

REO Road to RCD Road.

PMGSY-NDB-BRRP-416-Tekari

Schedule XLV Form No. 134.

E. E. R. W. D

TIKARI
DIVISION

A. E. R. W. D

SUB-DIVISION
Govari

m/s m99 Shanti construction

Measurement Book

1026

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				Contents of area
	No.	L.	B.	D.	
1st on A/c Bill					
Name of work - Construction & Maintenance of Road from RFO Road TO RCD Road					
Name of Agency - M/s Maa Shanti Construction Sri Ram bisha Gururua					
Agreement No - 145BDMMSY NDR/2023-24					
D/work order - 17/10/2023					
D/work completion - 16/10/2024					
Record Entry					
Date of Entry 13/12/2023					
1/i) providing and fixing bench mark pillar					
Total Qty					2.0 NOS
2/i i) providing and fixing Reference pillar					
Total Qty					6.0 NOS
3/2 Clearing and grubbing road land by manual					
6 X 30.0 X 3.65 =					657.0 M ²
7 X 30.0 X 4.30 =					903.0 "
8 X 30.0 X 3.40 =					816.0 "
9 X 30.0 X 2.90 =					783.0 "
					Cto 3159.0 M ²

Continuation

4/35	providing and laying of reinforced pcc pipe Duct 800mm Total Qty 8.0 RM.
5/25	Earth work in excavation for foundation str H/Wall $2 \times 2 \times 3.90 \times 1.15 \times 1.50 = 26.91 M^3$ Below pipe $2 \times 1 \times 5.35 \times 1.13 \times 0.365 = 4.41 "$
6/26	providing pcc M15 H/Wall $2 \times 2 \times 3.90 \times 1.15 \times 0.150 = 2.691 M^3$ Below pipe $2 \times 1 \times 5.31 \times 1.13 \times 0.250 = 3.0 "$
Continuation Total Qty 5.691 M ³	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7/27 providing pcc H & oin Substructure do do					
H/Wall					
$2 \times 2 \times 3.60 \times \frac{1.0 + 0.790}{2} \times 1.35 =$					17.398 M ³
Sumit 13/12/2023 J/E					
16/12/23 AE					
Record Entry					
Date of Entry - 24/12/2023					
1/28 providing and laying Np3 guttering &					
$2 \times 3 \times 2.50 =$					15.0 M
2/27 providing pcc H & oin Structure do do					
H/Wall					
$2 \times 2 \times 3.60 \times \frac{0.790 + 0.40}{2} \times 0.830 =$					7.11 M ³
parapet					
$2 \times 2 \times 3.60 \times 0.40 \times 0.60 =$					3.456 M ³
Less for pipe opening					
$2 \times 2 \times 0.785 \times (0.830)^2 \times 0.530 = (-) 1.146 M^3$					
Nat Qty					9.420 M ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Earth work cut					
Distance			Area cut m^2		Volume m^3
0.00	0.00	0.910			0.00 m^3
50.0	50.0	0.894			45.100 "
100.0	50.0	0.860			31.350 "
150.0	50.0	0.833			19.830 "
200.0	50.0	0.815			14.950 "
250.0	50.0	0.800			4.130 "
300.0	50.0	0.800			0.00 "
350.0	50.0	0.773			4.330 "
400.0	50.0	0.800			4.330 "
450.0	50.0	0.828			0.700 "
500.0	50.0	0.849			1.930 "
550.0	50.0	1.527			39.400 "
600.0	50.0	0.429			48.900 "
650.0	50.0	0.058			12.18 "
700.0	50.0	0.00			1.450 "
750.0	50.0	0.00			0.00 "
800.0	50.0	0.00			0.00 "
850.0	50.0	0.096			2.400 "
900.0	50.0	0.351			11.180 "
950.0	50.0	0.00			8.780 "
1000.0	50.0	0.00			0.00 "
1050.0	50.0	0.00			0.00 "
1100.0	50.0	0.393			9.830 "
1150.0	50.0	0.403			19.900 "
1200.0	50.0	0.00			10.080 "
C/O 290.75 m^3					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BF	290.75 M ³
1250.0	50.0	0.00			0.00 "
1300.0	50.0	0.029			0.730 "
350.0	50.0	0.004			0.830 "
400.0	50.0	0.000			0.100 "
750.0	50.0	0.087			2.180 "
500.0	50.0	0.015			2.550 "
750.0	50.0	0.367			9.550 "
00.0	50.0	0.00			9.180 "
50.0	50.0	0.088			2.200 "
700.0	50.0	0.281			9.230 "
720.0	20.0	0.315			5.960 "
					151.40 333.26 M ³
3/3	Excavation in soil using hydraulic excavator				Total Qty 333.26 M ³
1/4	Construction of embankment with Material obtained of 60% cut qty -				333.26 X 60% = 199.95 M ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Earth work filling quantity</u>					
<u>chainage</u>	<u>dist -</u>	<u>Area in M²</u>	<u>Avg Area M²</u>		<u>Volume M³</u>
0.00	0.00	1.001	0.00		0.00
50.0	50.0	2.308	1.655		82.725
100.0	50.0	2.509	2.409		120.425
150.0	50.0	1.941	2.225		111.25
200.0	50.0	2.879	2.410		120.500
250.0	50.0	1.850	2.365		118.225
300.0	50.0	1.393	1.622		81.075
350.0	50.0	1.921	1.657		82.85
400.0	50.0	1.682	1.802		90.075
450.0	50.0	1.879	1.780		88.975
500.0	50.0	1.768	1.823		91.125
550.0	50.0	2.055	1.912		95.575
600.0	50.0	1.102	1.579		78.925
650.0	50.0	1.965	1.534		76.675
700.0	50.0	1.362	1.664		83.175
750.0	50.0	2.468	1.915		95.75
800.0	50.0	1.551	2.010		100.475
850.0	50.0	1.216	1.384		69.175
900.0	50.0	2.286	1.751		87.55
950.0	50.0	0.00	1.143		25.146
1000.0	780.0	0.00	0.00		0.00
1050.0	50.0	0.00	0.00		0.00
1090.0	40.0	0.00	0.00		0.00
1150.0	60.0	1.154	0.577		34.620
1200.0	50.0	1.167	1.161		58.025
1250.0	50.0	1.196	1.182		59.075
Total					1851.391 M ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					1851.391 M ³
1380.0	50.0	1.059	1.128		56.375 "
1350.0	50.0	1.438	1.249		62.425 "
1400.0	50.0	1.208	1.323		66.150 "
1450.0	50.0	1.202	1.205		60.250 "
1500.0	50.0	1.303	1.253		62.625 "
1550.0	50.0	1.011	1.157		57.850 "
600.0	50.0	1.212	1.112		55.575 "
650.0	50.0	1.516	1.364		68.200 "
700.0	50.0	1.309	1.413		70.625 "
720	20.0	1.235	1.272		25.440 "
					Totality 2436.906 M ³

1/5 Construction of embankment
with approved Material
up to 100 M Road -
 $2436.906 \times 40\% = 974.76 \text{ M}^3$

2/6 Construction of embankment
with approved Material
obtained from borrow pits
up to 100 M Road -
 $2436.906 \times 60\% = 1462.14 \text{ M}^3$

3/7 Construction of subgrade
and earthen shoulder
 $9 \times 30.0 \times 7.95 \times 0.30 = 643.95 \text{ M}^3$
 $8 \times 30.0 \times 7.90 \times 0.30 = 568.80 "$
 $6 \times 30.0 \times 7.80 \times 0.30 = 421.20 "$
Totality 1633.95 M³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BF	1633.95 M ³
	3X	30.0X	7.60X	0.30	205.20 "
	5X	30.0X	6.35X	0.30	285.75 "
	1X	22.0X	6.0X	0.30	39.60 "
	9X	30.0X	7.90X	0.30	639.90 "
	8X	30.0X	7.85X	0.30	565.20 "
	3X	30.0X	7.95X	0.30	214.65 "
				Total	3589.25 M ³
8	Construction of G.S. R by providing well graded				
	Material as per				
	1X	30.0X	$\frac{6.30+5.10+4.10}{3}$	0.20	30.90 M ³
	8X	30.0X	4.05X	0.20	194.40 "
	4X	30.0X	4.05X	0.20	97.20 "
	1X	30.0X	$\frac{4.05+5.0+4.05}{3}$	0.20	26.19 "
	6X	30.0X	4.05X	0.20	145.80 "
	1X	30.0X	$\frac{4.05+5.10+4.05}{3}$	0.20	26.40 "
	1X	30.0X	$\frac{4.05+5.0+4.05}{3}$	0.20	26.19 "
	2X	30.0X	4.05X	0.20	48.60 "
	1X	30.0X	$\frac{4.05+5.40+4.05}{3}$	0.20	27.0 "
	1X	30.0X	4.05X	0.20	24.30 "
	1X	30.0X	3.75X	0.10	11.25 "
	1X	30.0X	$\frac{3.75+5.80+3.75}{3}$	0.10	13.29 "
	2X	30.0X	3.75X	0.10	22.50 "
	1X	30.0X	$\frac{3.75+5.70+3.75}{3}$	0.10	13.20 "
	1X	22.0X	3.75X	0.10	8.25 "
				Total	715.47 M ³

Continuation



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BF	715.47 M ³
old pcc (168.0 M)					
1x 30.0x4.25x0.200 =					24.30 "
1x 30.0x $\frac{4.05+5.0+4.05}{3}$ x 0.200 =					26.19 "
9x 30.0x4.05x0.200 =					218.70 "
8x 30.0x4.05x0.200 =					194.40 "
1x 30.0x $\frac{4.05+6.10}{2}$ x 0.200 =					30.45 "
				Total Qty	1209.51 M ³
				Limit	1205.95 M ³
providing laying spalling and Compacting work Mon					
As per all Com. Job					
1x 30.0x $\frac{6.10+4.90+3.75}{3}$ x 0.075 =					11.06 M ³
8x 30.0x3.75x0.075 =					67.50 "
4x 30.0x3.75x0.075 =					33.75 "
1x 30.0x $\frac{3.75+5.0+3.75}{3}$ x 0.075 =					9.37 "
6x 30.0x3.75x0.075 =					50.62 "
1x 30.0x $\frac{3.75+5.0+3.75}{3}$ x 0.075 =					9.37 "
1x 30.0x $\frac{3.75+5.0+3.75}{3}$ x 0.075 =					9.37 "
2x 30.0x3.75x0.075 =					16.87 "
1x 30.0x $\frac{3.75+5.10+3.75}{3}$ x 0.075 =					9.45 "
2x 30.0x3.75x0.075 =					16.87 "
1x 30.0x $\frac{3.75+5.20+3.75}{3}$ x 0.075 =					9.52 "
2x 30.0x3.75x0.075 =					16.87 "
1x 30.0x $\frac{3.75+5.20+3.75}{3}$ x 0.075 =					9.52 "
1x 22.0x3.75x0.075 =					6.18 "
				C/O	276.32 M ³

Continuation



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BF	276.324 ³
		old pcc	168.0H		
	1X	30.0X	3.75X	0.075	8.43 "
	1X	30.0X	$\frac{3.75+5.0+3.75}{3}$	X 0.075	9.37 "
	9X	30.0X	3.75X	0.075	75.93 "
	8X	30.0X	3.75X	0.075	67.50 "
	1X	30.0X	$\frac{3.75+6.0}{2}$	X 0.075	10.96 "
				Totally	448.51 M ³
				Limit	445.23 M ³
5/16	providing and fixing of typical M.M. work board do do etc				
				Totally	2.0 NOS

~~26/02/24~~
J.E

~~28/02/24~~
AC

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st on A/c Bill					
Name of work - Construction & Maintenance of Road from REO Road TO RCD Road					
Name of Agency - M/s. Meera Shanti Construction Sri Ram bha Gurua					
Agreement No - 145BDMHUSY NDB/2023-24					
D/Work order - 17/10/2023					
D/Work completion - 16/10/2024					
Abstract of cost					
Date of Entry - 26/02/2024					
1/ii) providing and fixing bench mark pillar					
2.0 Nos Qty vid TMSP 1 Item (1)					
@ 4229.22 each RS					8458=00
2/iii) providing and fixing reference pillar					
6.0 Nos Qty vid TMSP 1 Item (2)					
@ 1953.98 each RS					11724=00
3/2 cleaning and grubbing road land d-do -					
1.0285 Hrc Qty vid TMSP 2 Item (3)					
@ 72639.95 Hrc RS					74710=00
4/35 providing and laying Rce pipe 300mm Ø					
8.0 M Qty vid TMSP 2 Item (4)					
@ 10827.50 M RS					86620=00
					CLOS 181512=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BFB	181512=00
5/25 Earth work in excavation for foundation					
31.32 M ³ qty vide TMB p 2 Item ⑤					
@ 383.28/M ³				Rs	12004=00
6/26 providing pcc M15 in open foundation					
1.691 M ³ qty vide TMB p 2 Item ⑥					
@ 5966.88/M ³				Rs	33958=00
7/27 providing pcc M20 in substructure					
7.398 M ³ qty vide TMB p 3 Item ⑦					
1.420 M ³ qty vide TMB p 3 Item ②					
				@ 6946.29/M ³	Rs 186286=00
8/28 providing and laying NP 3600mm d d/c					
15.0M qty vide TMB p 3 Item ①					
@ 3191.29/M				Rs	47869=00
9/3 Excavation in soil using hydraulic excavator					
333.26 M ³ qty vide TMB p 5 Item ③					
@ 100.17/M ³				Rs	33383=00
10/4 Construction of embank with approved Mattn d					
199.95 M ³ qty vide TMB p 5 Item ④					
@ 58.56/M ³				Rs	11709=00
				C OB	506721=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BFW 506721=00
1/5 Construction of embankment with approved Material up to 100M load -					
74.76M ³ Qty vide TMSP 7 Item (1)					
@ 171.09/M ³					166772=00
2/6 Construction of embankment with approved Material up to 1000M load -					
462.14M ³ Qty vide TMSP 7 Item (2)					
@ 253.57/M ³					37075.5=00
3/7 Construction of Subgrade and earthen shoulder					
3584.25M ³ Qty vide TMSP 8 Item (2)					
@ 256.93/M ³					920901=00
14/8 Construction of C.S.B by providing 100/1 graded Material					
1205.95M ³ Qty vide TMSP 9 Item (4)					
@ 2148.34/M ³					2590791=00
15/9 providing laying spreading and compaction with 100/1					
445.23M ³ Qty vide TMSP 10 Item (5)					
@ 3204.91/M ³					1426922=00
16/16 providing & fixing 440x80 information board					
2.0 Nos Qty vide TMSP 10 Item (6)					
@ 5604.57 each					11209=00
					C10B 5994071=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			18F B		5224 071=00
Add On. S.T 18 1/2	(+)				1078 933=00
Add L. C. 38 1/2	(+)				59941=00
Add S. C. 18 1/2	(+)				173744=00
Total					7306689=00
Less 10% below as per M	(-)				730669=00
Total					6576020=00
Summed 26/02/24 J.E.			Summed 28/02/24 A.E.		Summed 29/02/24 A.E.

Material statement (S.F)					
Earth work - 6021.15 M ³					
@ 3.50/M ³ Rs 21074=00					
G.S.B 1205.95 M ³					
@ 74.57/M ³ Rs 89928=00					
WBM Gravel 44523 M ³					
@ 140.92/M ³ Rs 62742=00					
Summed 26/02/24 J.E.			Summed 28/02/24 A.E.		