

PR-N/19.20 CHARRA-2-119

PR.13.NO-3261

~~TDS Jalalpur Balidha road to L026 Rajkumarpur~~

Schedule XLV-Form No. 134

Ag.NO-05JMBD/2020-21

Cont: Sri. Mukesh Singh

DIVISION

Sri-Ashok Kumar (A.E)

Jalalpur

SUB-DIVISION

Measurement Book

PR.B.NO-3261

1st on A/c bill

~~1st & Final bill~~ m/m

1

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.	
N/W:- Repair & maintenance work of Road from To5 Jalalpur Baldiha road to Lark Raghunathpur under MR-3054 (New) at block Jalalpur					
Package No - MR/N/19-20 chapter 2/18					

Agg. No — 05/ MRD/ 2020-21					
Date of start — 06.03.2020					
Date of Completion — 05.03.2021					
Date of measurement — 28.02.2021					

Items of work					
(1) clearing & grubbing of road land,					
2x 20x30.10m x 1.00m = 1200.10m ²					
2x 20x30.10m x 1.00m = 1200.10m ²					
2x 20x30.10m x 1.00m = 1200.10m ²					
2x 20x30.10m x 1.00m = 1200.10m ²					
2x 20x30.10m x 1.00m = 1200.10m ²					

Continuation Qty. = 6000.10m²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F		6000.00 m ²
	2x	3x30.00 m	1.00 m		180.00 m ²
	2x	1x10.00 m	1.00 m		20.00 m ²
			Total =		6200.00 m ²
					20.62 Hec/

(2) Earthwork calculation -

for Earthen shoulder (including const)

S.NO	chainage (m)	C/S Area (m ²)	Mean C/S Area (m ²)	Dist (m)	Volume (m ³)
1	0+00	1.110	0.555	0+00	0.00
2	50	0.450	0.780	50	39.00 m ³
3	100	0.350	0.400	50	20.00 m ³
4	150	0.650	0.500	50	25.00 m ³
5	200	0.340	0.495	50	24.75 m ³
6	250	0.540	0.440	50	22.00 m ³
7	300	0.650	0.595	50	29.75 m ³
8	350	0.670	0.660	50	33.00 m ³
9	400	0.340	0.505	50	25.25 m ³
10	450	0.360	0.350	50	17.50 m ³
11	500	0.320	0.340	50	17.00 m ³
12	550	0.450	0.385	50	19.25 m ³
13	600	0.540	0.495	50	24.75 m ³
14	650	0.760	0.650	50	32.50 m ³

Continuation Qty c/o = 329.75 m³

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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
			Qty	BIF =	
15	700	0.240	0.550	50	27.50 m ³
16	750	0.880	0.610	50	30.50 m ³
17	800	0.650	0.765	50	28.25 m ³
18	850	0.680	0.665	50	33.25 m ³
19	900	0.612	0.646	50	32.30 m ³
20	950	0.430	0.521	50	26.05 m ³
21	1000	0.723	0.577	50	28.825 m ³
22	1050	0.240	0.482	50	24.075 m ³
23	1100	0.760	0.500	50	25.00 m ³
24	1150	0.430	0.595	50	29.75 m ³
25	1200	0.770	0.600	50	30.00 m ³
26	1250	0.450	0.610	50	30.50 m ³
27	1300	0.630	0.540	50	27.00 m ³
28	1350	0.530	0.580	50	29.00 m ³
29	1400	0.880	0.705	50	35.25 m ³
30	1450	0.850	0.865	50	43.25 m ³
31	1500	0.640	0.745	50	37.25 m ³
32	1550	0.750	0.695	50	34.75 m ³
33	1600	0.620	0.685	50	34.25 m ³
34	1650	0.650	0.635	50	31.75 m ³
35	1700	0.450	0.550	50	27.50 m ³
Continuation					Qty 102.985.75 m ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No change of S Area of S Area Dist volume	(m)	(m)	(m)	(m)	m ²
					985.75 m ²
36	1750	0.340	0.395	50	19.75 m ²
37	1800	0.540	0.440	50	22.00 m ²
38	1850	0.450	0.495	50	24.75 m ²
39	1900	0.760	0.605	50	30.25 m ²
40	1950	0.650	0.705	50	35.25 m ²
41	2000	0.640	0.645	50	32.25 m ²
42	2050	0.340	0.490	50	24.50 m ²
43	2100	0.450	0.395	50	19.75 m ²
44	2150	0.760	0.605	50	30.25 m ²
45	2200	0.500	0.630	50	31.50 m ²
46	2250	0.450	0.475	50	23.75 m ²
47	2300	0.760	0.605	50	30.25 m ²
48	2350	0.850	0.805	50	40.25 m ²
49	2400	0.750	0.800	50	40.00 m ²
50	2450	0.460	0.605	50	30.25 m ²
51	2500	0.350	0.405	50	20.25 m ²
52	2550	0.450	0.400	50	20.00 m ²
53	2600	0.350	0.400	50	20.00 m ²
54	2650	0.650	0.500	50	25.00 m ²
55	2700	0.630	0.640	50	32.00 m ²
56	2750	0.450	0.540	50	27.00 m ²
57	2800	0.750	0.600	50	30.00 m ²
58	2850	0.450	0.600	50	30.00 m ²

Continuation of 1624.75 m²

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)
			Qty B/F =		1624.25 m ³
59	2900	0.350	0.400	50	20.10 m ³
60	2950	0.670	0.510	50	25.50 m ³
61	3000	0.650	0.660	50	33.10 m ³
62	3050	1.330	0.990	50	49.50 m ³
63	3100	0.450	0.890	50	44.50 m ³
E/W Qty including cut & fill =					1797.25 m ³
Less for G.S.B					(-) 67.91 m ³
Less for WBM-2					(-) 65.42 m ³
Less for WBM-3					(-) 107.35 m ³
Less for M.S.S					(-) 29.63 m ³
Less for SDBC					(-) 290.61 m ³
Net Qty of E/W in Earthen shoulder =					1236.33 m ³
③ Construction of granular					
Sub-base by providing well					
graded material.					
Pot Patches measurement					
6.50 m x 1.50 m x 0.175 m = 1.70 m ³					
1.50 m x 2.70 m x 0.175 m = 0.70 m ³					
7.90 m x 3.10 m x 0.175 m = 4.28 m ³					
Continuation					Qty 40 = 6.68 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F =		6.68 m ³
12.85 m x	3.00 m	x 0.175 m =			6.74 m ³
10.20 m x	3.30 m	x 0.175 m =			5.89 m ³
7.75 m x	3.10 m	x 0.175 m =			4.106 m ³
8.20 m x	2.40 m	x 0.175 m =			3.44 m ³
6.10 m x	3.20 m	x 0.175 m =			3.52 m ³
5.25 m x	3.15 m	x 0.175 m =			2.89 m ³
9.20 m x	3.30 m	x 0.175 m =			5.31 m ³
8.50 m x	2.50 m	x 0.175 m =			3.71 m ³
5.10 m x	3.25 m	x 0.175 m =			2.90 m ³ 3.52 m³
13.25 m x	3.00 m	x 0.175 m =			2.90 m ³ 6.95 m³

9.10 m x	2.25 m	x 0.175 m =			3.54 m ³
8.10 m x	2.50 m	x 0.175 m =			3.50 m ³
7.20 m x	3.30 m	x 0.175 m =			4.15 m ³
5.10 m x	3.10 m	x 0.175 m =			2.62 m ³
6.50 m x	3.30 m	x 0.175 m =			3.75 m ³
			Total =		69.65 m ³
			Qty limit =		67.91 m ³

(4) P.V. Laying, spreading & compacting of WBM-2					
Pot patches measurement -					
2x	9.20 m	x 2.60 m	x 0.075 m =		3.58 m ³
2x	12.50 m	x 3.10 m	x 0.075 m =		5.81 m ³
2x	9.80 m	x 2.50 m	x 0.075 m =		3.67 m ³

Continuation Qty clc = 13.06 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F =		13.06 m ³
4x	8.25m	3.20m	x 0.075m =		7.92 m ³
3x	11.50m	2.75m	x 0.075m =		7.11 m ³
2x	9.50m	3.15m	x 0.075m =		4.48 m ³
2x	12.50m	2.35m	x 0.075m =		4.40 m ³
3x	8.75m	3.20m	x 0.075m =		6.30 m ³
2x	11.20m	2.75m	x 0.075m =		4.62 m ³
2x	6.50m	3.00m	x 0.075m =		2.92 m ³
2x	14.70m	2.70m	x 0.075m =		5.95 m ³
2x	11.50m	3.00m	x 0.075m =		5.17 m ³
2x	9.50m	2.45m	x 0.075m =		3.49 m ³

Total = 65.42 m³

(5) Plv, Leaping, spreading & Compac-
-ting of WBM-3

for patches measured -

2x	10.70m	2.90m	x 0.075m =		4.65 m ³
2x	14.30m	3.30m	x 0.075m =		7.07 m ³
2x	10.50m	2.75m	x 0.075m =		4.23 m ³
4x	9.75m	3.75m	x 0.075m =		10.96 m ³
3x	12.00m	3.20m	x 0.075m =		8.64 m ³
2x	11.20m	3.20m	x 0.075m =		5.54 m ³
2x	13.75m	2.50m	x 0.075m =		5.15 m ³
3x	9.35m	3.75m	x 0.075m =		7.88 m ³
2x	11.50m	3.00m	x 0.075m =		5.17 m ³

Continuation

Qty C/O = 59.39 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x 11.20m x 2.70m x 0.075m = 59.39m ³					
3x 8.20m x 2.50m x 0.075m = 4.61m ³					
4x 7.00m x 2.75m x 0.075m = 5.77m ³					
2x 12.00m x 3.00m x 0.075m = 5.40m ³					
3x 8.50m x 2.90m x 0.075m = 5.54m ³					
4x 6.80m x 2.30m x 0.075m = 4.69m ³					
2x 8.50m x 3.75m x 0.075m = 4.78m ³					
2x 15.30m x 3.00m x 0.075m = 6.88m ³					
2x 12.20m x 3.20m x 0.075m = 5.85m ³					
					Total = 107.44m ³
					Qty Unit = 107.35m ³

⑥	Plv and applying Primer				
	Coat with bitumen emulsion				
	SS-1				
	Net Area =	Qty of WBM-3			
		0.075m			
		=	107.35m ²		
			0.075m		
			= 1431.33m ²		

⑦	Plv & applying tack coat				
	with bitumen emulsion PS-1				
	Net Area = As per Prime				
	(B.T. portion)	Coat Area			
		= 1431.33m ²			
	gn p.c.c. Area,				
	4x 5.50m x 2.30m = 50.60m ²				

Continuation

Total = 1481.93m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Plv, laying and rolling of close graded premix surfacing material of 20mm thickness.					
Net Area = Qty as per task					
Coat Area					
= 1481.93 m ²					

⑨ Plv & applying tack coat with bitumen emulsion RS-1					
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1x 20x30.00m x 3.75m =	2250.00m ²
1x 20x30.00m x 3.75m =	2250.00m ²
1x 20x30.00m x 3.75m =	2250.00m ²
1x 20x30.00m x 3.75m =	2250.00m ²
1x 20x30.00m x 3.75m =	2250.00m ²
1x 3x30.00m x 3.75m =	337.50m ²
1x 1x10.00m x 3.75m =	37.50m ²
Total =	11625.00m ²

⑩ Plv and laying of semi dense bituminous concrete as per technical specification.					
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1x 20x30.00m x 3.75m x 0.025m =	56.25m ³
1x 20x30.00m x 3.75m x 0.025m =	56.25m ³

Continuation

Qty 10 = 112.50m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Qty BIF =	112.50 m ³
1 x	20 x 30 x 100 m	3.75 m	0.025 m		56.25 m ²
1 x	20 x 30 x 100 m	3.75 m	0.025 m		56.25 m ²
1 x	20 x 30 x 100 m	3.75 m	0.025 m		56.25 m ²
1 x	3 x 30 x 100 m	3.75 m	0.025 m		8.43 m ²
1 x	1 x 10 x 10 m	3.75 m	0.025 m		0.93 m ²
				Total =	290.61 m ²

(11) PIV & Fixing of R.C. & M15
grade & Kilometer stones = 04 Nos

(12) PIV & Fixing of 200 m
stones = 13 Nos.

(13) PIV & erecting direction
& place identification
sign board = $2 \times 1.20 \text{ m} \times 0.80 \text{ m}$
= 1.92 m²

(14) PIV & Fixing of
retro-reflectorised
intermediate sign board
600 mm equilateral &
triangle = 20 Nos

(15) 600 mm circular = 08 Nos

(16) 600 mm x 450 mm rectangle
= 08 Nos

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17) P/V & fixing of R.C.C. MIS grade boundary pillars					
At curve - $4 \times 4 \times 4 = 64$ NOS					
At curve - $4 \times 5 = 20$ NOS					
Total = 84 NOS					
(18) P/V & planting of trees by the road side, all complete work =					
At ch-0 - 1.00 km = 42 NOS					
At ch-1.00 km - 2.00 km = 58 NOS					
At ch-2.00 km - 3.00 km = 50 NOS					
At ch-3.00 km - 3.10 km = 5 NOS					
Total = 155 NOS					
(19) P/V & Laying of hot applied thermoplastic compound 2.5mm thick.					
$2 \times 20 \times 30.00 \text{ m} \times 0.10 \text{ m} = 120.00 \text{ m}^2$					
$2 \times 20 \times 30.00 \text{ m} \times 0.10 \text{ m} = 120.00 \text{ m}^2$					
$2 \times 20 \times 30.00 \text{ m} \times 0.10 \text{ m} = 120.00 \text{ m}^2$					
$2 \times 20 \times 30.00 \text{ m} \times 0.10 \text{ m} = 120.00 \text{ m}^2$					
$2 \times 20 \times 30.00 \text{ m} \times 0.10 \text{ m} = 120.00 \text{ m}^2$					
$2 \times 3 \times 30.00 \text{ m} \times 0.10 \text{ m} = 18.00 \text{ m}^2$					
$2 \times 1 \times 10.00 \text{ m} \times 0.10 \text{ m} = 2.00 \text{ m}^2$					
Total = 620.00 m ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(20) Plastering of typical masonry intermediate sign board with Logo = 04 Nos.					
(21) Brick masonry work in cement mortar 1:3 in parapet wall					
(For H.P. column = 07 Nos)					
7 x 2 x 6.10m x 0.40m x 0.600m = 20.16m ²					
(22) Plastering with cement mortar 1:4 on brickwork					

outside					
7 x 2 x 6.10m x 0.600m = 50.40m ²					
inner side.					
7 x 2 x 6.10m x 0.600m = 50.40m ²					
Top, 7 x 2 x 6.10m x 0.400m = 33.60m ²					
End, 7 x 2 x 2 x 0.400m x 0.600m = 6.72m ²					
Total = 141.12m ²					

(23) Painting two coats on new surface					
Outer face, 7 x 2 x 6.10m x 0.600m = 50.40m ²					
inner face, 7 x 2 x 6.10m x 0.600m = 50.40m ²					
Top, 7 x 2 x 6.10m x 0.400m = 33.60m ²					
End, 7 x 2 x 2 x 0.400m x 0.600m = 6.72m ²					
Total = 141.12m ²					

Mam
28/02/21
(J.E)

Continuation

Prishu
28/2/21
A.C

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
$\frac{1}{1}$ clearing & grubbing of road land					
0.62 Hect, vide TMBP-2					
① Rs 49496 = 70/Hect - Rs					30,688 = 00
$\frac{2}{2}$ Construction of subgrade & earth shoulder					
1236.33 m ³ , vide TMBP-5					
② Rs 176276/m ³ - Rs					2,18,781 = 00
$\frac{3}{3}$ Construction of granular sub-base by manually cut & graded material					
67.91 m ³ , vide TMBP-6					
③ Rs 218973/m ³ - Rs					1,48,705 = 00
$\frac{4}{4}$ Plv, levelling, spreading & compaction of WBM-2					
65.42 m ³ , vide TMBP-7					
④ Rs 4049223/m ³ - Rs					2,64,901 = 00
					Rs 6,63,075 = 00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B1 B Ps	6,63,075=0
5. P/V, Leasing, spreading					
& compacting of WBM-3					
107.35 m ² vide TMBP-8					
① Ps 3619=60 / m ² — Ps					3,88,564=00
6. P/V & applying primer					
coat with bitumen					
emulsion SS-1					
1431.33 m ² , vide TMBP-8					
① Ps 41=49 / m ² — Ps					59,386=00

7. P/V & applying tack					
coat with bitumen					
emulsion Ps-1					
1481.93 m ² , vide TMBP-8					
① Ps 14=07 / m ² — Ps					20,851=00
8. P/V, Leasing & rolling					
of close-grained premix					
surfacing material,					
1481.93 m ² , vide TMBP-9					
① Ps 2.25=10 / m ² — Ps					3,33,582=00
				clb Ps	14,65,458=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				415 RS	14,65,458 = 00
$\frac{9}{9}$ Pl & applying tack					
Coar with bitumen					
emulsion RS-1					
11625.00 m ² , vide TMBP-9					
① RS 12223/m ² - RS					1,42,174 = 00
$\frac{10}{10}$ Pl & applying 3cm					
dense bituminous					
concrete as per					
technical specification					

290.01 m ² , vide TMBP-10					
① RS 10852 = 30/m ² - RS					31,53,787 = 00
$\frac{11}{11}$ Pl & lining of R.C.C					
MIS grade, 100mm					
stones					
04407, vide TMBP-10					
① RS 2251 = 21 / No - RS					9005200
$\frac{12}{12}$ Pl & lining 200mm					
stones					
13.00 No, vide TMBP-10					
① RS 625 = 50 / No - RS					8131000
				①0 RS	47,78,555 = 00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/P, P	49,76,019=0
$\frac{18}{19}$ P/V & Planting of trees by the road sides					
155.00 Nos, vide TMBP-11					
① P 800230/NO - P					1,24,047=0
$\frac{19}{20}$ P/V & Laying of hot applied thermoplastic compound 2.5 mm thick.					
620.00 m ² , vide TMBP-11					
① P 735=40/m ² - P					4,55,948=0
$\frac{20}{21}$ P/V & fixing of typical mm ⁴ V information sign board with logo.					
04 Nos, vide TMBP-12					
① P 9302=57/100					37,210=0
$\frac{21}{22}$ Brick masonry work in cement mortar 1:2 in parapet wall.					
20.16 m ³ , vide TMBP-12					
① P 5102=55/m ³ - P					1,02,867=0
				C/O P	56,96,091=0

Continuation

