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F.D.R. 2020-2021

MBNO-1404

Schedule XLV-Form No. 134

સોજી કાગળ - 10-4 જે સારુ છે, 42
કા મ(અનિ ગુ) /

DIVISION

SUB-DIVISION

Measurement Book

પ્રમાણિત થિયા આપના છે કે
 25 માઈટીકુલીના 3 મે. સુધી 50 (પચાસ)
 મીનિ સે હાલે થિય હાલ છે આ
 જી. સિવજીવન પદાલ સુધી 60 મે.
 આ જવા પ્રકાર નિર્ધારિત થિય
 સે નિર્ધારિત થિયા આપના છે.

4/18
 Executive Engineer
 BWD Works Division
 Sugam
 24/8/20

Sch. XLV-Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 1404

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 To 4 to Sahu Tola (FDR - 2020-21)					
Agency - Departmental					
Authority :- E.E, RWD, Works Division, Supaul					
Date of measurement :- 02.09.2020					
1. Laying BRICK Bat in Drainage Portion.					
Ch. 0.030 Km					
1 X 23m X 56m X 0.2m =					25.760m ³
Ch. 0.668 Km					
1 X 38m X $\frac{2+2.5+3}{3}$ m X 0.2m =					19.000m ³
1 X 38m X $\frac{4.3+5+5.2}{3}$ m X 0.2m =					6.080m ³
Ch. 0.698 Km					
1 X 70m X $\frac{4.5+5+5.2}{3}$ m X $\frac{0.8+0.6+0.2+0.3}{4}$ =					171.500m ³
			X 0.5m		=
Ch. 0.768 Km					
Above G.L 1 X 21m X $\frac{5.4+6.6+4.5}{3}$ m X 17m =					196.350m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Below Hume Pipe	1	19m	8.5m	0.45m	$= 72.675 \text{ m}^3$
Deduct gty	3	3m	2.5m	1.2m	$= (-) 25.434 \text{ m}^3$
Ch. 0.800 km					
Left -	1	11m	1m	0.9m	$= 9.900 \text{ m}^3$
Right	1	11m	1.5m	0.3m	$= 4.950 \text{ m}^3$
	1	5m	4m	0.3m	$= 6.000 \text{ m}^3$
Left	1	6m	1m	0.3m	$= 1.800 \text{ m}^3$
Right	1	10m	1m	0.45m	$= 4.500 \text{ m}^3$
Ch. 0.892 km					
	1	14.6m	$(0.3+0.5+0.7)/3$	$(0.5+0.7+0.9)/3$	
					$= 43.80 \text{ m}^3$

$$1 \times 6.6 \text{ m} \times \left(\frac{2.7+5.0}{2} \right) \text{ m} \times 3.8 \text{ m} = 91.476 \text{ m}^3$$

Ch. 0.919 km,

$$1 \times 11.8 \text{ m} \times \left(\frac{3+0.5}{2} \right) \text{ m}$$

$$1 \times 11.8 \text{ m} \times \left(\frac{3+1}{2} \right) \text{ m} \times \left(\frac{0.8+0.8+0.5}{3} \right)$$

$$= 16.520 \text{ m}^3$$

Ch. 0.929 km

$$1 \times 15 \text{ m} \times \left(\frac{1.5+0.5}{2} \right) \text{ m} \times \left(\frac{0.4+0.2}{2} \right) \text{ m}$$

$$= 6.750 \text{ m}^3$$

$$\text{Total} = 612.207 \text{ m}^3$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Labour for cutting 62 mm to 75 mm dia bamboo Piles to size and making shoes and driving etc					
complete Job.					
Ch. o. 768 km					
	54 Nos	X 1.25 m		=	67.500 m
	53 Nos	X 1.25 m		=	66.250 m
Ch. o. 800 km					
	26 Nos	X 1.25 m		=	25.000 m
	30 Nos	X 1.25 m		=	37.500 m
Ch. o. 892 km					
	42 Nos	X 1.25 m		=	52.500
				Total =	248.750 m

3. Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or ----- etc with all Complete Job.

Ch. o. 768 km					
	4 Nos	X 19 m		=	76.00 m
	3 Nos	X 19 m		=	57.00 m
Ch. o. 800 km					
	3 Nos	X 17 m		=	51.00 m
	3 Nos	X 26 m		=	78.00 m
Ch. o. 892 km					
	10 Nos	X 6.5 m		=	65.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Total =		327.00 M
4. Supply of Bamboo at site					
(Bamboo pilling $\times 3.0$ m + Length of Runway m)	1.25				
+ Area of Chachary m				1.413	
($\frac{248.750}{1.25} \times 3.0$ m + 327 m + 0)				1.413	
597 m + 327 m + 0					
= 924					
$\therefore$ Nos of Bamboo = $\frac{924}{6}$					
				= 154	
			Say	=	154 Nos,

5. Labour Filling empty Cement bags with Local Sand, Stitching the bags and placing including supply of Sutti and Ec bag etc
all complete Job.

Ch. 0.768 km

Nos of bag = 3010.00

Ch. 0.800 km

Nos of bag = 2500.00

Ch. 0.892 km

Nos of bag = 2500.00

Ch. 0.919 km

Nos of bag = 200.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Total =		8210.00
		Total (incl. nos) =			82.10

 02.09.2020

J.E

6/ Providing and Laying Reinforced
Cement Concrete Pipe NP-3
as per design in single row
(1000 mm dia).

Chd: 768 mm

3 x 3 nos. x 2.5 m = 22.50 M

 02.09.2020

J.E

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: - Restoration of road					
from To4 to Sahu Tola (Phase-II)					
(FDR Year - 2020-21)					
Agency: Departmental					
Authority: E.E, RWD, work Division, Supaul.					
Date of measurement: - 05.10.2020					
1. Laying Brick Bat in Damage Portion.					
Ch. 0.030 km					
					$1 \times 31 \text{ m} \times 0.6 \text{ m} \times 0.3 \text{ m} = 5.58 \text{ m}^3$
Ch. 0.430 km					
					$2 \times 2.5 \text{ m} \times 0.8 \text{ m} \times 0.5 \text{ m} = 2.000 \text{ m}^3$
Ch. 0.600 km					
					$1 \times 16 \text{ m} \times 2.5 \text{ m} \times 0.3 \text{ m} = 12.000 \text{ m}^3$
					$1 \times 28 \text{ m} \times 1 \text{ m} \times 0.3 \text{ m} = 8.400 \text{ m}^3$
Ch. 0.770 km					
					$1 \times 15 \text{ m} \times 1 \text{ m} \times 0.4 \text{ m} = 6.000 \text{ m}^3$
					$1 \times 15 \text{ m} \times 4.5 \text{ m} \times 0.4 \text{ m} = 27.000 \text{ m}^3$
Ch. 0.891 km					
					$1 \times 15 \text{ m} \times 1 \text{ m} \times 0.3 \text{ m} = 4.500 \text{ m}^3$
					$1 \times 7 \text{ m} \left(\frac{2.5+4.5}{2} \right) \text{ m} \times \left(\frac{0.3+0.3}{2} \right) = 44.100 \text{ m}^3$
Ch. 0.919 km					
					$1 \times 30 \text{ m} \times \left(\frac{2+1}{2} \right) \text{ m} \times 0.3 \text{ m} = 13.500 \text{ m}^3$
					Total = 123.080 m^3

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Labour for cutting 62mm to 75mm dia bamboo poles for size and making shoes and driving etc all complete Job.					

Ch. 0.891 km

$$21 \text{ Nos} \times 125 \text{ m} = 26.250 \text{ m}$$

3. Labour for fitting and fixing 75mm dia bamboo runners in position at every vertical pole with 150mm long nails ... etc with all complete Job.					
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Ch. 0.891 km

$$5 \text{ Nos} \times 7 \text{ m} = 35.00 \text{ m}$$

4. Supply of Bamboo site

$$\left(\frac{\text{Bamboo Piling} \times 3.0}{1.25} + \text{Length of Runner (m)} \right)$$

$$+ \text{chachary Area} = 1.413$$

$$\left(\frac{26.250}{1.25} \times 3.0 \right) + 35 \text{ m} + \frac{0}{1.413}$$

$$63 \text{ m} + 35 \text{ m} + 0$$

$$= 98$$

$$\therefore \text{Nos of Bamboo} = 98 = 16.33$$

$$\text{Say} = 16 \text{ Nos.}$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S. Labour	Filling empty cement bag				
with local Sand, stitching the bag					
Placing including supply of Silli					
EC bag etc					
	all complete Job.				
Ch. o. 430 km					
	Nos of bag	=	23.00		
Ch. o. 891 km					
	Nos of bag	=	345.00		
	Nos of bag	=	363.00		
	Nos of bag	=	138.00		
	Total Nos of bag = 869				

Total Lin. m. nos. = 8.69

05.10.2020
J.E.

105/10/20

AS

5/2

Inspection Report for Flood Damage Work

Date :

1. Name of PIUs :- E.E. RWD, Works Division Supaul.
2. Name of Block/Road :- Nirmali | Toy to Sahu Tola.

A. For Road

1. Damage Location/Chainage : 30m, 668m, 698m, 800m, 892m, 919m,
2. Damage Length : 465m
3. Nature of Damage : Due to flood
4. Datils of Restoration Works :
 - i. Manterial being used in Restoration work : Hume Pipe, Bamboo, ECB filling with Local Sand, Brick Bats.
 - ii. Equipments/Tools being used in Restoration work : JCB, Tractor, Roller
 - iii. Procedure taken up in Restoration work : Filling.
 - iv. Restored Length : 465m

B. For Bridge

5. Damage Location/Chainage :
6. Damage Length : N.A
7. Nature of Damage :
8. Datils of Restoration Works :
 - i. Manterial being used in Restoration work :
 - ii. Equipments/Tools being used in Restoration work :
 - iii. Procedure taken up in Restoration work :
 - iv. Restored Length :

 30.11.20
Signature of JE/AE/EE 30.11.20

 30/11/20
Signature
Executive Engineer
Road Works Department
Work Division, Birpur