

सर्वेक्षण :- विखगारा मंडल

महसुल मंडल - मेहमसे मालुगा विदुयात
Schedule XLV - Form NO.-134. मेहमसे

BIHAR P. W. D.

SC

महमसे

DIVISION

महमसे

SUB-DIVISION

मह. नं. 191

19.20

MEASUREMENT BOOK

प्रमाणित किया जाता है कि इस माप
पुस्तिका में महीन 25 अक्षर - 100 (एक सौ)
पृष्ठ हैं जो सहायक कामों का माप प्रमाण
बुलेना


23/5/20
Executive Engineer
Rural Works Department
Works Division Phulparas

Mahase योजनामधील - Mahase Madhya
Vidkaya to Mahase.

Schedule XLV- Form No.- 134.

पुलपरास DIVISIUN
खुलेना SUB-DIVISION

MEASUREMENT BOOK

No. 191
19-20

Name of officer

Date of fist entry


23/5/20
Executive Engineer
Rural Works Department
Works Division Phulparas

Date of last entry

Name of the 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)

01

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st on A/c Bill -					
Name of work:- Mehase Madhya Madhya to Mehase Under MMASy-SC					
Agency:- Biswanath Jalam.					
Aggr No:- 49 SBD/2019-20					
Date of commencement of work:- 4.12.2019.					
Stipulated Date of completion - 03.09.2020					
Date of Measurement:-					
1. Clearing & grubbing of Road land by manual means:- etc -					

$$13 \times 30.0m \times 3.50m = 1365.00m^2$$

$$10.0m \times 3.50m = 35.00m^2$$

$$15.0m \times 3.50m = 52.50m^2$$

$$2 \times 15.0m \times \frac{(3.50m + 2.70m)}{2} = 93.00m^2$$

$$2 \times 15.0m \times \frac{(2.70 + 3.50)}{2} = 93.00m^2$$

$$475.00m \text{ length} \quad \text{Qty} = 1638.50m^2 = 0.16385H$$

2. Construction of Embankment with approved material Deposit from local etc.

$$3 \times 4.25m \times 1.30m \times 0.20m = 3.32m^3$$

$$5 \times 3.45m \times 0.90m \times 0.25m = 3.88m^3$$

$$4 \times 2.55m \times 1.20m \times 0.20m = 2.45m^3$$

$$\text{Qty} = 9.65m^3$$

3. P.V & fixing of logo of MMASy project - etc.

Provision & fixing logo of MMASy

Project No. of No.

City No. of No.

Continuation

02 Nos.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Construction of Embankment with material obtained from borrow pit --- etc					
Chain	C/S Area.	Mean C/S	length	Volume.	
m	m ²	m	m	m ³	
0	1.00	-	-	-	-
50	1.75	1.375	50	68.75	
100	1.64	1.625	50	84.75	
150	2.72	2.18	50	109.00	
200	1.92	2.32	50	116.00	
250	1.41	1.665	50	83.25	
300	2.12	1.765	50	88.25	
350	2.33	2.735	50	136.75	
400	0.28	1.815	50	90.75	

450	0.47	0.375	50	18.75	
475	0.29	0.38	25	9.50	
Qty = 805.75 m ³					
for 100 m lead. 20% of 805.75 m ³ = 161.15 m ³					
for 1000 m lead. 20% of 805.75 m ³ = 161.15 m ³					

5. Earth work in Excavation for foundation --- etc

H.W. - 2 x 6.45 m x 1.40 m x 1.50 m = 27.07 m ³					
below pipe 1 x 4.85 m x 1.53 m x 0.365 m = 2.71 m ³					
Qty = 29.80 m ³					

6. Providing 1:1.5 P.C. (1:2.5; 5) --- etc

H.W. - 2 x 6.45 m x 1.40 m x 0.150 m = 2.71 m ³					
below pipe - 1 x 4.85 m x 1.53 m x 0.075 m = 0.57 m ³					
Qty = 3.28 m ³					

- Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7. Brick masonry work in c.m (1:4) at c...					
H.W. - 2 x 6.15 m x (1.25 + 0.45) m					23.58 m ³ = 26.18 m ³
Parapet - 2 x 6.15 m x 0.10 m x 0.60 m					2.75 m ³
Less for pipe = 2 x $\frac{22}{7} \times 1.23 \text{ m} \times 1.25 \text{ m} \times 0.622$					= 1.18 m ³
Net Qty					27.65 m ³
8. Drowning & laying RCC pipe NP3...					
1 x 3 x 2.50 m					7.50 m
9. GSB Gr-I in cc portion					
End portion 10 x 15.0 x 3.75 x 0.10					56.25 m ³
1 x 16.0 x 3.75 x 0.10					6.00 m ³
Qty					62.25 m ³

(10) WBM Gr-III in cc portion —

End portion	10 x 15 x 3.75 x 0.075	= 42.19 m ³
	1 x 16.0 x 3.75 x 0.075	= 4.50 m ³
	Qty	46.69 m ³
	Limit	45.73 m ³

(11) GSB Grd-II in BT portion.

after CD	10 x 15.0 m x 4.05 x 0.2	= 121.50 m ³
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(12) WBM Gr-III in BT portion —

After CD	10 x 15.0 m x 3.75 x 0.075 m	= 42.19 m ³
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Material statement

(i) E/W = 808.75 m³(2) P.C.C - 13.15 → Stone - 2.62 m³
3.28 m³ sand - 1.57 m³(3) B/W - Sand - 6.51 m³
Brick - 133.25 No -(4) GSB - (i) 53 mm to 26.5 mm → 77.18 m³ @ 467.70/m³
(ii) 26.5 mm to 4.75 mm → 77.23 m³ @ 509.67/m³
(iii) 2.36 below - 44.10 m³ @ 162.50/m³(5) WBM Gr-III. (i) material - 107.34 m³ @ 467.70/m³
88.88 m³ (ii) quantity - 26.04 m³ @ 351.91/m³Sum of quantities
81.00 m³
AE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Area of rectangular plot of land.					
(2) Area of rectangular plot of land.					
(3) Area of rectangular plot of land.					
(4) Area of rectangular plot of land.					
(5) Area of rectangular plot of land.					
(6) Area of rectangular plot of land.					
(7) Area of rectangular plot of land.					
(8) Area of rectangular plot of land.					
(9) Area of rectangular plot of land.					
(10) Area of rectangular plot of land.					

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(9) Area of rectangular plot of land.					
(10) Area of rectangular plot of land.					
(11) Area of rectangular plot of land.					
(12) Area of rectangular plot of land.					
(13) Area of rectangular plot of land.					
(14) Area of rectangular plot of land.					
(15) Area of rectangular plot of land.					
(16) Area of rectangular plot of land.					
(17) Area of rectangular plot of land.					
(18) Area of rectangular plot of land.					
(19) Area of rectangular plot of land.					
(20) Area of rectangular plot of land.					

Sch XLV Form No. 134

Particulars	Details of actual measurement		Contents of area
	No.	Rectangular	
		25/08/2020 A/c Bill	
N/o = Constn of room		Mehrese Moolya	
Village - to Mehrese Moolya		(SC)	
N/Agency - Girsu Math Kadam.			
Aggt No - 47313D/2019-2020			
Date of Aggt - 4-12-2019.			
Date of work order - 4-12-2019			
Stipulated Date of completion - 3-09-2020			
Actual Date of completion -			
Date of entry - 25/08/2020			
① Plaster work -			
Outer side - $2 \times 6.15 \times 2.5 \text{ m} = 30.75 \text{ m}^2$			

$$\text{Inner side} - 2 \times 6.15 \times 1.0 = 12.30 \text{ m}^2$$

$$2 \times 6.15 \times 0.4 = 4.92 \text{ m}^2$$

$$4 \times 0.4 \times 0.6 = 0.96 \text{ m}^2$$

$$51.39 \text{ m}^2$$

(2) Cement pointing

$$2 \times 6.15 \times 0.4 = 4.92 \text{ m}^2$$

$$4 \times 0.4 \times 0.6 = 0.96 \text{ m}^2$$

$$2 \times 6.15 \times 1.2 = 14.76 \text{ m}^2$$

$$20.64 \text{ m}^2$$

(3) painting two coats

$$\text{Qty. as per item No-1, } 51.39 \text{ m}^2$$

(4) C.C. Pavement M30

$$6 \times 15.0 \times 3.75 \times 0.16 = 54.00 \text{ m}^3$$

$$1 \times 15.0 \times 3.75 \times 0.16 = 9.375 \text{ m}^3$$

$$1 \times 18.0 \times 3.75 \times 0.16 = 10.80 \text{ m}^3$$

$$1 \times 15.0 \times 3.0 + 6.4 + 3.75 \times 0.16 = 9.72 \text{ m}^3$$

$$1 \times 15.0 \times 1.75 \times 0.16 = 4.125 \text{ m}^3$$

$$1 \times 15.0 \times 2.75 \times 0.16 = 6.50 \text{ m}^3$$

$$\text{Continuation } 94.72 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Earth work in foundation as per graph.				Volume.
Sl.	Change	Fill Area	Excav Area	Dist	
1.	0	0.00	-	-	-
2	50	2.304	1.1325	50.0	52.630
3	100	5.413	3.8585	50.0	192.930
4	150	6.891	6.152	50.0	309.60
5	200	6.571	6.731	50.0	336.550
6	250	6.062	6.3175	50.0	315.980
7	300	5.914	6.006	50.0	300.300
8	350	1.949	3.4445	50.0	192.330
9	400	3.599	2.774	50.0	198.700
10	450	0.723	2.161	50.0	108.050
11	488	0.003	0.363	38.0	13.794
					1968.84 m ³

Deduction

WBM 4% -	51.05 + 42.19 + 46.69 = 139.93 m ³
C.S.B -	146.40 + 121.50 + 62.25 = 330.15 m ³
PCC -	90.92 m ³
Shoulder -	299.41 m ³
	864.41 m ³
Net Earth Quantity =	1968.84 - 864.41 m ³
	= 1104.43 m ³

(i) Constⁿ of Embankment
 (i) Load 1000 m Qty = 20% of 1104.43 m³
 = 220.89 m³

 (ii) Load 100 m Qty = 20% of 1104.43 m³
 = 220.89 m³

 by Benchmark pillar & before
 pillar 4.0 No.

P. T. D.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	All section of road				
(1) Working Bench, work pillar.					
7.0 m wide P-08 item No. 02					
@ 5570.46 / cum = Rs. 10,118.00					
(2) clearing & grubbing - 0.16325 Ha.					
wide P-10 item No. - 1					
0.16325 Ha. wide P-1 item No. - 1					
@ 49174.26 / Ha. = Rs. 8,057.00					
(3) Const ⁿ of Embankment - material obtain from Roadway cutting					
764 m ³ wide P-4					
@ 40.46 / m ³					
Rs. 31,174.00					
(4) Construction of Embankment material obtain from borrow pits					
(i) Level 1000 m ²					

220.87 m³ wide P-5 item No. 1@ 177.38 / m³ — Rs. 39,123.00(ii) Level 100 m² — 383.56 m³.wide P-08 item (i) @ 141.40 / m³

Rs. = Rs. 1,24,935.00

(5) Constⁿ of Earthen shoulder.299.41 m² wide P-7 item No. 15@ 181.09 / m² — Rs. 54,220.00

(6) G.S.B. or-I in BT portion:-

121.50 m³ wide P-3 item No. 11146.10 m³ wide P-07 item No. 15267.60 m³@ 3103.78 / m³ Rs. 8,31,503.00

Rs. = 10,62,933.00

(7) W.B.M. Gr. II in BT portion

42.19 m³ wide P-05 item No. 1251.05 m³ wide P-07 item No. 1293.24 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) 385.09/m ² - Rs = 3,59076.00					
(9) 433 ar-5 in cc post Horn.					
60.98 m ² wide P-4, Item No-4					
@ 3103.78/m ² - Rs = 1,89,269.00					
(9) WBM Gr-10 in cc post Horn					
45.73 m ² wide P-4, Item No-5					
@ 3857.09 m ² - Rs = 1,76,110.00					
(10) c.c. Pavement 1980					
94.92 m ² wide P-6 Item No-4					
@ 8046.41/m ² - Rs = 7,63,765.00					
(11) 11 Km stone					
2.0 No. wide P-6 Item No-07 Item No-6					
@ 2513.99/each Rs = 5028.00					
(11) 200 m Stone					
2.0 No. wide P-6 Item No-07, Item No-10 (11)					
@ 686.07/each Rs = 1,372.00					
(12) Traffic Sign					
(1) 600 mm in Top corner 4.0 No					
wide P-7 Item No-11					
@ 4105.18/each = Rs = 16,421.00					
(1) 600 mm x 450 mm Rectangular 2.0 No					
@ 5454.31/each Rs = 10904.00					
(13) Road Marking in BT Post Horn.					
65.0 m ² wide P-7					
@ 455.80/m ² Rs = 29,712.00					
(14) M.M. 434 Project Barrel					
3.0 No wide P-7 Item No-12					
2.0 No wide P-5 Item No-12					
5.0 No @ 10290.48/each					
Rs = 51452.00					
P.T.O.					

Continuation

Sch XIV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) Earth work Excavation					
29.80 m ² wide P-01 Item 10-8					
@ 258.29 / m ²					B = 7714.0
(16) P.C. M 15					
2.762 m ³ wide P-4, Item 10-99					
@ 6302.27 / m ³					B = 18,669.0
(17) Brick masonry work -					
27.65 m ² wide P-4, item-10					
@ 6581.45 / m ²					B = 1,81,979.0
(18) H.P. ϕ 1000 mm					
7.50 wide P-4,					
@ 3655.74 / m					B = 27,418.0

(19) Plaster work					
51.39 m ² wide P-6 item No-10					
@ 185.16 / m ²					B = 9,515.0
(20) Cement pointing -					
20.64 m ² wide P-6 item-11					
@ 48.69 / m ²					B = 1005.0
(21) Painting two coats					
51.39 m ² wide P-6 item-13					
@ 131.95 / m ²					B = 6,781.0
Total B = 29,81,436.0					
Less - 9.02% below B = (-) 596.0					
B = 29,80,840.0					

Allot. 223.693 =
vide let. No. 13 Date 4.2.21

C.P.

3030

12/2/21

Continuation

Signature
25/10/2020
P.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Sl. No.
					1
					2 Team
					Embarkment
					452 m ²
					328.88
					1403.86
					Soil
					33 m ² 0.5
					188.19
					168.15
					149.60
					0.56
					Lead
					98.25
					Dust
					40.72
					85.43
					1.42
					42.71
					Sand
					6.98
					1.30
					52.41
					59.17
					79.77
					40.72
					85.43
					52.41

Continuation

Sch XLV Form No. 13 2721693

13
Memo of Payment 2121693

Paid for ₹ 2231693- is (Twenty Two Lakh Thirty One Thousand Six Hundred Ninety Three) only.

Be 12.04/2021

$$\frac{12}{12} \mid \frac{10}{10} \mid \frac{21}{21}$$

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