

Chiljanga to Baski Poraita - 1991/92

Schedule XIV - 1991/92

1000 to 1000

BIHAR P.W.D.

E.E. R.W.D. Furrangabad. DIVISION

A.E. Kumbha. SUB-DIVISION

MASSORHAT BOAR.

[2727]

Agency - Rima Singh

Certified That This M.B. Contain (100)
Pages By Printers Matchine And Issued
To Sri.....Beabehn Ram.....A.E- R.W.D
Work Sub-Div.....Kutumba.....

Yes
10/7/20
Executive Engineer
Rural Works Department
Works Division Aurangabad
10/7/20

Schedule XLV - Form No. 134.

E.E. Achod Division.

A.E. Kutumba Sub-Division.

MEASUREMENT BOOK.

2727

211650

Sri Beabehn Ram A.E. Kutumba

Date of Survey

Use of this book

निर्माण मन्त्रालय, गव. ।

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.	
	1st on A/c bill				
N/w.	construction of road from chikhyawa to Barki padariya				
Agency.	Smt Rina Singh.				
Agreement No.					
date of work start.					
date of completion.					
Date of entry.					
	Measurement.				
	① clearing and grubbing				
	road land.				

					$2 \times 20 \times 30 \times 3.50 = 4200.00 \text{ m}^3$
					$2 \times 7 \times 30 \times 3.50 = 1470.00 \text{ m}^3$
					5670.00 m^3
					$= 0.57 \text{ Hec.}$
② Dismantling of existing					
structure like cement concrete.					
					$4 \times 5.31 \times 1.13 \times 0.10 = 2.40 \text{ m}^3$
③ Dismantling of existing					
structure like cement mortar.					
					$4 \times 2 \times 3.60 \times 0.70 \times 3.10 = 62.41 \text{ m}^3$
					$4 \times 2 \times 3.60 \times 0.40 \times 0.60 = 6.91 \text{ m}^3$
					69.32 m^3
④ removing lime pipes					
up to 600 mm.					

Continuation

$$4 \times 3 \times 2.50 = 30.00 \text{ m}^3$$

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

⑤ E.C.C. in excavation for
found., of structure.

600 mm.

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

$$\text{Below pipe} - 4 \times 1 \times 5.25 \times 1.12 \times 0.365 = 8.82 \text{ m}^3$$

1000 mm.

$$H.W. 1 \times 2 \times 6.45 \times 1.40 \times 1.50 = 27.09 \text{ m}^3$$

$$\text{Below pipe} - 1 \times 1 \times 4.85 \times 1.53 \times 0.365 = 2.71 \text{ m}^3$$

$$\underline{92.44 \text{ m}^3}$$

⑥ Providing R.C.C. 15
in open foundation.

600 mm.

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

$$\text{Below pipe} - 4 \times 1 \times 5.311 \times 1.13 \times 0.25 = 6.00 \text{ m}^3$$

1000 mm.

$$H.W. 1 \times 2 \times 6.45 \times 1.40 \times 0.15 = 2.71 \text{ m}^3$$

$$\text{Below pipe} - 1 \times 1 \times 4.931 \times 1.53 \times 0.25 = 1.89 \text{ m}^3$$

$$\underline{15.98 \text{ m}^3}$$

⑦ Providing R.C.C. 20
in sub-structure.

600 mm.

$$H.W. 4 \times 2 \times 3.60 \times \frac{1.00 + 0.40}{2} \times 2.70 = 56.04 \text{ m}^3$$

$$\text{Parapet} - 4 \times 2 \times 3.60 \times 0.40 \times 0.60 = 6.91 \text{ m}^3$$

$$\text{Less pipe} - 4 \times 2 \times 0.7857 \times (0.83)^2 \times 0.53 = (-) 2.29 \text{ m}^3$$

1000 mm.

$$H.W. 1 \times 2 \times 6.15 \times \frac{1.25 + 0.40}{2} \times 3.18 = 32.27 \text{ m}^3$$

$$\text{Parapet} - 1 \times 2 \times 6.15 \times 0.40 \times 0.60 = 2.95 \text{ m}^3$$

$$\text{Less pipe} - 1 \times 2 \times 0.7857 \times (1.25)^2 \times 0.622 = (-) 1.48 \text{ m}^3$$

$$\underline{94.40 \text{ m}^3}$$

⑧ Providing and laying

R.C.C. N.P. 4 pipe of 600 mm.

$$4 \times 3 \times 2.50 = 30.00 \text{ m}$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(9) Providing and laying					
R.C.C. pipe of 1000 mm.					
		1	3	2.50	= 7.50 m
(10) Providing and laying					
R.C.C. pipe of 300 mm.					
		2	4	2.50	= 20.00 m
(11) Excavation for roadway					
1:50 (box cutting)					
		2	10	30	$\times 0.375 \times 0.10 = 22.50 \text{ m}^3$
		2	1	10	$\times 0.375 \times 0.10 = 0.75 \text{ m}^3$
		2	16	30	$\times 0.525 \times 0.10 = 20.90 \text{ m}^3$
		2	1	20	$\times 0.525 \times 0.10 = 2.10 \text{ m}^3$
					<u>75.75 m³</u>
(12) Excavated material					
from box cutting.					
					$75.75 \times 60/100 = 45.45 \text{ m}^3$

(13) Construction of embank.					
max. with machine					
4% compaction.					
Chainage	Pill Area	Mean Area	Dist.	Fill volume.	
0	1.387	-	-	-	
50	1.190	1.289	50	64.425	
100	1.369	1.280	50	63.975	
150	1.553	1.461	50	73.050	
200	3.405	2.479	50	123.950	
250	3.243	3.324	50	166.200	
300	2.207	3.225	50	161.250	
350	2.385	2.796	50	139.800	
400	1.887	2.136	50	106.800	
450	2.417	2.152	50	107.600	
500	4.257	3.337	50	166.850	
550	5.684	4.971	50	248.525	

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Chainage	Fill Area	Meas Area	Dist.		Fill volume.
550	5.684	—	—	—	—
600	2.085	2.805	50		194.225
650	3.051	2.528	50		128.400
700	1.695	2.273	50		118.400
750	1.821	1.758	50		87.900
800	1.204	1.513	50		75.645
810	1.791	1.798	10		14.975
			Total		2042.20 m ³
	(i) For 1000 m level 43% =				959.83 m ³
	(ii) For 1000 m level 53% =				1082.37 m ³
(14)	Construction of				
	G.S.B.				
	$2 \times 16 \times 30 \times 0.525 \times 0.10 = 50.40 \text{ m}^3$				
	$2 \times 1 \times 20 \times 0.525 \times 0.10 = 2.10 \text{ m}^3$				
	$1 \times 16 \times 30 \times 4.05 \times 0.10 = 194.40 \text{ m}^3$				
	$1 \times 1 \times 20 \times 4.05 \times 0.10 = 8.10 \text{ m}^3$				
	$2 \times 10 \times 30 \times 0.375 \times 0.10 = 22.50 \text{ m}^3$				
	$2 \times 1 \times 10 \times 0.375 \times 0.10 = 0.75 \text{ m}^3$				
	Profile correction.				
	$5 \times 1.95 \times 1.80 \times 0.15 = 2.63 \text{ m}^3$				
	$3 \times 2.15 \times 1.90 \times 0.15 = 1.87 \text{ m}^3$				
	$7 \times 2.60 \times 1.75 \times 0.15 = 4.78 \text{ m}^3$				
	$9 \times 2.85 \times 2.05 \times 0.15 = 7.89 \text{ m}^3$				
	$8 \times 2.29 \times 1.95 \times 0.15 = 5.36 \text{ m}^3$				
	$4 \times 2.10 \times 1.86 \times 0.15 = 2.34 \text{ m}^3$				
	$7 \times 2.45 \times 1.93 \times 0.15 = 4.96 \text{ m}^3$				
	$5 \times 2.13 \times 1.81 \times 0.15 = 2.89 \text{ m}^3$				
	$6 \times 2.39 \times 1.75 \times 0.15 = 3.76 \text{ m}^3$				
					314.70 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				12 F. 3.	45105 = 4
(4) Removing lamp pike 3					
up to 600 mm.					
30.00 m	1	150	775	1	
				CR. 169 = 12 F. 3	5074 = 4
(5) Excavation of					
foundry structure					
92.44 m ³	2	150	775	2	
				CR. 260 = 59 F. 3	24089 = 4
(6) Providing p.c.c. 4-15					
in open foundation.					
15.98 m ³	2	150	775	2	
				CR. 5221 = 23 F. 3	83435 = 4
(7) Providing p.c.c. 4-20					
in substructure					
94.40 m ³	2	150	775	2	
				CR. 6066 = 75 F. 3	572701 = 4
(8) Providing and laying					
R.C.C. 4. pike of 600 mm.					
30.00 m	2	150	775	2	
				CR. 1032 = 76 F. 3	30983 = 4
(9) Providing and laying					
R.C.C. 4. pike of 1000 mm.					
7.50 m	3	150	775	3	
				CR. 3792 = 06 F. 3	28440 = 4
(10) Providing and laying					
R.C.C. pike of 300 mm.					
20 m	3	150	775	3	
				CR. 902 = 51 F. 3	18050 = 4
(11) Excavation of roadway					
in soil (Box cutting)					
75.75 m ³	3	150	775	3	
				CR. 74 = 10 F. 3	5613 = 4
					813590 = 4

Continuation.

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.A.	813590 = 4
(12) Excavated materials from box cutting					
45.45 m^3 vide TASP-3					
					OR. 26 = 06 / m^3 - 2 1184 = 0
(13) Construction of embankment with material.					
vide TASP-3 to 4					
(i) For 1000 m^3 load					
959.83 m^3					OR. 174 = 83 / m^3 - 2 167807 = 4
(ii) For 100 m^3 load					
1082.37 m^3					OR. 130 = 86 / m^3 - 2 141639 = 4
(14) Construction of G.S.B.					
314.70 m^3 vide TASP-4					
					OR. 2684 = 23 / m^3 - 2 844727 = 4
(15) Providing any work with grading					
227.82 m^3 vide TASP-5					
					OR. 2814 = 55 / m^3 - 2
					OR. 3817 = 25 / m^3 - 2 869646 = 4
					R. 2838593 = 4
<i>[Signature]</i> 10/3/21 J. B. Kuttanbeki <i>[Signature]</i> 11.3.21 A.E.					
C.B.P. <i>[Signature]</i> 12/3/21					

Continuation