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Ram - A.E. R.W.D. Warg Sub-Division
Kufumba.

[Signature]
10.1.20
Executive Engineer
Rural Works Depart. of
Works Division, Aurangabad
[Signature]

Schedule XLV - Form No. 134.

E. E. Aurangabad. DIVISION.

A. E. Kufumba. SUB-DIVISION.

MEASUREMENT BOOK.

2556

512320

Name of officer Shi Baban Ram - A.E.

R.W.D. Warg Sub-Div - Kufumba.

Date of first entry _____

Date of last entry _____

Page number of vol. no. :

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 area
	No.	L.	B.	D.	
	<u>1st on A/c bill</u>				
N/w - construction of road from Karma Basantpur path to Bodi Sigla.					
Agency - Sri Kishore K. Singh.					
C.N.P.L. No. - 8(5043)					
Agreement No.					
Date of work start.					
Date of completion.					
Date of entry.					
<u>Measurement</u>					

①	clearing and grubbing road land.				
	2	25	30	3.50	= 5250. m ³
	2	25	30	3.50	= 5250. m ³
					<u>10500. m³</u>
					= 1.054 cc.
②	Excavation for roadway in soil (Box cutting)				
	2	8	30	0.525	0.10 = 25.20 m ³
	2	1	10	0.525	0.10 = 1.05 m ³
					<u>26.25 m³</u>
③	Excavation on ground from top cutting.				
					26.25 x 60/100 = 15.75 m ³
④	Dismantling of existing structure like cutback.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	9	5.30	1.10	0.15	7.83 m^3
(5) Dismantling of existing structure like cut wall brick masonry.					
	9	2	3.60	0.70	144.24 m^3
	9	2	3.60	0.40	15.55 m^3
	2	2	6.15	0.825	76.72 m^3
	2	2	6.15	0.40	5.90 m^3
					<u>242.41 m^3</u>
(6) Removing house pipes.					
(i) up to 600 mm					
	9	3	2.50		67.50 m^3
(ii) 600 mm to 900 mm					
	2	3	2.50		15.00 m^3

(7) construction of embankment with material					
B/W calculation.					
Chainage	Fill Area	Mean Area	Dist.	Fill volume.	
0	0.368	—	—	—	
50	1.001	0.685	50	34.225	
100	1.379	1.190	50	59.500	
150	1.148	1.267	50	63.175	
200	1.315	1.232	50	61.575	
250	1.520	1.448	50	72.375	
300	1.105	1.343	50	67.125	
350	1.267	1.185	50	59.225	
400	1.173	1.207	50	60.175	
450	1.087	1.117	50	55.175	
500	0.866	0.975	50	48.750	

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Chainage	Fill Area	Meas Area	Dist.		Fill vol/yms
500	0.866	-	-	-	-
550	0.973	0.930	50		45.975
600	1.158	1.066	50		53.275
650	0.898	1.028	50		51.400
700	0.873	0.886	50		44.275
750	1.138	1.006	50		50.275
800	0.943	1.041	50		52.025
850	1.200	1.072	50		53.575
900	1.175	1.188	50		59.375
950	1.237	1.206	50		60.300
1000	1.095	1.166	50		58.300
1050	1.357	1.226	50		61.300
1100	1.332	1.345	50		67.225
1150	1.088	1.210	50		60.500

1200	1.056	1.070	50		53.500
1250	0.980	1.016	50		50.800
1300	1.208	1.097	50		54.700
1350	1.705	1.457	50		72.825
1400	1.780	1.743	50		87.125
1450	0.803	1.292	50		64.575
1500	1.377	1.089	50		54.425
					1737.555 ³

(i) For 1000 is less by = 608.145³

(ii) For 1000 is less = 1129.415³

⑧ Efficiencies for
found of structure

600 mm. H.L. $11 \times 2 \times 3.90 \times 1.15 \times 1.50 = 148.000$ ³
Below pit. $11 \times 1 \times 5.35 \times 1.13 \times 0.305 = 24.275$ ³

Continuation

90. 172.270³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>1000 mm</u>				B.P. 4/7	172.27 m ³
H.W. 3 x 2 x 6.45 x 1.40 x 1.50					281.27 m ³
Below pipe. 3 x 1 x 4.85 x 1.53 x 0.365					8.12 m ³
					<u>261.66 m³</u>

⑨ Providing R.C.C. 4-15
in open foundation.

600 mm

H.W. 11 x 2 x 3.90 x 1.15 x 0.15					14.80 m ³
Below pipe. 11 x 1 x 5.311 x 1.13 x 0.25					16.50 m ³
<u>1000 mm</u>					
H.W. 3 x 2 x 6.45 x 1.40 x 0.15					28.80 8.13 m ³
Below pipe. 3 x 1 x 4.931 x 1.53 x 0.25					5.66 m ³
					<u>45.09 m³</u>

⑩ Providing R.C.C. 15-20
in substructure.

600 mm

H.W. 11 x 2 x 3.60 x $\frac{1.00 \times 0.40}{2}$ x 2.78					154.12 m ³
Parapet. 11 x 2 x 3.60 x 0.40 x 0.60					19.01 m ³
Less pipe. 11 x 2 x 0.7857 x $(0.83)^2$ x 0.53					(-) 6.31 m ³
<u>1000 mm</u>					
H.W. 3 x 2 x 6.15 x $\frac{1.25 \times 0.40}{2}$ x 3.18					96.81 m ³
Parapet. 3 x 2 x 6.15 x 0.40 x 0.60					8.85 m ³
Less pipe. 3 x 2 x 0.7857 x $(1.23)^2$ x 0.622					(-) 4.42 m ³
					<u>268.05 m³</u>

⑪ Providing an layer R.C.C. 4/3

H. pipe of 600 mm

$$11 \times 3 \times 2.50 = 82.50 \text{ m}$$

⑫ Providing an layer R.C.C.

RWP 4 pipe of 1000 mm

$$3 \times 3 \times 2.50 = 22.50 \text{ m}$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST</u>					
① Clearing and grading road land.					
1.05 Hec. vide T & SP-1					
@ Rs. 51133 = 76/4 Hec 53690 = ✓					
② Excavation for roadway in soil (Box cutting)					
26.25 m ³ vide T & SP-1					
@ Rs. 74 = 16/m ³ — Rs. 1947 = ✓					
③ Excavated material from box cutting.					
15.75 m ³ vide T & SP-1					
@ Rs. 26 = 11/m ³ — Rs. 411 = ✓					
④ Dismantling of existing structure like culvert.					
7.83 m ³ vide T & SP-2					
@ Rs. 484 = 74/m ³ — Rs. 3796 = ✓					
⑤ Dismantling of existing structure like culvert brick masonry					
242.41 m ³ vide T & SP-2					
@ Rs. 231 = 77/m ³ — Rs. 56183 = ✓					
⑥ Removing lay pipes vide T & SP-2					
(i) up to 600 mm					
67.50 m · @ Rs. 174 = 78/m — Rs. 11798 = ✓					
(ii) 600 mm to 900 mm					
15.00 m · @ Rs. 236 = 34/m — Rs. 3545 = ✓					
⑦ construction of embankment with local material.					

Continuation

Rs. 131370 = ✓

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F.S.		131370 = v
(i) For 1000 m long					
608.14 m ³ vide TMS P-3					
@ 174 = 94/m ³					106388 = v
(ii) For 100 m long					
1129.41 m ³ vide TMS P-3					
@ 131 = 03/m ³					147987 = v
(8) E/W i excavation for foundation of structure.					
261.66 m ³ vide TMS P-4					
@ 269 = 32/m ³					70470 = v
(9) Providing p.c.c. 17-15 in open foundation					
45.09 m ³ vide TMS P-4					
@ 4898 = 83/m ³					220888 = v

(10) Providing p.c.c. 17-20 in substructure.					
268.05 m ³ vide TMS P-4					
@ 5690 = 64/m ³					1525376 = v
(11) Providing and laying R.C.C. 4-pipe of 100 mm.					
82.50 m vide TMS P-4					
@ 981 = 61/m					80983 = v
(12) Providing and laying R.C.C. 4-pipe of 1000 mm.					
22.50 m vide TMS P-4					
@ 3665 = 84/m					82481 = v
(13) Providing and laying R.C.C. pipe of 300 mm.					
80.00 m vide TMS P-5					
@ 882 = 40/m					70592 = v

Continuation

R. 2436535 = v

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F.L		2436525 = v
(14) Construction of Subgrade and cart road shoulders.					
Width T.O.B.P - 5					
(i) Lead up to 1000 m					
1052.75 m ³ @ 176258/m ³					185895 = v
(ii) Lead up to 100 m					
802.38 m ³ @ 14117/m ³					113272 = v
(15) Construction of G.S.B.					
977.25 m ³ width T.O.B.P. 5					
@ 259825/m ³					2539433 = v
					5275135 = v
Add 12% GST					633016 = v
1% L.C.O.S					527512 = v

R. 5960902 = v

Lead 10% (As per rate) @ 596090 = v

5364812 = v

Sum of all items
17/9/2020

C.P.P. 17/9/2020

17/9/2020

Continuation