

KATI HAR-MANI HAR RCD ROAD
NAWABGANJ TO SIMLAPARA

Measurement Book

Schedule XLV-Form No. 134

11/10/20

DIVISION

SUB-DIVISION 319

8/11/20

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Abhijit
Executive Engineer
Rural Works Department
Works Division, Manihari
7/11/20

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.	
Name of Work:- Katihar - Manihari					
RED Road Nawabganj to Simlappar					
Agency:- Department Work					
Year:- FID PART-A (2020)					
Length:- 15.600 Km					

Record measurement					
① SIF Fixing 62mm to 75mm dia bamboo piles					
1 x 21.00m ÷	0.30	=	70	Nos	
1 x 16.40m ÷	0.30	=	55	"	
1 x 15.50m ÷	0.30	=	52	"	
2 x 18.50m ÷	0.30	=	123	"	
1 x 9.60m ÷	0.30	=	32	"	
1 x 7.50m ÷	0.30	=	25	"	
1 x 4.50m ÷	0.30	=	15	"	
1 x 23.00m ÷	0.30	=	76	"	
1 x 22.50m ÷	0.30	=	75	"	
1 x 11.00m ÷	0.30	=	37	"	
1 x 8.50m ÷	0.30	=	28	"	
L = 158.00m		Qty = 588.00 Nos			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	588 Nos		X 3		= 1764.00 No
(2) supplying fitting and fixing bamboo runner					
			length =	158.00m	
		158.00m X 4			= 632.00m
(3) supplying fitting and fixing in position split bamboo woven chachary					
			length =	158.00m	
		158.00m X 2			= 316.00m
(4) supplying of empty cement bag and labour for filling cement bag, sewing and bagging material					
	1 X	1.00m X 1.20m X 0.40m			10.08 m ³
	1 X	16.40m X 1.00m X 0.30			= 4.92 "
	1 X	15.50m X 1.00m X 0.40			= 6.20 "
	2 X	18.50m X 0.70m X 0.50			= 12.95 "
	1 X	9.60m X 1.20m X 0.60			= 6.91 "
	1 X	7.50m X 1.20m X 0.80m			= 7.20 "
	1 X	4.50m X 1.40m X 0.40			= 2.52 "
	1 X	23.00m X 0.70m X 0.50			= 8.05 "
	1 X	22.50m X 1.20m X 0.50			= 13.50 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x	11.00	x 1.60	x 0.20	=	3.52 "
1x	8.50	x 1.40	x 0.45	=	5.36 "
				of 4 =	81.21 m ³
		81.21 m ³	- 0.034	=	2388 Nos

⑤ providing and laying
of brick bats

1x 16.00m x	$\frac{1.60 + 2.20}{2}$ x		
	$\frac{0.30 + 0.65}{2}$	=	14.440m ²
1x 30.00m x	$\frac{2.90 + 3.60 + 3.20}{3}$ x		
	$\frac{1.10 + 1.00}{2}$	=	101.850 "
1x 21.00m x	$\frac{2.50 + 2.00 + 2.10}{3}$ x		
	$\frac{1.00 + 0.90}{2}$	=	43.850 "

1x 13.00m x	$\frac{2.20 + 2.60}{2}$ x		
	$\frac{1.20 + 1.10}{2}$	=	35.880 "
1x 14.60m x	$\frac{2.30 + 2.60}{2}$ x		
	$\frac{2.97 + 2.88}{2}$	=	104.627 "
1x 14.00m x	$\frac{2.10 + 1.90 + 1.85}{3}$ x		
	$\frac{1.10 + 1.00}{2}$	=	28.665 "
1x 16.40m x	$\frac{2.90 + 2.45 + 2.30}{3}$ x		
	$\frac{1.00 + 0.90}{2}$	=	39.729 "
1x 15.50m x	$\frac{2.75 + 3.00}{2}$ x $\frac{1.10 + 0.65}{2}$	=	38.992 "
2x 18.50 x	$\frac{2.10 + 2.10}{2}$ x		
	$\frac{1.20 + 1.00}{2}$	=	85.470 "
1x 15.00m x	$\frac{1.25 + 1.55}{2}$ x $\frac{1.70 + 1.85}{2}$	=	37.275 "
2x 11.00m x	$\frac{1.55 + 1.80}{2}$ x $\frac{1.00 + 0.85}{2}$	=	34.086 "
1x 6.20m x	$\frac{2.55 + 2.85}{2}$ x 0.80	=	13.392 "

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 x 5.50 m x		$\frac{2.60+1.90}{2}$		$\times 0.80 =$	9.9004 ³
1 x 8.60 m x		$\frac{2.60+2.40}{2}$		$\times 0.80 =$	17.2004
1 x 9.60 m x		$\frac{2.65+2.90}{2}$		$\times 0.80 =$	21.312 "
1 x 7.50 m x		$\frac{2.85+2.70}{2}$		$\times \frac{1.00+0.85}{2} =$	19.252 "
1 x 4.50 m x		$\frac{1.50+1.20}{2}$		$\times \frac{0.95+1.56}{2} =$	11.577 "
1 x 23.00 m x		$\frac{2.85+3.30}{2}$		$\times \frac{1.00+0.95}{2} =$	68.957 "
1 x 22.50 m x		$\frac{2.65+3.60}{2}$		$\times \frac{1.00+0.95}{2} =$	68.555 "
1 x 7.50 m x		$\frac{2.95+3.54}{2}$		$\times \frac{1.10+0.60}{2} =$	20.687 "
1 x 6.50 m x		$\frac{2.75+3.45}{2}$		$\times \frac{2.20+1.95}{2} =$	41.811 "
1 x 4.40 m x		$\frac{2.50+3.50}{2}$		$\times \frac{1.20+0.90}{2} =$	13.860 "
2 x 6.25 m x		$\frac{2.95+3.50}{2}$		$\times \frac{1.43+0.85}{2} =$	48.956 "
1 x 4.10 m x		$\frac{1.25+1.55}{2}$		$\times \frac{1.00+1.00}{2} =$	5.740 "

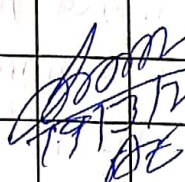
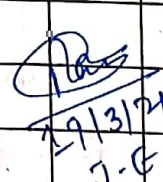
1 x 3.25 m x		$\frac{1.55+1.80}{2}$		$\times \frac{0.80+0.70}{2} =$	4.083 "
1 x 11.00 m x		$\frac{2.50+3.40}{2}$		$\times \frac{1.00+0.90}{2} =$	30.828 "
1 x 8.50 m x		$\frac{2.70+3.60}{2}$		$\times \frac{1.15+1.55}{2} =$	36.146 "

$$\Sigma = 994.16 \text{ m}^3$$

Deduction for (-)

1 x 16.00 m x		$\frac{0.70+0.60}{2}$		$\times \frac{0.25+0.20}{2} =$	2.34 m ³
1 x 30.00 m x		$\frac{1.00+0.90+0.95}{3}$		$\times \frac{0.95+0.85}{2} =$	25.65 "
1 x 21.00 m x		$\frac{1.10+0.95+0.90}{3}$		$\times \frac{0.65+0.80}{2} =$	14.97 "
1 x 16.40 m x		$\frac{1.00+1.10+1.00}{3}$		$\times \frac{0.80+0.95}{2} =$	14.83 "
1 x 15.50 m x		$\frac{1.00+1.10}{2}$		$\times \frac{0.90+0.50}{2} =$	11.39 "
2 x 18.50 m x		$\frac{1.00+1.10}{2}$		$\times \frac{0.70+0.90}{2} =$	31.08 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 3.60m x $\frac{0.60+0.70}{2}$ x $\frac{0.40}{2}$ =					2.50 "
1x 7.50m x $\frac{1.00+0.90}{2}$ x $\frac{1.10+1.35}{2}$ =					8.02 "
1x 4.50m x $\frac{1.00+0.90}{2}$ x $\frac{0.95+0.65}{2}$ =					3.42 "
1x 23.00m x $\frac{1.20+1.00}{2}$ x $\frac{0.90+0.95}{2}$ =					23.40 "
1x 22.50m x $\frac{1.10+1.05}{2}$ x $\frac{0.90+0.95}{2}$ =					22.37 "
2x 18.50m x $\frac{1.10+1.00}{2}$ x $\frac{0.60+0.70}{2}$ =					25.25 "
1x 4.50m x $\frac{0.45+0.35}{2}$ x $\frac{0.25+0.15}{2}$ =					0.36 "
1x 23.00m x $\frac{1.20+1.10}{2}$ x $\frac{1.20+1.00}{2}$ =					29.10 "
1x 22.50m x $\frac{1.10+1.00}{2}$ x $\frac{1.00+0.95}{2}$ =					23.03 "
1x 7.50m x $\frac{1.00+1.00}{2}$ x $\frac{0.90+0.80}{2}$ =					6.38 "
1x 6.50m x $\frac{0.80+1.10}{2}$ x $\frac{1.05+0.95}{2}$ =					7.15 "
1x 4.40m x $\frac{1.00+1.10}{2}$ x $\frac{0.90+0.90}{2}$ =					4.16 "
2x 6.25m x $\frac{1.10+1.00}{2}$ x $\frac{0.90+0.85}{2}$ =					11.48 "
1x 4.10m x $\frac{1.25+1.55}{2}$ x $\frac{1.70+1.85}{2}$ =					10.19 "
1x 3.25m x $\frac{1.00+1.20}{2}$ x $\frac{1.50+1.50}{2}$ =					5.36 "
1x 11.00m x $\frac{1.10+1.05}{2}$ x $\frac{0.65+0.45}{2}$ =					6.50 "
1x 8.50m x $\frac{2.00+2.50}{2}$ x $\frac{0.90+0.80}{2}$ =					16.26 "
(i) + (ii) =					305.19m ²
item (i) , P (3) =					81.21m ² (iii)
(i) - (i' + iii) =					994.16m ²
(305.19 + 81.21) =					607.76m ²
 19/3/24 J.E.  19/3/24 J.E.					

Continuation

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
Abstract of cost					
(1) providing and laying of brick bats					
607.76m ²	Qty	vide	P-5/5		
	@ Rs.	1717.3713	-Rs.	1043742.00	
(2) supplying of empty cement bag and labour for filling cement bag					
2388Nos	Qty	vide	P-3/4		
	@ Rs.	32.14/each	-Rs.	76750.00	
(3) supplying 62mm to 75mm dia bamboo piles					
1764.00m	Qty	vide	P-2/1		
	@ Rs.	47.58/each	-Rs.	83931.00	
(4) supplying, fitting and fixing bamboo runner					
632.00m	Qty	vide	P-3/2		
	@ Rs.	24.71/m	-Rs.	15616.00	
(5) supplying, fitting and fixing bamboo in position Splat bamboo woven chachary					
316.00m	Qty	vide	P-3/3		
	@ Rs.	221.69/m	-Rs.	70054.00	
				C.O.	Rs. 1290099.00

Continuation

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