

Agency - Sri  Satendra Nayam
Singh

Near Mahat Dhibra to Dhibra

Serial XLV - Form No 134

NIMHSH

For the file

BIHAR P.W.D.

E.E. Road Division Itanagar Division

Assistant Engineer **SUB-DIVISION**

Road. Work. Sub. Div. Kuthumbha

RECEIVED 1608 No-25591

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 cons. bill					
N/W. construction of road					
near Nalgar Dhibar to					
Dhibar.					
Agency - Sri Satyendra Narayan Singh					
Agreement No. - 05 (S.B.S.) 2020-21					
Date of work start - 08/06/2020					
Date of completion - 07/06/2021					
Date of entry -					
Measurement					

① Clearing and grubbing					
road (Area).					
	2x	20x	30x	3.50	= 4200.00 m ²
	2x	1x	10x	3.50	= 70.00 m ²
					4270.00 m ²
					= 0.43 Hec.
② Excavation for roadway					
in soil (Box cutting)					
	2x	13x	30x	0.525x0.10	= 40.95 m ³
	2x	1x	10x	0.525x0.10	= 1.05 m ³
	2x	7x	30x	0.375x0.10	= 15.75 m ³
					57.75 m ³
③ Construction of embankment					
material like oppr. material					
deposited for roadway.					
	57.75	x	60/100	=	34.65 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(4) E/W excavation					
found of structure					
600 mm pf.					
H.W.	1x2	3.90	1.15	1.50	13.48 m ³
Below pipe	1x1	5.35	1.13	0.365	2.21 m ³
1000 mm pf.					
H.W.	2x2	6.45	1.40	1.50	54.18 m ³
Below pipe	2x1	4.85	1.53	0.365	5.42 m ³
					75.26 m ³
(5) Providing P.C.C. 15					
in open foundation					
600 mm pf.					
	1x2	3.90	1.15	0.15	1.35 m ³
	1x1	5.31	1.13	0.25	1.50 m ³
1000 mm pf.					
	2x2	6.45	1.40	0.15	5.42 m ³
	2x1	4.93	1.53	0.25	3.77 m ³
					12.04 m ³
(6) Providing P.C.C. 15-20					
in substructure					
600 mm pf.					
	1x2	3.60	$\frac{1.60+0.90}{2}$	2.78	14.01 m ³
	1x2	3.60	0.40	0.60	1.73 m ³
Less pipe	1x2	0.7857	$(0.83)^2$	0.53	(-) 0.57 m ³
1000 mm pf.					
	2x2	6.15	$\frac{1.25+0.40}{2}$	3.18	64.54 m ³
	2x2	6.15	0.40	0.60	5.90 m ³
Less pipe	2x2	0.7857	$(1.23)^2$	0.62	(-) 2.96 m ³
					82.65 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑦ Providing and laying					
Rec. WP 4 pipe of 600 mm.					
		3 × 2.50	=	7.50 m	
⑧ Providing and laying 4.00					
WP 4 pipe of 1000 mm.					
		2 × 3 × 2.50	=	15.00 m.	
⑨ Constr. of embankment					
with material obtained					
from borrow pits.					
Chainage.	Fill Area	Mean Area	Dist.	Fill volume	
0	1.522	—	—	—	
50	2.039	1.781	50	89.025	
100	2.214	2.127	50	106.325	
150	2.097	2.121	50	106.525	
200	1.883	1.970	50	98.50	
250	2.244	2.069	50	103.425	
300	2.066	2.155	50	107.750	
350	2.246	2.152	50	107.800	
400	3.561	2.903	50	145.175	
450	5.090	4.326	50	216.275	
500	1.123	3.137	50	152.825	
550	0.737	0.960	50	48.000	
600	0.690	0.714	50	35.675	
610	0.830	0.760	10	7.600	
			Total	1328.90 m ³	
(i) For 1000 mm deep 25% =					332.23 m ³
(ii) For 1000 mm deep 75% =					996.67 m ³

Continuation

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Particulars	Details of actual measurement			Contents of area
	No.	1	2	
(10) Containing section of				
G.D.B.				
2x 13x 30x 2.5x 0.10 =				40.95 m ³
2x 1x 10x 0.5x 0.10 =				1.05 m ³
1x 13x 30x 4.0x 0.10 =				157.95 m ³
1x 1x 10x 4.0x 0.10 =				4.05 m ³
2x 7x 30x 0.3x 0.10 =				15.75 m ³
<u>Provisional correction</u>				
6x 2.8x 1.8x 0.15 =				4.91 m ³
4x 3.1x 1.8x 0.15 =				3.36 m ³
5x 2.7x 1.6x 0.15 =				3.40 m ³
6x 2.9x 1.8x 0.15 =				6.33 m ³
5x 2.9x 1.9x 0.15 =				4.20 m ³
4x 2.8x 1.7x 0.15 =				2.86 m ³
4x 1.2x 2.1x 0.15 =				2.39 m ³
				<u>247.20 m³</u>
(11) Provisional correction				
W.B.M. section, (11)				
13x 30x 3.75x 0.075 =				109.69 m ³
1x 10x 3.75x 0.075 =				2.81 m ³
7x 30x 3.75x 0.075 =				59.06 m ³
				<u>171.56 m³</u>
<u>Final correction</u>				
29171.20				
3.8				
				29175.00
				ATE

Continuation

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Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
ABSTRACT OF COST					
(1) Clearing and grubbing road land.					
0.43 Hec. vide TWP. 1					
					at 51133 = 76/4000 21988 = v
(2) Excavation for roadway in soil (Open cutting)					
57.75 m ³ vide TWP. 1					
					at 74216/m ³ - 1,4288 = v
(3) Length of embankment with app. material deposited from roadway.					
34.65 m ³ vide TWP. 1					
					at 26211/m ³ - 905 = v
(4) Etc. excavation for found of structure					
75.26 m ³ vide TWP. 2					
					at 269 = 32/m ³ - 20269 = v
(5) Providing p.c.c. 15-15 in open formation					
12.04 m ³ vide TWP. 2					
					at 5118 = 39/m ³ - 61625 = v
(6) Providing p.c.c. 15-20 in substructure.					
82.65 m ³ vide TWP. 2					
					at 5917 = 33/m ³ - 489067 = v
(7) Providing and laying R.C.C. HP 4-Pip. of 600 mm.					
7.50 m vide TWP. 3					

Continuation
at 1044 = 37/m - 7833 = v
8, 605970 = v

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				E.C.B.	605970 = v
(8) Providing and laying					
R.C.C. NP 4. pipe of 1000 mm.					
15.00 m vide TMS p. 3					
@ 382/257/m					57323 = v
(9) construction of embankment					
with material.					
vide TMS p. 3					
(i) For 1000 m long					
332.23 m ³ @ 174 = 94/5 ³					58120 = v
(ii) For 100 m long					
996.67 m ³ @ 131203/5 ³					130594 = v
(10) construction of					
G.S.B.					

247.20 m ³ vide TMS p. 4					
@ 2743 = 70/5 ³					678243 = v
(11) Providing and laying					
with grouting. III					
171.58 m ³ vide TMS p. 4					
@ 3886 = 70/5 ³					666806 = v
					5 2197056 = v
Add 12% GST					263647 = v
Net i/. Labour cost					21971 = v
					5 2482674 = v
Less 10% (As per agt)					248267 = v
					5 2234407 = v

Sumit Kumar
 28/2/2020
 S.B.
 C.B.P.
 YKSMBh
 29.7.20
 AE
 Confirmation, 7/2020