

Arundha Navinogor Road to Devthappa

~~Arundha Navinogor Road~~

to Devthappa

Arundha P.W.D.

E.E. Road with Arundha Road Division

E.E. Kuppamba S.D. Division

R. K. Construction

Arundha P.W.D.

No 2825

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To Sri... Baban Ram A.E.- R.W.D
Work Sub-Div..... Kulumba

YK 5/10/20
10/7/20

Executive Engineer
Rural Works Division, at
Works Division, Aurangabad

[Signature]
10/7/20

Schedule XLV - Form No. 134.

E. E. Abad.

DIVISION

A. E. Kulumba.

SUB-DIVISION

MEASUREMENT BOOK

2825

211524

Name of officer

Sri Baban Ram A.E.

Kulumba.

Date of first entry

Date of last entry

पञ्चम मासिक वृत्त, पृष्ठ १

13+ on A/C Bill

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 of area
	No.	L.	B.	D.	
Name of work -					
Road to Dadhapa					
Agency - R.K. Construction					
Aggr. No -					
Date of Commence -					
Date of Completion -					
Measurement					

1. E/W in excavation in found'n

$$H.W - 2 \times 2 \times 6.450 \times 1.40 \times 1.50 = 54.18 \text{ m}^3$$

$$B.H.P - 1 \times 2 \times 4.850 \times 1.530 \times 0.365 = 5.42 \text{ m}^3$$

$$59.61 \text{ m}^3$$

2. providing m/s (PCC 1:2.5:3)

$$H.W - 2 \times 2 \times 6.450 \times 1.40 \times 0.150 = 5.42 \text{ m}^3$$

$$B.H.P - 1 \times 2 \times 4.831 \times 1.530 \times 0.250 = 3.78 \text{ m}^3$$

$$9.20 \text{ m}^3$$

3. providing plain/reinforced cement conc.

$$H.W - 2 \times 2 \times 6.150 \times 0.825 \times 3.180 = 64.54$$

$$\text{parapet} - 2 \times 2 \times 6.150 \times 0.40 \times 0.600 = 5.91$$

$$\text{less for pipe} - 2 \times 2 \times 0.7857 \times 1.230^2 \times 0.122 = 2.96$$

$$67.49 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4. providing and laying R.C.C pipe 3x2x2.50 =					15.00 m ³
5. providing painting on parapet wall					
Top - 2x2x6.15 x 0.40 =					9.84
Side - 4x2x6.15 x 0.60 =					29.52
Front - 4x2x0.40 x 0.60 =					1.92
					41.28 m ²

6. Construction of
embankment Culvert,

E/W Calculation Chart

<u>SL</u>	<u>% CH</u>	<u>F/A</u>	<u>M/A</u>	<u>Dist</u>	<u>Volume</u>
1.	0	0.380	-	-	-
2.	50	0.480	0.430	50	21.500
3.	100	0.773	0.627	50	31.325
	1				

4.	150	0.707	0.740	50	37.000
5.	200	0.619	0.663	50	33.150
6.	250	0.244	0.432	50	21.575
7.	300	0.295	0.270	50	13.475
8.	3050	0.335	0.315	50	15.750
9.	400	0.185	0.260	50	13.000
10.	450	0.386	0.271	50	13.525
11.	500	0.606	0.481	50	24.050
12.	550	0.769	0.688	50	34.375
13.	600	0.865	0.617	50	40.850
14.	650	0.475	0.670	50	33.500
15.	700	0.507	0.491	50	24.550
16.	750	0.548	0.528	50	24.375
17.	800	0.850	0.699	50	34.950
18.	850	0.315	0.563	50	32.125

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
19.	900	0.926	0.646	50	32.275 46.450
20.	950	0.873	0.925	50	46.225
21.	1000	0.765	0.829	50	41.450
22.	1050	0.770	0.778	50	38.878
				Qty =	606.900 m ³

(i) For 1000 mm level

$$606.90 \times 20' \frac{1}{2} = 121.38 \text{ m}^3$$

(ii) For 100 mm level

$$606.90 \times 80' \frac{1}{2} = 488.52 \text{ m}^3$$

7. Clearing & grubbing

road land complete

$$2 \times 8 \times 30 \times 3.50 = 1680.00$$

$$2 \times 8 \times 30 \times 3.50 = 1680.00$$

$$2 \times 8 \times 30 \times 3.50 = 1680.00$$

$$2 \times 5 \times 30 \times 3.50 = 1050.00$$

$$2 \times 2 \times 30 \times 3.50 = 420.00$$

$$2 \times 1 \times 20 \times 3.50 = 140.00$$

$$6650.00 \text{ m}^3$$

$$= 0.67 \text{ Hect}$$

8. Providing USB go. I

In BT form

$$8 \times 30 \times 4.05 \times 0.20 = 194.40$$

$$8 \times 30 \times 4.05 \times 0.20 = 194.40$$

$$7 \times 30 \times 4.05 \times 0.20 = 170.10$$

$$1 \times 10 \times 4.05 \times 0.20 = 8.10$$

$$(A) 566.81 \text{ m}^3$$

In C.C. footings

$$8 \times 30 \times 3.75 \times 0.10 = 90.00$$

$$1 \times 10 \times 3.75 \times 0.10 = 3.75$$

$$(B) 93.75 \text{ m}^3$$

$$\text{Total} = (A+B) = 660.56 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

9. Fronting work

3m BT Portion

$$8 \times 30 \times 3.75 \times 0.075 = 67.50$$

$$8 \times 30 \times 3.75 \times 0.075 = 67.50$$

$$7 \times 30 \times 3.75 \times 0.075 = 59.06$$

$$1 \times 10 \times 3.75 \times 0.075 = 2.81$$

$$(A) = 196.87 m^3$$

9m C.C. Portion

$$8 \times 30 \times 3.75 \times 0.075 = 67.50$$

$$1 \times 10 \times 3.75 \times 0.075 = 2.81$$

$$(B) = 70.31 m^3$$

$$\text{Total} = (A + B) = 267.18 m^3$$

Dist.

15/02/2021

D.E

15.2.21

A.E

10. Construction

of Subgrade & earthen shoulder.

$$5 \times 30 \times 7.25 \times 0.30 = 326.25$$

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$$5 \times 30 \times 7.25 \times 0.30 = 326.25$$

$$3 \times 30 \times 7.25 \times 0.30 = 195.75$$

$$1 \times 10 \times 7.25 \times 0.30 = 21.75$$

$$(A) = 1522.50 m^3$$

11. Subgrade in earthen

shoulder complete

Surface Dressing

$$2 \times 23 \times 30 \times 1.182 \times 0.075 = 122.37$$

$$2 \times 1 \times 10 \times 1.182 \times 0.075 = 1.77$$

$$2 \times 08 \times 30 \times 1.182 \times 0.075 = 42.55 m^3$$

$$166.69 m^3$$

1st on A/C Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

Name of work - Amba Navinaga

Recessed to Dadthapa,

Agency - R.K. Construction

Aggr. No -

Date of Commence -

Date of Completion -

ABSTRACT OF COST

1. E/W in excav. in f.d.m.

TMB P-1, I-1

59.61 m³ @ 269.32/m³ 16054=00

2. Providing MIS (PCC)

TMB P-1, I-2

9.20 m³ @ 5066.24/m³ 46609=00

3. Providing plain

Reinforcement

TMB P-1, I-3

67.49 m³ @ 5861.42/m³ 395587=00

4. S/R/R HPC (1000mm)

TMB P-2, I-4

15.00 m @ 38003/1/m 57005=00

5. Constⁿ of embankment

TMB P-3, I-6

(i) 66.20 m³ @ 321.44/m³ 21234=00

(ii) 488.52 m³ @ 131.03/m³ 64011=00

6. Cleaning & grubbing

TMB P-3, I-7

0.67 m³ @ 51133.71/m³ 34260=00

Continuation

634760=00

BFB 634760=00

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
7. Const ⁿ of USB gr I					
TMB P-3, I-8					
660.56 m ³ @ 2556.87/m ³					1688.966=00
8. Const ⁿ of WB Mgt III					
TMB P-4, I-9					
267.18 m ³ @ 3660.97/m ³					978138=00
9. Const ⁿ of subgrade in embankment					
TMB P-4, I-10					
For 100 m lead					
1522.50 x 80 ft = 1218.00					
1218.00 m ³ @ 176.58/m ³					215074=00
(11) For 1000 m lead					
1522.50 x 200 ft = 304.50					

304.50 m ³ @ 176.58/m ³					53769=00
10. Const ⁿ of subgrade in earthen shoulder					
TMB P-5, I-11					
(i) 410.22 m ³ @ 176.58/m ³					72437=00
(ii) 163.58 m ³ @ 176.58/m ³					28814=00
Add subgrade					3671958=00
G.S.T 12%					477355=00
Subtotal 100 ft					4149313
as per agg 90(-)					414931
					366125=00
					3295131=00
					B-3734382=00

Dhr
 17/02/22
 J.C.
 17.2.21
 AE
 C.P.
 19/2/21

Continuation