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To Sri. Babun Ram - A.E. R.W.D.
Work Sub-Div. Kutumba.

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10/7/2020
EXECUTIVE ENGINEER
Rural Works Division, nt
Work Division, Aurangabad

Schedule XLV - Form No. 134.

E.E. Arbed. DIVISION.

A.E. Kutumba SUB-DIVISION.

MEASUREMENT BOOK.

211120

2650

Name of officer

Date of first entry

Date of last entry

विद्या नगरमेंट वेरा, नगर :

(These four lines should be repeated at the commencement of the measurements relating to each work.)

Measurement			
①/Classey and Grabbing			
② Road land - d - RTI			
2x4x	30m x 4.0m	=	960.00m ²
2x3x	30m x 4.0m	=	720.00m ²
2x2x	30m x 3.0m (W)	=	360.00'
2x3x	30m x 2.50m (W)	=	450.00'
2x22x	30m x 3.50m	=	4620.00''
			7110m ²
			= 0.71hectar✓
② Inside Excludes for			
④ road way in soil - d			
(Box cutting) - d - d			
- d - RTI			
③ Side of B.E. Sliding			
Continuation			
2x12x	30m x 0.375m x 0.10m	=	27.00m ³

Continuation
 $2 \times 12 \times 30 \text{ m} \times 0.375 \text{ m} \times 0.10 \text{ m} = 27.00 \text{ m}^3$

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

⑤ Construction of Embankment

- of Material obtained from

Barrow pit - of - 215

At grade in calculation chart

S.N.	Change in M	Fill Area M^2	Mean Area M^2	Dist	Fill Volume
1	0	0.390 M^2	.	.	.
2	50	0.632	0.511	50	25.550 M^2
3	100	0.865	0.749	50	37.425 "
4	150	0.101	0.483	50	24.150 "
5	200	0.759	0.430	50	21.50 "
6	250	0.475	0.617	50	30.850 "
7	300	0.275	0.375	50	18.75 "
8	350	0.992	0.334	50	16.675 "
9	400	1.070	0.731	50	36.550 M^2
10	450	0.652	0.861	50	43.050 "
11	500	0.878	0.765	50	38.250 "
12	550	0.504	0.765	50	34.550 "
13	600	0.688	0.596	50	29.80 "
14	650	0.848	0.768	50	38.40 "
15	700	0.782	0.815	50	40.75 "
16	750	1.270	1.026	50	51.300 "
17	800	1.050	1.160	50	58.00 "
18	850	0.872	0.961	50	48.050 "
19	900	0.572	0.722	50	36.10 "
20	950	1.038	0.805	50	40.25 "
21	1000	0.673	0.856	50	42.775 "
22	1020	0.531	0.602	20	12.040 M^3
					724.765 M^3

⑥ At grade level 4 Continuation = 217.43 M^3

⑦ " " " 1000 M^3 = 507.33 M^3

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Base of BE S					
					$2 \times 12 \times 30 \text{ m} \times 0.275 \text{ m} \times 0.10 \text{ m} = 27.00 \text{ m}^3$
⑧ Concrete curb					
5					
- d - disposed of side					
At grade T.M.B.P. ⑧ = 27.00 m ³					
27.00 m ³ x 60% = 16.20 m ³					
Concrete of H. Paveh = 60 m ³					
④/31 Bitu in excess					
for foundation d-ET					
3x 2x 3.90 m x 1.15 m x 1.50 m = 40.36 m ³					
Bitu Pipe					
3x 1x 5.35 m x 1.13 m x 0.365 = 6.62 m ³					
					46.98 m ³

⑤/32 Bitu MIS (PCC)					
- d - mix (1:2:5:5)					
in foundation - d-ET					
3x 2x 3.90 m x 1.15 m x 0.15 m = 4.04 m ³					
3x 1x 5.31 m x 1.13 m x 0.25 m = 4.50 m ³					
					8.54 m ³

⑥/33 Bitu Plain cement					
Concrete M20 in sub-					
Structure - d - ET					
3x 2x 3.60 m x 0.70 m x 2.780 = 42.03 m ³					
for foundation					
3x 2x 0.7857 x (0.83) ² x 0.530 = 0.16 m ³					
					40.42 m ³

⑦/34 Bitu and lagging					
RCC Pipe NP3 for					
Culvert - d - ET					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
3x 3x 2.50m				=	22.50 M
⑦/33 Bridging Piece					
in Sub Structure - dr - B1					
Format - 3x 2x 3.60m x 0.40 x 0.60m					= 5.184 m ³
Constructing 1000mm dia H.P.					
⑧/36 B.W. in excavation					
Format - dr - B1					
3x 2x 6.45m x 1.40 x 1.50m					= 81.27 m ³
Balwa Pipe - 3x 1x 4.85 x 1.53 x 0.365m					= 8.13 m ³
					89.40 m ³
⑨/37 Bridging Piece M15					
max 4(1.20 x 5.5) m - dr - B1					
Format - dr - B1					
3x 2x 6.45m x 1.40 x 0.15m					= 8.127 m ³
Balwa Pipe - 3x 1x 4.93 x 1.53 x 0.25m					= 5.657 m ³
					13.784 m ³
⑩/38 Bridging Plain Coat					
Concrete M20 in Sub-Structure - dr - B1					
3x 2x 6.15 x 0.825 x 3.18m					= 96.80 m ³
less sub pipe 3x 2x 0.785 x (1.23) ² x 0.622					= 4.427 m ³
					92.38 m ³
⑪/39 Bridging laying Rice					
Pipe M183 in Culvert					
- dr - dr - B1					
3x 3x 2.50				=	22.50 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑫/38 Paving P.C.C. 1/20 in 2nd stage - dr. E.I.					
Point 3x2x 6.15x0.4x0.40 = 8.856m ³					
⑬/6 Construction Embankment - dr. Mahul - dr. Bramfield					
Qty side T.M.P. P.C.C. 1/20 = 217.43m ³					
⑭/9 Construction of Subgrade and center Shoulder - E.I.					
For New Construction					
1x 10x30m x 7.27m (av) x 0.30m = 654.30m ³					
1x 11x30m x 7.27m (av) x 0.30m = 719.73m ³					
1x 1x16.0m x 7.27 (av) x 0.30m = 34.90m ³					
					1408.93m ³

⑮/10 Paving granular @ 0.15 Rate					
Sub-base (G.S.B 9-1)					
— dr — dr — E.I.					
1x 10x30m x 4.05m x 0.20m = 243.00m ³					
1x 11x30m x 4.05m x 0.20m = 267.30m ³					
					510.60m ³

In P.C.C bottom 2x 12x30m x 0.375m x 6.10m					
widening					27.00m ³

1x bridge Correlation					⑮
1x 7.0m x 2.30m = 16.10m ²					
2x 5.0m x 2.0m = 20.00'					
1x 6.80 x 2.25 = 15.30					
2x 6m x 2.0m = 24.00'					
1x 4.90 x 2.35 = 11.51					

Continuation 86.91m²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					B.F. @ 4g - 86.91m ²
	1x	10.65	2.15		= 22.90 "
	2x	4.0	2.50		= 20.00 "
	1x	9.70	2.10		= 20.37 "
	1x	3.50	2.00		= 7.00 "
					157.18m ²

$$\text{Volume} = 157.18 \text{m}^2 \times 0.10 \text{m (hr)} = 15.71 \text{m}^3$$

③

Total G.S.B. & L.I. Work done

$$= \text{①} + \text{②} + \text{③} = 553.31 \text{m}^3$$

⑪ Finishing & laying

Spondering and Compacting

- d - W.B.M. 3 - d -

- d - d - R.I.

$$1x \quad 10 \times 30 \text{m} \times 3.75 \text{m} \times 0.075 \text{m} = 84.375 \text{m}^3$$

$$1x \quad 21 \times 30 \text{m} \times 3.75 \text{m} \times 0.075 \text{m} = 92.81 \text{m}^3$$

$$1x \quad 12 \times 30 \text{m} \times 3.75 \text{m} \times 0.075 \text{m} = 101.25 \text{m}^3$$

$$177.185 \text{m}^3$$

$$278.435 \text{m}^3$$

⑧ Construction of earthwork

Shoulder - d - d - R.I.

$$2x \quad 10 \times 30 \text{m} \times 1.388 \text{m} \times 0.20 \text{m} = 166.56 \text{m}^3$$

$$2x \quad 11 \times 30 \text{m} \times 1.388 \text{m} \times 0.20 \text{m} = 183.216 \text{m}^3$$

$$2x \quad 10 \times 30 \text{m} \times 1.182 \text{m} \times 0.075 \text{m} = 53.19 \text{m}^3$$

$$2x \quad 11 \times 30 \text{m} \times 1.182 \text{m} \times 0.075 \text{m} = 58.51 \text{m}^3$$

$$2x \quad 12 \times 30 \text{m} \times 0.50 \text{m} \times 0.1 \text{m} = 36.00 \text{m}^3$$

$$2x \quad 12 \times 30 \text{m} \times 0.50 \text{m} \times 0.1 \text{m} = 36.00 \text{m}^3$$

$$496.91 \text{m}^3$$

⑫ Finishing and fixing

of Typical M.M.G.S.Y.

Infrastructure Sign

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Board with Logo					
adpms - d - d - B					
		1X 2 Nos			2 Nos
③ Finishing and laying of R.C.C. Pipe 300 mm dia					
				245	
		2X 23 Nos			
		2X 3X 2.50 m			15 m
2000					
25/01/2024		25.1.21			
5.12		At			

1st on AIC Bell

Abstract of Cost

③ clearing and grading

the road land - 245

Qty of T.M. BR 3/4 ①

= 0.71 truck

@ 51133 = 76 truck - R-3630520

④ Finishing Box Culvert

d - d - 245

Qty of T.M. BR 3/4 ①

= 27.00 m³@ 74 = 16 m³ - R - 2002 = 0

R-38307 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F.R.		38307 =
⑤ Construction of embankment -					
Mehul - dr at site - 212					
Qty of T.M. B.R. ③					
= 16.20 m ³					
⑥ 26 = 11/m ³ - R					423 =
⑥ Construction of embankment -					
- dr Brown Pk - dr					
Lead up to 100m					
Qty of T.M. B.R. ⑤					
113/6 = 217.43 m ³					
⑥ 131 = 03/m ³ - R					28490 =

⑦ Construction of - dr Brown Pk - dr					
Lead up to 100m					
Qty of T.M. B.R. ①					
= 507.33 m ³					
⑥ 174 = 94/m ³ - R					88752 =

⑧ Construction Subgrade and earth shoulder					
- dr do 212					
Qty of T.M. B.R. ⑥					
Lead up 100m					
496.91 m ³ - R					87744 =
⑥ 176 = 58/m ³					
⑨ Construction Subgrade and earth shoulder					
Lead up to 100m					

Qty of T.M. B.R. ⑤					
= 1408.93 m ³					
⑥ 141 = 17/m ³					
R. 198899 =					

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑩ Ridge G.C. B g/h — d — d — RT Qty of T.M.B. B.R.N. (6) — 553.31 m ³ ② 355 = 68/m ² - R. 1303421 =					
⑪ Ridge W.B.M. g/h - 3 — d — d — RT Qty of T.M.B. B.R.N. (6) = 278.435 m ³ ③ 3417 = 87/m ² - R. 9,5165520					
⑫ Ridge and firming — d — M M G.S. 4 in forming sign - d — Qty of T.M.B. B.R.N. (7) = 2 Nos ④ 9210.83/m ² - R. 1842220					
⑬ W in excavation in road - d — RT Qty of T.M.B. B.R.N. (3) = 46.76 m ² ⑤ 269 = 32/m ² - R. 1265320					
⑭ Ridge and leveling — d — R.C. R. 300mm dia — d — RT Qty of T.M.B. B.R.N. (7) = 18.00 m ⑥ 876 = 49/m ² = R. 1314720					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(32) Lining P.C.M. 15 ft -d- in fore drain E.I.					
Qty. vol. T.M.B.P. No (3)					
= 8.55 m ³					39749 = 0
@ 4649 = 41 m ² - R. 3949 = 0					
(33) Lining Bl. in concrete Concrete M20 grade in Sub Structure - B.I.					
Qty. vol. T.M.B.P. No (3)					
= 40.42 m ³					
Qty. vol. B.P. (4)					5.184 m ³
Bulk vol.					45.60 m ³
					45.51 m ³
@ 5414 = 25 m ² - R. 246403 = 0					
(34) Lining and laying R.C. Pipe - N.B.					
(600 mm dia) -d- B.I.					
Qty. vol. T.M.B.P. No (4)					
= 22.50 m					
@ 967 = 35 m ² - R. 21765 = 0					
(35) Costing of 1000 mm dia 400 mm x 400 mm for fore drain -d- B.I.					
Qty. vol. T.M.B.P. No (4)					
= 89.40 m ³					
@ 269 = 32 m ² - R. 24077 = 0					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(37) Land area for 115					
- of 1000 ft. - 215					
Qty of T.M.P.R. (4)					
= 13.78 M ²					
@ 4645 = 41 M ² R-61064 = 0					
(38) Land area for 120					
area of concrete 120					
for sub-structure - 4 E.I.					
Qty of T.M.P.R. (4) 92.38 M ²					
" " (5) 8.85 M ²					
				101.22 M ²	
@ 5414 = 25 M ² R-548030					

(39) Bridge and laying					
Rice Pipe M.P.R. - 1000 ft.					
(1000 ft.) - 4 E.I.					
Qty of T.M.P.R. No (4)					
= 22.50 M					
@ 3630 = 41 M ² R-81685 = 0					
					Total R-3767686 = 0
					485799 = 0
Add when cut - 1.1					(+) R-3696
G.S. - 121					R-4257485 = 0
less 1st. As per Agreement					(-) R-425748 = 0
					Total R-38,31,737 = 0

25/01/2022
J.E.

25/1/21
A.E.

C.B.P.
Y.L. Singh
2/2/21