

Smt - Rima Singh

Bojhi to Amarpur - K.N.S. 14.54
Scholar XLY - Tona 13.15

10.10.1954

BIHAR P.W.D.

E.E. R. W. D. WORK Arranged Division

A.E. Kuthumba. and Division

MEASUREMENT 1000

Sub No / 2655

Certified That This M.B. Contain (100)
Pages By Printers Machine And Issued
To Sri..... Baban Nam A.E- R.W.D
Work Sub-Div..... Kulumba.....

[Signature]
Executive Engineer
Rural Works Department
Works Division, Adangaba
[Signature]
10/7/2022

Schedule KLV - Form No. 134.

E.E. A. ba DIVISION.

A.E. Kulumba DIVISION.

MEASUREMENT BOOK.

211342

m.b No 2655

Date of the entry

Use of the entry

निहा. गवर्नर के. गवा ।

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

$2 \times 26 \times 30 \times 3.5 = 5460.00 \text{ m}^3$
 $2 \times 25 \times 30 \times 3.5 = 5250.00 \text{ m}^3$
 $\underline{10710.00 \text{ m}^3}$
 $= 1.07 \text{ Dec.}$

(2) Disassembly of existing
 structure like concrete
 cement concrete.

$2 \times 5.30 \times 0.90 \times 0.15 = 1.41 \text{ m}^3$

(3) Disassembly of existing
 structure like concrete.
 Cement mortar.

$3 \times 6.10 \times 0.70 \times 3.05 = 39.07 \text{ m}^3$
 $3 \times 2 \times 6.10 \times 0.40 \times 0.60 = 8.78 \text{ m}^3$
 $\underline{47.85 \text{ m}^3}$

(4) Removing all types of
 Hydrant pipe.

Scanned with CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(i) Up to 600 mm					
		3	2.50		7.50 m.
(ii) Above 600 to 900 mm					
		2	2.50		5.00 m.
(5) E/F C excavation for foundation of structure					
600 mm					
H.W. 4 x 2 x 3.90 x 1.15 x 1.50 = 53.82 m ³					
Below pipe. 4 x 1 x 5.35 x 1.13 x 0.365 = 8.83 m ³					
1000 mm					
H.W. 2 x 1 x 6.45 x 1.40 x 1.50 = 27.09 m ³					
Below pipe. 1 x 1 x 4.85 x 1.53 x 0.365 = 2.71 m ³					
					92.45 m ³
(6) Providing p.c.c. 1:1:5 in open foundation					

600 mm					
H.W. 4 x 2 x 3.90 x 1.15 x 0.15 = 5.38 m ³					
Below pipe. 4 x 1 x 5.31 x 1.13 x 0.25 = 6.00 m ³					
1000 mm					
H.W. 1 x 2 x 6.45 x 1.40 x 0.15 = 2.71 m ³					
Below pipe. 1 x 1 x 4.93 x 1.53 x 0.25 = 1.89 m ³					
					15.98 m ³

(7) Providing p.c.c. 1:2:20 in substructure

600 mm					
H.W. 4 x 2 x 3.60 x $\frac{1.50 + 0.40}{2}$ x 2.78 = 56.04 m ³					
parapet. 4 x 2 x 3.60 x 0.40 x 0.60 = 6.91 m ³					
Less pipe. 4 x 2 x 0.7857 x (0.83) ² x 0.53 = (-) 2.29 m ³					
1000 mm					
H.W. 4 x 2 x 6.15 x $\frac{1.25 + 0.40}{2}$ x 3.18 = 32.27 m ³					
parapet. 4 x 2 x 6.15 x 0.40 x 0.60 = 2.95 m ³					

Continuation 2

Less pipe. 1 x 2 x 0.7857 x (1.25) ² x 0.622 = (-) 1.47 m ³					
					94.41 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(8) Providing and laying R.C.C.					
NP ₃ h.p. pipe of 600 mm φ.					
		4	3	2.50	= 30.00 m ³
(9) Providing and laying R.C.C.					
NP ₃ h.p. pipe of 1000 mm φ.					
		1	3	2.50	= 7.50 m ³
(10) Providing and laying					
R.C.C. pipe of 300 mm φ.					
		3	4	2.50	= 30.00 m ³
(11) Excavation for roadway					
1:1 (50% cutting)					
		2	14	30	0.375 × 0.10 = 31.50 m ³
		2	1	10	0.375 × 0.10 = 0.75 m ³
					<u>32.25 m³</u>
(12) Excavated material					
from box cutting.					
					32.25 × 60/100 = 19.35 m ³
(13) Construction of embankment.					
with material					
of calculation.					
Chainage.	Pill Area	Mean Area	Dist.	Pill Volume	
0	1.633	—	—	—	
50	1.504	1.569	50	78.425	
100	1.772	1.638	50	81.900	
150	1.982	1.877	50	93.850	
200	1.830	1.906	50	95.300	
250	3.925	2.878	50	143.875	
300	1.900	2.913	50	145.625	
350	2.812	2.356	50	117.800	

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
chainage	Fill	Area	Mean Area	Dist.	Fill volume
350	2.812	-	-	-	-
400	1.684	2.248	50	112.400	
450	2.160	1.922	50	96.100	
500	2.117	2.139	50	106.925	
550	2.144	2.131	50	106.525	
600	1.944	2.024	50	101.200	
650	1.884	1.894	50	94.700	
700	2.165	2.025	50	101.225	
750	1.620	1.823	50	94.625	
800	1.726	1.673	50	83.650	
850	1.783	1.755	50	87.725	
900	1.602	1.693	50	84.625	
950	1.621	1.612	50	80.575	
1000	1.524	1.573	50	78.625	
1050	1.614	1.569	50	78.450	
1100	2.620	2.622	50	131.100	
1150	1.503	2.557	50	128.325	
1200	1.676	1.590	50	79.475	
1250	1.722	1.699	50	84.950	
1300	1.817	1.770	50	88.475	
1350	1.928	1.873	50	93.625	
1400	2.398	2.213	50	110.650	
1450	2.843	2.671	50	133.525	
1500	2.720	2.782	50	139.075	
1530	2.675	2.698	30	80.925	
				3134.25 m ³	
(i) For 1000 m Gap 46% = 1441.76 m ³					
(ii) For 100 m Gap 2% = 94.03 m ³					

Continuation

Sch. XLV-Form No. 134 6

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST</u>					
① Clearing any grass & road land.					
1.07 Hec. vide TMS P- 1					
@ Rs. 51133 = 76/Hec. = 54713 = ✓					
② Dismantling of existing structure like Culvert					
Cement concrete.					
1.41 m ³ vide TMS P- 1					
@ Rs. 484 = 79/m ³ = 683 = ✓					
③ Dismantling of existing structure like Culvert					
Cement mortar.					
47.85 m ³ vide TMS P- 1					

@ Rs. 231 = 77/m ³ = 11090 = ✓					
④ Removal all types of house pipe.					
vide TMS P- 2					
(i) Up to 600 mm.					
7.50 m @ Rs. 174 = 78/m = 1311 = ✓					
(ii) Above 600 to 900 mm					
5.00 m @ Rs. 236 = 34/m = 1182 = ✓					
⑤ E/W in excavations for front of structure					
92.45 m ³ vide TMS P- 2					
@ Rs. 269 = 32/m ³ = 24899 = ✓					
⑥ Providing P.C.C. 1:1:5					
in open front.					
15.98 m ³ vide TMS P- 2					

Continuation

$$\text{@ Rs. } 5068 = 24/m^3 = 80959 = \checkmark$$

$$\{ 174837 = \checkmark$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F. & A.		174837 = v
(7) Providing p.c.c. 1:2:4					
in substructure.					
94.41 m ³		vide TMS P. 2			
		@ Rs. 5861 = 42/5			553377 = v
(8) Providing an layer of R.C.C.					
N.P. 14 pipe of 600 mm dia.					
30.00 m		vide TMS P. 3			
		@ Rs. 1035 = 82/5			31075 = v
(9) Providing an layer of R.C.C.					
N.P. 14 pipe of 1000 mm dia.					
7.50 m		vide TMS P. 3			
		@ Rs. 3800 = 31/5			28502 = v
(10) Providing an layer of R.C.C.					
R.C.C. pipe of 300 mm dia.					
30.00 m		vide TMS P. 3			
		@ Rs. 904 = 82/5			27145 = v
(11) Excavation for road way					
in soil (Box cutting)					
32.25 m ³		vide TMS P. 3			
		@ Rs. 74216/5			2392 = v
(12) Excavated material					
from box cutting					
19.35 m ³		vide TMS P. 3			
		@ Rs. 26211/5			505 = v
(13) Construction of embankment					
with bit material					
vide TMS P. 3 to 4					
(i) For 1000 m long					
1441.76 m ³		@ Rs. 174294/5			252221 = v

Continuation

(ii) For 100 m long
 94.03 m³ @ Rs. 131203/5 = 12321 = v
 Rs. 1082375 = v

