

Lalji Sharma's house Sonvarga talu to
Khopi chaurk.

Schedule XLV-Form No. 134

ग्रामीण कार्य विभाग कार्य प्रमंडल पुपरी **DIVISION**

ग्रामीण कार्य विभाग कार्य अवप्रमंडल मानपुर **SUB-DIVISION**

MEASUREMENT BOOK

No-2491

संवेदक :- संवेदक - मनीष जी / जहानाबाद

1st on A/c Bill

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.	
N/W:- Constn of Road 2 CD					
works with maintenance					
for Labji Sharma's house					
Sonvarga talu to hopee					
chowk To 2.					
N/Agency:- Manish Kumar Wani					
no-28 Lohega nagar					
Begusarai					
Agreement:- 13 SBD of 2021-22					
Date of Start:- 2-06-21					
Date of Completion:- 01-03-22					
<u>Work Done</u>					
(1/2) 1/2 Fixing of working					
benchmark pillar					
(a) working benchmark					
pillar					
Q _H = 1331m = 1.331km					
Q _H = 1.331 Km					
Q _H limit as per agreement					
Q _H = 1.33 Km					
(b) Reference pillar					
Q _H = 1.331 Km					

Continuation
Q_H ~~side~~ Limit as per
agreement = 1.33 Km
Q_H = 1.33 Km

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(2/3) clearing & grubbing Road Land etc.					
		$2 \times 1331 \times 3.5 = 9317 \text{ m}^2$			
		$9317 / 10000 = 0.9317 \text{ Hq}$			
		$Q_{Hq} = 0.9317 \text{ Hq}$			
Q_{Hq} Limit as Per agreement = 0.33					
Q_{Hq} = 0.33 Hq					
(3/4) Excavation for Road way in soil using manual tools etc.					
		$2 \times 490 \text{ m} \times 0.375 \times 0.175 = 64.31 \text{ m}^3$			
		$2 \times 15 \text{ m} \times 0.15 \times 0.175 = 0.78 \text{ m}^3$			
		$2 \times 5 \text{ m} \times 0.2 \times 0.175 = 0.35 \text{ m}^3$			
		$2 \times 372 \text{ m} \times 0.375 \times 0.175 = 48.02 \text{ m}^3$			
		$Q_{Hq} = 114.26 \text{ m}^3$			
Q_{Hq} Limit as Per agreement = 112.88 m ³					
$Q_{Hq} = 112.88 \text{ m}^3$					
(4/5/6) Cost of embankment with material obtained from borrow pit etc.					
(9) For Lead 1000 m					
Q_{Hq} taken approximately 50% of total					

Continuation

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
		Qty.				
		$Qty = 2102.93 \times 50\%$				
		$Qty = 1051.46 m^3$				
(b) Lead 100m						
		Qty taken approx-				
		imate 50% of total				
		Qty.				
		$Qty = 725.84 \times 50\%$				
		$= 362.92 m^3$				
		$Qty = 362.92 m^3$				
Qty = 25.01 m³		Qty = 25.01 m³				
S/12) Cost of 458 hr-5						

by providing well
graded material etc

Box cutting -	2 x 430m x 0.375 x 0.100	= 36.38 m ³
	2 x 15m x 0.15 x 0.1m	= 0.45 m ³
	2 x 5m x 0.2 x 0.1m	= 0.2 m ³
	2 x 372m x 0.375 x 0.1	= 27.9 m ³
Profile Gravel	52 x 1m x 1m x 0.1	= 5.2 m ³
	10m x 1m x 0.1m	= 1 m ³
	4.5m x 1.5m x 0.1m	= 0.675 m ³
	2.5m x 1.25m x 0.1m	= 0.3125 m ³
	6.5m x 1.3m x 0.1m	= 0.845 m ³
	12.5m x 1.5m x 0.1m	= 1.875 m ³
	11m x 1.25 x 0.1m	= 1.375 m ³
	13.5m x 1.4m x 0.1m	= 1.89 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		13.5 m	1.0 m	0.1 m	$= 2.23 \text{ m}^3$
		12.5 m	1.65 m	0.1 m	$= 2.06 \text{ m}^3$
		10 m	1.5 m	0.1 m	$= 1.5 \text{ m}^3$
		13.5 m	1.65 m	0.1 m	$= 2.22 \text{ m}^3$
		14 m	1.25 m	0.1 m	$= 1.75 \text{ m}^3$
		13.5 m	1.35 m	0.1 m	$= 1.82 \text{ m}^3$
		10 m	1.25 m	0.1 m	$= 1.25 \text{ m}^3$
					$\text{Total} = 91.40 \text{ m}^3$
(6/8+13)	P/v, laying, spreading				
2	Compacting of WBM-3				
	etc.				

widening -	2 x 490 m	x 0.375	x 0.075	
	2 x 15 m	x 0.15 m	x 0.075 m	$= 27.56 \text{ m}^3$
	2 x 5 m	x 0.2	x 0.075 m	$= 0.15 \text{ m}^3$
	2 x 372 m	x 0.375	x 0.075	$= 20.9 \text{ m}^3$
in BT -	70 x 30 m	x 3.75	x 0.075	$= 59.06 \text{ m}^3$
				$\text{Total} = 107.67 \text{ m}^3$

(7/14) Constn. of un-reinforced
plain cement concrete pavement
etc.

	15 m	x $\frac{(6.6 + 3.65 + 3.65)}{3}$	x 0.1 m	$= 7.05 \text{ m}^3$
	15 m	x (3.85 m)	x 0.1 m	$= 5.77 \text{ m}^3$
	15 m	x (3.85 + 3.3)	x 0.1	$= 5.81 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$15m \times \frac{(3.3 + 3.85)}{2} \times 0.1m = 5.81m^3$					
$15m \times 3.85m \times 0.1m = 5.77m^3$					
$15m \times 3.85m \times 0.1m = 5.77m^3$					
$15m \times 3.85m \times 0.1m = 5.77m^3$					
$15m \times \frac{(3.85 + 3.3)}{2} \times 0.1m = 5.81m^3$					
$15m \times \frac{(3.3 + 3.85)}{2} \times 0.1m = 5.81$					
$15m \times \frac{(3.85 + 3.75)}{2} \times 0.1m = 5.7m^3$					
$15m \times \frac{(3.75 + 3.7)}{2} \times 0.1m = 5.58m^3$					
$15m \times \frac{(3.7 + 4)}{2} \times 0.1m = 5.77m^3$					
$15m \times \frac{(4 + 3.8)}{2} \times 0.1m = 5.85m^3$					
$15m \times \frac{(3.8 + 3.85)}{2} \times 0.1m = 5.73m^3$					
$15m \times \frac{(3.85 + 3.7)}{2} \times 0.1m = 5.66m^3$					
$15m \times \frac{(3.7 + 3.85)}{2} \times 0.1m = 5.66m^3$					
$15m \times \frac{(3.85 + 3.75)}{2} \times 0.1m = 5.7m^3$					
$15m \times \frac{(3.75 + 3.7)}{2} \times 0.1m = 5.58m^3$					
$15m \times \frac{(3.7 + 3.85)}{2} \times 0.1m = 5.66m^3$					

Continuation

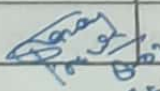
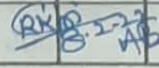
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$15m \times \frac{(3.05+4)}{2}$		$\times 0.1m$	$= 5.88m^3$
		$15m \times \frac{(4+3.7)}{2}$		$\times 0.1m$	$= 5.77m^3$
		$15m \times \frac{(3.7+3.6)}{2}$		$\times 0.1m$	$= 5.47m^3$
		$15m \times \frac{(3.6+3.05)}{2}$		$\times 0.1m$	$= 5.58m^3$
		$15m \times \frac{(3.05+3.7)}{2}$		$\times 0.1m$	$= 5.7m^3$
		$10m \times \frac{(3.75+3.45)}{2}$		$\times 0.1m$	$= 3.40m^3$

		$15m \times \frac{(3.1+3.25)}{2}$		$\times 0.1m$	$= 4.76m^3$
		$15m \times \frac{(3.25+3)}{2}$		$\times 0.1m$	$= 4.68m^3$
		$15m \times \frac{(3+3.3)}{2}$		$\times 0.1m$	$= 4.72m^3$
		$15m \times \frac{(3.3+3.2)}{2}$		$\times 0.1m$	$= 4.87m^3$
		$15m \times 3.2m$		$\times 0.1m$	$= 4.8m^3$
		$15m \times \frac{(3.2+4.5+3.25)}{3}$		$\times 0.1m$	$= 5.47m^3$
		$15m \times \frac{(3.25+3.05)}{2}$		$\times 0.1m$	$= 4.72m^3$
		$15m \times \frac{(3.05+3.25)}{2}$		$\times 0.1m$	$= 4.72m^3$
		$15m \times \frac{(3.25+3.55)}{2}$		$\times 0.1m$	$= 5.1m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$15m \times \frac{(3.55+3.15)}{2} \times 0.1m = 5.02m^3$			
		$15m \times \frac{(3.15+3.35)}{2} \times 0.1m = 4.87m^3$			
		$15m \times \frac{(3.35+4.4+3.4)}{3} \times 0.1m = 5.57m^3$			
		$15m \times \frac{(3.4+3.8+3.35)}{3} \times 0.1m = 5.57m^3$			
		$15m \times \frac{(3.35+3.15)}{2} \times 0.1m = 5.32m^3$			
		$15m \times \frac{(3.15+3.2)}{2} \times 0.1m = 4.76m^3$			
		$15m \times \frac{(3.2+3.55)}{2} \times 0.1m = 5.06m^3$			
		$15m \times \frac{(3.55+3.85)}{2} \times 0.1m = 5.55m^3$			
		$15m \times \frac{(3.85+3.3+3.1)}{3} \times 0.1m = 5.12m^3$			
		$15m \times (3.1m) \times 0.1m = 4.65m^3$			
		$15m \times 3.1m \times 0.1m = 4.65m^3$			
		$15m \times \frac{(3.1+3.5)}{2} \times 0.1m = 4.95m^3$			
		$15m \times \frac{(3.5+3.75)}{2} \times 0.1m = 5.43m^3$			
		$15m \times \frac{(3.75+3.65)}{2} \times 0.1m = 5.55m^3$			
		$15m \times \frac{(3.65+3.5)}{2} \times 0.1m = 5.36m^3$			

Continuation

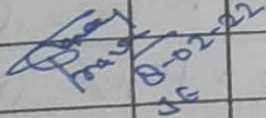
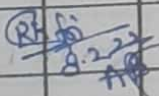
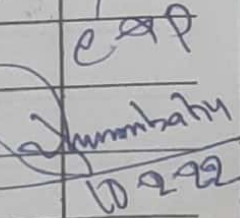
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$15m \times \frac{(3.5+3)}{2}$		$\times 0.1m$	$= 4.07m^3$
		$15m \times \frac{(3+3.2)}{2}$		$\times 0.1m$	$= 4.65m^3$
		$15m \times \frac{(3.2+3.75)}{2}$		$\times 0.1m$	$= 5.21m^3$
		$15m \times 3.75m$		$\times 0.1m$	$= 5.62m^3$
		$15m \times \frac{(3.75+3.6)}{2}$		$\times 0.1m$	$= 5.51m^3$
		$15m \times \frac{(3.6+5+3.35)}{3}$		$\times 0.1m$	$= 5.97m^3$
		$15m \times \frac{(3.35+4.1)}{2}$		$\times 0.1m$	$= 5.58m^3$
		$15m \times \frac{(4.1+3.65)}{2}$		$\times 0.1m$	$= 5.81m^3$
		$15m \times (3.65m)$		$\times 0.1m$	$= 5.47m^3$
		$17m \times 3.65m$		$\times 0.1m$	$= 6.2m^3$
					$\Phi H = 318.37m^3$
 02-22 JE					
(B/25) P/V & Fixing of typical					
masonry Informatory Sign					
board etc.					
Logo Identification Sign board = 2 No.					
Citizen Information board = 2 No.					
Reference board = 1 No.					
$\Phi H = 5 NO.$					
 02-22 JE  02-22 JE					
Continuation					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
(2/2) P. 2 Fixing of working benchmark pillar					
(a) working benchmark pillar					
Qty vide TMB P-1					
Qty = 1.33 km					
@ ₹ 4015 = 4/km ————— ₹ 5340200					
(b) Reference pillar					
Qty vide TMB P-1					
Qty = 1.33 km					
@ ₹ 1845 = 00/km ————— ₹ 2455200					
(2/3) clearing & grubbing Road Land etc.					
Qty vide TMB P-2					
Qty = 0.93 Hn					
@ ₹ 52370 = 33/Hn ————— ₹ 4926200					
(3/4) Excavation for Roadway in Soil using manual mas.					
Qty vide TMB P-2					
Qty = 112.88 m ³					
@ ₹ 75553/m ³ ————— ₹ 8530200					
(4/5/6) Constr. of embankment					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
with material obtained from borrow pit etc.					
(a) Lead 1000 m					
Qty vide TMB P-2/3					
Qty = 1051.46 m ³					
@ ₹ 130 = 57/m ³					₹ 260376 = ∞
(b) Lead 100 m					
Qty vide TMB P-3					
Qty = 362.92 m ³					
@ ₹ 152 = 15/m ³					₹ 55218 = ∞
(5/12) Constn. of kerometer					
Sub-base by providing well graded material etc.					
Qty vide TMB P-3/4					
Qty = 31.48 m ³					
@ ₹ 2717 = 23/m ³					₹ 248577 = ∞
(6/8+13) P/v. laying, spreading					
& Compacting of WBM-3					
Qty vide TMB P-4					
Qty = 107.63 m ³					
@ ₹ 3306.5/m ³					₹ 356010 = ∞
(7/14) Constn. of un-reinforced					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Plain cement Concrete					
Pavement etc.					
Qm vide TMB P-4 to 8					
Qm = 318.37 m ³					
@ ₹ 7456 = 07/m ³ ———					₹ 2373780 = 0
(8/25) P/o & Fixing of					
typical masonry information					
Sign board with logo					
etc.					
Qm vide TMB P-8					
Qm = 5 No.					
@ ₹ 3576 = 8/No ———					₹ 47884 = 00
Total =					₹ 3347441 = 00
Add 1% L/costs =					33474 = 00
Add 12% LST =					401692 = 00
Add S/fee =					38405 = 00
					₹ = 3821012 = 0
					
					
					

Continuation