

MMGS-1

Deodattpur to Bakhapur

Schedule XLV-Form No.-134

DIVISION

SUB-DIVISION

MEASUREMENT BOOK

561

R.K Engicom Pvt. L.T.d

Shamsher Nagar A-bad

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work :- Construction of Road from Roadatpuz to Bukrapuz					
Name of Agency :- R.K. Engineering Pvt. Ltd. Shan Shoragar, Dandagar, Aizyagar.					
Agreement No. A- 10530/2019-20					
Date of Commencement :- 27-07-2019					
Date of Completion :- 26-07-2020					
<u>Details of Measurement</u>					
1/ Clearing and grubbing and					
Land $6 \times 30.00 \times 3.00 = 540.00 \text{ m}^2$					
$1 \times 20.00 \times 4.00 = 80.00 \text{ m}^2$					
620.00					
0.05216					
2/ Construction of GSB GRT					
$3 \times 30.00 \times 4.05 \times 0.10 = 36.45 \text{ m}^3$					
$1 \times 15.00 \times 5.20 \times 0.10 = 7.80 \text{ m}^3$					
44.25 m ³					
3/ providing laying and Compacting					
WBM GRT					
$3 \times 30.00 \times 3.75 \times 0.075 = 25.31 \text{ m}^3$					
$1 \times 21.00 \times 3.75 \times 0.075 = 5.90 \text{ m}^3$					
31.21 m ³					
4/ Construction of Subgrade and					
Earth Shoulder					
PCC Portion					
Adjacent to GSB $2 \times 3 \times 30.00 \times 0.50 \times 0.10 = 9.00 \text{ m}^3$					
Adjacent to WBM GRT $2 \times 6 \times 30.00 \times 0.375 \times 0.075 = 10.12 \text{ m}^3$					
$2 \times 2 \times 15.00 \times 0.375 \times 0.075 = 1.687 \text{ m}^3$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	3	10.00	0.375	0.075 = 1.687 m ³
DT Population					
Adjacent to					
Crab	2	20	30.00	1.388	0.20 = 333.12 m ³
	2	8	30.00	1.388	0.20 = 133.248 m ³
	2	1	10.00	1.10	0.20 = 4.40 m ³
Adj to					
WBH III	2	20	30.00	1.388	0.075 = 124.92 m ³
	2	8	30.00	1.388	0.075 = 49.968 m ³
	2	1	10.00	1.10	0.075 = 1.65 m ³
					669.80 m ³

5/ Providing and applying

primer coat with Bitumen emulsion SS 2

$$25 \times 30.00 \times 3.75 = 2812.50 \text{ m}^2$$

$$2 \times 30.00 \times 3.75 = 225.00 \text{ m}^2$$

$$2 \times 10.00 \times 5.20 = 104.00 \text{ m}^2$$

$$1 \times 5.00 \times 5.40 = 27.00 \text{ m}^2$$

$$3 \times 5.00 \times 5.50 = 82.50 \text{ m}^2$$

$$3251.00 \text{ m}^2$$

6/ Providing and applying

Tack coat with Bitumen emulsion RS-1

$$25 \times 30.00 \times 3.75 = 2812.50 \text{ m}^2$$

$$2 \times 30.00 \times 3.75 = 225.00 \text{ m}^2$$

$$2 \times 10.00 \times 5.20 = 104.00 \text{ m}^2$$

$$1 \times 5.00 \times 5.40 = 27.00 \text{ m}^2$$

$$3 \times 5.00 \times 5.50 = 82.50 \text{ m}^2$$

$$3251.00 \text{ m}^2$$

7/ Providing, laying and rolling
of classed graded premix surface
material 20mm thick

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	20	30.00	3.75		= 2812.50 m ²
	2	30.00	3.75		= 225.00 m ²
	2	10.00	5.20		= 104.00 m ²
	1	5.00	5.40		= 27.00 m ²
	3	5.00	5.50		= 82.50 m ²
					3251.00 m ²
8/ providing and fixing M.H.G.S.V					
Maintenance information Board					
					= 1 No.
9/ R.C.C. Mis grade pavement					
Ordinary kilometre Stone					= 2 Nos
10/ providing and fixing 20mm Stone					= 5 Nos
11/ Reinforced Cement Concrete					
Miscellaneous boundary Pillars					
					= 24 Nos
12/ providing and fixing Retro					
reflective traffic sign board					
(a) 600mm equilateral triangle					= 14 Nos
(b) 800mm x 600mm Rectangular					
					= 4 Nos
(c) 600mm x 450mm Rectangular					
					= 4 Nos
(d) 900mm Side Octagone					
					= 2 Nos
13/ Road Marking with Hot					
applied thermoplastic Compound					
on Bitumen Surface					
2 x 28 x 30.00 x 0.10					= 168.00 m ²
2 x 1 x 10.00 x 0.10					= 2.00 m ²
					170.00 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
14/ Road marking with Hot Applied Thermoplastic Compound on Concrete Surface.					
	288	30.00	0.10		= 48.00m ²
	2	1	10.00	0.10	= 2.00m ²
					50.00m ²

15/ Construction of embankment material obtained from borrow pit
Cutting

Qty. vide 60% of item no 4)

P-(2)

60% of 108.00m³ = 64.80m³

16/ Construction of embankment

with material obtained from borrow pit

Ch	Fill Area (m ²)	Mean Area (m ²)	Dist (m)	Volume m ³
00	5.202	4	—	—
50	4.444	4.823	50	241.150
100	6.831	5.638	50	281.875
150	3.994	5.431	50	270.625
200	5.368	4.681	50	234.05
250	6.229	5.799	50	280.925
300	3.692	4.961	50	248.025
350	5.925	4.809	50	240.425
400	6.252	6.089	50	304.425
450	6.121	6.187	50	309.325
500	5.650	5.886	50	294.275
550	4.887	5.269	50	263.425
600	6.793	5.840	50	292.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
650	7-259	6-936	50		344.30
700	4-760	5-910	50		295.475
750	6-782	5-771	50		288.550
800	4-120	5-451	50		272.550
850	6-074	5-097	50		254.850
900	5-236	5-655	50		282.750
950	3-450	4-343	50		217.150
1000	5-180	4-350	50		215.750
1050	6-150	5-665	50		283.250
1100	6-443	6-297	50		314.825
					6040.975

Less previously qty. viz viz

no(6) P-(3)	6-2466.575m ³
Less G.R.B. vide P-no(4)	(-1) 454.22 m ³
Less G.R.B. vide P-no(2)	(-1) 25 m ³
Less W.D.M. G.R.B. vide P-no(5)	(-1) 45787.74 m ³
Less U.B. 162 m vide P-	(-1) 31.21 m ³
Less earthen shoulder vide P-8	(-1) 15.00 m ³
Less earthen shoulder vide P-23	(-1) 669.80 m ³
Less CC Pavement vide P-1	(-1) 152.96 m ³
Less Road shoulder vide	
P-1 15000 m ² x 0.125 m	(-1) 18.75 m ³
	1690.462 m ³

a) For Lead up to 100 m

72 % of 1690.462 m ³	= 1217.13 m ³
	Unit 120500 m ³

b) For Lead up to 100 m

28 % of 1690.462 m ³	= 473.33 m ³
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17/ Plantation of tree = 85 Nos

18/ Painting of painted wall Blue

2x2x6.15x0.40	= 3.84 m ²
2x4x6.15x0.60	= 29.52 m ²
2x4x0.40x0.60	= 1.92 m ²

Particulars	Details of actual measurement			Contents of area
	L.	B.	D.	
Material Statement				
Chips	37.17	87.78m	m ³	= 124.94m ³
Slab concrete III				= 31.21m ³
Slab concrete				= 7.50m ³
earth				= 2360.26m ³
SS 1				= 2.7634T
RS 1				= 0.894MT
Bitumen S-90				= 6.177MT
Shukla 04-09-2020 J.F.				4/9/20 or

Abstract of Cost

1/16 Providing and fixing
of M.C.C. Laps and Welding bars

buccard

Qty. vide item no 1/ P(1) = 3 Nos

Qty. vide item no 1/ P(2) = 1 No

4 Nos

@ Rs 9889.80 = Rs 39559.00

2/1 Providing and fixing bench

mark pillar

Qty vide item no 2/ P(1)

= 2 Nos

@ Rs 4142.32 = Rs 8285.00

3/2 Clearing and grubbing

Reference pillar Qty. vide item

no 1/ P(1) = 4 Nos

@ Rs 1876.28 = 7505.00

3/2 Clearing and grubbing

55345

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
of good land					
Qty. vide item no (1) P(1)					0.708 m ²
Qty. vide item no (1) P(2)					0.062 m ²
					0.77 m ²
@ Rs 99239.47					= Rs 38299.00
4/3 Box cutting excavation					
for good way					
Qty. vide item no (4) P(1)					
					= 108.00 m ²
@ Rs 8201					= Rs 8857.00
5/28 providing and laying					
300mm dia duct pipe					
Qty. vide item no (5) P(1)					
@ Rs 1019.00					= Rs 10280.00
6/5 Construction of embankment					
with approved material					
with lead up to 100m					
Qty. vide item no (6) P(3)					2133.26 m ³
Qty. vide item no (6) P(4)					1205.00 m ³
					3338.26 m ³
@ Rs 132.56/m ³					= Rs 442510.00
7/6 with lead up to 100m					
Qty. vide item no (7) P(3)					= 533.315 m ³
Qty. vide item no (7) P(4)					= 423.33 m ³
					1006.645 m ³
@ Rs 187.23					= Rs 1,88,977.00
8/8 Const of GSB 6x1					
Qty. vide item no (8) P(1)					= 469.22
Qty. vide item no (2) P(1)					= 44.25
					508.47 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
@ Rs 1939.54					= Rs 986197.00
9/9 Providing and laying					
Qty. vide item no (9) P(5) =					287.74 m ²
Qty. vide item no (3) P(2) =					28.10 m ²
					315.84 m ²
@ Rs 2867.35/m ²					= Rs 905,629.00
10/13 Construction of unreinforced					
joint plate cement concrete					
Pavement					
Qty vide item no (10) P(8) =					152.968 m ²
@ Rs 6088.90					= Rs 931,330.00
11/7 Const. of Subgrade and					
earth shoulder					
Qty. vide item no (11) P(8) =					15.00 m ²
Qty vide item no (9) P(22) =					669.80 m ²
					684.80 m ²
@ Rs 189.11					= Rs 1,29,502.00
12/14 Laying of Bitum Seal					
Qty. vide item no (12) P(8) =					150.00 m ²
@ Rs 52575/m ²					= Rs 7,886,250.00
13/30 Disinstalling of Cement					
Concrete					
Qty. vide item no (13) P(9) =					0.81 m ²
@ Rs 477.67					= Rs 384.00
14/32 Disinstalling of Bitum Seal					
Qty. vide item no (14) P(9) =					30.69 m ²
@ Rs 228.90					= Rs 7009.00

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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
15/34 Dismantling of Hume pipe					
Qty. vide item no (15/ P9/)					
				= 5 m	
@ 229.83					= Rs 1149.00
6/23 E/W in excavation for foundation					
Qty. vide item no (6/ P. 9/)					
				= 59.60 m ³	
@ Rs 285.71					= Rs 17028.00
7/24 Providing levelling course in foundation					
Qty. vide item no (7/ P9/)					
				= 9.20 m ²	
@ Rs 4945.45					= Rs 45498.00
18/15 P.C.C in Substructure					
Qty. vide item no (8/ P9/)					
				= 67.48 m ²	
@ Rs 5861.25					= Rs 395517.00
19/20 P/L RCC WPB 1000 mm dia Hume pipe					
Qty. vide item no (19/ P9/)					
				= 15.00 m	
@ Rs 4399.11					= Rs 65987.00
20/15 P/F ordinary kn stone					
Qty. vide item no (9/ P 9/)				= 2 Nos	
@ Rs 217.33					= Rs 4234.00
21/15 P/F 200 mm stone					
Qty. vide item no (10/ P (29/)					
				= 5 Nos	
@ Rs 625.05					= Rs 3125.00

43457.05

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
22/18 Providing and fixing boundary pillar					
Qty. vide item no 11 P 29/					
				= 2 Nos	
@ Rs 518.66					= Rs 12447.00
23/19 P/F Retroreflecting traffic sign					
(a) 600mm equilateral triangle					
Qty. vide item no 12(R) P 24/					
				= 1 Nos	
@ Rs 3978.15					= Rs 55694.00
(b) 600mm x 450mm rectangular					
Qty. vide item no 12(C) P 24/					
				= 1 Nos	
@ 5268.22					= Rs 21073.00
24/22 Planting of tree by road side					
Qty. vide item no 24/ P 24/					
				= 85 Nos	
@ Rs 749.73					= Rs 63727.00
25/4 Construction of embankment with material obtained from box cutting					
Qty. vide item no 15 P 25/					
				= 64.80 m ³	
@ Rs 82.01					= Rs 1813.00
26/10 Providing and applying prime coat with SS-1					

4500453

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. vide item no (5) P(23)					
					$= 3251.00 m^2$
@ Rs 50.49/m ²					$= Rs 1652147.00$
27/11 Providing and applying					
Tack Coat with RS					
Qty. vide item no (6) P(23)					
					$= 3251.00 m^2$
@ Rs 18.29					$= Rs 59461.00$
28/12 Providing, laying and					
rolling Closed graded					
finer Seal Surface					
Qty. vide item no (7) P(24)					
					$= 3251.00 m^2$
@ Rs 216.51/m ²					$= Rs 703874.00$
					$Rs 544094.00$
Less 10% as per Agreement					$Rs 544094.00$
					$Rs 4896847.00$
Less previous payment					$Rs 2602627.00$
Shut					$Rs 2294220.00$
3-E					
29/ Road Marking with hot applied					
thermo plastic Compound on bituminous					
Surface (Lining)					
Qty. vide item no (13) P(24)					
					$= 170.00 m^2$
@ Rs 850.23/m ²					$= Rs 144685.00$
30/ Road Marking with hot applied					
thermo plastic Compound on CC pavement					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. Vids iter no (19) P(25)					
					= 50.00 m ²
@ Rs 953.99/m ²					= Rs 47699.00
31/ Painting on parapet wall					
Qty. Vids iter no (18) P(24)					
					= 41.28 m ²
@ Rs 108.98/m ²					= Rs 4498.00
					Total Rs 56,37,823.00
Less 10% of PWD Agreement					Rs 5,63,782.00
					50,74,041.00
Less previous payment					Rs 26,02,627.00
					Rs 24,71,414.00
Shreds 04-09-2020 J.E.					Rs 4,91,250.00

Continuation