

F. J. D. - 2021-22

Schedule XLV-Form No. 134

मिनिमोसम ज्वाला

DIVISION

ज्वाला

SUB-DIVISION

M. G. No. 15
21-22

MEASUREMENT BOOK

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
* Ch. Head :-					FDR
Name of Work :-					Restoration
					work on Durgam
					Chowk H.H. 104 to
					Via Singrahi,
					Laukahi Bazar
					Nahar Chowk to
					Bikul River
					H.H. 104
Authority :-					Ex. En RWD
					Phulperas
Agency :-					Departmental
Date of Entry :-					10.05.2022
Item No. of					
Restoration of road					
embankment using					
brick bats - - - etc					
Ch 0.00 to 0.200 km					
$2.50m \times \left(\frac{2 + 3.3 + 2.60 + 2}{4} \right) \times 0.150$					
					= 1.299 m ³
$11.00m \times \left(\frac{3.00 + 3.40 + 3.10}{3} \right) \times 0.150$					
					= 5.21 m ³
$7.00 \times \left(\frac{1 + 3.00 + 3.40 + 3.30}{4} \right) \times 0.150$					
					= 2.88 m ³
$9.00 \times \left(\frac{2 + 2.70 + 3 + 1}{4} \right) \times 0.100$					
					= 1.95 m ³

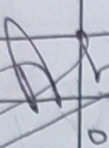
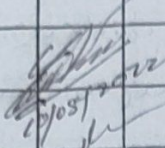
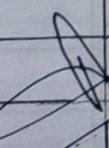
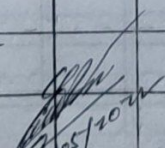
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		2.00 m	$\times 0.60 \text{ m}$	$\times 0.100$	$= 0.12 \text{ m}^3$
		11.20 m	$\times \left(\frac{0.80 + 1.40 + 0.50}{3} \right)$	$\times 0.100$	$= 1.008 \text{ m}^3$
		4.80 m	$\times 0.90$	$\times 0.100$	$= 0.432 \text{ m}^3$
		3.30 m	$\times \left(\frac{1.20 + 1 + 0.80}{3} \right)$	$\times 0.150$	$= 0.61 \text{ m}^3$
		3.00 m	$\times 0.50$	$\times 0.100$	$= 0.15 \text{ m}^3$
		3.00	$\times 0.50$	$\times 0.50$	$\times 0.100 = 0.075 \text{ m}^3$
		$\left(\frac{4.00 + 2}{2} \right)$	$\times \left(\frac{1 + 3.20 + 2.40}{3} \right)$	$\times 0.150$	$= 1.22 \text{ m}^3$
		8.30 m	$\times \left(\frac{2 + 3.5 + 2}{2} \right)$	$\times \frac{0.250}{0.150}$	$= 10.375 \text{ m}^3$
		$\left(\frac{8.00 + 4.00}{2} \right)$	$\times \left(\frac{2.40 + 3.50 + 1.30}{3} \right)$	$\times 0.150$	$= 2.16 \text{ m}^3$
		Change 0.200 to 0.400			
		12.50 m	$\times 1.00 \text{ m}$	$\times 0.150$	$= 1.875 \text{ m}^3$
		5.40 m	$\times 0.60 \text{ m}$	$\times 0.100$	$= 0.324 \text{ m}^3$
		2.30 m	$\times 2.50 \text{ m}$	$\times 0.150$	$= 0.86 \text{ m}^3$
		3.60 m	$\times 0.85 \text{ m}$	$\times 0.100$	$= 0.306 \text{ m}^3$
		11.20 m	$\times 0.60$	$\times 0.100$	$= 0.672 \text{ m}^3$
		7.10 m	$\times 3.70$	$\times 0.100$	$= 2.622 \text{ m}^3$
		6.20	$\times \left(\frac{1.25 + 2.00 + 1}{3} \right)$	$\times 0.100$	$= 1.06 \text{ m}^3$
		7.20	$\times 3.00$	$\times 0.100$	$= 2.16 \text{ m}^3$
		2.70 m	$\times \left(\frac{0.70 + 1.40}{2} \right)$	$\times 0.90$	$= 2.55 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		4.40	0.40	0.075	20.132 m ³
		3.10	1.00	0.100	20.30 m ³
Chaining 0.600 to 0.800					
		2.50m	0.90	0.100	0.225 m ³
		2.30m	2.20m	0.100	0.506 m ³
		1.00	0.20	0.100	0.02 m ³
		1.50m	1.00	0.150	0.225 m ³
		8.60m	$\frac{3+4+2.40}{3}$	0.150	4.04 m ³
		6.30m	$\frac{0.80+2.80+2.70}{3}$	$\frac{0.15+0.10}{2}$	1.653 m ³
		3.30m	$\frac{1.20+2+2.10}{3}$	0.120	0.583 m ³
		6.00m	$\frac{2.40+2.00+1}{3}$	0.150	1.80 m ³
		2.50m	1.90	0.075	0.256 m ³
Chaining 1.00 to 1.100 km					
		3.50m	1.90	0.075	0.40 m ³
		4.20	3.00	0.071	0.78 m ³
		7.20	3.10	0.100	2.232 m ³
Chaining 1.20 km to 1.40 km					
		3.20	2.00	0.100	0.64 m ³
		2.00	3.70	0.150	1.665 m ³
		5.00	3.00	0.150	2.25 m ³
		2.40	1.00	0.500	0.15 m ³
		6.20m	3.00m	0.100	1.86 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		7.30m	2.50	0.15	= 4.15m ³
		7.10	2.50	0.100	= 1.775m ³
		9.20m	2.70	0.100	= 2.484m ³
		5.70	2.40	0.100	= 1.368m ³
		2.50m	2.10	0.100	= 0.525m ³
		2.00m	1.00m	0.10	= 0.200m ³
Change 1.60 to 1.800 km					
		5.10m	2.50m	0.25	= 3.18m ³
		6.50m	1.50	0.20	= 1.95m ³
		3.50m	2.30m	$\frac{0.20+0.25}{2}$	= 1.81m ³
		4.10m	2.90	0.20	= 2.32m ³
		1.50m	1.25	0.15	= 0.28m ³
		7.50m	2.00	$\frac{0.30+0.20+0.20}{3}$	= 6.00m ³
		3.40m	2.50	0.15	= 1.275m ³
Change 2.00 km to 2.20 km					
		4.50m	1.00	0.075	= 0.337m ³
		1.50m	0.30	0.100	= 0.045m ³
		2.50m	1.50m	0.150	= 0.56m ³
		1.80m	1.00m	0.10	= 0.18m ³
		3.00m	1.50m	0.075	= 0.34m ³
		4.00m	1.50m	0.150	= 0.90m ³
		4.00m	2.20m	0.150	= 1.32m ³
		2.50m	0.60	0.150	= 0.225m ³
Change 2.40 to 2.50 km					
		5.80m	1.00m	0.100	= 0.58m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$2.50m \times 1.25 \times 0.20 = 0.625m^3$
					Change 2.50 to 2.600 km
					$2.00m \times 1.00m \times 0.20 = 0.40m^3$
					$2.50m \times 2.50 \times 0.20 = 1.25m^3$
					Change 3.60 to 3.70
					$22m \times \left(\frac{3 + 3.5}{2} \right) \times 0.150$ $= 10.725m^3$
					$11.20m \times \left(\frac{2.60 + 2.60 + 2.50}{3} \right) \times 0.100$ $= 2.87m^3$
L.H.S.					$4.50m \times 1.80 \times 0.075 = 0.61m^3$
					Change 3.70 to 3.800 km
					$6.00m \times \left(\frac{3.75 + 4.50}{2} \right) \times 1.10m$ $227.225m^3$
					Deduct Volume of 600mm H.P.
					$\frac{11}{4} \times (0.73)^2 \times 4.50 = 11.88m^3$
					Link Road
					Ch 250.00m
					$12.00m \times 1.00 \times 0.150 = 1.80m^3$
					Change 800m to 800.00m
					$7.00m \times 0.500 \times 0.20 = 0.70m^3$
					$11.00m \times 0.60m \times 0.150 = 0.99m^3$
					$8.00m \times 0.50 \times 0.150 = 0.60m^3$ $138.02m^3$
					Item No. 02
					Providing & laying

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
R.C.C. H.P. of					
Dia 600mm H.P.					
2 No x 2.50m x 5.00m					
 2022 10.05.22 J.C.  10/05/2022					
Abstract of Cost					
1. Restoration of road					
embankment using brick bats					
138.02m ³ @ Rs 1,807 = 249,322					
→ Rs 2,63,262 =					
2. Providing & laying H.P.					
600mm dia H.P.					
5.00m @ Rs 2,765 = 13,825					
→ Rs 13,825 =					
→ Rs 2,77,081 =					
Add GST 12% → Rs 33,251 =					
Add L.C 1% = Rs 2,771 =					
138.02m ³ @ Rs 1,032 = 142,440					
→ Rs 14,244 =					
→ Rs 3,27,357 =					
 2022 10.05.22 J.C.  10/05/2022					