

M.M. Vist

Azanda to Uch Kundi

Schedule XLV-Form No. 154

55

any other authority, any No - 41374-77C DIVISION

any other No - 41374-77C SUB-DIVISION

MEASUREMENT BOOK

572

4445 ÷ R.K Const & Com

Bill on A/C Bill

20

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work: Construction and					
Five Year maintenance of Road					
from Aranda To Uchkundi.					
Name of Agency: R.K. Construction and					
CO.					
Agreement no. - 62/SB/2019-20 (MMBSY SC)					
Date of Commencement: 09-10-2019					
Date of Completion: 08-10-2020					
Details of Measurement					
1/ Construction of unreinforced					
expansion and contraction					
joint Cement concrete pavement					
	7	30.00	3.75	0.16	= 126.00m ³
	1	20.00	3.20	0.16	= 10.24m ³
	1	30.00	3.80	0.16	= 18.24m ³
	1	30.00	3.90	0.16	= 18.72m ³
	4	10.00	4.10	0.16	= 26.24m ³
	1	10.00	$\frac{3.75+4.10}{2}$	0.16	= 6.28m ³
	1	10.00	4.00	0.16	= 6.40m ³
	1	4.00	3.00	0.16	= 1.92m ³
					27.04m ³
2/ Construction of Subgrade and					
Earth Shoulder					
Adjacent to GSB BT Portion					
	2	20	30.00	1.388	0.200 = 333.12m ³
Adjacent to GSB	2	20	30.00	1.182	0.075 = 106.38m ³
Adjacent to GSB	PCC Pavt	2	20.00	0.375	0.10 = 1.50m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	12	0.375	0.10	= 0.45 m ³
	1	30.00	0.375	0.10	= 1.125 m ³
	1	30.00	0.375	0.10	= 1.125 m ³
	1	14.00	0.375	0.10	= 0.525 m ³
	1	8.00	0.375	0.10	= 0.30 m ³
	1	30.00	0.375	0.10	= 1.125 m ³
	1	12	0.375	0.10	= 0.45 m ³
Adjacent to drainage	2	20.00	0.375	0.075	= 1.125 m ³
	1	12.00	0.375	0.075	= 0.337 m ³
	2	30.00	0.375	0.075	= 1.687 m ³
	1	14	0.375	0.075	= 0.393 m ³
	1	8.00	0.375	0.075	= 0.225 m ³
	1	30.00	0.375	0.075	= 0.843 m ³
	1	12.00	0.375	0.075	= 0.337 m ³
					451.047 m ³
3/ Laying of brick soling layer with brick on end edging					
	2	20.00	0.50		= 20 m ²
	1	12.00	0.50		= 6.00 m ²
	1	30.00	0.50		= 15.00 m ²
	1	30.00	0.25		= 7.50 m ²
	1	14.00	0.25		= 3.50 m ²
	1	8.00	0.50		= 4.00 m ²
	1	30.00	0.50		= 15.00 m ²
	1	12.00	0.50		= 6.00 m ²
					77.00 m ²
4/ Clearing and grubbing and providing and laying					
land	2	10	30.00	3.50	= 2100 m ²
					= 0.21 Ha

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4/ Hot Applied Thermoplastic Compound on Concrete					
	2x11	30.00	0.10		66.00 m ²
	2x20	00	0.10		4.00 m ²
					70.00 m ²

Shetty
10.09.2020
J.E.

Put 1/10/20

Material Statement

Stone Chips - 192.64 m³

Sand - 96.40 m³

Bricks - 5754 Nos

Fine Sand - 3.08 m³

Earth - 451.047 m³

Shetty
10.09.2020

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6/ Const. of Gt. with well graded Material					
	5	10.00	6.50	0.20	65.00 m^3
	1	5.00	4.05	0.20	4.05 m^3
					69.05 m^3
7/ providing, laying and Compacting WBM Gm III					
	5	10.00	5.40	0.075	20.25 m^3
	1	5.00	3.75	0.075	1.40 m^3
					21.65 m^3
					Limit 20.51 m^3
8/ providing and applying prime Coat with bitumen emulsion S.S.P					
	5	10.00	5.10		255.00 m^2
	20	30.00	3.75		2250.00 m^2
	8	30.00	3.75		900.00 m^2
	1	30.00	3.75		112.50 m^2
					3517.50 m^2
9/ providing and applying tack Coat with R.F 1					
	5	10.00	5.10		255.00 m^2
	20	30.00	3.75		2250.00 m^2
	8	30.00	3.75		900.00 m^2
	1	30.00	3.75		112.50 m^2
					3517.50 m^2
10/ providing, laying and rolling closed graded					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
providing Surfacing 20mm thick					
	5	10.00	5.10		$= 255.00m^2$
	20	30.00	3.75		$= 2250.00m^2$
	8	30.00	3.75		$= 900.00m^2$
	1	30.00	3.75		$= 112.50m^2$
					<u>3517.50m²</u>

11/ Cont. of Subgrade and earthwork

Shoulder

	2	10	30.00	2.00	$\times 0.20 = 240.00m^3$
	2	1	20.00	2.10	$\times 0.20 = 16.80m^3$
	2	10	30.00	2.00	$\times 0.075 = 90.00m^3$
	2	1	20.00	2.10	$\times 0.075 = 6.30m^3$
					<u>353.10m³</u>

12/ Road working with hot applied

thermo plastic Compound on

Bitumen surface

	2	30	30.00	0.10	$= 180.00m^2$
	2	1	20.00	0.10	$= 4.00m^2$
					<u>184.00m²</u>

13/ providing plain Cement concrete

in Substructure

Parapet $2 \times 1 \times 6.15 \times 0.60 \times 0.40 = 2.95m^3$

14/ painting on parapet wall

	6	2	6.15	0.40	$= 29.52m^2$
	6	4	6.15	0.60	$= 88.56m^2$
	6	4	0.40	0.60	$= 5.76m^2$
					<u>123.84m²</u>

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
15/ Contd. of embankment with approved material obtained from borrow pits					
Ch.	F/A (m)	M/A (m)	Dist (m)		Volume (m ³)
0	5.887	-	-	-	-
50	7.670	6.779	50		338.925
100	4.167	5.019	50		295.925
150	6.87	5.102	50		255.10
200	7.669	6.853	50		342.650
250	6.486	7.078	50		353.875
300	3.044	4.765	50		238.25
350	4.938	3.991	50		199.550
400	5.974	5.456	50		272.80
450	6.522	6.248	50		312.40
500	5.108	5.815	50		290.750
550	3.415	4.262	50		213.075
600	5.832 4.349	4.224	50		211.175
650	4.349	4.691	50		234.525
700	5.243	4.796	50		339.800
750	4.269	4.756	50		237.80
800	3.552	3.911	50		195.525
850	4.763	4.158	50		207.875
900	5.868	5.316	50		265.775
950	5.397	5.663	50		281.625
1000	4.261	4.829	50		241.450
1050	3.768	4.015	50		200.125
1100	3.818	3.793	50		180.650
1150	3.547	3.683	50		184.125
1200	3.796	3.672	50		183.575

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1220	2-840	3-318	70		232.260
					6219.185 m ³
Less Vide item no(7) P(3)					-11082.925 m ³
Less att Vide item (8) P(3)					-11309.68 m ³
Less Vide item (11) P(6)					-1746.872 m ³
Less Vide item no(2) P(21)					-1451.047 m ³
Less Vide item no(5) P(25)					-122.50 m ³
Less Vide item no(11) P(27)					-1353.10 m ³
Less Grub Vide item (12) P(18)					-1757.415 m ³
Less Grub Vide item (6) P(26)					-169.05 m ³
Less WBM Grub ITT att Vide item (2) P(45)					-1332.35 m ³
Less WBM Grub ITT att Vide item (7) P(6)					-121.65 m ³
Less CC Pavement att Vide item (1) P(24)					-1214.04 m ³
Less Hard Shoulder att Vide item					838.556 m ³
no(3) P(21) 77.00 x 0.125 = (-)					9.625 m ³
					828.931 m ³
(a) For Lead upto 100m					
33% of 828.931 m ³					273.547 m ³
					256.968 m ³
(b) For Lead upto 100m					
67% of 828.931 m ³					555.383 m ³
16/ Reinforced Cement Concrete					
Misgrade Kh Stone					
(a) Ordinary Kh Stone					= 2 Nos
(b) 200m Stone					= 5 Nos
17/ Providing and fixing M/M					
Information sign board					
Maintenance information board					= 2 Nos
18/ Reinforced Cement Concrete					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
M/S grade boundary pillar					= 48 Nos
19/ Traffic sign providing and fixing on the roadside					
20/ (a) 600mm equilateral triangle					= 16 Nos
(b) 800mm x 600mm Rectangle					= 0 Nos
(c) 600mm x 450mm Rectangle					= 8 Nos
21/ Planting of Tree by the Road side					= 92 Nos
Shut 29/10/2020 S.E.					
Abstract of Cost					29/10/20
1/ Providing and fixing working benchmark pillar					
Qty. vide item no 1/ P(1)					= 1 No
@ RS 4141.05					= RS 4141.00
2 Reference pillar					
Qty. vide item no 1/ P(1)					= 5 Nos
@ RS 1875.23					= RS 9379.00
2/2 Clearing and grubbing road land					
Qty. vide item no 2/ P(1)					= 0.63 Ha
Qty. vide item no 1/ P(2)					= 0.21 Ha
					0.84 Ha
@ RS 49739.47					= RS 41781.00
3/23 E/w in excavation for foundation					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty vide item no 3/ P(16)					
					= 178.79 m ²
@ Rs 285.71/m ³					= Rs 51082.00
4/24 Providing Hiss grade levelling					
Course					
Qty vide item no 4/ P(16)					
					= 27.57 m ²
@ Rs 4958.83/m ²					= Rs 136715.00
5/ Providing Cement concrete in					
Substructure					
Qty vide item no 5/ P(16)					= 199.50 m ²
Qty vide item no 13/ P(27)					= 2.95 m ²
					= 202.45 m ²
@ Rs 5877.34/m ²					= Rs 1189867.00
6/26 Providing and laying RCC NPS					
1000 mm dia three pipe					
Qty vide item no 6/ P(16)					
					= 45.00 m
@ Rs 4413.42/m					= Rs 198604.00
7/6 Const of embankment with approved					
material with lead upto 100m					
Qty vide item no 8/ P(16)					= 324.877 m ³
Qty vide item no 15/a P(29)					= 273.547 m ³
					598.424 m ³
@ Rs 87.23					= Rs 112043.00
8/5 Const of embankment with					
Lead upto 100m					
Qty vide item no 7/ P(3)					= 758.048 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. vide item no 5/b P(2) = 585.38 m ³					
				1313.43 m ³	
@ Rs 132.56					= Rs 174,108.00
9/7 Const. of Subgrade and earth on Shoulder					
Qty. vide item no 8/P(3) = 1309.68 m ³					
Qty. vide item no (11) P(6) = 766.87 m ³					
Qty. vide item no 6/P(2) = 451.04 m ³					
Qty. vide item no 5/P(25) = 22.50 m ³					
Qty. vide item no (11) P(27) = 353.10 m ³					
				2923.19 m ³	
@ Rs 189.11/m ³					= Rs 549,023.00
10/16 providing and fixing M/MGS					
Logo Citizen Board					
Qty. vide item no 9/P(3) = 2 Nos					
Qty. vide item no 17/P(29) = 2 Nos					
				4 Nos	
@ Rs 9903.17					= Rs 39613.00
11/3 Excavation for road way					
Box cutting					
Qty. vide item no 10/P(6) = 4.85 m ³					
@ Rs 82.01/m ³					= Rs 398.00
12/8 Const. of G.R.B.					
Qty. vide item no 14/P(8) 757.415 m ³					
Qty. vide item no 6/P(24) 69.05 m ³					
				826.465 m ³	
@ Rs 1955.27					= Rs 1615,962.00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13/28 providing and laying 300mm duct pipe					
Qty. vide item no(1) P(14) = 50.2m					
@ Rs 1021.40/m ²				= Rs	51270.00
14/9 providing laying and compaction WBM 60mm					
Qty. vide item no(2) P(15)					
				= 382.35m ²	
Qty. vide item no(1) P(6) = 20.51m ²					
@ 2901.91				35286 m ²	1023967.00
15/13 Cost of unreinforced joint Cement Concrete pavement					
Qty. vide item no(1) P(24) = 217.07m ²					
@ Rs 61.04-49/m ²				= Rs	13246.60500
16/A Laying of Brick Siding					
Qty. vide item no(16) P(25) = 77.00m ²					
@ Rs 525.75/m ²				= Rs	40482.00
17/21 Road Marking with hot applied on Concrete Surface					
Qty. vide item no(14) P(24)					
				= 70.00m ²	
@ Rs 953.99				= Rs	66779.00
18/20 Road marking with hot applied on Bit. Surface					
Qty. vide item no(14) P(27) = 184.00m ²					
@ Rs 850.93				= Rs	156571.00
19/10 P/A Primer Cost with SS 1					
Qty. vide item no(8) P(24)					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$= 3517.50 \text{ m}^2$
@ Rs. 54.50/m ²					$= \text{Rs } 191704.00$
20/11 P/A Tack coat with					
Bitumen emulsion RS 1					
Qty. vide item no (9) P 26/					$= 3517.50 \text{ m}^2$
@ Rs 18.29/m ²					$= \text{Rs } 64335.00$
21/12 Providing, laying & bed					
graded premix surface					
Qty. vide item no (10) P 26/					$= 3517.50 \text{ m}^2$
@ Rs 217.18/m ²					$= \text{Rs } 763931.00$
22/27 Painting on parapet wall					
Qty. vide item no (14) P 27/					
					$= 123.84 \text{ m}^2$
@ Rs 108.98					$= \text{Rs } 13496.00$
23/15 Reinforced Cement Concrete					
Mis grade					
(a) ordinary km stone					
Qty. vide item 16(a) P 29/					$= 2 \text{ Nos}$
@ Rs 2120.93					$= \text{Rs } 4242.00$
(b) 200 mm stone					
Qty. vide item 16(b) P 29/					$= 5 \text{ Nos}$
@ Rs 625.68					$= \text{Rs } 3128.00$
29/8 Reinforced Cement Concrete					
Guard Stone boundary pillar					
Qty. vide item no (18) P 30/					

Continuation

