

Name of work: - Construction of MMSY Road from
Chandrasaina Soman Ram's house To
NH 104 Chandrasaina in Chorut-Block.
Schedule XLV-Form No. 134

Head - MMSY (SC)

आवक और प्रगतिकार DIVISION

आवक और प्रगतिकार SUB-DIVISION

MEASUREMENT BOOK

NO-2312

M/S Maa Ganga Construction. East Champaran

Sch. XLV - Form No. 134

ग्रामीण कार्य विभाग कार्य प्रमंडल पुपरी DIVISION

कार्य अवर प्रमंडल चोरीत SUB-DIVISION

Measurement Book

No. 2312

Name of Officer श्री प्रेमचंद का

सहायक अभियंता, कार्य अवर प्रमंडल, चोरीत

Date of first entry _____

Date of last entry _____

1st on A/c Bill.

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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.	
Name of Work:-	Construction of				
	M.M. GSY Road from chandra-				
	Saina Soman Rani's House to				
	NH 104 chondrasaina is				
	Chorant Block.				
Name of Agency:-	M/S Mani Ganga				
	Construction. East				
	Champanan.				
Agreement No/Date:-	771/SBD/2019-				
	2020 Dt-06.03.2020				
Date of Work Start:-	06.03.2020.				
Date of Work Completion:-	05.03.2021.				
Date of Measurement:-					
(A) construction of road work					
1) Construction of working bench mark pillars.					
	1	1.325	1.33		1.325 +33km
2) Reference pillar-					
	1	1.325	1.33		1.325 +33km

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3) clearing and grubbing road land including uprooting wild vegetation					
	2	1325 1330	3.50		9275 ² 9310m
$H.A = \frac{9310}{10000} =$					$0.9275 = 0.93 H.A.$
4) Excavation for roadway in soil for carrying of road way cut earth embankment					
	2x13	30.00	0.375	0.10	29.25m ³
	2x1	10.00	0.375	0.10	0.75m ³
Totally					30.00m ³
5) 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
	2x	30.00	6.00	0.20	72.00
	2x	30.00	6.00	0.20	72.00
	1x	30.00	6.00	0.20	36.00
	1x	3.00	6.00	0.20	3.60
Totally	4x1	30.00	6.00	0.20	144.00
					759.60m ³
(A) Less for 1000mt					143.00m ³
Less for 140mt					616.60m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6) Construction of subgrade and earthen shoulder with material obtained from borrow pits.					
(A) flexible road -					
	8	30.00	6.00	0.30	432.00
	4	30.00	6.00	0.30	216.00
	4	30.00	6.00	0.30	216.00
	2	10.00	6.00	0.45	54.00
	2	30.00	6.00	0.50	180.00
	2	30.00	6.00	0.60	216.00
	3	30.00	6.00	0.40	216.00
	1	15.00	6.00	0.55	49.50
Total qty					1579.50 m ³
(B) Rigid Road					
(A) Bolk side GSB.	2x13	30.00	0.625	0.10	48.75
	2x1	10.00	0.625	0.10	1.25
(B) Bolk side WBM 4r/11	2x13	30.00	0.625	0.075	36.56
	2x1	10.00	0.625	0.075	0.94
(C) Bolk side P.C.C	2x13	30.00	0.625	0.16	78.00
Paravut	2x1	10.00	0.625	0.16	2.00
Total qty					167.50 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
g) Construction of G.S.B. by providing well graded material, spreading in uniform layers.					
(A) Flexible road.					
	8	30.00	4.05	0.20	194.40
	4	30.00	$(1.05 + 4.50 + 4.20)$	$\frac{1}{3}$	
			$\times 0.20 =$		102.00
	4	30.00	4.05	0.20	97.20
			$1 \times 20.00 \times (4.05 + 4.65 + 4.35)$	$\frac{1}{2} \times 0.20 =$	17.40
	2	30.00	4.05	0.20	48.60
			$2 \times 30.00 \times (4.05 + 4.20)$	$\frac{1}{2} \times 0.20$	49.50
	3	30.00	4.05	0.20	72.90
			$1 \times 15.00 \times (7.20 + 4.05)$	$\frac{1}{2} \times 0.20$	16.88
Total qty					598.88 m ³
(B) Rigid Road -					
Boiler side edgesolimp.	2	30.00	0.375	0.10	2.25
	2x3	30.00	0.375	0.10	6.75
	2x1	10.00	0.375	0.10	0.75
	2x2	30.00	0.375	0.10	4.50
	2x1	30.00	0.375	0.10	2.25
	2x6	30.00	0.375	0.10	13.50
levelling course of solij	4	3.25	1.30	0.10	1.69
	4	4.25	0.95	0.10	1.62
	6	5.85	0.80	0.10	2.81
					36.12 m ³

Continuation

B/P $36.12 m^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	6	6.55	0.75	0.10	2.95
	6	6.25	0.70	0.10	2.63
Total qty					$41.70 m^3$
8) Providing laying spreading and compacting stone aggregate of WBM 4r III.					
(A) Flexible road:-					
	8x	30.00	3.75	0.075	67.50
	$4 \times 30.00 \times (3.85 + 3.80 + 3.90)$				
			3	$\times 0.075$	34.65

	4	30.00	3.75	0.075	33.75
	1	20.00	3.75	0.075	5.63
	$2 \times 30.00 \times (3.75 + 4.05) \times 0.075$				
			2		17.55
	$2 \times 30.00 \times (3.75 + 3.95) \times 0.075$				
			2		17.33
	3x	30.00	3.75	0.075	25.31
	$1 \times 15.00 \times (7.25 + 3.85) \times 0.075$				
			2		6.24
Total qty					$267.96 m^3$

(B) Rigid road-

	$1 \times 10.00 \times (7.50 + 3.75) \times 0.075$				
			2		4.22
	$3 \times 30.00 \times 3.85 \times 0.075$				
					25.99
	$1 \times 30.00 \times (3.75 + 4.50 + 3.75)$				
			3	$\times 0.075$	9.00
	$1 \times 30.00 \times 3.75 \times 0.075$				
					8.44
Total qty					$47.65 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
1x	30.00	x	3.85	x	0.075	8'66.
6x	30.00	x	3.75	x	0.075	50'63.
Total area	30.00	x	3.75	x	0.075	8'44.
						115.38 m ³

9) Construction of un-reinforced cement concrete pavement.

1X	10.00	X	(7.50 + 3.75)	X	0.16	9.00.
			2			
3X	30.00	X	3.85	X	0.16	55.44
1X	30.00	X	3.75	X	0.16	18.00
1X	30.00	X	3.75	X	0.16	18.00
1X	30.00	X	(3.75 + 4.50 + 3.75)	X	0.16	19.20
			3			
1X	30.00	X	3.85	X	0.16	18.48
6X	30.00	X	3.75	X	0.16	108.00
Total area						246.12 m ³

10) Providing and fixing MMS

① Logo information sign board -	02
② Citizen sign board	02
Total	04 Nos

~~Signature~~
22/12/2020
JE

Abstract of cost (1st on A/C Bill)

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) Providing and fixing of working bench mark pillars-					
Qty vide TMB/P-01.					
Qty 1.33 Km @ 4213.95/Km $\Rightarrow$					5583.00 5605.00/-
2) Reference pillar.					
Qty vide TMB/P-01.					
Qty 1.33 Km @ 1949.45/Km $\Rightarrow$					2583.00
3) Clearing and grubbing Road					
10mt including uprooting					
Wild vegetation-					
Qty vide TMB/P-02					
Qty 0.93 Ha @ 49496.70/Ha $\Rightarrow$					46032.00
4) Construction of Excavation for roadway					
in soil using carrying of					
cut earth to embankment					
Qty vide TMB-P-02					
Qty 30.00 m ³ @ 74.10/m ³ $\Rightarrow$					2223.00/-
5) Construction of Embankment-					
With material obtained					
from borrow pits					
A) Lead for 100mt					
Qty vide TMB-P-02					
Qty 143.00 m ³ @ 175.11/m ³ $\Rightarrow$					25041.00/-
total amount (Rs)					81,462.00/-

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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(B) lead for 100mt.					
aty vide TMB/P-02.					
aty 616.60 m ³ @ 138.271 m ³					85,257.00
6) Construction of subgrade and earthen shoulder.					
material obtained from borrow pits.					
(A) Flexible road.					
aty vide TMB/P-03.					
aty 1579.50 m ³ @ 176.75 m ³					3,14,527.00
(B) Rigid road-					
aty vide TMB-P-03.					
aty 167.50 m ³ @ 176.75 m ³					29,564.00
(7) providing laying spreading compacting stone aggregate WBM (21) GSB. Gr I.					
(A) flexible road-					
aty vide TMB-P-04.					
aty 598.88 m ³ @ 2637.83 m ³					1,57,744.00
(B) Rigid road-					
aty vide TMB-P-05.					
aty 41.70 m ³ @ 2637.83 m ³					1,09,998.00
Total Amount (Rs)					2200552.00
					40

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8) Providing laying spreading and compacting stone Aggregate WBM 4r/11'					
Qty vide TMB/P-05.					
(A) Flexible road-					
Qty 207.96 m ³ @ 3210.20/m ³					6,67,593.00
(B) Rigid road-					
Qty vide TMB/P-06.					
Qty 115.38 m ³ @ 3210.20/m ³					3,70,393.00
9) Construction of un reinforced plain cement concrete pavement.					

Qty vide TMB/P-06.					
Qty 246.12 m ³ @ 7635.72/m ³					18,79,303.00
10) Providing and fixing M.M.G.S.P. Logo information and Citizen sign board-					
Qty vide TMB/P-06.					
Qty 04 Nos @ 11018.28 each					44,073.00
G.Total Amount (Rs)					51,69,14.00
Add @ 1% Labour (Lcs)				(+)	51,69.00
Add @ 12% GST				(+)	6,19,430.00
Total Amount (Labour + GST)					58,32,963.00
Less @ 3.87% below as per (-)					2,25,736.00

Contract-
Net payable Amount (Rs) 56,07,227.00

Prepared
22/12/2020
JE

Continuation
C.A.D.
Summaya
32.12.20