154

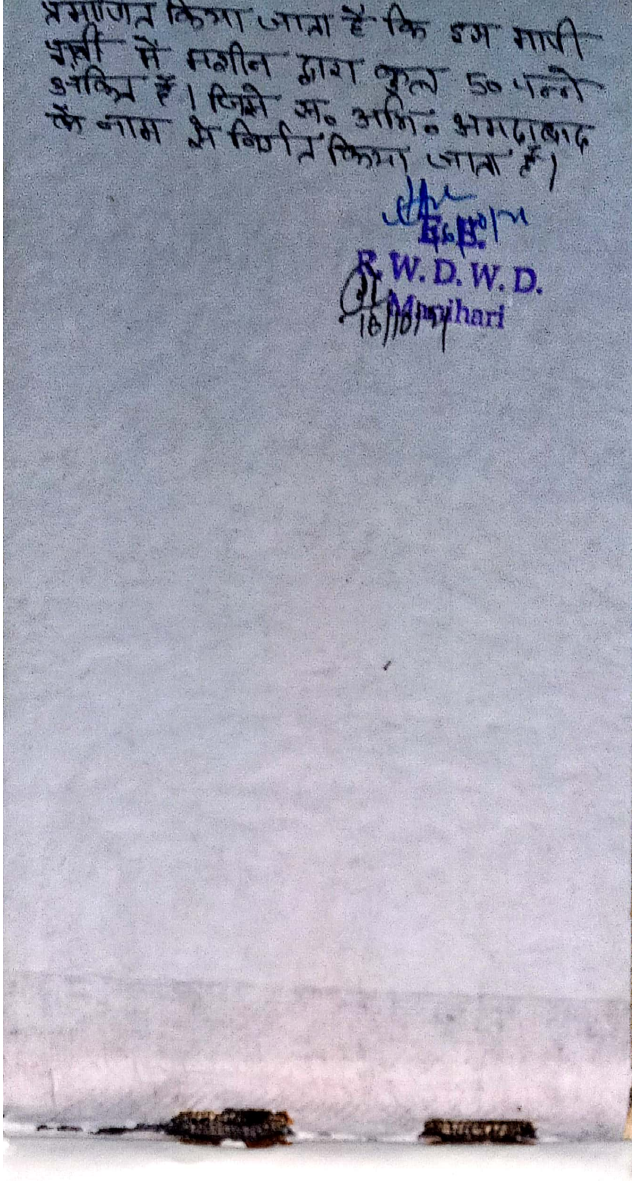
Schedule XLV Form No. 134.
BIHAR P.W.D.

.....DIVISION

.....SUB-DIVISION

MEASUREMENT BOOK 421

16/10/21


प्रमाणित किया जाता है कि इस माप
पुस्तक में मशीन द्वारा कुल 50 पन्ने
अंकित हैं। जिसे अ० अभि० अमदाबाद
के नाम से निर्गत किया जाता है।
E.E.
R.W.D.W.D.
Manihari
16/10/74

Schudle XLV-Form No. 134

E. E.
R. W. D. W. D. ..... DIVISION
Manihari ..... SUB-DIVISION

MEASUREMENT BOOK

Name of Office .....

E. E.
R. W. D. W. D.
Manihari

Date of first entry.....

Date of last entry.....

Name of work - 1
Situation of work-
Agency by which work is executed-
Date of Measurement.
No. and date of agreement
(These four lines should be repeated and the commencement of the measurement relating to each work)

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
- Record Measurement -					
N/W - Restoration of KO38 TO1 Near Pani Kamla to Mayanari (Track 1)					
Agency :- Depart.					
Authority :- E.E RWD Manihari					
~~Item~~ ~~I. Const~~ Date of entry :- 16.12.2021					
Work done					
Item. I. Const. of Embankment with approved material obtained from borrow pits etc					
NO. 1					= 63.05 m³
1					= 56.51 m³
1					= 34.31 m³
1					= 122.40 m³
1					= 81.14 m³
1					= 78.02 m³
1					= 27.58 m³
1					= 75.67 m³
1					= 62.30 m³
1					= 31.90 m³
1					= 103.85 m³
1					= 126.0 m³
1					= 26.82 m³
1					= 5.17 m³
1					= 6.79 m³
1					= 645.70 m³
1					= 9.59 m³

Continuation

Sch. XLV - Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents or area
1 × 12.65 × (1.50+1.60)/2 × (1.80+1.55+1.45)/3					= 31.37 m³
1 × 10.90 × (1.40+1.50)/2 × (1.60+1.50)/2					= 24.50 m³
1 × 2.40 × (1.40+1.50)/2 × (0.85+1.60)/2					= 4.26 m³
1 × 2.10 × (1.50+1.60)/2 × (1.50+1.40)/2					= 4.73 m³
1 × 2.40 × (1.20+1.95)/2 × (1.20+1.60)/2					= 5.29 m³
1 × 3 × (1.70+2.20)/2 × (1.60+1.20)/2					= 8.61 m³
1 × 4.5 × (1.80+2.20)/2 × (0.95+1.60)/2					= 11.48 m³
1 × 10.60 × (1.50+2.30)/2 × (1.70+1.60)/2					= 33.23 m³
1 × 4.50 × (1.40+2.10)/2 × (1.75+1.65)/2					= 13.39 m³
1 × 7.50 × (1.90+2.20)/2 × (1.40+1.30)/2					= 20.76 m³
1 × 6 × (2.10+2.30)/2 × (1.50+1.60)/2					= 20.46 m³
			Total		= 1735.37 m³

2. Providing Brick Bats including spreading laying compacting with C.I Hammer all complete for as per est

No.	L.	B.	D.	Contents or area
1 × 15 × (3.0+2.0)/2 × (0.50+0.60)/2				= 20.63 m³
1 × 18.90 × (2.70+1.90)/2 × (0.4+0.6)/2				= 21.74 m³
1 × 28 × (1.80+1.20)/2 × (0.70+0.85)/2				= 32.55 m³
1 × 30 × (2.40+1.70)/2 × (0.90+0.80)/2				= 52.28 m³
1 × 20.70 × (2.40+1.50)/2 × (0.75+0.80)/2				= 31.28 m³
1 × 24 × (2.0+1.60)/2 × (0.60+0.80)/2				= 31.08 m³
1 × 11.25 × (1.5+1.20)/2 × (0.35+0.60)/2				= 7.21 m³
1 × 23 × (2.80+1.90)/2 × (0.70+0.50)/2				= 32.43 m³
1 × 21.30 × (1.90+0.85)/2 × (0.65+0.50)/2				= 16.84 m³
1 × 11 × (1.90+1.15)/2 × (0.70+0.55)/2				= 10.48 m³
1 × 33.50 × (1.30+1.10)/2 × (0.85+0.70)/2				= 37.65 m³
1 × 15 × (1.90+1.30)/2 × (0.80+0.70)/2				= 18.0 m³
1 × 9.75 × (1.7+1.2)/2 × (0.70+0.60)/2				= 9.19 m³
1 × 3 × (1.20+0.90)/2 × (0.60+0.55)/2				= 1.81 m³
1 × 3.60 × (1.20+1.0)/2 × (0.70+0.60)/2				= 2.57 m³
1 × 5.50 × (1.50+0.95)/2 × (0.60+0.55)/2				= 3.87 m³
1 × 3 × (1.70+1.20)/2 × (0.70+0.50)/2				= 2.61 m³

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents or area
1 x 12.65 x ((1.50+1.10)/2) x ((0.65+0.60)/2)					= 10.28 m³
1 x 10.90 x ((1.40+1.20)/2) x ((0.70+0.55)/2)					= 8.86 m³
1 x 2.40 x ((1.40+1.10)/2) x ((0.85+0.45)/2)					= 1.95 m³
1 x 2.10 x ((1.50+1.30)/2) x ((0.50+0.55)/2)					= 1.54 m³
1 x 2.40 x ((1.20+0.95)/2) x ((0.50+0.60)/2)					= 1.42 m³
1 x 3 x ((1.90+1.20)/2) x ((0.35+0.45)/2)					= 1.86 m³
1 x 4.50 x ((1.80+1.20)/2) x ((0.70+0.40)/2)					= 3.71 m³
1 x 10.60 x ((1.5+1.30)/2) x ((0.80+0.50)/2)					= 9.65 m³
1 x 4.50 x ((1.40+1.10)/2) x ((0.70+0.50)/2)					= 3.38 m³
1 x 7.50 x ((1.90+1.20)/2) x ((0.80+0.60)/2)					= 8.14 m³
1 x 6 x ((2.10+1.30)/2) x ((0.70+0.70)/2)					= 7.14 m³
1 x 12 x ((6.0+5.0)/2) x ((0.80+1.20+1.0)/3)					= 99.0 m³
1 x 5 x ((6.0+5.0)/2) x ((0.90+1.80+1.0)/3)					= 29.33 m³
1 x 15 x ((6+5)/2) x ((0.90+1.40+1.10)/3)					= 93.50 m³
			Total		= 611.98 m³

3. Labour for sand filling in cement Bag, Sweiving and Laying material:

1 x 16.50 x ((0.50+0.95)/2) x ((1.0+0.95)/2)					= 11.663
1 x 34.60 x ((0.5+0.85)/2) x ((0.70+0.90)/2)					= 18.684
1 x 11.4 x ((0.50+0.85)/2) x ((0.60+0.90)/2)					= 6.199
1 x 5.30 x ((0.50+0.80)/2) x ((0.60+0.90)/2)					= 2.783
1 x 6.50 x ((0.50+0.80)/2) x ((0.90+1.0)/2)					= 4.014
1 x 4 x ((0.50+0.95)/2) x ((0.90+1.0)/2)					= 2.755
1 x 3 x ((0.50+0.95)/2) x ((0.90+1.0)/2)					= 1.995
1 x 16.40 x ((0.50+0.85)/2) x ((0.90+1.0)/2)					= 10.517
1 x 9.50 x ((0.50+0.95)/2) x ((0.50+0.90)/2)					= 4.821
1 x 2.50 x ((0.50+0.85)/2) x ((0.50+0.90)/2)					= 1.181
1 x 18 x ((0.50+0.90)/2) x ((0.50+0.90)/2)					= 8.820
1 x 9 x ((0.50+0.95)/2) x ((1.10+1.0)/2)					= 4.568
1 x 8 x ((0.50+0.85)/2) x ((0.50+0.90)/2)					= 3.780
1 x 9 x ((0.50+0.80)/2) x ((1+1)/2)					= 5.850
1 x 21.5 x ((0.50+0.80)/2) x ((1+1.50)/2)					= 18.813
1 x 13 x ((0.50+0.95)/2) x ((1.1+1.40)/2)					= 9.750

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents or area
1×24×(0.50+0.70)/2 × (1.50+1.90)/2					= 24.480
1×16×(0.50+0.90)/2 × (1.20+1.50+1.30)/3					= 14.933
2×30×(0.50+0.95)/2 × (1.5+1.4)/2					= 63.035
2×42×(0.50+1.40)/2 × (1.20+1.40)/2					= 103.740
2×30×(0.50+1.20)/2 × (1.50+1.60)/2					= 99.050
1×30×(0.50+0.95)/2 × (1.0+1.20)/2					= 23.925
1×26×(0.50+0.85)/2 × (1.0+1.20)/2					= 19.305
1×18×(0.50+0.90)/2 × (0.60+0.90)/2					= 9.450
1×14×(0.50+0.85)/2 × (0.60+0.90)/2					= 7.088
1×9×(0.50+0.95)/2 × (1.5+1.2)/2					= 8.809
1×22×(0.50+0.85)/2 × (1.40+1.50)/2					= 21.533
1×30×(0.50+1.10)/2 × (1.50+1.60)/2					= 69.750
				Total	= 561.034
No. 06 Cement Bag					= 561.034
					0.034
					= 1651 0.0

4. Labour for driving 62mm to 75mm dia Bamboo piles including cutting etc

1	× 16.50 m		= 16.50 m
1	× 34.60 m		= 34.60 m
1	× 11.40 m		= 11.40 m
1	× 5.30 m		= 5.30 m
1	× 6.50 m		= 6.50 m
1	× 3.0 m		= 3.0 m
1	× 4.0 m		= 4.0 m
1	× 16.40 m		= 16.40 m
1	× 9.50 m		= 9.50 m
1	× 2.50 m		= 2.50 m
1	× 18.0 m		= 18.0 m
1	× 9.0 m		= 9.0 m
1	× 9.0 m		= 9.0 m
1	× 16.0 m		= 16.0 m

Particulars	Details of actual measurement No.	L.	B.	D.	Contents or area
	1	x 21.50m	=	21.50m	
	1	x 13.0m	=	13.0m	
	1	x 24.0m	=	24.0m	
	1	x 16.0m	=	16.0m	
	2	x 30.0m	=	60.0m	
	1	x 42.0m	=	42.0m	
	2	x 30.0m	=	60.0m	
	1	x 30.0m	=	30.0m	
	1	x 26.0m	=	26.0m	
	1	x 9.0m	=	9.0m	
	1	x 22.0m	=	22.0m	
	2	x 30.0m	=	60.0m	
		Total	=	545.20m	

No. of piles $= \left(\frac{545.20}{0.3} + 1\right) \times \frac{1.80}{2}$

$= 3271.0$ m

5. Supplying fitting and fixing of bamboo 62mm to 75mm dia numerals

$3.0 \times 545.20 = 1635.6\ m^2$

Total $= 1635.6\ m^2$

16/12/21

16/12/21

- Abstract of cost -

Item

1. Const. of Embankment with approved material obtained etc

1735.37 m^3 P-2

@ 404.68 / m^3 = 702269.53

2. Providing Brick Bats including Spreading, Laying, compacting etc

611.980 m^3 P-3

@ 1895.340/m^3 = 1159910.17

3. Labour for sand filling in cement

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents or area
Bag, supply and laying materials.					
16510.0		P-4			
@ 27.340/each					=451383.40
4. Labour for driving 62mm to 75mm dia Bamboo piles etc					
3271.0		P-5			
@ 51.050/m					=166984.55
5. Supplying filling and fixing of bamboo 62mm to 75mm etc					
1635.600 m^2		P-5			
@ 28.010/m^2					=45813.16
		Total Rs			=2526360.81
Add GST @12%		Rs			303163.29
Add L. Cess @01%		Rs			25263.60
Add S Fee @12%		Rs			122195.99
Grand Total		Rs			2976984.00

16/12/21 JE

16/12/21 AE

16/12/21

Continuation