

16 SBD/MM454(SC)/2019-20/BAISP

TOS PWD to Ujjain.

Schedule XLV Form - O. 134.

HMGSY SC

D.O.C:- 18-02-2020.

Baysi

DIVISION

Baisi

SUB-DIVISION

Measurement Book

:1043

~~BIKI KAR~~

BIKI KAR

2nd and final bill

date of completion - 17.11.2020

Record Measurements

layere — do — do.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B.T. Perimeter	2x	30.00	4.05	0.200	48.60m ²
	3x	30.00	4.05	0.200	72.90 "
	1x	20.00	4.05	0.200	16.20 "
Widening	20x	7.80 + 4.90 + 3.75		0.200	21.93'
		3			
	10x	5.60 + 3.75		0.200	9.35 "
		2			
	15x	4.50 + 3.75		0.200	12.38 "
		2			
	20x	4.20 + 4.90 + 3.75		0.200	17.13 "
		3			
					198.49m ²
Deduct	65x	4.05		0.200	(-) 52.65m ²
					145.84m ²
					145.63m ²

(2) P/V laying, spreading and compacting stone aggregates					
W.B.M.	do do				
5x	30.00	3.75	0.075		42.19m ³
6x	30.00	3.75	0.075		50.63 "
3x	30.00	3.75	0.075		25.31 "
Widening	20x	7.80 + 4.90 + 3.75		0.075	8.22'
		3			
	10x	5.60 + 3.75		0.075	3.51m ³
		2			
	15x	4.50 + 3.75		0.075	4.64m ³
		2			
	20x	4.20 + 4.90 + 3.75		0.075	6.42 "
		3			
					140.92m ³
Deduct	65x	3.75	0.075	(-)	18.28m ³
					122.64m ³
					121.33m ³
Continuation				35	

Sch. XLV-Form No. 134

13

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Measurement					
① P/V and applying Primer Coat with Bitumen emulsion					
— do —					
{	3 x 30.00	x 3.75	= 337.50 m ²		
	5 x 30.00	x 3.75	= 562.50 "		
	6 x 30.00	x 3.75	= 675.00 "		
Widening -	20 x 4.50 + 3.80 + 3.75		= 80.33 m ²		
	10 x 5.60 + 3.75		= 46.75 m ²		
	15 x 4.50 + 3.75		= 61.87 m ²		
	20 x 4.20 + 4.90 + 3.75		= 85.66 m ²		
					1849.61 m ²
Deduct -	65 x 3.75		= 243.75 m ²		
					1605.86 m ²
② P/V and applying Tack Coat with bitumen emulsion					
— do do —					
{	3 x 30.00	x 3.75	= 337.50 m ²		
	5 x 30.00	x 3.75	= 562.50 "		
	6 x 30.00	x 3.75	= 675.00 "		
Widening -	20 x 4.50 + 3.80 + 3.75		= 80.33 m ²		
	10 x 5.60 + 3.75		= 46.75 "		
	15 x 4.50 + 3.75		= 61.87 "		
	20 x 4.20 + 4.90 + 3.75		= 85.66 "		
					1849.61 m ²
Deduct -	65 x 3.75		= 243.75 m ²		
					1605.86 m ²

Continuation

1605.86 m²

Continuation

1605.86 m²

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Record Measurement</u>					
① P/V laying and rolling of dense graded premixsurfacing material of 20mm thickness					
— do — do —					
$3 \times 30.00 \times 3.75 = 337.50 \text{ m}^2$					
$5 \times 30.00 \times 3.75 = 562.50 \text{ "}$					
$6 \times 30.00 \times 3.75 = 675.00 \text{ "}$					
Widening - $20 \times \frac{4.50 + 3.80 + 3.75}{3} = 80.33 \text{ "}$					
$10 \times \frac{5.60 + 3.75}{2} = 46.75 \text{ "}$					
$15 \times \frac{4.50 + 3.75}{2} = 61.87 \text{ "}$					
$20 \times \frac{4.20 + 4.90 + 3.75}{3} = 85.66$					
					1849.61 m^2
Deduct - $65 \times 3.75 = (-) 243.75 \text{ m}^2$					
					1605.86 m^2
② Const. of un-reinforced plain cement concrete pavement					
— do — do —					
Widening - $15 \times \frac{4.90 + 4.75 + 3.75}{3} \times 0.160 = 10.72 \text{ m}^3$					
Deduct - $15 \times 3.75 \times 0.160 = (-) 9.00 \text{ m}^3$					
					1.72 m^3
③ P/V Hand shouldering do					
$2 \times 5 \times 30.00 \times 0.250 = 75.00 \text{ m}^2$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Painting on Parapet wall (black and white strips) - each					
Top - $2 \times 6.15 \times 0.400 =$					4.92 m^2
side - $4 \times 6.15 \times 0.600 =$					14.76 m^2
Front - $4 \times 0.400 \times 0.600 =$					0.96 m^2
					<u>20.64 m^2</u>
(5) Const. of earthen shoulder - each					
$2 \times 14 \times 30.00 \times 1.182 \times 0.075 =$					74.46 m^3
$2 \times 14 \times 30.00 \times 1.388 \times 0.20 =$					233.18 m^3
					<u>307.64 m^3</u>
					Grand $\rightarrow 307.64 \text{ m}^3$
					307.64
					11.11.2020
					35

Record Measurement

① Construction of embankment with material obtained from borrow pit to level up to 1000m and 100m

Section from	Diff	Area m^2	Average Area	Volume (m^3)
0.000	0.000	2.734	1.367	0.000
50.000	50.000	4.560	3.647	182.350
100.00	50.00	4.230	4.395	219.750
150.00	50.00	5.260	4.745	237.250
200.00	50.00	8.880	7.075	353.750
250.00	50.00	5.780	7.335	366.750
300.00	50.00	6.450	6.115	305.750

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
350'00	50'00	6.780	6.615	330.750	m ³
400'00	50'00	2.475	4.628	231.375	"
450'00	50'00	4.328	3.402	170.025	"
500'00	50'00	9.450	6.883	344.450	"
550'00	50'00	5.450	7.450	372.500	"
570'00	20'00	4.780	5.115	102.300	"
				3217.050	"
Deduction $\rightarrow$ CSB				(-) 404.38	
WBM				(-) 163.52	
Subgrade and shoulder				(-) 1464.58	
P.C.C.				(-) 91.72	
Hard shoulder dressing				(-) 78.00	
				1017.85	m ³
				Limit $\rightarrow$ 20.66	m ³
For 1000 m $\rightarrow$				4.35	m ³
For 100 m $\rightarrow$				16.31	m ³
② Road Marking with Applied Thermoplastic compound					
— do — do —					
$2 \times 420.0 \times 0.100 = 84 \text{ m}^2$					
③ Road marking with Applied Thermoplastic compound — do — do —					
$2 \times 150.0 \times 0.100 = 30.00 \text{ m}^2$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ kilometre stone - doh					
① Ordinary kilometre Stone (Precast) - 3 Nm					
① 200 m stone - 8 Nm					
⑤ P/V and logo of Project -					
(i) P/V and fixing logo of Project - 2 Nm					
(ii) Citizen information Board - 1 Nm					
(iii) Maintenance information Board - 1 Nm					
					4 Nm.
⑥ Boundary Pillar / Guard / Guard Post - 8 Nm.					
⑦ Retro reflectorised Traffic sign - doh					
(i) 600 mm equilateral and triangle - 6 Nm					
(ii) 600 mm circular - 2 Nm					
(iii) 800 mm x 600 mm rectangular - 2 Nm.					
(iv) 600 mm x 450 mm - 2 Nm.					

Continuation

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3B

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
① setting out pillars - do vide Page No (6) —					
① Bench mark - 11 Nos @ Rs 4761.40 each Rs 476120					
① Reference pillars - 2 Nos @ Rs 2176.88 each Rs 4354					
② clearing and grubbing road land - do - do vide Page No (6) - 0.4014					
@ Rs 50,148.62/m ² Rs 20,059					
③ Blw in excavation for foundation of structures - do vide Page No (7) - 29.80 m ³					
@ Rs 288.02/m ³ Rs 858320					
④ P/V M 15 (P.C.C. 1:2.5:5) as levelling course in foundation — do — do — vide Page No (7) - 4.60 m ³					
@ Rs 6076.36/m ³ Rs 2795120					
⑤ plain / reinforced cement concrete in sub-structures — do — do — vide Page No (7) - 33.74 m ³					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		@ Rs 70	14.24	m ²	Rs 2,36,660
(6) P.V. and Laying R.C.C. pipe N.P-3 for culverts					
do do do					
vide Page No (7) - 7.50m					
		@ Rs 4195	12	m ³	Rs 31,463
(7) Const. of embankment with material obtained from borrow pits and up to lead 1000m and 100m - do do					
vide Page No - (2)					
(i) For lead 1000m = 215.07 m ³					
vide Page No (16) - 4.35 m ³					
					219.42 m ³
		@ Rs 155.23	m ³		Rs 34060 =
(ii) For lead 100m = 845.94 m ³					
vide Page No (16) - 16.31 m ³					
					862.25 m ³
		@ Rs 111.25	m ³		Rs 95,925 =
(8) Const. of sub-grade and Earthen shoulder do do.					
vide Page No (8) - 1156.97 m ³					
vide Page No (15) - 307.61 m ³					
					1464.58 m ³
		@ Rs 157.47	m ³		Rs 2,30,627 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9.) Granular sub-base by providing well graded material spreading in uniform layers — do — do					
Vide Page No (8) —					258.75mb
Vide Page No (12) —					145.63mb
					404.38mb
@ R. 27					67.77/m ² R. 11,19,230 =
(10.) P.V. laying, spreading and compacting stone Aggregates WB Manti					
— do — do					
Vide Page No (8) —					42.19mb
Vide Page No (12) —					121.33mb
					163.52mb
@ R. 3541.25 /mb					R. 5,79,065 =
(11.) Const. of un-reinforced plain cement concrete pavement — do — do					
Vide Page No (9) —					90.0m ²
Vide Page No (14) —					1.72mb
Vide Page No					91.72mb
@ R. 7453.09 /m ²					R. 6,83,597 =
(12.) P.V. and applying prime coat with bitumen emulsion					
— do — do					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
vide Page No (13) - 1605.86 ^{sq}					
@ R 48.43/m ² - R 79378=					
(13) P.V. and applying tack coat with bitumen emulsion					
— do — do —					
vide Page No (13) - 1605.84 ^{sq}					
@ R 16.70/m ² - R 26818=					
(14) P.V. laying and rolling of dense graded premix surfacing material of 20 mm thickness					
— do — do —					
vide Page No (14) - 1605.86 ^{sq}					
@ R 206.12/m ² - R 331,000=					
(15) P.V. Hard shouldering					
— do — do —					
vide Page No (14) - 75.00 ^{sq}					
@ R 537.30/m ² - R 40342=					
(16) Painting on Parapet wall (black and white strips) - do - do					
vide Page No (15) - 20.64 ^{sq}					
@ R 110.65/m ² - R 2283=					
(17) Road marking with approved thermoplastic					
— do — do —					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
vide Page No (16) - 84 m ²					
@ R. 867.76/m ² - R 72,891=					
(18) Road marking with Applied Thermoplastic					
vide Page No (16) - 30.00 m ²					
@ R 972.67/m ² - R 29,180=					
(19) i) kilometre stone - do do					
vide Page No (17) - 3 Nos					
@ R 2428.37 each - R 7285=					
ii) ordinary kilometre stone - do do					
vide Page (17) - 8 Nos					
@ R 679.66 each - R 5437=					
(20) PIV and 'Logo' of Project					
do do do					
vide Page No (17) -					
(i) PIV and 'Logo' fixing of Project - 2 Nos					
(ii) citizen information Board					
1 No					
(iii) Maintenance information Board - 1 No					
4 Nos					
@ R 10311.34 each - R 41,245=					
(21) Boundary pillar - do do					
vide Page No (17) - 8 Nos					
@ R 519.15 each - R 4153=					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22) Retro-reflectorised Traffic sign - do do					
Vide Page No. (17)					
(i) 600 mm equilateral triangle - 6 Nos					
@ R 4174.81 each					25,048.86
(ii) 600 mm circle - 2 Nos					
@ 5640.45 each					11,280.90
(iii) 800 mm x 600 mm rectangle - 2 Nos					
@ R 7913.92 each					15,827.84
(iv) 600 mm x 450 mm rectangle - 2 Nos					
@ R 5490.42 each					10,980.84
(v) 900 mm side octagon - 2 Nos					
@ R 10,129.69 each					20,259.38
					R 37,99,742.00
Below 0.10%					R 3800.00
					R 37,95,942.00
Less previous page					R 21,77,678.00
					R 16,18,264.00
					9 dms
					15.11.2020
					SE

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04/03/21

Continuation