

SO41 To Pankhwa Tola

(217)

Schedule XLV Form No. 134.
BIHAR P.W.D.

Manihari

DIVISION

Amadabad

SUB-DIVISION

MEASUREMENT BOOK

569
16/10/21

Situation of work-

Date of Measurement.

No. and date of agreement
(These four lines must be completed)

(These four lines should be repeated and the commencement of the measurement relating to each work)

- Record Measurement -

N/W - Restoration of 5041 to Pankhwa Tola.

Agency :- Depart.

Authority :- E.F RWD Manihari

Date of entry: - 16.12.2021

Item 1

I. Const. of Embankment with

Approved material - etc 82.80

$$L \times 12 \times 6 \times \left(\frac{1.40 + 1.60}{2} \right) = 108.0 \text{ m}^3$$
$$1 \times 18 \times 6 \times \frac{0.6 + 0.9}{2} = 108.0 \text{ m}^3$$
$$1 \times 26 \times 6 \times \frac{0.8 + 0.9}{2} = 156.0 \text{ m}$$
$$1 \times 29 \times 6 \times \frac{0.65 + 1.10}{2} = 174.0 \text{ cm}$$

					110.25 ^u		
1	x	21	x	6	x	$\frac{0.85+0.9}{2} =$	126.0 m ³
1	x	13	x	6	x	$\frac{0.75+1.0}{2} =$	68.25 m ³
Total =						281.20 m ³	
						626.55 cu	

2. Construction of granular sub-base

by providing well graded clz

$$1 \times 12 \times 4 \times 0.200 = 9.60 \text{ m}^3$$
$$1 \times 18 \times 4 \times 0.250 = 18.0 \text{ m}^3$$
$$1 \times 26 \times 4 \times 0.200 = 20.80 \text{ in}^3$$
$$1 \times 29 \times 4 \times 0.250 = 29.00 \text{ m}^3$$
$$4 \times 21 \times 4 \times 0.200 = 16.80 \text{ m}^3$$
$$1 \times 13 \times 4 \times 0.200 = 10.40 \text{ m}^3$$
$$\text{Total} = 98.80 \text{ m}^3$$

3. Labour for sand filling in					
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Cement Bag, swing and laying

material	1.0	0.9	0.10
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$$1 \times 12 \times \left(\frac{0.5 + 2.80}{1.07} \right) \times \left(\frac{2.40 - 1.13}{2} \right) = 15.84$$
$$f \times 18 \times \left(\frac{0.5 + 2.10}{4} \right) \times \left(\frac{1.60 + 1.30}{2.5} \right) = 16.965$$

Continuation

Particulars	Details of actual measurement				Contents or area
	No.	L.	B.	D.	
$1 \times 29 \times \left(\frac{0.5 + 1.0}{4} \right) \times \left(\frac{1.30 + 1.20}{2} \right)$					$\frac{19.575}{22.656}$
$1 \times 21 \times \left(\frac{0.5 + 1.80}{4} \right) \times \left(\frac{1.10 + 1.00}{2} \right)$					$\frac{18.711}{10.868}$
$1 \times 13 \times \left(\frac{0.5 + 1.90}{4} \right) \times \left(\frac{1.50 + 1.40}{2} \right)$					$\frac{8.975}{10.189}$
					$\frac{99.208}{32.342}$

No. of cement Bag = $\frac{99.208}{0.034} = 2919.632$
 $\frac{2919.632}{2363.0}$

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Abstract of cost -

1. Const. of Embankment with approved material obtained from borrow etc

$\frac{626.55}{231.70} \text{ m}^3$ P-1 $\frac{231917.48}{239161.18}$
 @ $370.15/\text{m}^3$

2. Const. of granular sub-base by providing well graded - etc

$\frac{98.80}{2616.73} \text{ m}^3$ - P-1 $\frac{258532.92}{258532.92}$

3. Labour for sand filling in cement Bag survey and laying etc

$\frac{2919.632}{2363.0} \text{ DP-2}$ $\frac{88234.42}{29822.75}$
 @ $37.340/\text{each}$

Total Rs = $\frac{627516.85}{320151.92}$

Add GST @ 12% Rs $\frac{75302.02}{627516.85}$

Add L. cess @ 0.1% Rs $\frac{6275.16}{627516.85}$

Add S. fee @ 10% Rs $\frac{15255.29}{627516.85}$

Grand Total Rs $\frac{725049.00}{371600.0}$

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