

NH 105 KUSHO YADAV HOUSE TO JINACHH
PUL BALWADHATTA
(F.D.R.)

'Schedule XLV-Form No. 134

21/10/10 11/11/10 12/11/10 13/11/10 DIVISION

21/10/10 11/11/10 12/11/10 13/11/10 SUB-DIVISION

2228

Measurement Book

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	CH Head. MR 3054 ADR.				
	Name of work —				
	Temporary Restoration				
	for Motorability of				
	road damaged by				
	flood from NH				
	105 Kns 0 yadar				
	House to Jirachh				
	PUC Balwadhata				
	for year 2020				
	under MMSY/SU				
	Kalmahi Block				
	Madhubani				
	Length of road —				
	1.625144				
	Agency — Departmental				
	Authority — E.E.R.WD				
	WORKS Divn Madhubani				
	Date of				
	List of works				
	(1) Excavation for road				
	work in soil with				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Hydraulic excavator					
of 0.9 cum bucket					
Capacity including					
Cutting only and as					
per Technical					
Specification Clause					
302-3 with 100mm					
Lead.					
Chaitage 150 to 300m.					
2 X 30 X $\frac{6.15+8.45}{2}$					
$\times 1.15 + 1.35 =$					547.50 m ³
1 X 27 X $\frac{6.25+7}{2}$					
$\times 0.85 + 1.1 =$					174.40 m ³
1 X 24 X $\frac{5.1+6}{2}$ X					
$0.6 + 0.85 =$					96.57 m ³
1 X 18 X $\frac{4+5.3}{2}$ X					
$0.75 + 0.9 =$					69.05 m ³
TOTAL					887.52 m ³
Measurement for					
Bamboo Piling.					
CH 150 TO 200m.					
1 X 35					= 35.00 m
1 X 10					= 10.00 m
1 X 10					10.00 m

Continuation

Co. 55.00 m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		BF.			55.000
		CH 200 TO 300M.			
		1X20	-	-	20 M
		1X8	-	-	8 M
		1X38	-	-	38.0 M
		1X8			8.0 M
		1X20			20.0 M
		total			149 M

For Bamboo Piling

@ 0.600 m c/c

$$149 / 0.60 = 248 \text{ Nos.}$$

$$\text{Length of Pile } 3.5 \text{ M} \times 248 = 868 \text{ M.}$$

$$\text{Driving depth } 2.0 \text{ M} \times 248 = 496 \text{ M.}$$

For Bamboo Runners

$$2 \text{ Run} \times 149 \text{ M} = 298 \text{ M}$$

Total Length of Bamboo

$$868 + 298 = 1166 \text{ Meters.}$$

Nos of Bamboo =

$$1166 \div 6 \text{ M} = 194 \text{ Nos.}$$

Measurement for Sand Bag

from ch. 0.00 TO 150 M.

$$2 \times 9 \times 0.60 \times 0.229 = 2.47 \text{ M}^3$$

$$2 \times 8 \times 0.60 \times 0.30 = 2.88 \text{ M}^3$$

$$\text{C.O.} = 5.35 \text{ M}^3$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F.		5.35M ³
	1X	5X	0.60X0.229		0.687M ³
	1X	30X	0.60X0.40		7.20M ³
	2X	15X	0.60X0.35		6.20M ³
	3X	15X	0.60X0.229		6.183M ³
	From CH 150 TO 200M				
	2X	25X	0.60X0.229		6.87M ³
	2X	15X	0.60X0.29		5.22M ³
	2X	10X	0.60X0.45		5.40M ³
	CH 200 M TO 300M				
	2X	20X	0.60X0.225		5.40M ³
	2X	8X	0.60X0.35		3.36M ³
	1X	4X	0.60X0.35		0.84M ³
	2X	8X	0.60X0.45		4.32M ³
	2X	8X	0.60X0.45		4.32M ³
	1X	30X	0.60X0.30		5.40M ³
	2X	8X	0.60X0.30		2.88M ³
	1X	20X	0.60X0.225		2.70M ³
	CH 1400 TO 1500				
	2X	20X	0.60X0.33		8.40M ³
	TOTAL				80.83M ³
Nos of Sand Bag =					
	80.83/0.034M ³				
	= 2377 Nos.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Measurement for restoration of Embarment & Shoulders with Back Bat.					
From CH 0.00 TO 150M					
	1X	9X	$\frac{0.6+0.75}{2}$	$\times 0.60$	$= 3.65 \text{ m}^3$
	1X	8X	$\frac{0.3+0.45}{2}$	$\times 0.75$	$= 2.25 \text{ m}^3$
	1X	5X	$\frac{0.6+0.7}{2}$	$\times 0.70$	$= 2.28 \text{ m}^3$
	1X	30X	$\frac{0.6+0.75}{2}$	$\times 0.60$	$= 12.15 \text{ m}^3$

From ch 150 TO 300M.					
	1X	7X	$\frac{4+5.5}{2}$	$\times 1.0$	32.20 m^3
	1X	15X	$\frac{4+5.25}{2}$	$\times 1.05$	$= 72.84 \text{ m}^3$
	1X	35X	$\frac{2.5+3.15}{2}$		
			$\times \frac{0.225+1.40+0.20}{3}$		$= 63.48 \text{ m}^3$
	2X	15X	$\frac{0.6+0.85}{2}$		
			$\times 1.00$	(av)	$= 21.75 \text{ m}^3$
	1X	10X	$\frac{1.6+2.2}{2}$		
			$\times 1.20$	(av)	22.80 m^3
	1X	10X	$\frac{1.4+1.9}{2}$		
			$\times 0.90$	(av)	$= 14.85 \text{ m}^3$
	1X	10X	$\frac{3+3.35}{2}$		
			$\times 0.60$	(av)	19.05 m^3
			C.O.		267.30 m^3

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F.			267.30 M ³
	1X	10	$\frac{1.4+1.55}{2}$	$\times 0.90$	13.28 M ³
	1X	11	$\frac{1.45+1.6}{2}$	$\times 0.90$	15.10 M ³
	1X	9.50	$\frac{1.4+1.65}{2}$	$\times 0.90$	13.04 M ³
	1X	10	$\frac{1.65+1.80}{2}$	$\times 0.90$	15.53 M ³
	1X	10.50	$\frac{1.4+1.6}{2}$	$\times 0.90$	14.18 M ³
	1X	6	$\frac{1+1.25}{2}$	$\times 0.60$	4.05 M ³

	1X	20	$\frac{1+1.3}{2}$	$\times 0.60$	13.80 M ³
	2X	8.0	$\frac{0.6+0.7}{2}$	$\times 0.60$	6.24 M ³
	1X	38	$\frac{5.4+5.9}{2}$	$\times 0.45+0.65$	
			$\frac{10.30}{3}$		100.197 M ³
	1X	30	$\frac{4+4.7}{2}$	$\times 0.45$	58.73 M ³
	1X	25	$\frac{4+4.5}{2}$	$\times 0.40$	42.50 M ³
	TOTAL				563.947 M ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF Rs 143808=
					bats and labour
					all complete job
					on per specification
					@ direction of 619.
					Sky side T.M.B
					Page - 6.
					563.947 M ³
					CB 1867.76/M ³ 1053318
					TOTAL Rs 1197121= ^w
					Add 12% GST Rs 143655= ^w
					Add 1% Labourless 11971= ^w
					Add. S.Fa 5.69%. 66184= ^w
					G-TOTAL Rs 1416931= ^w
					(Rupees Fourteen Lac
					Sixteen thousand nine
					Hundred & Thirty one) only.
					From
					25.01.21
					J.E.
					Qualin
					AG, Kalanji