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machine and issued to Sri Baban
Ram, A.E R.W.D work sub-div.
Kutumba.

Subh
10/7/20

Executive Engineer
Rural Works Division, Mangalore
Works Division, Mangalore

[Signature]
10/7/20

Schedule XLV - Form No. 134.

C.E. R.W.D. Aided DIVISION.

Assistant Engineer SUB-DIVISION.

R.W.D work sub-div. Kutumba.

MEASUREMENT BOOK.

211493 [2609]

Name of owner Sri Baban Ram A.E

R.W.D work sub-div. Kutumba.

Date of first entry _____

Date of last entry _____

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.	
1st on A-12 RM					
Name of work - Constructing Road thru					
Bahy Chikki to Amba					
Dattangroji Road under Head Muz					
Agency - Satish Kumar, Village - Bithra					
P.S. Hasbura Aurangabad.					
Agreement No - 12 S.B.D / 20 20-21					
Agreement value - R-3640 56 4 200					
Date of work start - 08/06/1					
Date of Completion - 07/03/2021					

Rate - 10/- below RM B.O.Q Rate -

Measurement -

01/ clearing and Graveling					
and Road level - d-41					
2x 11x 20m x 3.50 m (w)					2310.00m
2x 1x 30m x 3.0m					180.00
2x 1x 10m x 3.0m					60.00
2x 7x 30m x 3.6m					1512.00
2x 1x 20m x 3.6m					144.00
					4206.00m

0. 42.06 lakh

01/15 & widening and fitting
 of typical type RM. Rs 4
 Informing Sign Board
 with logo - d-41

1x2 = Continuation 2 Nos

Particulars	Details of actual measurement			Contents of area
	No.	L	B	D
Construction of 600 mchitt & Culvert				
(27) 10 W in excavation for				
for road - at ch				
1.1 m				
2x3.90x1.15x1.50m				13.455 m ³
1x5.35x1.15x0.365				2.245
				15.70 m ³
(28) Drilling & laying				
(1:2.5:5) of barly concrete				
in foundation - at ch				
at grade for				
2x3.9x1.15x0.15m				1.346 m ³
1x5.31x1.15x0.3				1.527 m ³
				2.873 m ³
(29) Drilling & laying				
Concrete for sub-				
8 ft. - at ch				
2x3.6x0.70x2.78				14.011 m ³
subul 2x3.60x0.40x0.60				1.728 m ³
				15.739 m ³
less for pipe				
2x0.7857x0.83x0.530				0.574 m ³
				15.165 m ³
(30) Drilling and laying				
Rice pipe 11 ft - for				
60 mchitt & Culvert				
3x 2.50 m				7.50 m ³
(31) Construction of earthen bank				
- at borrow pit - at ch				
Qty as per 140 Calculated				

Continuation

Sch. XLV-I Unit No. 154

Particulars	Details of actual measurement				Contents of area	
	No.	L	B	D		
S.No	Ch	Fill	Area	Mean Area	Length	Volume
1	0	1.371				
2	50	1.467	1.420	50	71.60	
3	100	2.415	1.942	50	97.10	
4	150	1.900	2.158	50	107.825	
5	200	1.828	1.864	50	93.20	
6	250	2.115	1.972	50	98.525	
7	300	1.615	1.865	50	93.250	
8	350	1.782	1.701	50	85.050	
9	400	1.33	1.557	50	73.925	
10	450	2.083	1.708	50	85.375	
11	500	1.469	2.279	50	113.95	
12	550	1.869	2.171	50	108.550	
13	600	1.150	1.530	50	76.475	

1108.325 m³Lead to on - 976.48 m³Lead to on - 131.24 m³

(4) Excavation for road work

- or Box Celling - 1.195

2x1x15m x 2.5+1.50 x 0.10m = 6.00

2x11x30m x 0.525m x 0.10m = 34.65m³

2x1x25m x 0.525m x 0.10 = 2.625

2x7x30m x 0.525m x 0.10m = 22.05

2x1x10m x 2+1 x 0.10m = 3.00

2x1x10 x 0.525 x 0.10m = 1.05

(A) 69.37m³

Continuation

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

$$\text{Volume} = 269.66 \times 30.10 \times 0.60$$

$$= 26.96 \text{ M}^3$$

$$\text{Total G.S. Bulkhead} = \text{A} + \text{B}$$

$$= 96.32 \text{ M}^3$$

② Overlaying on regularity

$$1 \times 20 \times 30 \times 0.05 \times 0.10 = 243.00 \text{ M}^3$$

$$339.32 \text{ M}^3$$

$$\text{Bulkhead } 339.12 \text{ M}^3$$

③/10

Overlaying layer & binding

and concrete - d

W.B.M. 9/3 - d B.I.

$$1 \times 19 \times 30 \times 3.25 \text{ M} = 217.5 \text{ M}^2$$

$$2 \times 10 \times 8.4 \text{ M} = 1120 \text{ M}^2$$

$$1 \times 1 \times 10 \times 3.75 \text{ M} = 37.5 \text{ M}^2$$

$$2295 \text{ M}^2$$

$$\text{Volume} = 2295.00 \times 0.075 \text{ M}$$

$$= 172.125 \text{ M}^3$$

$$= 172.13 \text{ M}^3$$

Construction 2m x 2m Bulkhead

③ 14 W.B.M. x concrete for

failure - d B.I.

$$1 \times 60 \times 3.50 \times 0.65 \text{ M} = 13.65 \text{ M}^3$$

$$2 \times 3.50 \times 1.20 \times 1.80 = 16.38$$

$$4 \times 3.32 \times 3.42 \times 1.80 = 81.68$$

$$111.71 \text{ M}^3$$

③ Overlaying on 1.5m - d

$$1 \times 10 \times 2.50 \times 0.10 = 1.50 \text{ M}^3$$

$$4 \times 3.32 \times 2.42 \times 0.20 = 6.42 \text{ M}^3$$

Continuation

$$7.92 \text{ M}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(34) Dry Peaso mull-d clay					
	4x	2.92x	2.017x	0.20	4.7143
	4x	2.92x	1.917x	0.20	4.48
	4x	2.92x	1.817x	0.20	4.24
	4x	2.92x	1.717x	0.20	4.01
	4x	2.92x	1.617x	0.20	3.78
	4x	2.92x	1.517x	0.20	3.54
	4x	2.92x	1.417x	0.20	3.31
	4x	2.92x	1.317x	0.20	3.08
	2x	2.50x	3.00x	1.50	2.25"
					32.40M ³

(35) Dry Pea M² sand

M ² sand - d					
	4x	2.92x	0.78x	1.78	16.25M ³

(37) Dry weep holes

- d - 20 M³

(38) Dry Pea. M² sand

Stake M² sand - d

	1x	6.0x	2.50x	0.25	3.75
	2x	6.0x	8.00x	0.20	6.00
	4x	6.0x	0.00x	0.01	0.27

10.02M³

(39) S. P. ad clay H²SD

benign - d

@ 70% of cult of clay

	2.25x	70%			1.575M ³
					0.1575M ³

Continuation

= 0.16M³

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(39) S/A Plough H 45.1 1/2 measured - d - 1/2					
@ Qty of Rice = 10.020 M ³					
@ 85% = 8.517 M ³					
@ 70% of 2.35 M ³ = 1.57.50 1/2					
				1009.20 M ³	
				= 1.0092 MT	
(40) Paddy Bank Filling					
2x2.92x5.20x0.20 = 6.07					
Wall 2x2.92x4.61x1.78 = 48.03					
					54.40 M ³
					121.82 M ³
					34.28
less for Fill in made					
(41) Paddy and laying Fill in made - d					
2x					
2x4.61x0.60x1.78 = 9.40 M ³					
1					
4x2.32x0.60x1.87 = 10.42 M ³					
					19.82 M ³
(42) Paddy and laying Rice in Section 8 inch - d - 1/2					
1x2.50x6.0x0.25 = 3.75 M ³					
2x2.50x0.25x0.50 = 0.62 M ³					
					4.38 M ³
(43) S/A Plough H 45.1 1/2 - d - d - 1/2					
@ 85% x 4.38 = 372.30 M ³					
					= 0.372 M ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Construction of the					
structure - d. 145					
2x20x20x1.39 m x 20.20 m					
					= 333.60 m ³
Lead - 1000					191.86 m ³
Lead - 100 m					202.74 m ³
Dr.					
3.15/24					
J.R.					

Amount of cost

(3) Quantity of concrete

and steel

Qty of concrete (1)

= 0.42 m³

51.13376/1000 = 21476

(4) Qty of concrete - d.

Qty of concrete (2)

= 69.37 m³ x 63.00 m³

74.14 m³ - R. 4672 = 0

(5) Construction of concrete

- d. of concrete of 1/10

Qty of concrete (4)

= 34.68 m³ x 26.11 m³ = 987 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑥ Constructing embankment of Lagoon Ponds - d Length - 100 m					
Qty of m³ T.M.B.R. (6)					
= 976.48 m³					
⑦ 131 = 0.2 m³ - R - 246803 =					
⑦ Constructing embankment Shoulder Length 100 m					
Qty of m³ T.M.B.R. (7)					
= 131.84 m³					
⑧ 176 = 58/m³ - R - 232802					
⑧ Constructing Subgrade earthen shoulder - d - d - d					
Qty of m³ T.M.B.R. (8)					
= 201.74 m³					
⑨ 141 = 17/m³ - R - 284802					
⑨ Laying of G.S.B 91 = 1 - d - 1245					
Qty of m³ T.M.B.R. (9)					
= 339.12 m³					
⑩ 2499 = 39/m³ - R - 8475932					
⑩ Laying of W.B.M. 91 = 3 - d - B.I.					
Qty of m³ T.M.B.R. (10)					
= 172.13 m³ -					
⑪ 3539 = 52/m³ - R - 618208 =					
⑪ Laying of M.M. G.S.B Sign Road - d - d					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Q4) rise T.M.B. P. 0.06 (1)					
= 2 N.W.					
Q5) 9254 = 64/m ² R-185092					
Construction boundary d.R.					
(27) Plain field d.					
Q4) rise T.M.B. P. 2					
= 15.70 M ²					
Q5) 269 = 32/m ² R-42282					
(28) Field P. 0. (1.25:5)					
Construction d.					
Q4) rise T.M.B. P. 3					
= 2.873 =					
Q5) 4822 = 38/m ² R-138562					
(29) Field P. 0. 17					
Construction d.					
Q4) rise T.M.B. P. 2					
= 15.170 M ²					
Q5) 5600 = 57/m ² R-849612					
(30) Field P. 0. 17					
Construction d.					
Q4) rise T.M.B. P. 2					
= 7.50 M ² R-74692					
Q5) 995 = 88/m ²					
(31) Construction d.					
Q4) rise T.M.B. P. 5					
= 11.71 M ²					
Q5) 269 = 32/m ² R-300852					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(37) Filly weep fully-d @ Hydr T.M.B. No (6) = 20 M ³ @ 105 = 52 - R-2190 =					
(38) Filly Rec. in Filly - d @ Hydr T.M.B. No (5) = 7.92 M ³ @ 4822 = 88 - R-380710 =					
(39) Filly Rec. M20 in @ Hydr T.M.B. No (6) = 37.40 M ³					
(40) 54 10 = 48 / M ² R-180710 =					
(41) Filly S/N / Plung HYDR Rec. - d @ Hydr T.M.B. No (6) = 0.16 M ³ @ 45635 = 11 / M ² R-7210 =					
(42) Filly Rec. M20 in @ Hydr T.M.B. No (6) = 16.24 M ³ @ 5600 = 57 / M ² R-91009 =					
(43) Filly Rec. M20 in @ Hydr T.M.B. No (6) = 10.02 M ³ @ 6193 = 32 / M ² R-62057 =					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
39) S/A 10-18 kg H. 4.5. 2 br - d 312					
Qty in the T.M.B.R. No 7					
= 110 MT					
40) 45826 = 10/MT R - 46284 =					
41) Early Back fly - d - d 125					
Qty in the T.M.B.R. No 7					
= 34.28 MT					
42) 202 = 46/MT R - 24080 =					
43) Early fly in the road - d - d					
Qty in the T.M.B.R. No 7					
= 19.80 MT					
44) 3134 = 77/MT R - 62131 =					
45) Early and laying residual count Count 130951 in Super Struck - d 125					
Qty in the T.M.B.R. No 7					
= 4.38 MT					
46) 6737 = 17/MT R - 29508 =					
47) S/A 10-18 kg H. 4.5. 2 br - d 312					
Qty in the T.M.B.R. No 7					
= 0.372 MT					
48) 46875290 = R - 17438 =					
R - 2854034 =					

Continuation

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