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Sri Baburam A.E R.W.D. Work
Sub-Div- Kutumba

10/7/20
Executive Engineer
Road Works Department
Works 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.

211255

2597

Name of holder Sri Baburam A.E
R.W.D. Work Sub-Div. - Kutumba

Date of first entry _____

Date of last entry _____

Page number of, etc. :

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 or area
	No.	L.	B.	D.	
1st on the hill					
N/w. construction of road from Kutumbi Sande Dymari path to Korandik.					
Agency. Sri Dharmajay Kr singh.					
Agreement No. 69 SBD/2020-21					
Date of work start. 18.08.20.					
Date of completion. 17.08.21					
Date of entry.					
Measurement.					

①	clearing and grubbing good land.				
	27	40	30	3.50	= 8400.00 m ²
	27	15	30	3.50	= 3150.00 m ²
	27	1	20	3.50	= 140.00 m ²
					11690.00 m ²
					= 1.17 Hec.
②	Disassembly of existing structure like Culvert. Cement concrete.				
	27	5.31	0.95	0.20	= 2.02 m ³
	27	4.93	1.00	0.20	= 1.97 m ³
					3.99 m ³
③	Disassembly of existing structure like Culvert. Cement mortar.				

Continuation

5000. 2

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	2	2	3.60	0.70	3.18 = 32.05 m^3
	2	2	3.60	0.40	0.60 = 3.46 m^3
	2	2	6.15	0.85	3.18 = 64.54 m^3
	2	2	6.15	0.40	0.60 = 5.90 m^3
	2	7	3.00	0.70	2.15 = 9.04 m^3
	105	2	0.7857	(0.13)	0.53 = 1.15 m^3
	2	2	0.7857	(4.23)	0.612 = 2.95 m^3
					<u>110.89 m^3</u>

(4) C/P in excavation
for found. of structure.

600 mm

H.W. 4 $\times$ 2 $\times$ 3.90 $\times$ 1.15 $\times$ 1.50 = 53.82 m^3

Below pile. 4 $\times$ 1 $\times$ 5.35 $\times$ 1.13 $\times$ 0.365 = 8.83 m^3

1000 mm

H.W. 2 $\times$ 2 $\times$ 6.45 $\times$ 1.40 $\times$ 1.50 = 54.18 m^3

2 $\times$ 1 $\times$ 4.85 $\times$ 1.53 $\times$ 0.365 = 5.42 m^3

122.24 m^3

(5) Providing P.C.C. 1-15
in open foundation.

600 mm

H.W. 4 $\times$ 2 $\times$ 3.90 $\times$ 1.15 $\times$ 0.15 = 5.38 m^3

Below pile. 2 $\times$ 1 $\times$ 5.31 $\times$ 1.13 $\times$ 0.25 = 6.00 m^3

1000 mm

H.W. 2 $\times$ 2 $\times$ 6.45 $\times$ 1.40 $\times$ 0.15 = 5.42 m^3

2 $\times$ 1 $\times$ 4.93 $\times$ 1.53 $\times$ 0.25 = 3.78 m^3

20.58 m^3

(6) Providing P.C.C. M-20
in sub structure

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>600 mm φ.</u>					
H.W. 4 × 2 ×		3.60 ×	$\frac{1.00 + 0.40}{2}$	2.78	= 56.04 m ³
Parapet. 4 × 2 ×		3.60 ×	0.40 ×	0.60	= 6.92 m ³
Less pipe. 4 × 2 ×		0.7857 ×	(0.83) ²	0.53	= (-) 2.28 m ³
<u>1000 mm φ.</u>					
H.W. 2 × 2 ×		6.15 ×	$\frac{1.25 + 0.40}{2}$	3.18	= 64.54 m ³
Parapet. 2 × 2 ×		6.15 ×	0.40 ×	0.60	= 5.91 m ³
Less pipe. 2 × 2 ×		0.7857 ×	(1.23) ²	0.622	= (-) 2.96 m ³
					<u>128.16 m³</u>
(7) Providing and laying R.C.C.					
HP 4 pipe of 600 mm φ.					
	4 ×	3 ×	2.50		= 30.00 m
(8) Providing and laying R.C.C.					
NP 3 pipe of 1000 mm φ.					
	2 ×	3 ×	2.50		= 15.00 m
(9) Providing and laying					
R.C.C. pipe of 300 mm φ.					
	5 ×	4 ×	2.50		= 50.00 m
(10) Excavation for roadway					
in soil (Box cutting)					
	2 ×	16 ×	30 ×	0.375 ×	0.10 = 36.00 m ³
	2 ×	1 ×	20 ×	0.375 ×	0.10 = 1.50 m ³
					<u>37.50 m³</u>
(11) Contn. of embankment.					
from excavated material					
from box cutting					
vide item No. 10					
			37.50 ×	$\frac{60}{100}$	= 22.50 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(12) Construction of Subgrade and earthen shoulders.					
$28 \times 30 \times \frac{6.83+7.72}{2} \times 0.30$					$= 1833.30 \text{ m}^3$
$1 \times 10 \times \frac{6.83+7.72}{2} \times 0.30$					$= 21.83 \text{ m}^3$
(i) up to 1000 m bar					$= 1060.93 \text{ m}^3$
(ii) up to 1000 m bar					$= 793.90 \text{ m}^3$
(13) Construction of G.S.B.					
$28 \times 30 \times 4.05 \times 0.10$					$= 680.40 \text{ m}^3$
$1 \times 10 \times 4.05 \times 0.10$					$= 8.10 \text{ m}^3$
$2 \times 16 \times 30 \times 0.375 \times 0.10$					$= 36.00 \text{ m}^3$
$2 \times 1 \times 30 \times 0.375 \times 0.10$					$= 1.50 \text{ m}^3$
Profile correction.					
$4 \times 2.95 \times 1.70 \times 0.15$					$= 3.01 \text{ m}^3$
$9 \times 2.80 \times 1.90 \times 0.15$					$= 7.18 \text{ m}^3$
$5 \times 2.45 \times 1.65 \times 0.15$					$= 3.03 \text{ m}^3$
$7 \times 2.30 \times 2.10 \times 0.15$					$= 5.51 \text{ m}^3$
$10 \times 1.73 \times 1.45 \times 0.15$					$= 3.77 \text{ m}^3$
					748.50 m^3
(14) Providing and laying with grading. III					
$29 \times 30 \times 3.75 \times 0.075$					$= 244.69 \text{ m}^3$
$1 \times 15 \times 3.75 \times 0.075$					$= 4.22 \text{ m}^3$
					248.91 m^3
(15) Construction of cement concrete pavement 4-30.					
$3 \times 30 \times 3.75 \times 0.160$					$= 54.00 \text{ m}^3$
$1 \times 6 \times 3.75 \times 0.160$					$= 3.60 \text{ m}^3$
					57.60 m^3
S. Kumar 24/11/2020 S.B.					
26.11.20 AE					

Continuation

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Particulars	Details of actual measurement			Content of area
	No.	L	B	D
ABSTRACT OF COST				
① clearing and grubbing road land.				
1.17 Hec. vide TNSP - 1				
				$\text{CR. } 51133 = 76/\text{Hec} - 1 \quad 59826 = \text{cu}$
② Dismantling of existing structure like culvert cement concrete.				
3.99 m ³ vide TNSP - 1				
				$\text{CR. } 484 = 74/\text{m}^3 - 1934 = \text{cu}$
③ Dismantling of existing structure like culvert cement masonry.				
110.89 m ³ vide TNSP - 1 to 2				
				$\text{CR. } 231 = 77/\text{m}^3 - 25701 = \text{cu}$
④ G.P.W. excavations foundations of structure.				
122.24 m ³ vide TNSP - 2				
				$\text{CR. } 269 = 32/\text{m}^3 - 32922 = \text{cu}$
⑤ Providing p.c.c. M-15 in open foundation				
20.58 m ³ vide TNSP - 2				
				$\text{CR. } 4916 = 24/\text{m}^3 - 101176 = \text{cu}$
⑥ Providing p.c.c. M-20 in substructure.				
128.16 m ³ vide TNSP - 2 to 3				
				$\text{CR. } 5709 = 26/\text{m}^3 - 731699 = \text{cu}$
⑦ Providing and laying p.c.c. 100 mm thick of 600 mm.				

Continuation
30.00 m vide TNSP - 3

$$\text{CR. } 984 = 46/\text{m} - 29534 = \text{cu}$$

$$\text{R. } 982792 = \text{cu}$$

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.S.	982792 = 4
(8) Providing and laying R.C.C.					
1/2" dia. pipe of 1500 mm.					
15.00 m wide T.M.B.P. - 3					
				@ 3672 = 92/5	55094 = 4
(9) Providing and laying					
R.C.C. pipe of 300 mm.					
50.00 m wide T.M.B.P. - 3					
				@ 883 = 58/5	44179 = 4
(10) Excavation for roadway					
cut (Box cutting)					
37.50 m ² wide T.M.B.P. - 3					
				@ 74 = 16/5	2781 = 4
(11) earth & embankment					
from excavated material					
from box cutting					
22.50 m ² wide T.M.B.P. - 3					
				@ 26 = 11/5	587 = 4
(12) construction of subgrade					
and earthen shoulders					
1800 x 83 m ² wide T.M.B.P. - 4					
(i) up to 1000 mm deep					
1060.93 m ³ @ 176 = 58/5					187339 = 4
(ii) up to 100 mm deep					
793.90 m ³ @ 141 = 17/5					112075 = 4
(13) construction of					
G.S.B.					
748.50 m ² wide T.M.B.P. - 4					
				@ 2612 = 92/5	1955771 = 4
					3340618 = 4

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.R.	3340618 = 4
(14) Providing and laying					
with grading. 111					
248.91 m ³ wide T.M.P. 4					
				at 3817 = 25/m ³	950152 = 4
(15) Construction of cement					
concrete pavement. M-30.					
57.60 m ³ wide T.M.P. 4					
				at 6214 = 57/m ³	357959 = 4
					4648729 = 4
				Add 12% GST	557847 = 4
				1% L.C.W.	46487 = 4
					5253063 = 4
Less 10% (As per rate)					525306 = 4

6. 4727757 = 4

24/11/2020

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26.11.20

AC

CSP

26/11/2020

Continuation