

Notes: - Construction of masonry road from Bora Pmssy road to
Moulam Tola in sundard block.

17/11/2019

Schedule XLV-Form No. 134

आमलगाव विभागाच्या प्रसिद्धीतरी DIVISION

आमलगाव विभागाच्या ~~प्रसिद्धीतरी~~ प्रसिद्धीतरी SUB-DIVISION
— जेव्हा

MEASUREMENT BOOK

102231

Agency - Shushil K. Jha

Sch. XLV—Form No. 134

ग्रामीण कार्य विभाग/कार्य प्रमंडल पुपरी DIVISION

कार्य भवन प्रमंडल चोरीत SUB-DIVISION

Measurement Book

No. 2231

Name of Officer श्री प्रेमचन्द्र गो

सहायक अभियंता कार्य भवन प्रमंडल चोरीत

Date of first entry _____

Date of last entry _____

1st on A/c Bill.

1

Name to 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 measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/Work:- Construction of MMGSY Road from BADA PMGSY to Mushman tola in Sarsand block.					
Agency:- Sushil Kumar Jha.					
Agreement No/Date 31/SBD/2019-20 Date 25/11/2019					
Date of start:- 25.11.2019.					
Date of completion:- 24.11.2020.					
Date of Measurement:- 10.12.2019					
(A) Construction of Road Work:-					

1/1/16 Providing & fixing of working bench mark pillars.

(a) Working bench mark pillar-

Qty	1	1.30		1.30km
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(b) Reference pillars-

Qty	1	1.30		1.30km
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2/2.2/2/ Clearing and grubbing road land including uprooting Wild Vegetation, grass bushes.

200	1.30	3.50	9100 m ²
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9100/10000 = 0.91 Ha	0.91 ha
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3/6) 2.14 Excavation for road way in soil using manual means for carrying earth to embankment side.

Continuation

4th on a Bill

25

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Construction of Road					
from Bara PMGSY to					
Musliman Tola under MIMGSY					
in Surand block.					
Agency:- Bishil Kumar Jha					
Agreement no/Date 31/SB/2019-20					
Date 25-11-2019.					
Date of start: 25-11-2019.					
Date of completion 24-11-2020					
Actual Date of completion 22-11-2020					
Date of Measurement:- 22-11-2020					

(A) Construction of road work.					
1) 5.1) Prime coat					
providing and applying					
primer coat with Bitumen					
emulsion (SS1)					
1X30.00X	(4.75+4.60+4.55)				139.00
1X30.00X3.75					112.50
1X3X30.00X3.75					337.50
1X2X30.00X3.75					225.00
1X3X30.00X3.75					337.50
1X1X30.00X	(4.40+4.50X4.2)				131.00
1X3X30.00X3.75					337.50
1X2X30.00X3.75					225.00
1X4X30.00X3.75					450.00
Total qty (m ²)					2295.00

Continuation

22/11/2020
3E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2) S.2) Pack coat					
Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.3 kg per m ² . (RS-1)					
1x30.00x(4.75+4.60+4.55)					139.00
1x 30.00x 3.75					112.50
1x3x 30.00x 3.75					337.50
1x2x 30.00x 3.75					225.00
1x3x30.00x 0.375					337.50
1x30.00x(4.40+4.50+4.2/3)					131.00
1x3x 30.00x 3.75					337.50
1x2x 30.00x 3.75					225.00
1x4x 30.00x 3.75					450.00
Totally					2295.00
<i>Reviewed</i> 22/11/2019 <i>TS</i>					
3) S.11. Mix seal surface.					
Providing and laying of close graded premix screening material of 20 mm thickness Bitumen					
comp. (S90) -					
1x30.00x 4.75+4.60+4.55 =					139.00
1x 30.00x 3.75 =					112.50
1x3x30.00x3.75 =					337.50
Totally					589.00
Continuation					589.00 m ² c/o.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x2x	30.00x	3.75	-	225.00
	1x3x	30.00x	3.75	-	337.500
	1x30.00x	(4.40+4.50+4.23)			131.00
	1x3x	30.00x	3.75	-	337.50
	1x2x	30.00x	3.75	-	225.00
	1x4x	30.00x	3.75	-	450.00
Total qty					⇒ 2295.00 m ²

Shankar
22/11/2020

④ 10.1. Kilometre stone.

Providing R.C.C. MIS grade.
Kilometre stone.

(ii) KM Stone -

Qty 2.00 Nos.

2.00 Nos

(iii) 200m stone -

Qty 6.00 Nos

06 Nos

5) 10.11. R.C.C. MIS grade

concrete boundary

Pillar.

Qty 4x10

40 Nos

6) 10.2. Providing and of Retro-
reflective cautioning
material and. informing
sign board.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(ii) 600 mm circular					
Qty 8.00 Nos					8.00 Nos
(ii) 900 mm equilateral and triangle					
Qty 4.00 Nos					4.00 Nos
(iv) 600 mm x 450 mm rectangular					
Qty 4.00 Nos					4.00 Nos
(7) 8.13 Providing and laying of hot applied thermoplastic compound 2.5 mm thick in bituminous surface					

	2X	600	0.10		120.00m ²
8) 8.13 Providing and laying of hot applied thermoplastic compound 2.50 mm thick in cement concrete pavement					
	2	700.00	0.10		140.00m ²
9) 11.9 planting of trees by road side					
	2	30			60 Nos
10) 8.29 Providing and laying of R.C. Hum pipe 300mm dia.					
Qty 38.00mt					38.00mts

Continuation
 1) 8.29 Providing and laying of R.C. Hum pipe - 300mm dia. for irrigation purpose
 Qty 38.00mt

⇒ 38.00mt

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11) 10'3" providing and erecting direction and plane board					
Qty 01 No					01 No.
12) 10'6" providing and fixing typical M M 45y information sign board.					
(iii) Maintenance Sign board					
Qty 01 No-					01 Nos
(B) construction of Hume pipe culvert (size 1000mm dia)					
1) 5. painting Two coat on new concrete surface					
2x 2.50x 6.15x 3.70					116.24 m ²

22/11/2020
JE

Abstract of cost
1/11 & final bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:-	Construction of MMGSY				
	Road from Baza PMGSY				
	Road to Musalman Tola				
	in Sasand block.				
Agency:-	Sushil Kumar Jha				
Agreement No-	3/SBD/2019-2020.				
1) 1.16. Providing and fixing of					
(A) Working benchmark pillar					
Qty	vide	TMB-P-19			
Qty	1.30	Km @	44-65	24/Km	
				=	5805.00/-
(B) Reference pillars-					
Qty	vide	TMB-P-19			
Qty	1.30	Km @	2067	51/Km	2688.00/-
2) 2.2. Clearing and grubbing Road					
land by manual means					
including uprooting wild					
Vegetation-					
Qty	vide	TMB-P-19.			
Qty	0.91	Ha @	49739	47/Ha	45263.00/-
3) 2.14. Box cutting excavation					
for road way in soil-					
Qty	vide	TMB-P-19-			
Qty	22.50	m ³ @	81.20/cum	=	1827.00/-
Total Amount (Rs)					55,583.00/-
Continuation					
10					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ 3.4) Construction of Embankment with material obtained from borrow pits.					
① lead upto 1000 mt.					
alg vide TMB-P-20					
alg $699.37 \text{ m}^3 @ 187.51/\text{m}^3 =$					1,31,139.00
					43,446.00/-
② lead upto 100 mt.					
alg vide TMB-P-20					
alg $1120.05 \text{ m}^3 @ 142.62/\text{m}^3 =$					1,65,446.00
5) 3.14. Construction of Subgrade and Earthen shoulder.					
With material obtained from borrow pits.					
① Flexible road					
alg vide TMB-P-20					
alg $1748.76 \text{ m}^3 @ 189.39/\text{m}^3 =$					331,198.00/-
② For Rigid road-					
alg vide TMB-P-20					
alg $293.13 \text{ m}^3 @ 189.39/\text{m}^3 =$					55,516.00/-
6) 4.1) Construction of G.S.B. by providing well graded material spreading in uniform layers.					
① Flexible road-					
alg vide TMB-P-20.					

Continuation
Total Amount (Rs)7,38,882.00/-
c/o.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
alg 495.65 m ³ @ 2945.62/m ³					14,59,997.00
(B) Rigid Road-					
alg vide TMB-P-20.					
alg 184.87 m ³ @ 2945.62/m ³					5,44,616.00
7) 4.7 providing laying spreading and compacting stone aggregate WBM 48/II.					
(A) Flexible Road-					
alg vide TMB-P-21					
alg 172.13 m ³ @ 3584.43/m ³					
					⇒ 6,16,988.00

(B) Rigid Road-					
alg vide TMB-P-21					
alg 200.81 m ³ @ 3584.43/m ³					
					⇒ 7,19,790.00
8) 5.1 Providing and applying primer coat with bitumen emulsion (SS ₁)					
alg vide TMB-P-25.					
alg 2295.00 m ² @ 51.81/m ²					1,18,904.00
9) 5.2) Providing and applying tack coat of close graded premix with bitumen emulsion (RS ₁)					
alg vide TMB-P-26/					

Continuation
Total Amount (Rs) - 41,71,177.00/

c/o

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	alg	2295.00m ²	@		
		17.39/m ²	=		39,910.00/-
o) S.II. providing, laying and rolling of close-graded Primix Screening material 20mm thickness.					
	alg	vide TMB-P-27			
	alg	2295.00m ²	@		
		236.88/m ²	=		5,43,640.00/-
ii) 6.4) construction of un reinforced cement concrete pavement					
	alg	vide TMB-P-21			
	alg	428.37m ³	@ 8348.68/m ³		
			=		35,76,324.00/-
12) 10.1 R.C.C M15 grade concrete kilometre stone					
	alg	vide TMB-P-27			
) km stone	alg	02 Nos @ 2612.45			
			2612.45 each	=	5225.00/-
ii) 200m stone					
	alg	vide TMB-P-27			
	alg	6.00 Nos @ 706.83 each			
			=		4241.00
13) 10.11) R.C.C M15 grade concrete boundary pillars. Stone					
	alg	vide TMB-P-27			
Total Amount (Rs)					83,68,517.00/-
					610

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
alg 40 Nos @ 546.70 each					
				⇒	21,868.00/-
14) 10.2. Providing and fixing of Retro reflective cautioning, mandating and informing sign board-					
(ii) 600 mm square circular (Speed limit)					
alg- vide TMB-P-28.					
alg 8.00 Nos @ 5659.71/No ⇒					45,278.00
(iii) 900 mm equilateral or triangle (left or right curve)					
alg 4.00 Nos @ 6459.23 each ⇒					25,837.00
(iv) 600 mm x 450 mm rectangular (School plate)					
alg 4.00 Nos @ 5504.58 each =					22018.00
15) 8.13. Providing and laying of hot applied thermoplastic compound on bituminous surface.					
alg vide TMB-P-28					
alg 120.00 m ² @ 850.93/m ²					1,02,112.00/-
Total Amount (Rs)					85,85,630.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
16) 8.13. Providing and laying of approx thermoplastic compound on concrete surfacing					
along edge					
alg vide TMB-P-28.					
alg 140.00m ² @ 947.57/m ² =					1,32,660.00
(17) 11.9. planting of tree by the road side -					
alg vide TMB-P-					
alg 60.00 Nos @ 817.41 =					49,044/-
18) 8.29. Providing and laying of R.C.C. dome pipe -					
alg vide TMB/P-28					
alg 38.00m ² @ 977.58/m ²					37,148.00/-
(19) 10.3. Providing and fixing directing and place identification retro reflective - board					
alg vide TMB-P-29.					
alg 01 Nos @ 3596					3596.98
				each	= 3597.00
20) 10.6. Providing and fixing of typical mm gsy infamly sign board -					
alg vide TMB-P-21					
TOTAL Amount (Rs) -					8808079.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
alg 04 No - (P-21)					
alg 01 No Main drainage P-29					
alg 05 M @ 11892.02/cmh					59,460.00/-
Total cost of Road work (Rs)					8867539.00/-

(B) Abstract cost of 1000 mm Dia
Hume pipe culvert.

1) 9.1) Earth work in exca-
vation of structure

alg vide TMB-P-21

alg 29.80 m³ @ 261.90

m³ 7805.00/-

2) 11.4(ii) Providing M15 as

levelling course in
foundation

alg vide TMB-P-22

alg 2.96 m³ @ 6642.69/

cm³ 19662.00

3) 11.4(ii) Providing concrete

M20 for plain drain
forecast channel

alg vide TMB-P-22

alg 30.61 m³ @ 7329.14/ 2,24,345.00

Total Amount (Rs) - 2,51,812.00/-

C/O

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4) Providing and laying R.C.C.					
7.3(B) NP 3. Hume pipe 1000mm					
dia					
Qty vide TMB-P-22					
Qty 7.50mt @ 3859.46/m					28,946.00/-
5) Painting two coats on New					
12.3) concrete surface					
Qty vide TMB-P-29.					
Qty 116.24m ² @ 108.98/m ²					12,668.00/-
Total Amount (Rs).					2,93,426.00

Abstract cost of Road Work + H.P. CD Work.				
(A) Cost of Road Work (P-36)	88,67,539.00.			
B) Cost of H.P. CD Work (P-37)	2,93,426.00			
Total Cost (A+B) -	91,60,965.00/-			
Less Provision R.A.B. Amt Rs) (-)	72,97,287.00/-			
Net Payable Amount (Rs)	19,53,678.00/-			

22/11/2020 JE				

Continuation