

M. M. G. S. Y. (G. N.)

22.5.20/2019-2020

236/19-20

Schedule XLV Form No.-134

M. General

BIHAR P.W.D.

Mathiya Purbab tola to Birta Mathiya giri
tola

(Acreage)

DIVISION

(Sangram Pur)

SUB-DIVISION

Gen. Name: Virendra Singh

MEASUREMENT BOOK

24/05-24/05/11, 24/05-24/05/12

236/19-20

मीमहेन्द्र कुमार

प्रमाणित किया जाता है कि इसकापी
पुस्तिका में मशीन के द्वारा कुल 100
पृष्ठ अभिलेखित हैं। यह कापी पुस्तिका
मीमहेन्द्र कुमार, राहाडा का मे 0 का
निर्गत किया जाता है।

Executive Engineer
Rural Works Department
Works Division, Arera

29/8/19

236/19-20

Schedule XLV Form No.-134

अरराज

DIVISION

संग्रामपुर

SUB-DIVISION

MEASUREMENT BOOK

Name of officer मीमहेन्द्र कुमार

Date of first entry

Date of last entry

IIIa on A/C Bill and

Real Bill

Sch. XLV-Form No.134

16

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Name of Road + Mathiya Purabotola</u>					
<u>to Baita Mathiya Gori Tola 1=0.71Km</u>					
<u>Agency + Viswamdas Singh</u>					
<u>Agg. No. + 22 SBD/2019-2020</u>					
<u>Head + MMSX</u>					
<u>Date of start + 27/8/019</u>					
<u>Date of Completion + 25/5/2020</u>					
<u>Date of Ending +</u>					

Measurement

① Priming & applying Primer
12 cont with bitumen emulsion
etc do do cell etc

	10	30.0	3.75	-	= 1125.0m ²
	1	10.0	3.75	-	= 37.50 "
Extra work for filling channel A.E	2	13.0	0.45	-	= 11.70 "
				total	1174.20m ²

② Applying top coat
13 with bitumen emulsion
etc do do cell etc

	10	30.0	3.75	-	= 1125.0m ²
	1	10.0	3.75	-	= 37.50 "
Extra work for filling A.E	2	13.0	0.45	-	= 11.70 "
				total	1174.20m ²

③ Laying mix sand surf
14 cing with slate gravel

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Primaries etc do do do					
General	10	30.0	7.75	-	= 1125.0 m ²
do	1	10.0	3.75	-	= 37.50 m ²
A.B	2	13.0	0.45	-	= 11.70 m ²
					Total $\frac{Q}{12}$ = 1174.20 m ²

(4) Laying brick edge

Soiling on brick paved slab

~~Gravel etc do do do~~

General	2	10	30.0	0.375	-	= 225.0 m ²
do	2	3	30.0	0.375	-	= 67.50 m ²
A.B	2	1	10.0	0.375	-	= 7.50 m ²
						Total = 300.0 m ²

(5) E/W in road embankment

~~Shoulder etc do do do~~

~~E/W Bts on 1/4 C/S graph~~

~~Paper Qts.~~

Earth Work Bts Sheet

SN	Ch. (m)	Dist. (m)	Area (m ²)	Mean Area	Volume (m ³)
1	0	0	1.552	-	-
2	50	50	3.155	2.354	117.675
3	100	50	3.501	3.328	166.40
4	150	50	2.687	3.094	154.700
5	200	50	4.482	3.585	179.225
6	250	50	3.26	3.271	193.55
7	300	50	2.808	3.034	151.70
8	350	50	3.633	3.221	161.025
9	400	50	3.318	3.476	173.775

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	Volume
SX	th	Area (sq. m)	Area (sq. m)	Area (sq. m)	M ³
10	450	50	3.621	3.470	173.475
11	500	50	3.962	3.792	189.575
12	550	50	2.474	3.220	161.00
13	600	50	2.965	2.672	133.575
14	650	50	3.551	3.208	160.40
15	700	50	2.345	2.948	147.40
16	710	10	2.173	2.259	22.59
Total Q ₁ =					2286.065 m ³

Deduction :-

(i) For G.C.B = 1202.87 m³(ii) For W.P.M.C. = 1201.48 m³(iii) For C.C. Pavement = 242.91 m³(iv) For H.E./S. 300 x 300 = 74.20 m³Net Deduction = 1682.37 m³Net R/W Q₁ = (2286.065 - 1682.37) m³Net Q₁ = 1603.69 m³(5/5) R/W Q₁ for construction

Embankment with 100 m

1000 m as per Agg. Q₁

=

318.55 m³(6/6) R/W Q₁ for embankment

with 100 m

Q₁ as per Agg.= 743.29 m³(7/6) R/W Q₁ for subgrade

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
and eastern shoulder etc					
$Q_{15} = (No \times Q_{12} - (\frac{L}{2} \times \frac{B}{2}))$					
$= [168.67 - (318.55 + 74329)]$					
$= 546.85 m^3$					
Limit as per Agg.					
$\frac{Q_{15}}{2} = 455.68 m^3$					
(8/18) P/W R/F ordinary kerb					
etc etc - all - job					
$Q_{15} = 1 No$					
(9/19) S/P R kerb					
etc etc - all - job					
$Q_{15} = 3 No$					
(10/22) Painting on concrete surface					
etc etc - all - job					
2 B 20.0 0.10 -					$= 78.0 m^2$
2 I 10.0 0.10 -					$= 2.0 m^2$
					$80.0 m^2$
(11/23) Road Marking with hot					
applied thermoplastic compound					
with reflectorizing glass beads					
etc etc - all - job					
For B.T. 2 10 30.0 0.10 -					$= 60.0 m^2$
1 2 10.0 0.10 -					$= 2.0 m^2$
For C.C. 2 13 30.0 0.10 -					$= 78.0 m^2$
total 2 1 10.0 0.10 -					$= 2.0 m^2$
Continuation					
Total					$= 142.0 m^2$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$Q_{15} = 142.0m^2$
(12/29) P/V/F/F retro-reflective 600mm equilateral triangle					$Q_{12} = 8Nos$
(13/29) S/F/F 600mm circular retro reflective sign board					$Q_{13} = 4No$
(14/30) S/F/F 600mm x 450mm Rectangular sign board					$Q_{14} = 2No$
(15/31) S/F/F 900mm wide octagon etc de - de - all job					$Q_{15} = 02No$
(16/21) Painting two coats including primer coat after filling defects ce with synthetic enamel Paint etc de - de - job					
	9x2	6.20	1.8	-	$= 44.64m^2$
	2x4	0.40	0.60	-	$= 1.92m^2$
					$46.56m^2$
(17/26) S/F/F Maintenance coat etc de de - all - etc (17/26) = 01 No					
(18/27) Laying brick ceiling on edge of floor etc de - de - all complete job					
	2	13	30.00	0.75	$= 292.50m^2$
	2	1	10.00	0.375	$= 7.50$
					$292.50m^2$
Continuation					
5/5/026					
JB					
21.05.00					
N.E.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
1) Construction of working bench sharp poles etc do - do - job Qty wide TMBP - 12 0.7 Km @ R 11071.82/Km R 7861.00					
2) Construction of Reference Pole etc do - do - all - complete job Qty wide TMBP - 12 0.71 Km @ R 10262.20/Km R 7286.00					
3) Clearing & grubbing row land etc do - do - all job Qty wide TMBP - 12 0.21 Ha of @ R 49809.75/Ha of R 10460.00					
4) Construction of embankment with 1.5 m room etc do - do - job Qty wide TMBP - 18 318.55 M ³ @ R 187.92/M ³ R 59862.00					
5) Construction of subgrade earth shoulder etc do - do - job Qty wide TMBP - 19 546.455.68 M ³ @ R 189.20/M ³ R 86,488.00					

Continuation

B/F R 171957=0

Sch. XLV-Form No.134

22

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{6}{7}$) Construction of road embankment with level road etc Rt's wide TMB P-18 743.29 m ³ @ R 143=08/m ³ R 106350=00					
($\frac{7}{8}$) Box cutting in roadway etc do do all complete etc Rt's wide TMB P-12 62.55 m ³ @ R 82=01/m ³ R 5130=00					
($\frac{8}{9}$) P/V & laying bricks on edge hand shoulder etc do do all etc Rt's wide TMB P-17 300.10 m ² @ R 499=47/m ² R 149841=00					
($\frac{9}{10}$) Construction of granular subbase with well graded material etc do do etc Rt's wide TMB P-13 201.487 m ³ @ R 3720=56/m ³ R 755298=00 203.01					
($\frac{10}{11}$) P/V & laying above existing W.B.M. or stone metal concrete etc do do etc Rt's wide TMB P-13 201.487 m ³ @ R 4611=41/m ³ R 929058=00					

Continuation

O/P R 2117, 6341-00

Sch. XLV-Form No.134

23

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11/2) Paving along Pinner Coast with bitumen emulsion (SS) etc do do all job Qty wide TMB P-16 1174.20 m ² unit 1174.13 m ² 1174.13 m ² @ R 52=31/m ² R 61419=00					
(12/13) P/V tapping along tap coat with emulsion, etc Qty wide TMB P-16 1174.20 m ² unit 1174.13 m ² 1174.13 m ² @ R 1895/m ² R 22249=00					
(13/14) P/V laying Mix seal Surfacing etc do do all complete job Qty wide TMB P-17 1174.20 m ² unit 1174.13 m ² 1174.13 m ² @ R 261=50/m ² R 307035=00					
(14/15) Construction of unrunner C.C. Pavement etc Qty wide TMB P-14 242.40 m ³ @ R 8017=59/m ³ R 1943464=00					
(15/16) P/V P/F ordinary Km Post etc do do job Qty wide TMB P-19					

Continuation

O/P R 2117, 6341-00

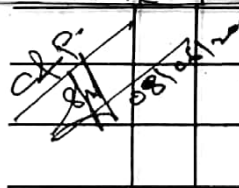
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
91 No @ R 2775 = 26/No				R	2776 = 00
(¹⁶ / ₁₉) 3/4 1/2 200m stone (Pneum)					
etc do - do - all - 16					
Qty wide TMB P - 19					
3 Nos @ R 736 = 24/No				R	2209 = 00
(¹⁷ / ₂₀) 5/4 1/2 Boundary line etc					
do - do - all - complete job					
Qty wide TMB P - 15					
14 Nos @ R 568 = 34/No				R	7956 = 00
(¹⁸ / ₂₁) Painting two coats					
on new surface etc					
do - do - all - job					
Qty wide TMB P - 20					
46.56m ² @ R 108.90/m ²				R	5074 = 00
(¹⁹ / ₂₂) Painting on Concrete					
surface etc do - do - job					
Qty wide TMB P - 19					
80.0m ² @ R 103.06/m ²				R	8245 = 00
(²⁰ / ₂₃) Road Marking with hot					
applied thermoplastic paint					
Qty wide TMB P - 19					
142.10m ² @ R 85.280/m ²				R	120955 = 00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{21}{28}$) P/W R/F MM4 CYSTON board etc do - 1 job Qty wide TMBP-13 2 Nos @ 11583=37/No 6 23167=00					
($\frac{22}{26}$) P/W R/F Maintenance sign board etc do - 1 job Qty wide TMBP-13, 20 2 No @ 11583=37/No 6 23167=00					
($\frac{23}{28}$) S/F R/F 600mm Regulator triangle sign board etc Qty wide TMBP-20 2 Nos @ 14038=8/No 6 32312=00					
($\frac{24}{29}$) S/F R/F 600mm Regulator sign board etc do - 1 job Qty wide TMBP-20 4 Nos @ 5416=70/No 6 5416=00					
($\frac{25}{30}$) S/F R/F 600mm x 415mm rectangular sign board etc Qty wide TMBP-20 2 Nos @ 4634=62/No 6 9269=00					
($\frac{26}{31}$) S/F R/F 900mm side cct sign etc do - do - all - job Qty wide TMBP-20					

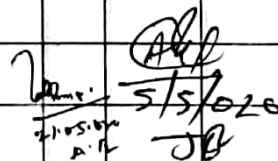
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
08 No. 01 278230/No					17566=00
(27/32) Priming & Laying s/p					
30mm ϕ Plumb Pipe etc					
At 5 wide TMBP-15					
15.0M @ 254206/m					12811=00
					R 4722,724=11
10% Less for below Rate					R 4722,722=00
					R 4250,452=00
Less for previous Page					
Wide TMBP - 10, 15					R 3504210=00
Net					R 746,242=00
Work Completed					


 21.05.00
 A. B.
 5/5/020
 JB

Material Statement

- (i) Brack $\div$ 14140 m
- (ii) L/sand $\div$ 9.13 m³
- (iii) Bitumen (S.G.) $\div$ 2.231 mt
- (iv) Emulsion (S.G.) $\div$ 0.998 MT
- (v) Emulsion (R.S.) $\div$ 0.723 M.T.


 21.05.00
 A. B.
 5/5/020
 JB

Continuation