

1st & Final bill

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 measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W:- Construction of Road from Dewariya Bazar to shekhpura via Vijay gram talq. under mmrty (sc) at block jalalpur.					
N/Agency - Sri Rajbhashan Singh					
Agg. NO - 39/SBD/2020-21					
Date of start - 25.08.2020					
Date of Completion - 24.08.2021					
Date of measurement - 23.08.2021					

Items of work.

①	PLV & fixing of working benchmark pillars & reference pillar = 2.030 Km				
②	clearing & grubbing of road land.				
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 10 \times 30.00m \times 1.00m =$	600.00m ²			
	$2 \times 7 \times 30.00m \times 1.00m =$	420.00m ²			
	$2 \times 1 \times 20.00m \times 1.00m =$	40.00m ²			

Continuation Total = 4060.00m²
 = 0.406 Hect

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Box cutting - Excavation for roadway in soil using manual means.					
For B.T. Portion,					
	2x	10x30.00m	x 0.525m	x 0.10m	= 31.50m ³
	2x	4x30.00m	x 0.525m	x 0.10m	= 12.60m ³
	2x	1x15.00m	x 0.525m	x 0.10m	= 1.57m ³
	2x	10x30.00m	x 0.525m	x 0.10m	= 31.50m ³
	2x	10x30.00m	x 0.525m	x 0.10m	= 31.50m ³
	2x	10x30.00m	x 0.525m	x 0.10m	= 31.50m ³
	2x	1x15.00m	x 0.525m	x 0.10m	= 1.57m ³
For C.C. Portion,					
	2x	3x30.00m	x 0.375m	x 0.10m	= 6.75m ³
	2x	1x10.00m	x 0.375m	x 0.10m	= 0.75m ³
	2x	9x30.00m	x 0.375m	x 0.10m	= 22.50m ³
	2x	9x30.00m	x 0.375m	x 0.10m	= 20.25m ³
	2x	1x10.00m	x 0.375m	x 0.10m	= 0.75m ³
	Total =				192.74m ³
④ Construction of embankment with approved material deposited from roadway cutting.					
Net Qty = 60 % of excavated soil.					
= 60% of 192.74 m ³					
= 115.64 m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) Construction of Embankment — with material obtained from borrow pits upto with a lead upto 1000m & 100 m. Earthwork Calculation —					
Sl. No	chainage	qs Area	Mean c/s Area	Dist.	volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
1	0	2.117	1.058	0	0.00
2	50	1.940	2.029	50	101.450
3	100	2.784	2.362	50	118.100
4	150	1.481	2.133	50	106.65
5	200	1.804	1.643	50	82.150
6	250	2.609	2.267	50	110.350
7	300	2.072	2.341	50	117.050
8	350	1.416	1.744	50	87.200
9	400	1.609	1.513	50	75.650
10	450	1.323	1.466	50	73.300
11	500	1.999	1.661	50	83.050
12	550	1.710	1.855	50	92.750
13	600	1.406	1.558	50	77.900
14	650	1.693	1.550	50	77.500
15	700	2.042	1.868	50	93.400
16	750	1.847	1.945	50	97.250
17	800	1.704	1.776	50	88.800
18	850	1.400	1.552	50	77.600
19	900	1.656	1.528	50	76.400

Continuation

Qty c/s = 1636.55 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
St No chainage	c/s Area	mean c/s Area	Dist	volume	
	(m)	(m ²)	(m ²)	(m)	(m ³)
			Qty B/F =	1636.550 m ³	
20	950	1.535	1.596	50	79.800
21	1000	1.366	1.451	50	72.550
22	1050	1.419	1.393	50	69.650
23	1100	1.639	1.529	50	76.450
24	1150	1.676	1.658	50	82.900
25	1200	1.090	1.383	50	69.150
26	1250	1.445	1.268	50	63.400
27	1300	1.980	1.713	50	85.650
28	1350	1.540	1.760	50	88.00
29	1400	1.892	1.716	50	85.800
30	1450	1.697	1.795	50	89.750
31	1500	2.100	1.899	50	94.950
32	1550	1.503	1.802	50	90.100
33	1600	1.700	1.602	50	80.100
34	1650	1.423	1.565	50	78.350
35	1700	1.999	1.714	50	85.700
36	1750	1.701	1.850	50	92.500
37	1800	1.538	1.620	50	81.000
38	1850	1.772	1.655	50	82.750
39	1900	2.028	1.900	50	95.000
40	1950	1.886	1.952	50	97.850
41	2000	1.740	1.813	50	90.650
42	2030	Continuation 1.424	1.584	30	47.520
Total Qty c/o					= 3516.02 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Qty B/F =	3516.02 m ³
① Total E/W Qty (Including crust)					3516.02 m ³
Less for G.S.B-26					771.26 m ³
Less for W.B.M-3 (-)					576.41 m ³
" " P.C.C (-)					410.95 m ³
" " M.S.S (-)					102.26 m ³
Total Qty of E/W					1655.14 m ³
Less for Earthen shoulder					663.75 m ³
Less for E/W from roadway cutting (-)					115.65 m ³
Net Qty of E/W in embankment					875.74 m ³

⑥ Construction of granular sub-base by primary coarse graded material.					
For B.T. portion,					
on box cutting —					
2 x	10 x 30.00 m	0.525 m	0.10 m		31.50 m ³
2 x	4 x 30.00 m	0.525 m	0.10 m		12.60 m ³
2 x	1 x 15.00 m	0.525 m	0.10 m		1.57 m ³
2 x	10 x 30.00 m	0.525 m	0.10 m		31.50 m ³
2 x	10 x 30.00 m	0.525 m	0.10 m		31.50 m ³
2 x	10 x 30.00 m	0.525 m	0.10 m		31.50 m ³
2 x	1 x 15.00 m	0.525 m	0.10 m		1.57 m ³
				Qty of	141.74 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Qty B/F =	141.74 m ²
3m full width—					
1x 10x30.00m x 4.050m x 0.10m =					121.50 m ³
1x 4x30.00m x 4.050m x 0.10m =					48.60 m ³
1x 1x15.00m x 4.050m x 0.10m =					6.07 m ³
1x 10x30.00m x 4.050m x 0.10m =					121.50 m ³
1x 10x30.00m x 4.050m x 0.10m =					121.50 m ³
1x 10x30.00m x 4.050m x 0.10m =					121.50 m ³
1x 1x15.00m x 4.050m x 0.10m =					6.07 m ³
For profile correction—					
2x 5.15m x 2.50m x 0.10m =					2.57 m ³
4x 3.85m x 3.75m x 0.10m =					5.77 m ³
2x 4.80m x 2.050m x 0.10m =					1.96 m ³
4x 3.90m x 3.75m x 0.10m =					5.85 m ³
For extra widening of H-curve,					
2x 5.80m x 0.60m x 0.10m =					0.69 m ³
3x 6.00m x 0.570m x 0.10m =					1.02 m ³
2x 2.50m x 2.00m x 0.10m =					1.00 m ³
3x 6.00m x 0.550m x 0.10m =					0.99 m ³
4x 5.50m x 0.60m x 0.10m =					1.32 m ³
2x 6.00m x 0.550m x 0.10m =					0.66 m ³
3x 5.80m x 0.650m x 0.10m =					1.13 m ³
For c.c. portion—					
3m box cutting—					
2x 3x30.00m x 0.375m x 0.10m =					6.75 m ³
2x 1x10.00m x 0.375m x 0.10m =					0.75 m ³

Continuation

Qty C/C = 718.94 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty	B/F	718.94 m^3
2x	10x30.00m	x 0.375m	x 0.10m		$= 22.50 \text{ m}^3$
2x	9x30.00m	x 0.375m	x 0.10m		$= 20.25 \text{ m}^3$
2x	1x10.00m	x 0.375m	x 0.10m		$= 0.75 \text{ m}^3$
For possible correction.					
	4x	3.90m	x 3.75m	x 0.10m	$= 5.85 \text{ m}^3$
	2x	4.10m	x 3.75m	x 0.10m	$= 3.07 \text{ m}^3$
			Total		$= 771.36 \text{ m}^3$
			Qty limit		$= 771.26 \text{ m}^3$
For extra width of H-cure					
	2x	5.70m	x 0.500m	x 0.10m	$= 0.57 \text{ m}^3$
			Total		$= 771.93 \text{ m}^3$
			Qty limit		$= 771.26 \text{ m}^3$
(7) P.V., Laying, spreading & Compacting of W.B.M-3					
For B.T. portion.					
	1x	10x30.00m	x 3.75m	x 0.075m	$= 84.375 \text{ m}^3$
	1x	4x30.00m	x 3.75m	x 0.075m	$= 33.75 \text{ m}^3$
	1x	1x15.00m	x 3.75m	x 0.075m	$= 4.21 \text{ m}^3$
	1x	10x30.00m	x 3.75m	x 0.075m	$= 84.375 \text{ m}^3$
	1x	10x30.00m	x 3.75m	x 0.075m	$= 84.375 \text{ m}^3$
	1x	10x30.00m	x 3.75m	x 0.075m	$= 84.375 \text{ m}^3$
	1x	1x15.00m	x 3.75m	x 0.075m	$= 4.21 \text{ m}^3$
			Qty	40	$= 379.67 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F =		379.67 m ²
For Extra widening of H-curve					
	2x	5.80 m	0.60 m	0.075 m	= 0.52 m ²
	3x	6.10 m	0.570 m	0.075 m	= 0.76 m ²
	2x	2.50 m	2.10 m	0.075 m	= 0.75 m ²
	3x	6.10 m	0.550 m	0.075 m	= 0.74 m ²
	4x	5.50 m	0.60 m	0.075 m	= 0.99 m ²
	2x	6.10 m	0.530 m	0.075 m	= 0.49 m ²
	3x	5.80 m	0.650 m	0.075 m	= 0.84 m ²
For C.C. Paving.					
	1x	3x30.10 m	3.75 m	0.075 m	= 25.31 m ²
	1x	1x10.10 m	3.75 m	0.075 m	= 2.81 m ²

	1x	10x30.10 m	3.75 m	0.075 m	= 84.37 m ²
	1x	9x30.10 m	3.75 m	0.075 m	= 75.93 m ²
	1x	1x10.10 m	3.75 m	0.075 m	= 2.81 m ²
Extra width for H-curve					
	2x	5.70 m	0.570 m	0.075 m	= 0.42 m ²
			Total =		576.41 m ²

(8) Plv & applying Primer coat with bitumen emulsion SS-1.					
	10x	30.10 m	3.75 m		= 1125.10 m ²
	4x	30.10 m	3.75 m		= 450.10 m ²
	1x	15.10 m	3.75 m		= 56.25 m ²
			Qty @ 10 =		1631.25 m ²

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Qty B/F	1631.25 m ²
	10	30.10 m	3.75 m	=	1125.00 m ²
		10 x 30.10 m	x 3.75 m	=	1125.00 m ²
		10 x 30.10 m	x 3.75 m	=	1125.00 m ²
		1 x 15.10 m	x 3.75 m	=	56.25 m ²
Extra width at 4-cms					
		2 x 5.80 m	x 0.60 m	=	6.96 m ²
		3 x 6.10 m	x 0.570 m	=	10.26 m ²
		2 x 2.50 m	x 2.00 m	=	10.00 m ²
		3 x 6.10 m	x 0.550 m	=	9.90 m ²
		4 x 5.50 m	x 0.60 m	=	13.20 m ²
		2 x 6.10 m	x 0.550 m	=	6.60 m ²
		3 x 5.80 m	x 0.650 m	=	11.31 m ²
				Total =	5130.73 m ²
				Qty limit =	5113.13 m ²
(9) Plv & applying tack coat -					
with bitumen emulsion RS-1					
Net Qty = Qty of Prime Coat					
= 5113.13 m ²					
(10) Plv, Laying & rolling					
of close-graded premix					
surfacing material of 20mm					
thickness -					
Net Qty = Qty of tack coat					
= 5113.13 m ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Construction of Un-surfaced plain cement concrete Pavement as per technical specification					
		$3 \times 30.00m$	$3.75m$	$0.160m$	$= 54.00m^3$
		$1 \times 10.00m$	$3.75m$	$0.160m$	$= 6.00m^3$
		$10 \times 30.00m$	$3.75m$	$0.160m$	$= 180.00m^3$
		$9 \times 30.00m$	$3.75m$	$0.160m$	$= 162.00m^3$
		$1 \times 10.00m$	$3.75m$	$0.160m$	$= 6.00m^3$
Extra widening at H-curve					
		$2 \times 5.70m$	$0.50m$	$0.160m$	$= 0.91m^3$
		$2 \times 6.00m$	$0.60m$	$0.160m$	$= 1.15m^3$
		$2 \times 5.00m$	$0.56m$	$0.160m$	$= 0.89m^3$
		Total = $410.95m^3$			
(12) Construction of Sub-grade & Earthen Shoulder with approved material, with a lead upto 100m & 100m.					
For B.T. portion —					
Sides of G.S.B,					
		$2 \times 10 \times 30.00m$	$0.975m$	$0.10m$	$= 58.50m^3$
		$2 \times 4 \times 30.00m$	$0.975m$	$0.10m$	$= 23.40m^3$
		$2 \times 1 \times 15.00m$	$0.975m$	$0.10m$	$= 2.92m^3$
		$2 \times 10 \times 30.00m$	$0.975m$	$0.10m$	$= 58.50m^3$
		$2 \times 10 \times 30.00m$	$0.975m$	$0.10m$	$= 58.50m^3$
		$2 \times 8 \times 30.00m$	$0.975m$	$0.10m$	$= 46.80m^3$
		$2 \times 1 \times 25.00m$	$0.975m$	$0.10m$	$= 4.87m^3$
Continuation					
					$Qty 40 = 253.49m^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty	B/F	253.49 m ²
Sides of W.B.M-3,					
2x 10x30.00m x 1.125m x 0.075m					= 50.62 m ²
2x 4x30.00m x 1.125m x 0.075m					= 20.125 m ²
2x 1x15.00m x 1.125m x 0.075m					= 2.53 m ²
2x 10x30.00m x 1.125m x 0.075m					= 50.62 m ²
2x 10x30.00m x 1.125m x 0.075m					= 50.62 m ²
2x 8x30.00m x 1.125m x 0.075m					= 40.50 m ²
2x 1x25.00m x 1.125m x 0.075m					= 4.21 m ²
					Total = 472.84 m ²

(13) Construction of Subgrade & earthen shoulder with

approved material with a lead upto 1000 m & 100 m.

For P.C.C. portion.

Sides of W.B.M-3			0.075m	
2x 3x30.00m x 0.625m x 0.10m				= 8.43 m ²
2x 1x10.00m x 0.625m x 0.10m			0.075m	= 0.93 m ²
2x 10x30.00m x 0.625m x 0.10m			0.075m	= 28.12 m ²
2x 8x30.00m x 0.625m x 0.10m			0.075m	= 22.50 m ²
2x 1x10.00m x 0.625m x 0.10m			0.075m	= 0.93 m ²

Sides of P.C.C.

2x 3x30.00m x 0.625m x 0.160m				= 18.00 m ²
2x 1x10.00m x 0.625m x 0.160m				= 2.00 m ²
2x 10x30.00m x 0.625m x 0.160m			0.160m	= 60.00 m ²
2x 8x30.00m x 0.625m x 0.160m				= 48.00 m ²
2x 1x10.00m x 0.625m x 0.160m				= 2.00 m ²

Continuation Total = 190.91 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) P.V. & Laying of R.C.C. pipe duct 300 mm dia across the road = 6.00 M					
(15) P.V. & fixing of R.C.C. MIS grade boundary pillars = 12.00 NOS					
(16) P.V. & fixing of R.C.C. MIS grade km stones 203 NOS					
(17) P.V. & fixing of R.C.C. MIS grade 200 m stones = 0.3 NOS					
(18) P.V. & fixing of retro reflectorised informatory traffic sign board (600 mm equilateral triangles) 03 NOS					
(19) P.V. & fixing 600 mm circular traffic sign board = 02 NOS					
(20) P.V. & fixing 600 mm x 450 mm rectangular traffic sign board = 01 NOS					
(21) P.V. & erecting direction & place identification sign board = 05 NOS					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22) Plv & laying of half applied thermoplastic compound 2.5mm thick					
For B.T. portion.					
	2x	10x30.00m	x	0.10m	= 60.00m ²
	2x	4x30.00m	x	0.10m	= 24.00m ²
	2x	1x15.00m	x	0.10m	= 3.00m ²
	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	1x15.00m	x	0.10m	= 3.00m ²
For P.C.C. portion					
	2x	3x30.00m	x	0.10m	= 18.00m ²
	2x	1x10.00m	x	0.10m	= 2.00m ²
	2x	10x30.00m	x	0.10m	= 60.00m ²
	2x	9x30.00m	x	0.10m	= 54.00m ²
	2x	1x10.00m	x	0.10m	= 2.00m ²
					Total = 406.00m ²
(23) Plv & fixing of typical iron metal sign board with logo = 03 Nos.					
(24) Brick masonry work in C.M. (1:3) in parapet wall.					
(For A.P. valued 02 Nos.)					
	2x	2x	3.60m	x	0.40m x 0.60m = 3.45m ³

Continuation

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of Cost</u>					
1. P.V & fixing of working Benchmark pillars & reference pillars. 2.030 km, vide TMBP-1					
					12,080=00
2. clearing & grubbing of road land 0.406 Hect, vide TMBP-1					
					20,760=00
3. Box cutting Excavation for road way in soil using manual means 192.74 m ³ , vide TMBP-2					
					24,331=00
4. Construction of embankment - met with approved material deposited from road way cutting 115.64 m ³ , vide TMBP-2					
					10,218=00
5. construction of embankment - met with a local upto 100cm & 100m. 875.74 m ³ , vide TMBP-5					
					1,61,399=00
Continuation					40 Rs 2,28,788=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F, B	2,28,788=0
$\frac{6}{8}$					
					Construction of granular
					sub-base by providing
					coarse graded material.
771.26	m ²	vide TMBP-7			
					(a) B 3195=28/m ² B 24,64,392=0
$\frac{7}{9}$					
					Plr, levelling, spreading
					& compaction of WBM-3
576.41	m ²	vide TMBP-8			
					(a) B 3901=38/m ² B 22,48,794=0
$\frac{8}{10}$					
					Plr & applying
					primer coat with
					bitumen emulsion SS-1
5113.13	m ²	vide TMBP-9			
					(a) B 45=41/m ² B 2,32,187=0
$\frac{9}{11}$					
					Plr & applying tack
					coat with bitumen
					emulsion B-1
5113.13	m ²	vide TMBP-9			
					(a) B 15=62/m ² B 79,867=0
$\frac{10}{12}$					
					Plr, levelling & rolling
					of close-graded
					premix surfacing material
					of 20mm thickness
5113.13	m ²	vide TMBP-9			
					(a) B 242=23/m ² B 12,38,553=0
Continuation					(a) B 61,92,581=0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF, B		97,40,263=
14 14			Plv & laying of R.C.C		
			pipe duct 300 mm dia		
			across the road.		
			6.00 M. wide T.M.P. - 12		
			① B 836278/M - B		502120
15 15			Plv & fixing R.C.C		
			MIS grade boundary		
			pillars		
			12.00 M. wide T.M.P. - 12		
			① B 50500/M - B		606020
16 16			Plv & fixing of R.C.C		
			MIS grade kilometre		
			stones		
			03 M. wide T.M.P. - 12		
			① B 220255/M - B		660820
17 17			Plv & fixing of R.C.C		
			MIS grade 200m		
			stones		
			08 M. wide T.M.P. - 12		
			① B 621208/M - B		496920
18 18			Plv & fixing of retro-		
			- reflectorised traffic		
			sign board (600 mm x 1000 mm)		
			8 triangles		
			03 M. wide T.M.P. - 12		
			① B Continuation 358212/M - B		10,74620
					40 B 97,73,667=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BIF Rs 1,01,38,39620
23 23 23+23					Plr & binding of typical messy information Side land with logo
03 Nos					vide TMBP-13
					(a) Rs 9345238/ No-B 28,036200
24 26					Brick masonry work in c-m (1:3) in Parapet wall.
3.45m ³					vide TMBP-13
					(a) Rs 6530217/m ² -B 22,529200

$\frac{25}{27}$	p/v p.c.c M-20 arch architectural coping on the top of wall.	
14.40 m, wide	tm BP-14	
$\frac{26}{28}$	Plastering with cement mortar 1:4 on brick work	$\textcircled{w} P 408 = 121 \text{ m}^2$ $5849 = \text{co}$
24.96 m ² , wide	tm BP-14	
	$\textcircled{w} P 163 = 32 / m^2$ Total, co $P 1,01,98,886$ $= \text{co}$	
	40	$P 1,01,98,988$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/F	Rs 1,01,98,886 ²	
			Total	Rs 1,01,98,886 ²	
	Less	12.65% (belonging to)		Rs 12,90,159 ²	
				Rs 89,08,727 ²	
	Add	12% GST +	Rs 10,69,047 ²		
	Add	1% L. Cost +	Rs 89,087 ²		
		Seigniorage 10% (As calculated)	+ Rs 1,11,379 ²		
Net Payable Amount, Total			Rs 1,01,78,240 ²		
(Rupees one crore, one lakh, seventy eight thousand,					

two hundred & forty) only

Mm
23/08/24
(J.E)

C&P
A
24/8/24
RR

Work has been completed
as per agreed technical
specification.

Mm
23/08/24
(J.E)

Continuation