

Amba Nabinsagar Rd. to Shamkaspur

~~Sub-Station~~ (K.P.N.S.)

10.10.19

DRIVE P.W.D.

E.E. R.S.D. - Aurangabad. DIVISION

A.E. Kutchambda. S.D. DIVISION

WASUNIMANT. DOCK 10/2646

Agency - Rahul Kumar

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To Sri. Babur / Ram A.E- R.W.C
Work Sub-Div. Kutumba.

Y. K. Singh
Executive Engineer
Rural Works Division, in
Works Division, Aurangabad
10/3/2020

Schedule XLV - Form No. 134.

E.E. Akbar DIVISION.

A.E. Kutumba SUB-DIVISION.

MEASUREMENT BOOK.

211401

2646

Name of owner Shri Babur Ram A.E

Kutumba

Date of form entry _____

Date of last entry _____

पिछा नमस्ते देव, नमः ।

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

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(4) Remounting all types of H.W. pipe.					
(i) Laying 600 mm of					0.
		2 x 3	2.50	=	7.50 m ² 15.00
(ii) Above 600 mm of					
		1 x 2	2.50	=	5.00 m ² 2.50 m ²
(5) Providing and laying R.C. pipe of 300 mm.					
		2 x 4	2.50	=	20.00 m ²
(6) E/W in concrete to form of structure.					
H.W. 2 x 2 x 3.90 x 1.15 x 1.50 =					26.91 m ³
Below pipe - 2 x 1 x 5.35 x 1.13 x 0.305 =					4.41 m ³
					<u>31.32 m³</u>

(7) Providing M-15 P.C.C. in open foundation					
H.W. 2 x 2 x 3.90 x 1.15 x 0.15 =					2.69 m ³
Below pipe - 2 x 1 x 5.35 x 1.13 x 0.25 =					3.00 m ³
					<u>5.69 m³</u>
(8) Providing P.C.C. M-20 in sub-structure					
H.W. 2 x 2 x 3.60 x $\frac{1.00 + 0.40}{2}$ x 2.78 =					28.02 m ³
Parapet. 2 x 2 x 3.60 x 0.40 x 0.60 =					3.46 m ³
Less pipe - 2 x 2 x $\frac{\pi}{4}$ x (0.83) ² x 0.53 =					(-1.14 m ³)
					<u>30.34 m³</u>
(9) Providing and laying R.C.C. of H. pipe of 600 mm.					
		2 x 3	2.50	=	15.00 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(10) Excavation for roadway					
cut (box cutting)					
$2 \times 6 \times 30 \times 0.525 \times 0.10 = 18.90 \text{ m}^3$					
$2 \times 1 \times 20 \times 0.525 \times 0.10 = 2.10 \text{ m}^3$					
$2 \times 9 \times 30 \times 0.375 \times 0.10 = 20.25 \text{ m}^3$					
$2 \times 1 \times 15 \times 0.375 \times 0.10 = 1.13 \text{ m}^3$					
					<u>42.38 m³</u>
(11) Excavated material from box cutting					
					$42.38 \times 60/100 = 25.43 \text{ m}^3$
(12) Construction of subgrade and earthen shoulders					
$3 \times 30 \times \frac{6.83 + 7.72}{2} \times 0.30 = 196.43 \text{ m}^3$					
$2 \times 9 \times 30 \times (1.182 \times 0.075 + 1.588 \times 0.20) = 197.77 \text{ m}^3$					
$2 \times 1 \times 20 \times (1.182 \times 0.075 + 1.588 \times 0.20) = 14.65 \text{ m}^3$					
$2 \times 9 \times 30 \times 0.375 \times 0.335 = 67.83 \text{ m}^3$					
$2 \times 1 \times 15 \times 0.375 \times 0.335 = 3.77 \text{ m}^3$					
(1) 144.14 m^3					
(2) 336.31 m^3					
					<u>480.45 m³</u>
(13) Construction of G.S.B.					
$2 \times 6 \times 30 \times 0.525 \times 0.10 = 18.90 \text{ m}^3$					
$2 \times 1 \times 26 \times 0.525 \times 0.10 = 2.73 \text{ m}^3$					
$1 \times 6 \times 30 \times 4.05 \times 0.10 = 72.90 \text{ m}^3$					
$1 \times 1 \times 26 \times 4.05 \times 0.10 = 10.53 \text{ m}^3$					
$1 \times 3 \times 30 \times 4.05 \times 0.20 = 72.90 \text{ m}^3$					
$2 \times 9 \times 30 \times 0.375 \times 0.10 = 20.25 \text{ m}^3$					
$2 \times 1 \times 20 \times 0.375 \times 0.10 = 1.50 \text{ m}^3$					
Profile correction					
$6 \times 1.95 \times 1.60 \times 0.15 = 2.66 \text{ m}^3$					
$9 \times 1.74 \times 1.85 \times 0.15 = 4.25 \text{ m}^3$					
$5 \times 2.15 \times 1.55 \times 0.15 = 2.55 \text{ m}^3$					
$7 \times 2.10 \times 1.80 \times 0.15 = 3.97 \text{ m}^3$					
Continuation					
$8 \times 1.98 \times 1.76 \times 0.15 = 4.18 \text{ m}^3$					
$5 \times 2.45 \times 2.05 \times 0.15 = 3.77 \text{ m}^3$					
$4 \times 1.74 \times 0.90 \times 0.15 = 0.94 \text{ m}^3$					
					<u>222.03 m³</u>

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(14) Providing and laying with gravel. <u>111</u>					
9x 30x 3.75x 0.075 =					75.94 m ³
1x 26x 3.75x 0.075 =					
1x 26x 3.75x 0.075 =					7.25 m ³
8x 30x 3.75x 0.075 =					67.50 m ³
1x 15x 3.75x 0.075 =					4.22 m ³
1x 30x 2.75x 0.075 =					6.19 m ³
1x 19x 2.75x 0.075 =					3.86 m ³
					<u>164.95 m³</u>

(15) construction of cement

concrete pavement n. 30

$$8 \times 30 \times 3.75 \times 0.160 = 144.00 \text{ m}^3$$

$$1 \times 15 \times 3.75 \times 0.160 = 9.00 \text{ m}^3$$

$$1 \times 30 \times 2.75 \times 0.160 = 13.20 \text{ m}^3$$

$$1 \times 19 \times 2.75 \times 0.160 = 8.36 \text{ m}^3$$

$$174.56 \text{ m}^3$$

$$\text{Limiting } 174.42 \text{ m}^3$$

(16) construction of embank.

ment with material.

B/W calculation.

Chainage	Fill Area	Mean Area	Dist.	Fill Volume
0	5.258	—	—	—
50	5.003	5.131	50	256.525
100	5.109	5.046	50	254.300
150	4.546	4.877	50	243.875
200	5.027	4.807	50	240.325
250	5.100	5.064	50	253.175
300	3.093	4.396	50	219.825
350	3.077	3.385	50	169.250

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Chainage	Pill	Area	Mean Area	Dist.	Pill volume.
350	3.077		—	—	—
400	3.026		3.052	50	152.575
450	3.177		3.102	50	155.075
500	3.062		3.119	50	155.975
575	3.008		3.035	75	227.625
			Total ph		2328.525 ³
Deductions.					
			Subgrade & shoulders (-)		480.455 ³
			C.S.B — (-)		222.035 ³
			W.M. gr. II (-)		164.955 ³
			C.C. pavement (-)		174.425 ³
			Net ph		1286.675 ³
			(i) For 1000 m long =		480.265 ³

(ii) For 100 m long = 788.585³

(17) Providing and fixing of
M.H. & S.S. board - 2 Nos.

Sunil Kumar
21/10/2020

S.E.

8.12.20

A.E.

Sch. XLV-Form No. 134.

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	ABSTRACT OF COST				
(1) Clearing and grubbing ground (amp.)					
0.40 H.P. wide T.M.B.P. - 1					
					@ 51133 = 76/H.M. - 20454 = v
(2) Dismantling of existing structure like cupress cement concrete.					
1.41 H.P. 3 wide T.M.B.P. - 1					
					@ 5.484 = 74/H ³ - 683 = v
(3) Dismantling of existing structure like cupress cement mortar					
40.60 H ³ wide T.M.B.P. - 1					

$$@ 231277/H^3 \sim 9410 = v$$

- (4) Removing all types of
Hyam pipe.

(a) wide T.M.B.P. - 2

(i) up to 600 mm

$$17.50 H @ 174 = 78/H \sim 3059 = v$$

(ii) Above 600 to 900 mm

$$5.50 H @$$

- (5) Providing an layout

A.C.C. pipe of 300 mm

20.00 H wide T.M.B.P. - 2

$$@ 897 = 74/H \sim 17955 = v$$

- (6) L.F.W. & excavation for
found² of structure

31.32 H³ wide T.M.B.P. - 2

Continuation

$$@ 269 = 34/H^3 \sim 8435 = v$$

$$N. 59996 = v$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				13.44	59996 = v
(7) Providing p.c.s. 15-15					
in open formation					
5.69 m ³ vide TMBP-2					
@ 4961 = 94/m ³					28233 = v
(8) Providing p.c.s. 15-20					
in sub-structure					
30.34 m ³ vide TMBP-2					
@ 5749263/m ³					174444 = v
(9) Providing and laying					
R.C.C. HP 4-Pipe of 600 mm dia					
15.50 m vide TMBP-2					
@ 1018 = 70/m					15281 = v
(10) Excavation for roadway					
in S.F. (Box cuttings)					
42.38 m ³ vide TMBP-3					
@ 74 = 16/m ³					3143 = v
(11) Excavated material					
from box cuttings					
25.43 m ³ vide TMBP-3					
@ 26211/m ³					664 = v
(12) Construction of subgrade					
and earthwork skippers.					
vide TMBP-3					
(i) Layer up to 1500 mm					
144.14 m ³ @ 176258/m ³					25452 = v
(ii) Layer up to 100 mm					
336.31 m ³ @ 141217/m ³					47477 = v
(13) Construction of G.S.B.					
222.03 m ³ vide TMBP-3					
Continuation					
@ 2614 = 36/m ³					580466 = v
					935156 = v

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
				B.F. 935/56 = v
(14) Provisionary land with Gr III				
164.95 m ² wide TRBP - 4				
				at 3730 = 43/52 ~ 615334 = v
(15) Construction of cement concrete pavement 12.30				
174.42 m ² wide TRBP - 4				
				at 6256 = 73/53 ~ 1091299 = v
(16) Construction of embankment road with masonry wide TRBP - 4 to 5				
(i) For 1000 m long				
480.26 m ³ at 174 = 94/53 ~ 84017 = v				

(ii) For 1000 m long

$$788.58 \text{ m}^3 \text{ at } 181 = 03/52 \sim 103328 = v$$

(17) Provisionary strip of
masonry dig work

2 Nos. wide TRBP - 5

$$\text{at } 9289 = 68/c \sim 18579 = v$$

$$R. 2847713 = v$$

$$\text{Add } 12\% \text{ GST} \sim 341726 = v$$

$$1\% \text{ L.C.} \sim 28477 = v$$

$$R. 3217916 = v$$

$$\text{Less } 10\% \text{ (As per G.O.)} \sim 321792 = v$$

$$\{ 2896124 = v$$

S. V. K. Kumar

21/10/2020

D.E.

8.12.20

A.B.

C.B.P.

Continuation