

Agency - Dhamrajay K. Singh

Jamne to Jamne Tola

~~State~~ ~~IX~~ ~~Form~~ ~~No.~~ ~~1015~~

1991.4.5, 15.1.14

~~State~~ ~~P.~~ ~~W.~~ ~~D.~~

~~E.E.~~ ~~R.W.D.~~ ~~Work~~ ~~A.B.A.D.~~ ~~Division~~

~~Assistant~~ ~~Engineers~~ ~~R.W.D.~~ ~~Division~~

~~Work~~ ~~Sub~~ ~~Div~~ ~~Kutumba~~

~~State~~ ~~Form~~ ~~No.~~ ~~1001~~

2596

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100 (one hundred) Pages by printers
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Sri Baban ram A.E R.W.D Work
Sub-Div - KUTUMBA

YK Singh
10/7/20
Executive Engineer
Road Works Departt. m
Work Division Aurangabad
10/7/20

Schedule XLV - Form No. 134.

F.E R.W.D A.BAD DIVISION.

Assistant Engineer SUB-DIVISION.

R.W.D Work Sub-Div - KUTUMBA

MEASUREMENT BOOK.

2112.5

2596

Name of officer Sri Baban ram A.E

R.W.D Work Sub-Div - KUTUMBA

Date of Form entry _____

Date of last entry _____

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	<u>3rd & Final bill</u>				
1/10 -	Construction of road from				
	Jamua to Jamua Tola				
Agency -	Sri Dharmajay Ltd. single.				
Agreement No.	68 SBO/20-21				
Date of work start.	18/08/2020				
Date of completion.	17/08/2024				
Date of entry -					
	<u>Measurement</u>				
①	Construction of				
	G.S.B.				
	12	4.05	0.20		9.72 m^3
Curve.	3	25	0.62	0.15	6.99 m^3
					16.71 m^3
②	Providing and laying				
	W.B.M. grade II				
	12	3.75	0.075		3.38 m^3
	3	25	0.60	0.075	3.37 m^3
					6.75 m^3
③	Providing and applying				
	Primer coat (SS-1)				
	40	30	3.75		4500.00 m^2
	12	3	3.75		45.00 m^2
	1	12	3.75		45.00 m^2
	3	25	0.60		45.00 m^2
					4590.00 m^2
④	Providing and applying				
	Tack coat.				
	40	30	3.75		4500.00 m^2
	1	12	3.75		45.00 m^2
	3	25	0.60		45.00 m^2
					4590.00 m^2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(5) Providing and laying					
M.S.S. 20 mm thick.					
		40	30	3.75	4560.00 m ²
		1	12	3.75	45.00 m ²
		3	25	0.60	45.00 m ²
					<u>4590.00 m²</u>

(6) construction of subgrade					
and earthwork shoulders.					
	2 x 40 x 30	(1.182 x 0.075 + 1.388 x 0.20)			
					= 878.88 m ³

(7) setting out pillars.					
(i) Benchmark pillar - 2 Nos.					
(ii) Reference pillar - 4 Nos.					
(8) painting on parapet					
walls.					

Top	3 x 2 x 6.15 x 0.40	= 14.76 m ²
Side	3 x 4 x 6.15 x 0.60	= 44.28 m ²
Front	3 x 4 x 0.40 x 0.60	= 2.88 m ²
		<u>61.92 m²</u>

(9) construction of embankment with material					
C/W calculation.					
chainage	Pill Area	Heav Area	Dist.	Pill vol/4m.	
0	3.310	-	-	-	
50	7.889	5.600	50	279.975	
100	2.757	5.323	50	266.150	
150	6.425	4.591	50	229.550	
200	5.126	5.776	50	288.775	
250	8.603	6.865	50	343.225	
300	7.800	8.202	50	410.075	
350	3.555	5.678	50	283.875	

Continuation

Particulars	Details of actual measurement				Comments of area
	No.	L	B	D	
Chainage	Fill Area	Mean Area	Dist.	Fill Volume	
350	3.555	-	-	-	
400	7.209	5.382	50	269.100	
450	5.837	6.523	50	326.150	
500	6.257	6.047	50	302.350	
550	2.316	4.287	50	214.325	
600	3.236	2.776	50	138.800	
650	4.743	3.990	50	199.475	
700	5.560	5.152	50	257.575	
750	5.116	5.358	50	266.900	
800	4.936	5.026	50	251.300	
850	3.925	4.436	50	221.725	
900	4.713	4.324	50	216.200	
950	4.296	4.505	50	225.225	
1000	2.845	3.571	50	178.525	
1050	3.500	3.173	50	158.625	
1100	2.745	3.123	50	156.125	
1150	3.900	3.323	50	166.125	
1200	3.200	3.550	50	177.500	
		Total qty.		5827.700 m ³	
	Deduction				
		Subgrade preparation (-)		2515.76 m ³	
		G.S.B (-)		874.06 m ³	
		W.B.M. gr. 17 (-)		344.25 m ³	
		Net qty.		2093.63 m ³	
		Granted		2004.38 m ³	
(10)	R.C.C. M-15 Grade				
	kilometer stone.				
	(i) ordinary km stone -				3 Nos.
	(ii) 200 M stone -				4 Nos.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(11) R.C.C. 4-15 grade boundary pillar - 32 Nos.					
(12) Providing and fixing Traffic sign.					
(i) 600 mm equilateral Δ - 6 Nos.					
(ii) 600 mm circular - 2 Nos.					
(iii) 800 x 600 mm rectangular - 4 Nos.					
(iv) 600 x 450 mm rectangular - 2 Nos.					
(v) 900 mm side octagon - 2 Nos.					
(13) Road marking with hot applied thermoplastic compound.					
2 x 40 x 30 x 0.10 2 240.00 m ²					
(14) Planting of Trees by the road side - 120 Nos.					
(15) Providing and fixing of M.G.S.P sign board - 4 Nos.					
Sum of amount 24/11/2020					
32					
				13.2.21	
				AE	

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST</u>					
① clearing and grubbing road land					
0.84 Hec. vide TMBP-9					
@ 51133 = 76/Hec-2					42952 = 4
② Dismantling of existing structure like culvert					
1.15 m ³ vide TMBP-9					
@ 484 = 74/m ³					557 = 4
③ Dismantling of existing structure like culvert brick masonry,					
32.35 m ³ vide TMBP-9					
@ 231 = 77/m ³					7498 = 2
④ Removing of lime pipe up to 600 mm					
15.00 m vide TMBP-9					
@ 174 = 78/m					2622 = 4
⑤ C/W excavation found ⁿ of structure					
89.39 m ³ vide TMBP-9					
@ 269 = 324/m ³					24075 = 4
⑥ Providing p.c.c.-M-15 in open foundation					
13.79 m ³ vide TMBP-10					
@ 5066 = 24/m ³					69863 = 4
⑦ Providing p.c.c.-M-20 in substructure					
101.22 m ³ vide TMBP-10					
@ 5861 = 424/m ³					593293 = 4
					4. 740860 = 4

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				125.4	740860 = 4
(8) Providing and laying					
R.C.C. N ₃ 4 pike of 1000 mm p.					
22.50 m wide TMBP-10					
@ 3800 = 31/m					85507 = 4
(9) Providing and laying					
R.C.C. pike of 300 mm p.					
30.00 m wide TMBP-10					
@ 904 = 82/m					27145 = 4
(10) Excavation & roadway					
in soil (Box cutting)					
47.25 m ³ wide TMBP-10					
@ 74 = 16/m ³					3504 = 4
(11) Constn. of embankment					
with appr. material					
deposited from roadway					
28.35 m ³ wide TMBP-10					
@ 26 = 11/m ³					740 = 4
(12) Construction of embankment					
with material					
2004.38 m ³ wide TMBP-14 to 15					
@ 131203/m ³					262634 = 4
(13) Construction of Subgrade					
and earthen shoulders.					
(i) Up to 100 m					
1636.88 m ³ wide TMBP-11					
@ 141 = 17/m ³					231078 = 4
(ii) Up to 1000 m					
878.88 m ³ wide TMBP-14					
@ 176 = 58/m ³					155193 = 4
					150666 = 4

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				BF.B.	1506661 = u
(14) Construction of					
G.S.B.					
857.35 m ³ wide TMBP - 11					
16.71 m ³ wide TMBP - 13					
874.06 m ³ @ 2700 = 58/m ³					2360469 = u
(15) Providing and laying					
brick in gully - III					
337.50 m ³ wide TMBP - 11					
6.75 m ³ wide TMBP - 13					
344.25 m ³ @ 3834263/m ³					1320071 = u
(16) Providing and applying					
Primer coat (SS-1)					
4590.00 m ² wide TMBP - 13					
@ 45213/m ²					207147 = u
(17) Providing and applying					
face coat					
4590.00 m ² wide TMBP - 13					
@ 15234/m ²					70411 = u
(18) Providing and laying					
MSS 20 mm thick.					
4590.00 m ² wide TMBP - 14					
@ 207 = 93/m ²					954399 = u
(19) Setting out pillars.					
wide TMBP - 14					
(i) Benchmark pillar					
2 Nos. @ 4004 = 03/c					8008 = u
(ii) Reference pillar					
4 Nos. @ 1820 = 67/c					7283 = u
(20) Painting on parapet					
61.92 m ² wide TMBP - 14					

Continuation
@ 97 = 17/m² → 6017 = u

@ 6440466 = u

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				BR. R.	6440466 = v
(21) R.C.C. 4-15 grade					
kilometric stone					
side TMS P. 15					
(i) ordinary ker. stone					
3 Nos. @ 2093 = 87/e					6282 = v
(ii) 2nd ker. stone					
4 Nos. @ 571 = 26/e					2285 = v
(22) R.C.C. 4-15 grade					
boundary pillar					
32 Nos. side TMS P. 16					
@ 472 = 24/e					15112 = v
(23) providing a box					
Traffic sign					
side TMS P. 16					
(i) 600 mm sq. ker. stone					
6 Nos. @ 3713 = 26/e					22280 = v
(ii) 600 mm circular					
2 Nos. @ 4985 = 18/e					9970 = v
(iii) 800 x 600 mm rectangular					
4 Nos. @ 6958 = 15/e					27835 = v
(iv) 600 x 450 mm rectangular					
2 Nos. @ 4854 = 98/e					9710 = v
(v) 900 mm side octagon.					
2 Nos. @ 8881 = 05/e					17762 = v
(24) Road marking with					
hot applied thermoplastic					
compound.					
240.00 m ² side TMS P. 16					
@ 735 = 44/m ²					176506 = v
					R ₂ - 6728206 = v

Continuation

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~~Sundkumar~~
24/12/2020
D.B.

13. 2. 20
A7

CSP

~~15/2/21~~