m^3$


 30/04/25
 J.E.

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	Abstract of cost				
				$y-x$	
① Clearing and grubbing of Road land					
do -- do All Comp. Job.					
P/01		0.23 Hect			
		@ 76926.08/Hect =			17693/-
② Construction of Embankment 100m lead do - do -					
All Comp. Job.					
P/01		611.64 m ³			
		@ 185.28/m ³ =			113325/-

③ Construction of Embankment 1000m lead do - do -					
All Comp. Job.					
P/02		403.20 m ³			
		@ 257.07/m ³ =			104014/-
④ Providing and scarifying existing bitumen do - do					
All Comp. Job.					
P/02		1298.95 m ²			
Limited to		948.75 m ²			
		@ 20.54/m ² =			19487/-
⑤ Providing G.S.B. do - do					
All Comp. Job.					

Continuation

P/02 129.89 m³
 Limited 126.26 m³
 @ 4141.28/m³ = 522878/-

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
⑥ Providing WBM Gr- III					
do- do All Comp Job					
P/04		97.42	m ³		
		@ 5640.04/m ³			= 549453/-
⑦ Providing Prime coat					
do- do All Comp. Job.					
P/04		1298.95	m ²		
		@ 57.37/m ²			= 74521/-
⑧ Providing tack coat					
do- do All Comp. Job.					
P/04		1298.95	m ²	4301.25	m ²
		@ 19.72/m ²			= 84821/-
⑨ Providing of SDBC do-do					
All Comp. Job.					
P/04		107.53	m ³		
		@ 15075.84/m ³			= 1621105/-
⑩ Providing D.I. r. do-do					
all comp. Job.					
P/04		14.69	m ³		
		@ 6603.34/m ³			= 97003/-
⑪ Construction of Cement-Concrete Pavement					
M30 do-do					

Continuation

P/05

224.20 m³Limited. 221.796 m³@ 9333.64/m³ = 2070164/-

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(12) Construction of Protection wall					
Excavation of Foundation					
do - do - All. Comp. Job.					
P/06		57.42 m ³			
		@ 405.83/m ³			= 23303/-
(13) Providing of P.C.C. M/S					
do - do all. Comp. Job.					
P/06		9.57 m ³			
		@ 8193.04/m ³			= 78407/-
(14) Providing of P.C.C. do - do					
all Comp. Job.					
P/07		71.34 m ³			
		@ 9274.85/m ³			= 661668/-
(15) Providing of weep holes					
do - do - All. Comp. Job.					
P/07		60 Nos			
		@ 143.04/Nos			= 8588/-
(16) Providing of brick masonry					
in c:m (1:3) Parapet wall					
do - do All. Comp. Job.					
P/07		11.52 m ³			
		@ 6388.58/m ³			= 73596/-

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(17) Providing of Plastering with Cement mortar (1:4)					
do - do - All comp. job.					
P/07		80.64	m ²		
		@ 243.49	/m ²	=	19635/-
(18) Providing Painting two coat					
do - do - All comp. job.					
P/07		80.64	m ²		
		@ 139.08	/m ²	=	11215/-
(19) Providing Kilometer Stone					
P do - do - All comp. job.					
P/07		03	Nos		
		@ 15245 52	/Nos	=	45737/-
		@ 3349.38	/Nos	=	10048/-
(20) Providing 20cm Stone					
do - do - All comp. job.					
P/07		05	Nos		
		@ 885.32	/Nos	=	4427/-
(21) Providing and fixing road Marker do - do -					
All comp. job.					
P/08		68	Nos		
		@ 294.67	/Nos	=	20038/-

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(22) Providing and fixing of traffic Sign					
600mm equilateral triangle					
do - do -					
All comb. Job					
P/08		08 Nos			
		@ 5828.54 / Nos =			46628/-
(23) Providing and fixing Traffic Sign					
600mm Circular					
do - do All comb. Job.					
P/08		06 Nos			
		@ 7396.34 / Nos =			44378/-

(24) Providing and fixing traffic Sign					
600mm x 450mm rectangular					
do - do All comb. Job.					
P/08		04 Nos			
		@ 7235.86 / Nos =			28943/-
(25) Providing boundary Pillar					
do - do - All comb. Job.					
P/08		12 Nos			
		@ 759.32 / Nos =			9112/-
(26) Planting of tree					
do - do - All comb. Job.					

Continuation

P/08

112 Nos

@ 1275.08 / Nos = 142809/-

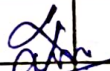
Continuation

5.12

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>Material Consumption</u>					
Metal	=	193.63 m ³			
chips	=	396.91 m ³			
Screening	=	23.38 m ³			
Sand	=	156.46 m ³			
Earth	=	1088.53 m ³			
SS-1	=	1.10 Ton			
RS-1	=	1.18 Ton			
S-90	=	12.41 Ton			
20/04/25 J.B.					

Work has been completed
as per specification and
site condition

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20/04/25~~