

F.D.R-2020-2021 MB No

MBND-1396

Schedule XLV-Form No. 134

2/15/2021 - 1st of 2nd anniversary

491st 4th of 2nd

DIVISION

SUB-DIVISION

Measurement Book

491st

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Executive Engineer
 RWD Works Division
 16/8/2020

Sch. XLV-Form No. 134

DIVISION

SUB-DIVISION

Measurement Book

No. 1396

Time of Officer

Date of first entry

Date of last entry

1.

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:-	Restoration of road				
	from Nirmali to Hariyahi				
	Via Jaxauli				
	(FDR 2020-21)				
Agency:-	Departmental				
Authority:-	E.E, RWD, works Division,				
	Supaul.				
Date of measurement:-	01.09.2020				
1. Laying Brick Bat in					
Damage Portion.					
Ch. 100m					
1 X 8m X 2m X 0.5m					8.000 m ³
1 X 54m X 8.53 $\frac{11.1+6.6+7.8}{3}$ m X $\frac{11.1+1.8+2.5}{3}$ m					
					= 829.408 m ³
Deduct qty 7 X 3m X 2.5m X 1.2m					= 69.346 m ³
Ch. 265m					
1 X 2.5m X 1.2m X 0.4m					= 1.200 m ³
1 X 3.2m X 3m X 0.2m					= 1.920 m ³
1 X 17m X 4m X 0.2m					= 13.600 m ³
1 X 21m X 4.5m X 0.3m					= 28.350 m ³
Ch. 400m					
1 X 4.5m X 4m X 0.15m					= 2.700 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch. 500m					
		1 X 10.5m	X 1.5m	X 0.15m =	2.363 m ³
Ch. 700m					
		1 X 6m	X 6m	X 0.2m =	7.200 m ³
Ch. 2.200m					
		1 X 18m X $\left(\frac{3+2}{2}\right)$ m X $\left(\frac{1.2+1.8+1.5}{3}\right)$ =			67.500 m ³
		1 X 2.5m	X 1.5m	X 0.6m =	2.250 m ³
		1 X 10m	X 6.7m	X 2.1m 2	140.700 m ³
		1 X 44m	X 5m	X 0.5m 2	110.000 m ³
Deduct qty		5 X 3m	X 2.5m	X 1.2m =	(-) 42.300 m ³
Ch. 2400m					
		1 X 23m	X 1m	X 0.2m =	4.600 m ³
		1 X 4m	X 3m	X 0.2m =	2.400 m ³
Ch. 2480m					
		1 X 30m	X 3m	X 0.2m =	18.000 m ³
Ch. 3500m					
		1 X 9.2m	X 6m	X 1.5m =	82.800 m ³
		1 X 11m	X 5m	X 1.5m =	82.500 m ³
Ch. 3609m					
		1 X 10m	X 4m	X 0.15m =	6.000 m ³
		1 X 2m	X 1m	X 0.15m =	0.300 m ³
		1 X 1m	X 0.5m	X 0.15m =	0.075 m ³
		1 X 7m	X 4m	X 0.15m =	4.200 m ³
		1 X 2m	X 1m	X 0.15m =	0.300 m ³
Ch. 3800m					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$1 \times 9 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 5.400 \text{ m}^3$
Ch. 4100m					
					$1 \times 5 \text{ m} \times 2 \text{ m} \times 0.2 \text{ m} = 2.000 \text{ m}^3$
Ch. 5100m					
					$1 \times 9 \text{ m} \times 1.5 \text{ m} \times 0.2 \text{ m} = 2.700 \text{ m}^3$
					$1 \times 5 \text{ m} \times 2.9 \text{ m} \times 0.2 \text{ m} = 2.900 \text{ m}^3$
					$1 \times 3.5 \text{ m} \times 0.9 \text{ m} \times 0.2 \text{ m} = 0.630 \text{ m}^3$
					$1 \times 10 \text{ m} \times 2.6 \text{ m} \times 0.2 \text{ m} = 5.200 \text{ m}^3$
					$1 \times 4 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 2.400 \text{ m}^3$
					$1 \times 3 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 1.800 \text{ m}^3$
					$1 \times 14 \text{ m} \times 2 \text{ m} \times 0.2 \text{ m} = 5.600 \text{ m}^3$
Ch. 5300m					
					$1 \times 30 \text{ m} \times 4.5 \text{ m} \times 0.5 \text{ m} = 67.500 \text{ m}^3$
					$1 \times 30 \text{ m} \times 4 \text{ m} \times 0.5 \text{ m} = 60.000 \text{ m}^3$
					$1 \times 6 \text{ m} \times 1.5 \text{ m} \times 0.2 \text{ m} = 1.800 \text{ m}^3$
Ch. 5400m					
					$1 \times 30 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 18.000 \text{ m}^3$
					$1 \times 3 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 1.800 \text{ m}^3$
Ch. 5700m					
					$1 \times 5 \text{ m} \times 4 \text{ m} \times 0.2 \text{ m} = 4.000 \text{ m}^3$
					$1 \times 20 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 12.000 \text{ m}^3$
					$1 \times 10 \text{ m} \times 3 \text{ m} \times 0.15 \text{ m} = 4.500 \text{ m}^3$
					$1 \times 9 \text{ m} \times 3 \text{ m} \times 0.15 \text{ m} = 4.050 \text{ m}^3$
					$1 \times 30 \text{ m} \times 3 \text{ m} \times 0.3 \text{ m} = 27.000 \text{ m}^3$
					$1 \times 21 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 12.600 \text{ m}^3$
					$1 \times 7 \text{ m} \times 3 \text{ m} \times 0.15 \text{ m} = 3.150 \text{ m}^3$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$1 \times 7.2 \text{ m} \times 3 \text{ m} \times 0.15 \text{ m} = 3.240 \text{ m}^3$
Ch. 6100m					
					$1 \times 30 \text{ m} \times 3 \text{ m} \times 0.2 \text{ m} = 18.000 \text{ m}^3$
					Total = 1580.899 m^3
2. Labour for Cutting 62mm to 75mm					
dia bamboo Piles to size and making					
Shoes and driving etc					
all complete Job.					
Ch. 100m					
	43 Nos	1.25 m		$=$	53.750 m
	42 Nos	1.25 m		$=$	52.500 m
Ch. 2200m	45 Nos	1.25 m		$=$	56.250 m

Total = 162.500m

43

3. Labour for Fitting and fixing Split bamboo woven Chachari in position with 20 Swg G.I wire or 75mm to 100mm long nails alternatively including Cost of G.I wire or nails etc with all complete Job.

Ch. 100m,

 $5 \times 6 \text{ m} \times 2 \text{ m} = 60.00 \text{ m}^2$

Ch.

 $3 \times 6 \text{ m} \times 2 \text{ m} = 36.00 \text{ m}^2$

Ch. 2200m,

for Chachari or $3 \times 6 \text{ m} \times 2 \text{ m} = 36.00 \text{ m}^2$ Total = 132.00 m^2

Continuation

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: Restoration of road from Nimali to Harayahi via Jorauli (Phase-II). (FDR Year - 2020-21)					
Agency - Departmental					
Authority - EE, RWD, work division, Supaul					
Date of measurement: 05.10.2020					
1. Laying brick Bat in Damage Portion.					
Ch. 64 m					
$1 \times 12 \text{ m} \left(\frac{7.4 + 5 + 4.5}{3} \right) \text{ m} \times \left(\frac{1.9 + 4 + 3.1}{3} \right) \text{ m}$					202.680 m ³
Ch. 115 m					
$1 \times 20 \text{ m} \times \left(\frac{2 + 3}{2} \right) \text{ m} \times \left(\frac{0.4 + 0.8}{2} \right) \text{ m}$					30.000 m ³
Ch. 364 m					
$1 \times 30 \text{ m} \times 2.2 \text{ m} \times 0.45 \text{ m}$					28.350 m ³
Ch. 2200 m					
$1 \times 15 \text{ m} \times \left(\frac{1.2 + 1.8}{2} \right) \text{ m} \times 12 \text{ m}$					27.000 m ³
$1 \times 23 \text{ m} \times 4.2 \text{ m} \times \left(\frac{1.2 + 0.9 + 0.6}{3} \right) \text{ m}$					86.940 m ³
$1 \times 4 \text{ m} \times 0.45 \text{ m}$					
$1 \times 1.5 \text{ m} \times 2 \text{ m} \times 1 \text{ m}$					3.000 m ³
Ch. 2400 m					

Continuation

Continuation

ABSTRACT OF COST (FDR - 2020-21)

9

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/2. Providing and laying Brick Bat - - - etc. with all complete job.					
Qty = 1580.8	99 m ³	(vide TMBP - 04)			
469.95	@ Rs. 1864.35/m ³	(vide TMBP - 08)			
2050.858	m ³	@ Rs. 2050.86/m ³ = Rs.			
	@ Rs. 1864.35/m ³ = Rs. 38,23,517 = 00				
2/3. Labour for cutting 62mm to 75mm dia bamboo piles to size and making shoes and driving etc + complete job as per specification.					
Qty = 162.500	M	(vide TMBP - 04)			
	@ Rs. 27.90/M = Rs. 4,534 = 00				
3/4. Labour for fitting and fixing split bamboo woven chachary in - - - etc with all complete job.					
Qty = 132.00	m ²	(vide TMBP - 04)			
	@ Rs. 73.60/m ² = Rs. 9,715 = 00				
4/5. Labour for fitting and fixing 75mm ϕ bamboo runners in position - - - etc with all complete job.					

C/O → 38,37,766 = 00
Continuation

Sch. XLV-Form No. 134 BF = 38,37,766 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. = $\frac{121}{244} \cdot 00 \text{ M}$ (vide TMBP-05)					
@ Rs. 5.0/M = Rs.					1,220 = 00
5/6. Supply of Bamboo at site.					
Qty. = 121.00 Nos. (vide TMBP-05)					
@ Rs. 158.44/Nos. = Rs.					19,171 = 00
6/7. Labour filling empty cement bags with local sand, sticking the bag - - - etc with all complete job.					
Qty. = 11.00 % (vide TMBP-06)					
@ Rs. 3300.20/% = Rs.					36,302 = 00
7/10. Providing and Laying RCC pipe NP3, 1000 mm ϕ .					
Qty. = 52.50 M (vide TMBP-06)					
@ Rs. 3466.20/M = Rs.					1,81,976 = 00
Total = Rs.					40,76,435 = 00
Seigniorage Fees.					= Rs. 2,18,537 = 00
Add @ 12% GST					= Rs. 4,89,172 = 00
Add @ 1% Labour Less					= Rs. 40,764 = 00
Total = Rs.					48,24,908 = 00
For 18/11/18 50 18/11/18 50 18/11/18 50					

Continuation