

Agency - Nirmala Devi

Sanctioned to Sanjiban Bhunia Biju

Serial XLV-Form No 134

19.11.54

for the year

BIHAR P.W.D.

E.E. Road. Works & Transport Division

Assistant Engineer Road. & B. Division

W.P. (Sub-Div. Kufambha)

MEMORANDUM FOR

110/2560

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					
Saraihar road to Saraihar					
Bigha Bhuja Bigha.					
Agency - Smt. Nirmala Devi					
Agreement no - 04 (S.B.)/2020-21					
Date of Work start - 08/06/2020					
Date of completion - 07/03/2021					
Date of entry -					
Measurement.					

① clearing and grubbing					
road 10m.					
	2	27	30	3.50	$= 5670.00 \text{ m}^2$
					$= 0.57 \text{ Hec.}$
② Excavation for roadway					
1/2 m (5m x cutting)					
	2	6	30	0.375×0.10	$= 13.50 \text{ m}^3$
	2	1	20	0.375×0.10	$= 1.50 \text{ m}^3$
	2	3	30	0.575×0.175	$= 11.81 \text{ m}^3$
	2	1	10	0.375×0.175	$= 1.31 \text{ m}^3$
					28.12 m^3
③ Const. of embankment					
like app. material deposited					
from roadway.					
	28.12			$\frac{60}{100}$	$= 16.87 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(4) E/W i excavation for found ⁿ of structure					
H.W. 3x 2x 3.90x 1.15x 1.50 = 40.36 m ³					
Below pipe. 3x 1x 5.35x 1.13x 0.365 = 6.62 m ³					
					46.98 m ³
(5) Providing P.C.C. 1-15 in open foundation					
3x 2x 3.90x 1.15x 0.15 = 4.04 m ³					
3x 1x 5.31x 1.13x 0.25 = 4.50 m ³					
					8.54 m ³
(6) Providing P.C.C. 1-20 in substructure					
3x2x 3.60x $\frac{1.00+0.40}{2}$ x 2.78 = 42.03 m ³					
3x2x 3.60x 0.40x 0.60 = 5.18 m ³					
Lias pipe. 3x2x 0.7857x (0.83) x 0.53 = 1.72 m ³					
					48.99 m ³
(7) Providing and laying R.C.C. 1:1:3 4 pipe of 600 mm φ.					
3x 3x 2.50 = 22.50 m					
(8) Providing and laying R.C.C. pipe of 300 mm φ.					
3x 4x 2.50 = 30.00 m					
(9) Construction of embankment with protection obtained from borrow pits.					
Chainage.	Fill Area	Mean Area	Dist.	Fill volume.	
0	0.107	-	-	-	
50	0.295	0.201	50	10.050	
100	0.170	0.233	50	11.625	

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
chainage.	Fill Area	Mean Area	Dist.	Fill Volume	
100	0.170	—	—	—	
150	0.341	0.257	50	12.775	
200	0.170	0.256	50	12.775	
250	0.650	0.410	50	20.500	
300	0.416	0.532	50	26.650	
350	1.322	0.869	50	43.450	
400	1.216	1.269	50	62.450	
450	1.403	1.310	50	65.475	
500	1.113	1.258	50	62.900	
550	1.475	1.295	50	69.700	
600	1.078	1.277	50	63.825	
650	1.289	1.144	50	57.175	
700	1.106	1.158	50	57.875	
750	0.870	0.988	50	49.400	
800	0.902	0.886	50	44.300	
810	1.080	0.991	10	9.910	
		Total		676.84 m ³	

(i) For 1000 m length $\therefore = 507.63 \text{ m}^3$

(ii) For 100 m length $\therefore = 169.21 \text{ m}^3$

(10) Construction of subgrade

and earth on shoulders.

8 x 30 x	$\frac{6.83+7.72}{2}$	x 0.30 =	523.80 m ³
1 x 10 x	$\frac{6.83+7.72}{2}$	x 0.30 =	21.83 m ³
			545.63 m ³

(11) Construction of

G.S.B.

8 x 30 x	4.05	x 0.20 =	194.40 m ³
1 x 10 x	4.05	x 0.20 =	8.10 m ³
2 x 10 x	30 x 0.375	x 0.10 =	22.50 m ³

Profile correction Continuation

$5 \times 2.95 \times 1.90 \times 0.15 = 4.24 \text{ m}^3$
 $4 \times 2.80 \times 1.70 \times 0.15 = 2.86 \text{ m}^3$
 $4 \times 1.50 \times 2.15 \times 0.15 = 1.94 \text{ m}^3$
 234.00 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(2) Providing and laying with grading - 11					
8x 30x 3.75x 0.075 =					67.52 m ³
1x 10x 3.75x 0.075 =					2.81 m ³
6x 30x 3.75x 0.075 =					50.63 m ³
1x 20x 3.75x 0.075 =					5.63 m ³
2x 3x 30x 0.375x 0.075 =					5.06 m ³
2x 1x 10x 0.375x 0.075 =					0.58 m ³
<u>Subtotal</u>					<u>132.19 m³</u>

2017/11/20					
3-8					

ABSTRACT OF COST

(1) clearing and grubbing roadway (cont.)					
0.57 Hrs. vide TMS P. 1					
CA 5/133 = 76/Hrs. 29/46 = 0					
(2) Excavation for roadway in soil (Box cutting)					
28.12 m ³ vide TMS P. 1					
CA 74 = 16/m ³ 2 2085 = 0					
(3) Cost of embankment with app. material deposited from roadway					
16.87 m ³ vide TMS P. 1					
CA 26 = 11/m ³ 2 440 = 0					

Continuation 4. 3/671 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.R.	31671 = ✓
(4) E/W in excavation of front of structure					
46.98 m ³ wide top p. 2					
				cf. 269 = 32/m ³	12653 = ✓
(5) Providing p.c.c. in open found.					
8.54 m ³ wide top p. 2					
				cf. 5083 = 62/m ³	43414 = ✓
(6) Providing p.c.c. in substructure.					
45.49 m ³ wide top p. 2					
				cf. 5880 = 05/m ³	267483 = ✓
(7) Providing and laying R.C.C. up to 4.5 m high 60 mm.					
22.50 m ³ wide top p. 2					
				cf. 1038 = 12/m ³	23370 = ✓
(8) Providing and laying R.C.C. pipe of 300 mm.					
30.00 m ³ wide top p. 2					
				cf. 906 = 07/m ³	27180 = ✓
(9) Const. of embankment with material obtained from borrow pits.					
(i) For 100 m long					
507.65 m ³ wide top p. 2 to 3					
				cf. 174294/m ³	88805 = ✓
(ii) For 100 m long					
169.21 m ³ wide top p. 2 to 3					
				cf. 131 = 03/m ³	22172 = ✓

Continuation

5. 516748 = ✓

