

MMGSY - To 3 to konduchik rix kusumbha
(sc) **Schedule XLV-Form No. 134**

Ag.No - 43 SBD/2021-22

Shorgathi

DIVISION

Jobti

SUB-DIVISION

Name of Agency:- Namdebayadan

(395)

MEASUREMENT BOOK

Certified that this M.B. contains
01 to 100 pages by machine printed
this M.B. is issued to Sri Brajkishore
Prasad A.E. R.W.D. Works Sub Div. Jabli


Executive Engineer
R.W.D. Works Division
Sherghati

31/3/22

Sch. XLV - Form No. 134

Sherghati DIVISION
Doshi SUB-DIVISION

Measurement Book

No. 1395

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)

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

Date of W.O.— 29/1/22

Date of Completion— 28/1/23

Date of measurement— 25/3/23

1. Construction of embankment with all types of soil as per drawing and technical specification.

Change	Area	Mean Area	Length	Volume
in	in m ²	in m ²	in m	in m ³
0m	3.5			
100m	3.2	3.35	100	335
200m	3.4	3.3	100	330
300m	3.2	3.3	100	330
400m	3.6	3.4	100	340
			C.P.	1330

Continuation

Particulars	Details of actual measurement			Contents of area
	No	L	B	
boards	Area	Length	Width	Volume
			(B)	13 m
500m	3.40	3.50	100	350m ³
600m	3.20	3.30	100	330m ³
700m	3.60	3.40	100	340m ³
800m	3.40	3.50	100	350m ³
900m	3.60	3.50	100	350m ³
1000m	3.2	3.40	100	340m ³
1100m	3.2	3.50	100	350m ³
1200m	3.6	3.70	100	370m ³
1300m	3.2	3.40	100	340m ³
1400m	3.6	3.40	100	340m ³
1500m	3.5	3.50	100	350m ³
1600m	3.2	3.65	100	365m ³
1700m	3.2	3.5	100	350m ³
1800m	3.6	3.4	100	340m ³
1900m	3.4	3.5	100	350m ³
2000m	3.2	3.3	100	330m ³
2100m	3.6	3.4	100	340m ³
2200m	3.2	3.4	100	340m ³
2300m	3.6	3.40	100	340m ³
2347m	3.4	3.5	47	164.50
Total				7969.50 m ³

2. Construction of Subgrade

and common should be 23.70+

Length of road 4 wide base - 2 m side 10 m No
 $70.1 \times 7969.50 \text{ m}^3 = 55786.5$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3. Construction of embankment with material obtained from with leads - 1000m -					
14.18.1. E/W of item No-① Rate-② of T.M.B. 14.18.1. x 7969.50m ²					
				=	1130.08m ²
4. Construction of embankment with approved material obtained from Borrow pits with leads 100m as per specification. 15.82.1. E/W of item No-① Rate-② of T.M.B. on 15.82.1. x 7969.50 = 1260.77m ²					
5. Construction of granular Sub-base by providing well graded material as per specification.					
In C.C. road portion:-					
20x25m x 3.75 x 0.10 = 187.50m ²					
In Highway:- 2x2x21M x 1.32 x 0.10 = 11.09m ² 2x21x21M x 1.32 x 0.10 = 11.09m ²					
200m thick B.T. Portion:-					
70x25m x 4.05 x 0.20 = 1417.50m ²					
1x8m x 4.05 x 0.20 = 6.48m ²					
					1163.66m ²

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Particulars	Details of actual measurement				Content of area
	No.	L.	B.	D.	
6. Providing laying spreading and compacting Stone metal grade-III in road as per specification					
In c.c. road portion:-					
		20x25m	3.75	0.075	= 140.6
In Widening		2x2x21x1.32		0.075	= 8.3
		2x2x21m	3.87	0.075	= 8.32
In B.T. portion -					
		70x25m	3.75	0.075	= 492.1
		1x8m	3.75	0.075	= 2.25m
					667.71m

C.D. WORK

7. Earth work in excavation for foundation & trenches as per specification.

$$F/W:- 3 \times 2 \times 6.30 \times 1.4 \times 1.5 = 79.38m^3$$

$$Pipe Portion:- 3 \times 5.9 \times 1.5 \times 0.30 = 7.98m^3$$

$$In Abut:- 1 \times 2 \times 7.6 \times 2.47 \times 1.6 = 60.07m^3$$

$$R/W:- 4 \times 1.430 \times 2.287 \times 1.60 = 20.93m^3$$

$$168.36m^3$$

8. Providing plain concrete in upon foundation as per specification. P.C.C. M20.

$$F/W:- 3 \times 2 \times 6 \times 1.025 \times 1.35 = 49.82m^3$$

$$3 \times 5.9 \times 1.5 \times 0.25 = 6.64m^3$$

$$R/W:- 4 \times 1.430 \times 2.287 \times 1.4 = 14.31m^3$$

$$Abut:- 2 \times 6.8 \times 2.97 \times 1.4 = 37.51m^3$$

$$108.28m^3$$

9. Providing plain concrete in upon foundation for levelling course as per specification.

$$F/W:- 3 \times 2 \times 6.30 \times 1.4 \times 1.5 = 7.94m^3$$

$$Abut:- 2 \times 7.6 \times 2.47 \times 0.20 = 6.64m^3$$

$$R/W:- 4 \times 1.430 \times 2.287 \times 0.20 = 20.93m^3$$

$$18.07m^3$$

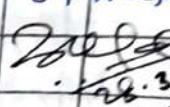
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				10.14.31	
R/W: - 4 x 1.430 x 1.757 x 1.4014.31					
9. Providing wearing course Concrete p.c.c. grade m20 in Sub structure as per specification.					
F/W: 3 x 2 x 6 x 0.533 x 1.8 = 34.54 m ³					
: 3 x 2 x 6 x 0.40 x 0.60 = 8.64 m ³					
Abut: - 2 x 6 x 1.085 x 2.310 = 30.08 m ³					
R/W: 4 x 1.915 x 0.844 x 2.660 = 17.20					
					90.46 m ³

10. Reinforced Cement Concrete in Substructure as per specification.					
R/W Coping: - 4 x 2.30 x 0.40 x 0.150 = 0.55 m ³					
Abut Cap: - 2 x 6 x 0.70 x 0.20 = 1.68 m ³					
Dirt Wall: - 2 x 6 x 0.40 x 0.30 = 1.44 m ³					
Parapet: - 2 x 3.80 x 0.40 x 0.45 = 1.30 m ³					
Keel: -					4.97 m ³

11. Supplying, fitting and placing HYSD bar reinforcement in Super Structure as per specification: 16mm dia (Bottom member)					
59 x 3.60 = 214.40 m					
@ 1.58 kg/m					335.5 kg

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
12. Provisioning and laying Reinforced Cement Concrete for Super structure as per specification.					
1x6x3.6x0.30					=6.48m ³
13. Provisioning and laying Cement Concrete ISIRI Mark					
Hum Pipe 100mm dia.					22.50m
3x3x2.5m					=22.5m
14. Filling in foundation trenches as per drawing and technical specification					
					19.58m ³
F/W 3x2x6x0.405					=24.86m ³
Around Pipe:- 3x6.30x1.5x0.9					=25.52m ³
					40.10m ³
Less pipe post hole:- 3x6.30x0.91					=17.19m ³
					22.91m ³
15. Back filling behind Abutment, wing wall and R/W as per specification					
					19.49
Sand: 3x2x1.915x4.314x2.310					=49.49
Trench:- 2x6m x 2.4 x 0.66					=19.45
					38.14m ³
<u>Drain</u>					
16. Construction of Benchmark and reference pillars -					
9x3x25m					2325m
1x22m					=22m
					2347m
					m, 2.347KM.

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
17. Construction of Barriers Boundary vide Page - ⑦ Same as item no (16) —					2.347 km
18. Clearing and grubbing Road land as per Specification.					
93 x 25 m x 7					= 16275 m ²
1 x 22 m x 7					= 154 m ²
					16429 m ²
OR —					1.64 Hectare.
 28/3/22 SI					 28.3.22 AE

Test on the Bill

Name of work: - Construction
of road from T03 to Ken
dua doli via Kuthamba
under MMLGS scheme

Name of Agency — Narendra
Yadav

Ag. No - 47500/21-22

Date of W/O: - 29/11/22

Date of completion: - 28/1/23

Date of measurement: - 15/1/22

1. Construction of unreinforced
Cement Concrete Pavement

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
in road as per specification.					
$1 \times 15m \times 3.75 \times 0.150$					$= 8.44m^3$
$8 \times 25m \times 3.75 \times 0.160$					$= 120m^3$
$8 \times 25m \times 3.75 \times 0.160$					$= 120m^3$
$2 \times 25m \times 3.75 \times 0.160$					$= 30m^3$
$4 \times 30m \times 3.75 \times 0.160$					$= 72m^3$
$1 \times 10m \times 3.75 \times 0.160$					$= 6m^3$
					<u>$356.44m^3$</u>

02. Reinforced concrete m/s grade
Km Stone and 200m

Stone as per specification.

(i) Ordinary Kilometre

Stone — 1×4 — 4 No.

(ii) 200m Stone — 1×9 — 9 No.

03. Painting and fixing
M.M.B.S.Y. Sign Board and
Logo of M.M.B.S.Y. Project
as - Citizen Information
Board, Logo Board
and Maintenance Board

1×3 No — 3 No.

04. Retro-reflectorised
Traffic Sign

(i) 600mm circular — 1×10 — 10 No.

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
(22) 600MM equilateral triangle - 1x18m -					18m
(22?) - 600MM x 450MM rectangular -					
		1x10			10m.
(vii) 900MM side set off					
hal -					2m.
5. Supplying fitting and placing HySD					
27 Drain as per specification?					
8mm - 1000x1.78m = 1940.2m					
@ 0.3968/m					756.66kg
6. Providing plate concrete on					

Open form work as per drawing and technical spec -
 $600 \times 1.79 \times 0.15 = 16.11 \text{ m}^3$

7. Laying cement concrete pipe work -

$$12 \times 3 \times 2.5 \text{ M} = 90.0 \text{ m}.$$

[Signature]
 15/5/22
 OS

[Signature]
 15/5/22
 PE

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

ABSTRACT OF COST

12) construction of B.M.

Quantity vide Rate

— (7), 2.347 km.

@ RS. 489273/km RS. 1148320

(22) Construction of Reference Buried

Quantity vide Rate

— (7) — 2.347 km.

@ RS. 3339.90/km RS. 7839:

2. clearing and grubbing Road Land survey

vide Rate- (8).

1.64 Hectare.

@ RS. 51,165.75/Hect RS. 83911:

3. Construction of embankment with approved

material with lead-100m

Quantity vide Rate- (3)

1130.08 m³ @ RS. 190.22/m³ RS. 214958:

4. Construction of embankment with lead-100m

Quantity vide Rate- (3)

1260.77 m³ @ RS. 154.39/m³ RS. 195,407:

5. Construction of Subgrade

and earthen shoulder

vide Rate- (2), 5578.65 m³

@ RS. 198.57/m³

RS. 1107753:

— RS. 1621351

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

B/R RS. 1621351

6. Construction of granular sub-base by providing well graded material as per specification.

Quantity vide Page- (3).

1633.66 m³ @ RS. 1911.07/m³ RS. 3122039

7. Providing laying spreading and compacting stone metal grade-III in road as per specification.

Quantity vide Page- (4). 651.71 m³

@ RS. 2701.28/m³ RS. 1760451

8. E/W in excavation in foundation trenches.

Quantity vide Page- (4) - 168.36 m³

@ RS. 294.73/m³ RS. 49621

9. Providing Plain Concrete P.C.C. MIS in foundation

as per specification

Quantity vide Page- (4)

18.07 m³ @ RS. 4364.82/m³ RS. 78,872

10. Providing Plain Concrete P.C.C. M20 in foundation

as per spec. Quantity vide Page-

(4) - 108.28 m³ @ RS. 4598.86/m³ RS. 497965

C O RS. 71,731,681

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B/F RS-71,73,681=
11. Providing Plain Concrete P.C.M 20 in substructure as per sp ¹⁶ Quantity vide Rate - (5) - 90.46 m ³					@ RS. 5027.56/m ³ RS. 454793=
12. Providing and Laying ISI Mark cement concrete Hume Pipe. Quantity vide Rate - (7), 225 m @ RS. 5932.67/m ³ 88485=					RS. 58990=
13. Filling in foundation trenches Quantity vide Rate - (7) - 22.91 m ³					@ RS. 531.80/m ³ RS. 12184=
14. Back filling Behind Abutment and wing Wall as per Quantity vide Rate - (7) 38.14 m ³ @ RS. 804.57/m ³ RS. 30686=					
15. Providing R.C.C in substructure as per drawing and technical sp ¹⁶ Quantity vide Rate (5), 4.97 m ³ @ RS. 5288.07/m ³ RS. 2628=					
					C. ORG. 77,86,111

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16. Supplying fitting fixing and placing HYSD bar in Super structure Quantity vide Rate- (6), 863.66kg or, 0.8636 MT limited — 0.859 MT, @ RS. 57243.26/MT RS. 49172-					778611

17. Providing and reinf cement concrete laying in Super structure Quantity vide Rate- (7), 6.48m ³ @ RS. 6031.16/m ³ RS. 39082-					
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18. Construction of unreinforced cement concrete Pavement on road over R/R Quantity vide Rate- (8), 356.44m ² @ RS. 5455.02/m ² RS. 1944387-					
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19. Supplying fitting and placing HYSD bar - Deck Quantity vide Rate- (10) 756.68kg or, 0.75668 MT. @ RS. 55942.41/MT RS. 42330-					
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20. Providing Reinforced Cement concrete bar in road in road vide Rate- (10) R.C.C. Grade - M20 - 16mm @ RS. 5063.37/m ³ RS. 81571:00 Continuation @ RS. 9942653-					
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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
21. Reinforced concrete MIS grade KM stone and 200mm	18 No.			9942653
(22) Dr. Jangy KM stone				
vide Page - (9) - 4 No.				
@ RS. 2313.48 each				RS. 9274.5
(22) 200mm stone vide Page				
- (9) - 9 No.				
@ RS. 629.51 each				RS. 5665.59
22. Paving and flag of typical mmbsy for				
laboratory, Citizen's Laboratory				
and maintenance shed				
vide Page - (9) - 30 No.				
@ RS. 9463.31 each				RS. 28390.5
23. Paving and flag				
of retro reflective Cautionary				
men data.				
(2) 600mm error vide Page				
- (9) - 10 No.				
@ RS. 4703.89 each				RS. 47039.5
(2) 600mm equilateral				
triangle - vide Page - (10)				
18 No.				
@ RS. 3523.58 each				RS. 63424.5
(22) 600mm x 450mm rect				
angular - vide Page - (10)				
Total				RS. 4574.49 each
				RS. 45745.5
(4ii) 900mm side octagonal				
vide Page - (10) - 2 No.				
@ RS. 8128.70 each				RS. 16257.5
				RS. 1015844

Continuation

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

R/P/R/S 10152447

24. Laying cement

concrete pipe NPS

on dirt class Bedding

utility pipe - 300 mm dia

Pipe Excavate wide Pipe

10. 90.00M

@RS. 786.92/M

708225

295102

R1. 10187957

10229269

Add L. Labour cross and 12 ft.

G-S-T

@RS. 13,29,805

RS. 11559074

Less 3.10.1 below 358331

RS. 11200743

2. 15.12

15.12