

MR-N/19.20 CHAPRA-2/17 M.B.NO-3246

Schedule XLV-Form No. 134

To 5 to 13000000.

Ag.No.

~~Cont-Sri Rajeshwar Singh~~ DIVISION

~~Sri Ashok Kumar A.E~~ SUB-DIVISION

Jalalpur

MEASUREMENT BOOK

M.B.NO-3246

1st on A/c bill

Name for 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.	
H/W:- Repair & maintenance					
Work of Road from TOS					
to Bangs (Package NO-					
MR-11/19-20/Chapter-2/17)					
Under MR-3054 (Hew) at					
block Jalalpur.					
H/Agency - Sri Rajeshwar Singh					
Agg. NO-					
Date of start - 06.03.2020					
Date of Completion - 05.03.2021					
Date of measurement - 02.03.2021					
Item of work.					
① clearing & grubbing of					
road land.					
$2 \times 10 \times 30.00 \text{ m} \times 1.00 \text{ m} = 600.00 \text{ m}^2$					
$2 \times 10 \times 30.00 \text{ m} \times 1.00 \text{ m} = 600.00 \text{ m}^2$					
$2 \times 10 \times 30.00 \text{ m} \times 1.00 \text{ m} = 600.00 \text{ m}^2$					
$2 \times 5 \times 30.00 \text{ m} \times 1.00 \text{ m} = 300.00 \text{ m}^2$					
$2 \times 1 \times 10.00 \text{ m} \times 1.00 \text{ m} = 20.00 \text{ m}^2$					
Total = 2120.00 m ²					
= 0.212 Hect					
② Earthwork calculation for					
subgrade & Earthwork					
shoulder -					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No	chainage	C/S Area	Mean C/S Area	Dist	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
1	0.00	0.090	0.045	0.0	0.00
2	50	0.447	0.269	50	13.425
3	100	0.893	0.670	50	33.500
4	150	0.441	0.667	50	33.350
5	200	0.728	0.585	50	29.225
6	250	0.469	0.549	50	29.975
7	300	0.940	0.705	50	35.225
8	350	0.571	0.756	50	37.775
9	400	0.560	0.566	50	28.275
10	450	0.501	0.531	50	26.525
11	500	0.801	0.651	50	32.550
12	550	0.508	0.655	50	32.725
13	600	0.512	0.510	50	25.500
14	650	0.658	0.585	50	29.250
15	700	0.912	0.785	50	39.250
16	750	0.736	0.824	50	41.200
17	800	0.610	0.673	50	33.650
18	850	0.421	0.516	50	25.775
19	900	0.595	0.508	50	25.400
20	950	0.422	0.509	50	25.425
21	1000	0.294	0.358	50	17.900
22	1050	0.346	0.330	50	16.500
23	1100	0.578	0.472	50	23.600
Total E/W qty including crust					635.950 m ³

Continuation of C/O = 635.950 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Qty B/F =	635.95 m ³
	Less for		G.S.B.	(-)	24.24 m ³
	"	"	WBM-2	(-)	23.63 m ³
	611	17	WBM-3	(-)	41.46 m ³
	"	"	M.S.S	(-)	11.08 m ³
	"	"	S.D.B.C	(-)	99.35 m ³
Net Qty of E/W in earthen shoulder					= 436.19 m ³

③ Construction of granules

Sub-base by providing

well graded material.

Port Patch measurement -

$$5.60 \text{ m} \times 3.25 \text{ m} \times 0.175 \text{ m} = 3.18 \text{ m}^3$$

$$10.20 \text{ m} \times 3.20 \text{ m} \times 0.175 \text{ m} = 5.71 \text{ m}^3$$

$$7.35 \text{ m} \times 3.45 \text{ m} \times 0.175 \text{ m} = 4.43 \text{ m}^3$$

$$12.60 \text{ m} \times 2.30 \text{ m} \times 0.175 \text{ m} = 5.07 \text{ m}^3$$

$$9.20 \text{ m} \times 3.45 \text{ m} \times 0.175 \text{ m} = 5.85 \text{ m}^3$$

$$\text{Total} = 24.24 \text{ m}^3$$

④ P.V., Leasing, Spreading

& Compacting of WBM-2

Port measurement -

$$7.90 \text{ m} \times 3.30 \text{ m} \times 0.075 \text{ m} = 1.95 \text{ m}^3$$

$$12.50 \text{ m} \times 3.25 \text{ m} \times 0.075 \text{ m} = 3.04 \text{ m}^3$$

$$10.10 \text{ m} \times 3.30 \text{ m} \times 0.075 \text{ m} = 2.47 \text{ m}^3$$

$$15.70 \text{ m} \times 2.35 \text{ m} \times 0.075 \text{ m} = 2.76 \text{ m}^3$$

$$12.10 \text{ m} \times 3.60 \text{ m} \times 0.075 \text{ m} = 3.24 \text{ m}^3$$

$$5.30 \text{ m} \times 2.60 \text{ m} \times 0.075 \text{ m} = 1.03 \text{ m}^3$$

$$14.10 \text{ m} \times 3.20 \text{ m} \times 0.075 \text{ m} = 3.88 \text{ m}^3$$

$$16.10 \text{ m} \times 2.75 \text{ m} \times 0.075 \text{ m} = 3.30 \text{ m}^3$$

$$7.50 \text{ m} \times 3.50 \text{ m} \times 0.075 \text{ m} = 1.96 \text{ m}^3$$

$$\text{Continuation Total} = 23.63 \text{ m}^3$$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Plv, Leaping, Spreading & Compacting of WBM-3					
Pot measurement					
	9.20m	3.50m	0.075m		2.41 m ²
	13.50m	3.15m	0.075m		3.18 m ²
	11.50m	3.25m	0.075m		2.80 m ²
	17.50m	2.40m	0.075m		3.15 m ²
	13.50m	3.50m	0.075m		3.54 m ²
	7.20m	2.60m	0.075m		1.40 m ²
	17.50m	3.50m	0.075m		4.59 m ²
	17.00m	2.50m	0.075m		3.18 m ²
	9.00m	3.25m	0.075m		2.19 m ²
	8.50m	3.20m	0.075m		2.35 m ²
	9.80m	2.10m	0.075m		1.54 m ²
	11.70m	2.30m	0.075m		2.01 m ²
	8.25m	2.50m	0.075m		1.64 m ²
	9.90m	3.60m	0.075m		2.64 m ²
	12.00m	2.45m	0.075m		2.20 m ²
	16.00m	2.20m	0.075m		2.64 m ²
					Total = 41.46 m ²

⑥ Plv & applying primer coat with bitumen emulsion SS-1

Pot measurement					
④	9.20m	3.50m			32.20 m ²
	13.50m	3.15m			42.52 m ²
	11.50m	3.25m			37.37 m ²
	17.50m	2.40m			42.00 m ²

Continuation
Qty 40 = 154.09 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Plr & applying tack coat with bitumen emulsion PS-1					
1x	10x30.00m	3.75m			$= 1125.00 \text{ m}^2$
	10x30.00m	3.75m			$= 1125.00 \text{ m}^2$
	10x30.00m	3.75m			$= 1125.00 \text{ m}^2$
	5x30.00m	3.75m			$= 562.50 \text{ m}^2$
	1x10.00m	3.75m			$= 37.50 \text{ m}^2$
Total =					3975.00 m^2
(10) Plr & laying self dense bituminous concrete as per technical specifications					
1x	10x30.00m	3.75m	0.025m		$= 28.12 \text{ m}^3$
	10x30.00m	3.75m	0.025m		$= 28.12 \text{ m}^3$
1x	10x30.00m	3.75m	0.025m		$= 28.12 \text{ m}^3$
	5x30.00m	3.75m	0.025m		$= 14.06 \text{ m}^3$
	1x10.00m	3.75m	0.025m		$= 0.93 \text{ m}^3$
Total =					99.35 m^3
(11) Plr & laying R.C.C. mix grade concrete stones = 02 Nos					
(12) Plr & laying 200mm stones = 05 Nos					
(13) Plr & erecting direction & place identification sign board					
2x	1.20m	0.80m			$= 1.92 \text{ m}^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) plv & fixing of retro-reflectors on 600m equilateral triangle. board = 18 NOS					
(15) 600m Circles = 07 NOS					
(16) 600mx450m rectangle = 07 NOS					
(17) Printing new letter & figure of amyshade = 250/cu					
(18) plv & fixing R.C.C MIS grade boundary pillars					
At 0.00m. 2x 4 NOS = 08 NOS					
At curve 2x 6 NOS = 12 NOS					
At Culvert 2x 8 NOS = 16 NOS					
Total = 36 NOS					
(19) planting of trees by the road side					
At chainage 0.00 Km - 1.00 Km = 45 NOS					
At chainage 1.00 Km - 1.10 Km = 05 NOS					
Total = 50 NOS					
(20) plv & laying of hft applied thru plastic compound 2.5mm thick.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x 10x30.00m x 0.10m = 60.00m ²					
2x 10x30.00m x 0.10m = 60.00m ²					
2x 10x30.00m x 0.10m = 60.00m ²					
2x 5x30.00m x 0.10m = 30.00m ²					
2x 1x10.00m x 0.10m = 2.00m ²					
				Total =	212.00m ²
(21) Plv & fixing of typical mm 4.5Y in formaly sign board with logo = 04 NOS.					
(22) Brick masonry work in cement mortar 1:3 in parapet wall for H.P. Culvert - 1x1000mm - 03 NOS					
3x 2x 6.00m x 0.40m x 0.60m = 8.64m ³					
(23) Plastering with cement mortar 1:4 on brickwork					
Outer side					
3x 2x 6.00m x 0.60m = 21.60m ²					
Inner side					
3x 2x 6.00m x 0.60m = 21.60m ²					
Top,					
3x 2x 6.00m x 0.60m = 14.40m ²					
Ends,					
3x 2x 2x 0.40m x 0.60m = 2.88m ²					
				Total =	60.48m ²
(24) Painting two coats on net surface					
Side,					
3x 2x 2x 6.00m x 0.60m = 43.20m ²					
Top,					
3x 2x 6.00m x 0.40m = 14.40m ²					
Ends,					
3x 2x 2x 0.40m x 0.60m = 2.88m ²					
				Total =	60.48m ²

Continuation

Mdm
02/03/24
(J.E)

3/3/2024
AC

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of Cost</u>					
<u>1</u> clearing & grubbing of road land -					
0.212 Hect, vide TMBP-1					
(a) Rs 49496=70/Hect-Rs					10,493=00
<u>2</u> construction of subgrade & earthen shoulder					
436.19 m ³ , vide TMBP-3					
(a) Rs 176=76/m ³ - Rs					77188=00
<u>3</u> construction of granular sub-base by partially well graded material					
24.24 m ³ , vide TMBP-3					
(a) Rs 2152=94/m ³ - Rs					52,187=00
<u>4</u> plv, leveling, spreading & compaction of WBM-2					
23.63 m ³ , vide TMBP-3					
(a) Rs 3971=171/m ³ - Rs					93839=00
<u>5</u> plv, leveling, spreading & compaction of WBM-2					
41.46 m ³ , vide TMBP-4					
(a) Rs 3550=137/m ³ - Rs					1,47,198=00
<u>6</u> plv & applying Primer coat with bitumen emulsion					
554.11 m ² , vide TMBP-5					
(a) Rs 41=46/m ² - Rs					22,973=00

Continuation

40 Rs 4707
4,03,868=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF PS		4,03,868 =
7 7					
Plv & applying tack coat					
with bitumen emulsion PS-1					
565.18					
MS 554.4 m ² , vide TMBP-5					
(6) PS 14006/m ² — B					794620
8 8					
Plv, laying & rolling of					
close-graded premix					
surfacing material					
565.18 m ² , vide TMBP-5					
(6) PS 22359/m ² — B					1,26,369 =
9 9					
Plv & applying tack					
coat with bitumen					
emulsion PS-1					
3975.60 m ² , vide TMBP-6					
(6) PS 12222/m ² — B					4857420
10 10					
Plv & Laying Semi dense					
bituminous concrete					
as per technical					
specification					
99.35 m ³ , vide TMBP-6					
(6) PS 10771 = 61/m ³ — B					10,70,159 =
11 11					
Plv & fixing R.C. CM 15					
grade kilometre					
stones					
02 Nos, vide TMBP-6					
(6) PS 223341/110 — B					446720
			40 PS		16,61,383 =

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/E B		16,61,383=0
$\frac{12}{12}$ Plv & fixing 200m stone					
05 NOS, vide TMBP-6					
① Ps 622=34/NO-B					3112=0
$\frac{12}{13}$ Plv & correctly delineate					
& place identification					
sign board					
1.92 m ² , vide TMBP-6					
① Ps 12317=39/m ² -B					23,649=0
$\frac{14}{14}$ Plv & fixing of section					
reflectors of traffic					
sign board					
lamp on aqueduct					
& triangle					
18 NOS, vide TMBP-7					
① Ps 3628=79/NO-B					65318=0
$\frac{15}{15}$ 600mm circular					
07 NOS, vide TMBP-7					
① Ps 3728=14/NO-B					26097=0
$\frac{16}{16}$ 600m x 450m rectangular					
07 NOS, vide TMBP-7					
① Ps 3597=02/NO-B					25193=0
$\frac{17}{18}$ Printing new letter					
& figure of any shade					
250/cmhunt, vide TMBP-7					
① Ps 0251/NO-B					1272=0
			C/O Ps		18,04,879=0

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/E P	18,04,879=
$\frac{18}{12}$	P.V. & Binding			R.C.C. M/S	
				grade boundary pillar	
				36 Nos, vide TMBP-7	
				(Q) P 502=12/NO-P	18,076=00
$\frac{19}{19}$	Planting of trees				
				by the road side	
				50 Nos, vide TMBP-7	
				(Q) P 800=30/NO-P	40,015=00
$\frac{20}{20}$	P.V. & Laying of hot				
				applied thermoplastic	
				Compound 2.5 cm	
				1 cm - K.	
				212.00 m ² , vide TMBP-8	
				(Q) P 735=40/m ² -P	1,55,905=00
$\frac{21}{21}$	P.V. & Binding of typical				
				MMGY intermetal sign	
				board with logo	
				04. Nos, vide TMBP-8	
				(Q) P 9285=91/NO-P	37,144=00
$\frac{22}{22}$	Brick masonry work				
				in cm (1:3) in brick	
				wall.	
				8.64 m ³ , vide TMBP-8	
				(Q) P 8102=55/m ³ -P	44,086=00
				10 P	21,00,105=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF	PS	21,00,105=00
23. plastering with c.m 1:4 on brick work.					
60.48 m ² vide TMBP-8					
@ PS 144=16/m ² —PS					8779=00
24. Painting two coats on new surface.					
60.48 m ² vide TMBP-8					
@ PS 95=63/m ² —PS					5784=00
Total, PS					21,14,608=00
Add 1% (L.C.A.) + PS					21,146=00
Add 12% (GST) + PS					2,53,753=00
Total, PS					23,89,507=00

(Rupees Twenty three Lakh,
Eighty nine thousand, five
hundred & seven) only.

M.M.
02/03/21

(J.E)

Yashwanth
3/3/21
AC

G.P.
23/3/21

Continuation