

Name of work - Construction of samasy Road from Marliya
NH 104 to Mahadalit Tola Khoriya in
Cherant Block.
Schedule XLV-Form No. 134 {samasy (sc)}

ଅମିତାବତୀ ମହାପାତ୍ର DIVISION

ଅମିତାବତୀ ମହାପାତ୍ର SUB-DIVISION

MEASUREMENT BOOK

10-2311

M/s. Maa Banga Construction East Champaran

Sch. XLV - Form No. 134

ग्रामीण कार्य विभाग, काम प्रमंडल पूर्ण DIVISION

काम भवन प्रमंडल चौराहा SUB-DIVISION

Measurement Book

No. 2311

Name of Officer श्री प्रेम चन्द्र भा

सहायक अभियंता, काम भवन प्रमंडल चौराहा

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	1300 1300	3.500		9100 m ²
HA = 9100 / 10000					= 0.91 HA
= 0.91 HA					
3) 2.14. Box cutting - Excavation					
for roadway in soil for					
carrying of cut earth to					
embankment.					
(A) Flexible road -					
Both sides of	2	500.00	0.525	0.10	52.50
BESOLING -					
(B) Rigid road -					
Both sides of	2	400.00	0.375	0.10	30.00
BESOLING -					
Total qty					82.50 m ³
4) 3.4) Construction of Embankment -					
with material obtained					
from borrow pits.					
8x	30.00	6.00	0.20		288.00
4x	30.00	6.00	0.20		144.00
4x	30.00	6.00	0.20		144.00
1x	21.00	6.00	0.20		25.20
Total qty					601.20 m ³
(A) For lead 1000m lead -					253.00 m ³
B) For lead 100m lead -					348.20 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ ⑤ 3.14 - Construction of subgrade and earthen shoulder.					
With material obtained from borrow pits.					
① Flexible road					
5x	30.00	6.00	0.30	270.00	
5x	30.00	6.00	0.30	270.00	
3x	30.00	6.00	0.30	162.00	
1x	10.00	6.00	0.30	18.00	
1x	24.00	6.00	0.30	43.20	
2x	30.00	6.00	0.30	108.00	
Totally					871.20m ³
② Rigid Road-					
a) Bolk side GSB.	2x13	30.00	0.625	0.10	48.75
b) Bolk side WBM 4711	2x1	10.00	0.625	0.10	1.25
	2x13	30.00	0.625	0.075	36.56
	2x1	10.00	0.625	0.075	0.94
c) Bolk side C.C Pavement	2x13	30.00	0.625	0.16	78.00
	2x1	10.00	0.625	0.16	2.00
Totally					167.50m ³
6/8/4.1) Construction of G.S.B. by providing well graded material spreading in uniform layers.					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(A) Flexible road					
	1x10.50x	9.50 +4.25/2	0.20		14.37
	5x	30.00	4.05	0.20	121.50
	5x	30.00	4.05	0.20	121.50
	2x	30.00	4.05	0.20	48.60
	1x	29.00	4.05	0.20	23.49.
Bolt side Widening -	8x	30.00	0.525	0.10	12.60
	2x5	30.00	0.525	0.10	15.75
	2x5	30.00	0.525	0.10	15.75
	2x1	30.00	0.525	0.10	3.15
	2x1	30.00	0.525	0.10	3.15
	2x1	20.00	0.525	0.10	2.10.
	2x1	7.76	0.525	0.10	0.81
GSB on Brick edge Soling -	4x	30.00	4.05	0.10	48.60
	5x	30.00	4.05	0.10	60.75
	5x	30.00	4.05	0.10	60.75
	1x	30.00	4.05 +4.15/2	0.10	12.30
	1x1	22.80	4.15+4.80+ 4.05/3	x0.10	=9.88.
	1x1	20.00	4.05+ 4.20/2	0.10	8.25.
	1x1	7.70x	9.50 +4.20/2	x0.10	5.27
levelling Course on	4x	4.25	1.20	0.10	2.04
Brick edge side	4x	6.25	0.85	0.10	2.13
	6x	5.85	0.75	0.10	2.63
	6x	5.45	0.85	0.10	2.78
	6x	5.40	0.75	0.10	2.43
	4x	8.55	0.65	0.10	2.22
	4x	7.85	0.95	0.10	2.98.
Totally					605.70 m ³ .

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(B) Rigid road: -					
Bolt side widening in	1x2	30.00	0.375	0.10	2.25
Brick Edge Soling	2x3	30.00	0.375	0.10	6.75
	1x2	6.00	0.375	0.10	0.45
	1x2	6.00	0.375	0.10	0.45
	2x2	30.00	0.375	0.10	4.50
	1x2	30.00	0.375	0.10	2.25
	6x2	30.00	0.375	0.10	13.50
Levelling course in Brick Edging	4	6.25	1.20	0.10	3.00
	4	5.25	0.85	0.10	1.79
	6	4.85	0.75	0.10	2.18
	6	8.35	0.70	0.10	3.51
	6	6.30	0.75	0.10	1.04
Totally					42.57 m ²
7) 9) 4.2) Providing laying spreading and compacting stone aggregate WBM Gr III.					
(A) Flexible road: -					
	1x10.50x(9.20+3.90)			0.075	5.16
	10x	30.00	3.75	0.075	84.38
	2x	30.00	3.75	0.075	16.88
	1x29.00x(3.75+4.30+3.90)			3 x0.075	=8.66
	4x	30.00	3.75	0.075	33.75
	5x	30.00	3.75	0.075	42.19
	5x	30.00	3.75	0.075	42.19
Totally					233.21 m ²

Continuation

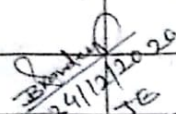
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x30.00x	(5.75+3.85)			0.075 = 8.55
	1x22.80x	(3.85+4.50+3.25)			
			3		x 0.075 = 6.70
	1x20.00x	(3.75+3.90)			
					x 0.075 = 5.74
	1x7.70x	(7.20+3.90)			0.075 3.78
			2		
Totally					= 258.18m ³

② Rigid road :-

	1x	30.00x	(3.85+3.25)		
					x 0.075 = 8.55
	3x	30.00x	(3.25+3.85)		0.075 25.99
	1x6.00x	(4.10+3.70+3.85)			
			3		x 0.075 = 1.78
	1x6.00x	(3.75+5.00+3.75)			
			3		x 0.075 1.88
	2x30.00x	3.75x	0.075		16.88
	1x30.00x	(3.75+4.50+3.80)			
			3		x 0.075 9.04
	6x30.00x	3.75	0.075		50.63
Totally					114.75m ³

8/14) construction of unreinforced cement concrete pavement.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 30.00x(3.85+3.25)				0.16	18.24
3x 30.00x(3.75+3.75)				0.16	55.44
1x 6.00x(4.1+3.90+3.85)				0.16	3.79
1x 6.00x(3.75+5.00+3.75)				0.16	4.00
2x 30.00x 3.75				0.16	36.00
1x 30.00x(3.75+4.50+3.85)				0.16	19.28
6x 30.00x 3.75				0.16	108.00
Totally-					244.75m ³
9) 23) 10.6) Providing and fixing of typical M.M. SSY					
1) Information Sign board-					
Qty 2.00					2.00 Nos
2) Citizen board					
Qty 2.00					2.00 No
Totally-					4.00 Nos
10) 21) 8.29) Providing and laying of R.C.C. Hume Pipe					
300 mm dia-					
Qty 38.00 m+					38.00 mtr
 24/12/2020 JE					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(B) Construction of CD work.					
600 mm dia H.P culvert (2 Nos)					
1) 24) Earthwork in excavation for foundation of structure.					
Head wall.	2x2	3.90	1.15	1.50	26.91
Below pipe	2x1	5.35	1.13	0.365	4.41.
Total qty					31.32 m ³ .
2) 25) Providing M15 (P.C.C) as kerelling course in foundation.					
Head wall	2x2	3.90	1.15	0.15	2.69
Below pipe	2x1	5.35	1.13	0.25	3.00
Total qty					5.69 m ³ .
3) 26) P.C.C M10. Providing concrete for plain rein forecast. course in open foundation					
Head wall	2x1	3.60	(1.00 + 0.40)	2.18	10.987
	2x1	3.60	(1.00 + 0.40)	2.18	10.987
Parapet wall.	2x2	3.60	0.40	1.20	6.912
Less for pipe	2x2	0.7857	x 0.83 x 0.83		
			x 0.530		1.148.
Total qty					27.74 m ³ .

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4) 27) providing and laying NP 3 pipe 600mm dia for culvert.					
	2x3	2-50			15.00 mt.

~~24/12/2020~~
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Abstract of cost

(A) Cost of road work: —

1) Providing and fixing of

(A) Working bench mark pillar.

Qty vide TMB/P-01.

Qty 1.300km @ 4239.17/km = 5511.00

(B) Reference pillars.

Qty vide TMB/P-01.

Qty 1.300km @ 1962.62/km = 2551.00

2) clearing and grubbing Road

Land uprooting Wild vege-

tation Qty vide TMB/P-02

Qty 0.91Ha @ 49496.70/Ha = 45042.00

Total Amount (Rs)

53104.00/-

Continuation

Cto.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Excavation for road way in soil using manual means for carrying of cut earth to embankment aty vide TMB/P-02					
aty 82.50 m ³ @ 74.10/m ³ ⇒					6113.00
4) 5) Construction of embankment with material obtained from borrow pits.					
aty vide TMB-P-02.					
④ Lead for 1000 mt.					
aty 253.00 m ³ @ 175.11/m ³ ⇒					44303.00
⑤ Lead for 100 mt.					
aty vide TMB-P-02.					
aty 348.20 m ³ @ 138.27/m ³ ⇒					48146.00/-
5) 7) Construction of subgrade and earthen shoulders with material obtained from borrow pits.					
④ Flexible Road-					
aty vide TMB-P-03.					
176.75					153985.00
aty 871.20 m ³ @ 176.79/m ³					154019.00
176.76					
⑤ Rigid Road-					
aty vide TMB-P-03.					
176.75					29606.00
aty 167.50 m ³ @ 176.79/m ³					29612.00
176.75					
Total Amount (Rs)					335257.00/-
					335247.00/-
					40

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6/8) construction of G.S.B. by providing well graded material, spreading in uniform layer (A) Flexible road					
aly vide TMB/P-04.					
aly 605.70 m ³ @ 2716.71/m ³					16,45,511.00
(B) Rigid road					
aly vide TMB-P-05.					
aly 42.57 m ³ @ 2716.71 m ³					1,15,656.00/-
7/9) providing laying spreading and compacting stone aggregate - WBM-GR-TL.					
(A) Flexible road -					
aly vide TMB/P-06					
aly 258.18 m ³ @ 3305.52/m ³					8,53,419.00
(B) Rigid road -					
aly vide TMB/P-06.					
aly 114.75 m ³ @ 3305.52/m ³					3,79,308.00
8/14) construction of unreinforced plain cement concrete pavement -					
aly vide TMB/P-07					
aly 244.75 m ³ @ 7738.91/m ³					18,94,410.00
9/21) Providing and laying R.C.C. hollow pipe duct 300mm dia					
aly vide TMB/P-07					
aly 38.00 mt @ 871.78/mt					33,128.00
Total Amount (Rs)					52,56,683.00

Continuation

52,56,683.00

Rs 52,56,723.00/-

BKS

c/o

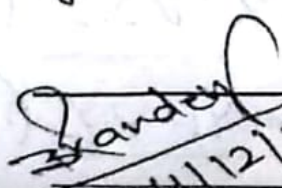
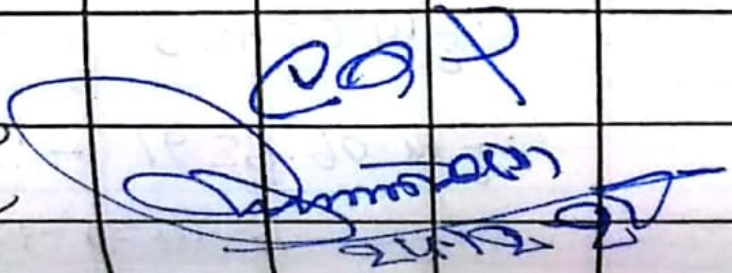
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10) 23) Providing and fixing of typical MM 45y information					
and Citizen sign board.					
Qty vide TMB-P-07.					
Qty 04 No @ 11041.60 each					44166.00
Total Amount for Roadwork (A) ⇒					530084.9.00
24/12/2020 JE					53,00,889.0
(B) Cost of CD Work.					
11) 24) Earth work in excavation for foundation of structure.					
Qty vide TMB-P-08.					
Qty 31.32 m ³ @ 260.59 m ³ ⇒					8162.00/-
12) 25) Providing M.S as					
levelling course in foundation					
Qty vide TMB-P-08.					
Qty 5.69 m ³ @ 6216.09 / m ³					35370.00
13) 26) PCC M20 providing concrete for plain/reinforced concrete for open foundation					
Qty vide TMB/P08					
Qty 27.74 m ³ @ 6835.66 / m ³ ⇒					1,89,621.00
14) 27. Providing and laying NP3 pipe 600mm dia					
Qty vide TMB-P-09.					
Qty 15.00 mt @ 1708.82 / m ³					25632.00
Total cost for CD Work.					Rs. 2,58,785.00

24/12/2020
JE

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract cost for 1st R. A Bill.					
(A) cost of road work (P. 12)	Rs.				53,00,849.00
(B) cost of CD work (P. 12)	Rs.				2,58,785.00
Total Amount (A+B)	Rs.				55,59,634.00
(a) Add @ 1% labor cess.	(+) Rs.				55,597.00
(b) Add @ 12% G.S.T.	(+) Rs.				6,671,61.00
Total Amount	Rs.				62,82,386.00
Less @ 0% below as per Agg. amt	(-) Rs.				6,28,243.00
Net Payable Amount (Rs)					56,54,189.00/-
					56,54,147.00
Material statement					
1) Earth work -	1639.90 m ³ .				
2) GSB. GRI -	518.62 m ³ .				
3) WBM. GRII	287.16 m ³ .				
4) Stone chips.	220.28 m ³ .				
5) coarse sand -	110.14 m ³ .				
6) Cement -	85.66 MT.				
7) Stone dust. Screening - (material)	215.42 m ³ .				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost of 1st on A/c Bill.					
(A) Cost of road work - (P-12)				Rs	53,00,849.00
(B) Cost of CD work (P-12)				Rs	2,58,785.00
G Total (A+B) Amount-				Rs	55,59,634.00
(a) Add @ 1% Labour cess				Rs (+)	55,596.00
(b) Add @ 12% GST.				Rs	6,67,156.00
Sub total (Labour + GST)				Rs	62,82,386.00
Less @ 10% below as per contract				(-) Rs	6,28,239.00
Net Payable Amount (Rs)					56,54,147.00/-
Say Rs					56,54,147.00/-
 24/12/2020 SE  24/12/20					