

21012, ar. M/S MAA CONSTRUCTION

(iii) MR 3054 गीतार अच्युत - WKT to Belbani Road

M/S maa Const.

Measurement Book

Schedule XLV-Form No. 134

Ram Lal Purohit DIVISION

Jaykumar SUB-DIVISION

M. G. NO-216.
2019-20

પ્રમાણિત વિભાગ દ્વારા જે બિલ રૂ. ૩૫ માપે
પ્રદેશ પંક્તિ ને મણીસ દ્વારા મુદ્દિ, રૂ. ૧૦૦
(સાચી) પાસે જે સહાનુભૂત અભિનંદન
પ્રાપ્તિ બાદ વિભાગ, બાદ અવર પડે,
મોલદે બો નિર્દેશ છે.

૨૦૨૦
૧૨/૪/૨૦
Executive Engineer
Rural Works Department
Works Division Phulparas
15.4.2020

Sch. XLV-Form No. 134

Phul Paras DIVISION
Day Kanti SUB-DIVISION

Measurement Book

No. 216.
2019-20

Name of officer

Executive Engineer

Rural Works Department

Works Division Phulparas

Date of first entry

Date of last entry

(ii) MA 3054 મેનર ગ્રેડેડ- WKT to Buddani Road

No. and date of agreement.
(These four lines are for the use of the

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work:- Maintenance work of road WKT to Beldasi under MOR (BOSG)					
Name of Agency M/S Ma Construction					
Agreement No. BO MRD/2019-20					
Date of Commencement:- 21.03.2020					
Date of Measurement:- 12.04.2021					
Item No. 01 Clearing & grubbing good land					
					$2 \text{ No.} \times 4875 \times 0.10 = 975 \text{ m}^2$ say 0.975 Hm
Item No. 02 Const. of earthen shoulder					say 0.975 H
L.H.S. 18 No. x 30m x $\frac{6.90 + 2.00}{2}$ x 1.10					= 861.00 m ²
1th x KM x $\left(\frac{6.90 + 2.00}{2} \right) \times 1.10$					= 22.33 M

Scanned with CamScanner

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5 Hb. x 20m x $\left(\frac{0.80 + 1.60}{2}\right) \times 0.80$					$= 144.00 \text{ m}^3$
1 Hb. x 10m x $\left(\frac{0.80 + 1.60}{2}\right) \times 0.80$					$= 5.76 \text{ m}^3$
7 Hb. x 30m x $\left(\frac{1.00 + 1.60}{2}\right) \times 0.60$					$= 162.80 \text{ m}^3$
1 Hb. x 10m x $\left(\frac{1.00 + 1.60}{2}\right) \times 0.60$					$= 7.80 \text{ m}^3$
6 Hb. x 30m x 1.00 x 0.25					$= 45.00 \text{ m}^3$
1 Hb. x 12m x 1.00 x 0.25					$= 3.00 \text{ m}^3$
8 Hb. x 30m x 0.80 x 0.30					$= 57.60 \text{ m}^3$
1 Hb. x 10m x 0.80 x 0.30					$= 2.40 \text{ m}^3$
R.H.S. 16 Hb. x 30m x $\left(\frac{0.80 + 1.80}{2}\right) \times 1.00$					$= 624.00 \text{ m}^3$
1 Hb. x 12m x $\left(\frac{0.80 + 1.80}{2}\right) \times 1.00$					$= 15.60 \text{ m}^3$
10 Hb. x 30m x $\left(\frac{1.00 + 1.60}{2}\right) \times 0.60$					$= 234.00 \text{ m}^3$
1 Hb. x 21m x $\left(\frac{1.00 + 1.60}{2}\right) \times 0.60$					$= 16.38 \text{ m}^3$
5 Hb. x 30m x $\left(\frac{1.00 + 1.80}{2}\right) \times 0.80$					$= 201.60 \text{ m}^3$
1 Hb. x 8m x $\left(\frac{1.00 + 1.80}{2}\right) \times 0.80$					$= 8.16 \text{ m}^3$
8 Hb. x 30m x 0.80 x 0.30					$= 64.80 \text{ m}^3$
1 Hb. x 15m x 0.80 x 0.30					$= 4.05 \text{ m}^3$

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Chalk	2.00	0.95	0.20		22.50 m ³
111.	9.14	0.9	0.20		1.95 m ³
					2.505.93 m ³
Plinth					
Cont. of granular					
sub base					
1 No.	6.00	1.1	0.100		0.66 m ³
2 No.	5.00	0.80	0.100		1.90 m ³
1 No.	3.20	1.60	0.100		0.512 m ³
1 No.	2.25	2.20	0.100		0.56 m ³
2 No.	3.20	1.60	0.100		1.02 m ³
3 No.	3.10	2.20	0.100		2.05 m ³
1 No.	2.00	0.75	0.100		0.15 m ³
1 No.	2.20	1.60	0.100		0.32 m ³
2 No.	2.25	1.80	0.100		0.81 m ³
1 No.	5.20	2.20	0.100		1.14 m ³
3 No.	3.00	2.80	0.100		2.52 m ³
5 No.	4.20	2.10	0.100		4.41 m ³
1 No.	3.25	2.00	0.100		0.65 m ³
1 No.	2.20	1.60	0.100		0.32 m ³
2 No.	5.40	1.10	0.100		1.18 m ³
1 No.	3.20	1.25	0.100		0.40 m ³
3 No.	3.10	1.70	0.100		1.58 m ³
5 No.	5.00	0.70	0.100		1.95 m ³
1 No.	3.20	1.00	0.100		0.32 m ³
1 No.	5.25	1.40	0.100		0.73 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1 H ₆	2.00	2.25	0.10	0.68
	2 H ₆	2.00	2.25	0.10	1.32
	1 H ₆	6.25	1.60	0.10	0.39
	3 H ₆	5.00	2.00	0.10	3.00
	5 H ₆	3.25	2.00	0.10	3.25
	4 H ₆	5.25	1.60	0.10	3.36
	3 H ₆	4.20	1.50	0.10	1.83
	5 H ₆	3.40	2.50	0.10	4.00
	2 H ₆	2.25	2.00	0.10	0.90
	1 H ₆	2.00	1.20	0.10	0.26
	1 H ₆	2.10	1.10	0.10	0.23
	1 H ₆	3.00	1.00	0.10	0.30
	2 H ₆	5.50	1.25	0.10	1.30
	4 H ₆	3.00	2.15	0.10	2.70
	3 H ₆	2.00	2.30	0.10	1.38
	1 H ₆	2.20	2.25	0.10	0.61
	1 H ₆	5.00	2.80	0.10	1.40
	4 H ₆	2.00	3.05	0.10	2.60
	2 H ₆	3.00	1.60	0.10	0.86
	1 H ₆	2.20	1.20	0.10	0.26
	3 H ₆	2.20	2.15	0.10	1.48
	5 H ₆	2.00	1.40	0.10	2.10
	4 H ₆	7.00	1.50	0.10	4.20
	1 H ₆	6.25	2.25	0.10	1.38
	1 H ₆	5.20	3.00	0.10	1.56
	2 H ₆	2.20	0.80	0.10	0.58

Continuation

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Co of area
	No.	L.	B.	D.	
	2 Hb.	3.00	1.00	0.10	1.08
	5 Hb.	5.00	1.60	0.10	4.17
	4 Hb.	2.10	1.00	0.10	0.84
	1 Hb.	2.00	1.10	0.10	0.22
	1 Hb.	1.20	1.80	0.10	0.22
	3 Hb.	2.20	2.20	0.10	1.45
	1 Hb.	2.00	2.60	0.10	0.52
	2 Hb.	4.00	2.20	0.10	1.80
	1 Hb.	3.10	2.10	0.10	0.65
	4 Hb.	2.20	1.10	0.10	0.97
	1 Hb.	5.20	1.20	0.10	0.62

	2 Hb.	2.20	1.20	0.10	0.78
	1 Hb.	2.00	1.20	0.10	0.35
	4 Hb.	2.60	0.75	0.10	0.60
	2 Hb.	2.25	2.20	0.10	0.98
	2 Hb.	2.20	1.20	0.10	0.83
	5 Hb.	3.20	1.50	0.10	2.40
	1 Hb.	2.10	2.80	0.10	0.58
	4 Hb.	2.00	2.40	0.10	1.92
	2 Hb.	5.20	3.25	0.10	3.38
	3 Hb.	3.00	2.10	0.10	1.88

91.102 m²

12-5-21
Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date	25.04.2021				
Station No.	01				
WBM Graveling	3				
1Hb. x 7.00 x 1.40 x 0.075					0.75 m ³
3Hb. x 6.10 x 1.10 x 0.075					1.51 m ³
1Hb. x 4.10 x 2.00 x 0.075					0.62 m ³
1Hb. x 4.00 x 2.60 x 0.075					0.78 m ³
2Hb. x 4.00 x 2.2 x 0.075					1.35 m ³
3Hb. x 4.00 x 2.5 x 0.075					2.25 m ³
1Hb. x 3.20 x 1.20 x 0.075					0.29 m ³
1Hb. x 8.00 x 1.20 x 0.075					0.72 m ³

2Hb. x 3.20 x 2.2 x 0.075					1.06 m ³
1Hb. x 6.00 x 2.5 x 0.075					1.12 m ³
3Hb. x 6.20 x 2.3 x 0.075					4.60 m ³
5Hb. x 5.00 x 2.3 x 0.075					4.31 m ³
1Hb. x 7.00 x 2.20 x 0.075					1.21 m ³
1Hb. x 4.00 x 1.50 x 0.075					0.45 m ³
2Hb. x 8.00 x 1.5 x 0.075					1.80 m ³
1Hb. x 4.10 x 1.70 x 0.075					0.54 m ³
3Hb. x 4.00 x 2.00 x 0.075					1.80 m ³
5Hb. x 6.00 x 1.20 x 0.075					2.70 m ³
1Hb. x 7.00 x 1.20 x 0.075					0.63 m ³
1Hb. x 6.20 x 1.20 x 0.075					0.81 m ³
1Hb. x 7.00 x 2.50 x 0.075					1.31 m ³
3Hb. x 3.20 x 2.50 x 0.075					1.80 m ³

Continuation

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Sch. XLV-Form No. 134

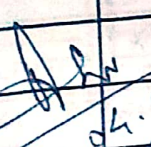
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
1H. x 1.50 x 1.80 x 0.075					0.99 m ³
2H. x 6.00 x 2.50 x 0.075					3.71 m ³
5H. x 6.20 x 2.50 x 0.075					5.23 m ³
4H. x 6.00 x 2.00 x 0.075					3.60 m ³
3H. x 5.00 x 1.75 x 0.075					1.91 m ³
5H. x 4.00 x 2.50 x 0.075					4.20 m ³
2H. x 3.00 x 2.50 x 0.075					1.12 m ³
1H. x 3.00 x 1.60 x 0.075					0.36 m ³
1H. x 3.00 x 1.40 x 0.075					0.32 m ³
1H. x 4.00 x 1.25 x 0.075					0.32 m ³
2H. x 6.10 x 1.60 x 0.075					1.46 m ³
4H. x 4.00 x 2.50 x 0.075					3.00 m ³
3H. x 3.20 x 2.50 x 0.075					1.80 m ³
1H. x 3.25 x 3.20 x 0.075					0.78 m ³
1H. x 6.00 x 3.00 x 0.075					1.35 m ³
4H. x 3.00 x 3.60 x 0.075					3.24 m ³
2H. x 4.00 x 2.10 x 0.075					1.26 m ³
1H. x 3.20 x 1.50 x 0.075					0.26 m ³
3H. x 3.00 x 2.50 x 0.075					1.60 m ³
5H. x 4.00 x 1.75 x 0.075					2.62 m ³
4H. x 8.00 x 1.75 x 0.075					4.20 m ³
2H. x 7.00 x 2.50 x 0.075					3.94 m ³
3H. x 6.20 x 3.30 x 0.075					4.60 m ³
2H. x 4.10 x 1.25 x 0.075					0.65 m ³
3H. x 4.00 x 1.60 x 0.075					1.44 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	5 Hrs	6.00	1.8	$\times 0.075$	4.05 m^3
	4 Hrs	3.20	1.5	$\times 0.075$	1.44 m^3
	1 Hr	6.60	1.2	$\times 0.075$	0.59 m^3
	1 Hr	2.20	2.1	$\times 0.075$	0.35 m^3
	3 Hrs	3.0	2.50	$\times 0.075$	1.69 m^3
	4 Hrs	5.0	2.30	$\times 0.075$	4.25 m^3
	2 Hrs	5.00	2.40	$\times 0.075$	1.80 m^3
	5 Hrs	7.00	2.30	$\times 0.075$	6.04 m^3
	4 Hrs	3.00	1.50	$\times 0.075$	1.35 m^3
	1 Hr	7.20	1.30	$\times 0.075$	0.70 m^3
	3 Hrs	2.80	1.50	$\times 0.075$	0.95 m^3
	4 Hrs	3.20	2.00	$\times 0.075$	1.92 m^3
	4 Hrs	3.20	1.00	$\times 0.075$	0.96 m^3
	2 Hrs	2.80	2.50	$\times 0.075$	1.05 m^3
	3 Hrs	3.00	1.50	$\times 0.075$	1.01 m^3
	5 Hrs	4.00	1.75	$\times 0.075$	2.62 m^3
	3 Hrs	3.00	3.20	$\times 0.075$	2.16 m^3
	4 Hrs	3.10	2.80	$\times 0.075$	2.60 m^3
	4 Hrs	5.00	3.50	$\times 0.075$	5.25 m^3
	3 Hrs	4.00	2.50	$\times 0.075$	2.25 m^3
	5 Hrs	5.00	1.60	$\times 0.075$	3.00 m^3
					133.30 m^3
Item No. 02					
Providing & applying					
Primes coat					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Area of WDM Gr 3					
	127.30				1777.33
	0.075				172
Item No. 03					
Tack Coat					
In P.C.C. Pavt					
	6 No.	5.20	2.00		62.40 m ²
	8 No.	4.50	1.60		57.60 m ²
	6 No.	5.50	1.80		59.40 m ²
	9 No.	4.80	2.10		95.04 m ²
	11 No.	4.20	1.80		83.16 m ²
	12 No.	3.80	1.60		72.96 m ²
	8 No.	4.60	1.75		56.00 m ²
	10 No.	3.50	2.00		
					486.56 m ²
Over Prime Coat - 1777.33 m ²					
					2,263.89 m ²
Item No. 04					
Patch work over					
WDM & P.C.C. surface					
Area same as Item					
	No. 03				2,263.89 m ²
					
27.04.2021					
Continuation					

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
Date	30.04.2021				
Item No. 01					
Tack Coat					
10 No x 30m x			3.75 + 3.85		
			2		
					= 1140.5
10 No. x 30m x			3.75 + 3.80 + 3.85		
			2		
					= 1140.5
30 No. x 30m x			3.70 + 3.75 + 3.85		
			3		
					= 3450.5
30 No. x 30m x			3.75 + 3.85 + 3.90		
			3		
					= 3450.5

20 No. x 30m x			3.75 + 3.85		
			2		
					= 2280.00
30 No. x 30m x			3.75 + 3.85 + 3.90		
			3		
					= 3450.00
32 No. x 30m x			3.70 + 3.80 + 3.90		
			3		
					= 3648.00
1 No. x 15m x			3.75 + 3.80		
			2		
					= 56.63m ²
					18,584.63m ²

Item No. 02					
Semi Dense Bituminous					
Concrete					
Area of Item No. 01					
Tack Coat x 0.025					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	185	84.65	0.625		44.62 m ²
Item No. 03					
Kilometer Stone					
i) 5th km stone					2 Nos
ii) km stone					6 Nos.
iii) 200m stone					12 Nos.
Item No. 04					
Rebore-reflexorised					
Traffic Signs					
i) Green equilateral triangle					15 Nos.
ii) Green Circular					5 Nos.
iii) Green 450mm rectangular					10 Nos.
Item No. 05					
Boundary Pillar					56 Nos.
Item No. 06					
Road marking with					
Hot applied thermos					
plastic compound					
1 No. x 4825m x 0.10					482.5 m ²
Item No. 07					
Providing & fixing					
Logo of Maintenance					
Project					2 Nos.

[Signature]
20.04.2021
J.C.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Material supplied					
Earthwork					2426.00 m ³
Stone masonry					246.44 m ³
Stone Dust					28.66 m ³
Stone Chips					725.10 m ³
Coarse Sand					21.97 m ³
Filler					20.54 m ³

Abstract of Item A/c Bill					
Date 02.05.2021					
Item No. 01					
Clearing & grubbing					
road land (By					
manual means)					
Vide M.B. Page 1-					0.925 H
0.925 H @ Rs 48259 =					Rs 48259 =
Vide M.B. Page 2-					2505.99 m ³
Continuation					Rs 48259 =

R. 42,250.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
As per B.O.D. -					24.96.00 m ³
					24.96.00 m ² @ Rs. 176.75/m ²
					Rs. 4,41,168.00
Item No. 03.					
Const. of granular sub-base by providing well graded material					
Vide this M.B. Page 5 -					91.102 m ²
As per B.O.D. -					88.6946 m ²
					88.6946 m ² @ Rs. 2552.32/m ²
					Rs. 2,25,072.00
Item No. 04					
Providing, laying, spreading and compacting WBM Gr. 3					
Vide this M.B. Page 8 -					132.30 m ²
					132.30 m ² @ Rs. 4390.21/m ²
					Rs. 5,80,215.00
Item No. 05					
Providing & applying primer coat					
Vide this M.B. Page 9 -					1777.33 m ²
					1777.33 m ² @ Rs. 41.43/m ²
					Rs. 73,635.00

Continuation

R. 14,63,340.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No. 06					
Providing & applying					
tack coat					
Vide H.R. M.B. Page 9					2663.89
Vide H.R. M.B. Page 10					18584.62
					20848.52
					20848.52 m ² @ R 14 = 05/m ²
					→ R 292,922 =
Item No. 07					
Providing, laying					
and rolling of					
graded surface					
Vide H.R. M.B. Page 9					2263.89
As per B.O.D.					208.1125
					208.1125 m ² @ R 220 = 37/m ²
					→ R 4,86,602 =
Item No. 08					
Providing & laying semi					
dense bituminous					
concrete 25mm thickness					
as per specification					
Vide H.R. M.B. Page 11					464.62
					464.62 m ² @ R 11083 = 85/m ²
					→ R 51,49,724 =

Continuation

R 73,92,647 =

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
Item No. 9					
(R.C.C. Mega Kilometer)					
location of standard					
design					
i. 500 km stone					
Vide this M.B. Page 11 - 2 Nos.					
2 Nos @ Rs 4,049.06/No					
→ Rs 8,098.12 = 00					
ii. 1 km stone					
Vide this M.B. Page 11 6 Nos.					
6 Nos @ Rs 2,452.93/No					
→ Rs 14,717.58 = 00					
iii. 200 m stone					
Vide this M.B. Page 11 - 12 Nos					
12 Nos @ Rs 651.55/No					
→ Rs 7,818.60 = 00					
Item No. 10					
Providing & fixing of					
rebar or the stone used					
cautionary & information sign					
iv. 600 mm equilateral triangle					
Vide this M.B. Page 11 - 15 Nos.					
15 Nos @ Rs 3,230.66/No					
→ Rs 48,459.90 = 00					

Continuation

Rs 74,75,074 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(ii) 600mm circular					
Vide this M.B. Page 11 - 5 Hrs.					
5 Hrs @ Rs 3340 = 23/16					
→ Rs 16,750 = 00					
(iii) 600mm x 600mm rectangular					
Vide this M.B. Page 11 - 10 Hrs.					
10 Hrs @ Rs 3242 = 23/16					
→ Rs 32424 = 00					
Item No. 11					
R.C.C. Marg boundary					
Pillars of standard					
Design					
Vide this M.B. Page 11 - 56 Hrs					
56 Hrs @ Rs 534 = 42/16					
→ Rs 29,928 = 00					
Item No. 12					
Providing & laying					
of hot applied					
thermoplastic compound					
2.5mm thick					
Vide this M.B. Page 11 - 995.00 mt					
995.00 mt @ Rs 735 = 40/16					
→ Rs 7,17,015 = 00					
Item No. 13					
Providing & fixing					
Logo of maintenance					

Continuation

Rs 82,71,191 = 00

Continuation