

Belhi Chawk Jo Ratan Shera

MR- 3054

Schedule XLV-Form No. 134

Rahul Pagar

DIVISION

Ghoshadiha

SUB-DIVISION

MBAY- 367/2022-23

MEASUREMENT BOOK

Cont:- Ashok Kumar

1. इस मापी पुल में मशीन द्वारा
प्रति 100 (एक सौ) घण्टे है, जो सहायक अभियन्ता,
समीक्षा कार्य विभाग, कार्य क्षेत्र प्रमंडल-पौधारी
को निर्मित किया जाता है।

19/3/23

EXECUTIVE ENGINEER
Rural Works Department
Works Division Phulparas

18-03-2023

Sch. XLV—Form No. 134

Phulparas DIVISION

Ghogherdi SUB-DIVISION

Measurement Book

No. 367/2022-23

19/3/23

Name of Officer EXECUTIVE ENGINEER
Rural Works Department
Works Division Phulparas

Date of first entry 18-03-2023

Date of last entry 18-03-2023

1st and final Bill

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 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 - Repair of Road					
from Belli Chowk To					
Ratan shera					
(Under MR-3054)					
Length of Road - 2.600 Km					
Name of Agency - Ashok Kumar					
At - Samvedak colony					
Mission Road Giriga					
Church Pokri Ara, Chapar					
Bihar Pin - 802301					
Package No - MR- N/2022-2023					
Agreement No-24 MBD/2022-2023					
Date of Agreement - 18/03/2023					
Date of completion - 12/12/2023					
Below Rate - 15.99% Below.					
<u>work done</u>					
① clearing and Grubbing					
Road land (by manual					
means) do - do -					
complete Reb.					
$2 \times 10 \times 30.0 \times 1.0 = 600 \text{ m}^2$					
$2 \times 10 \times 30.0 \times 1.0 = 600 \text{ m}^2$					
$2 \times 10 \times 30.0 \times 1.0 = 600 \text{ m}^2$					
$2 \times 10 \times 30.0 \times 1.0 = 600 \text{ m}^2$					
$2 \times 7 \times 30.0 \times 1.0 = 420 \text{ m}^2$					

Continuation

[illegible]

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		10.0	3.75	0.025	$= 0.9375 \text{ m}^3$
		12.0	$\frac{3.75 + 4.20 + 3.75}{3}$	0.025	$= 1.17 \text{ m}^3$
		10.0	30.0	3.75	$\times 0.025 = 28.125 \text{ m}^3$
	4	30.0	3.75	0.025	$= 11.25 \text{ m}^3$
		10.0	3.75	0.025	$= 0.9375 \text{ m}^3$
		13.0	$\frac{3.75 + 4.40 + 3.75}{3}$	0.025	$= 1.288 \text{ m}^3$
	2	30.0	3.75	0.025	$= 5.625 \text{ m}^3$
		8.0	3.75	0.025	$= 0.75 \text{ m}^3$
		7.0	$\frac{3.75 + 5.10 + 3.75}{3}$	0.025	$= 0.735 \text{ m}^3$
		9.0	$\frac{3.75 + 5.0 + 3.75}{3}$	0.025	$= 0.936 \text{ m}^3$
	2	30.0	3.75	0.025	$= 5.625 \text{ m}^3$
		10.0	3.75	0.025	$= 0.9375 \text{ m}^3$
		11.0	$\frac{3.75 + 4.10 + 3.75}{3}$	0.025	$= 1.061 \text{ m}^3$
	2	30.0	3.75	0.025	$= 5.625 \text{ m}^3$
		10.0	$\frac{3.75 + 4.20 + 3.75}{3}$	0.025	$= 0.975 \text{ m}^3$
		20.0	3.75	0.025	$= 1.875 \text{ m}^3$
		10.0	$\frac{3.75 + 4.10 + 3.75}{3}$	0.025	$= 0.965 \text{ m}^3$
		10	30.0	3.75	$\times 0.025 = 28.125 \text{ m}^3$
		5	30.0	3.75	$\times 0.025 = 14.0625 \text{ m}^3$
		22.0	3.75	0.025	$= 2.0625 \text{ m}^3$
		30.0	3.75	0.025	$= 2.8125 \text{ m}^3$
		20.0	3.75	0.025	$= 1.875 \text{ m}^3$
		5	30.0	3.75	$\times 0.025 = 14.0625 \text{ m}^3$
		10.0	3.75	0.025	$= 0.9375 \text{ m}^3$
		12.0	$\frac{3.75 + 4.10 + 3.75}{3}$	0.025	$= 1.158 \text{ m}^3$
		8	30.0	3.75	$\times 0.025 = 22.5 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		30.0	3.75	0.025	2.812 m ³
				Qty =	179.084 m ³
	08/12/2023				
⑨ Panel Concrete Pavement					
do - do - complete					
Tab.					
	3	30.0	3.75	0.100	33.75 m ³
		10.0	3.75	0.100	3.75 m ³
	3	30.0	3.75	0.100	33.75 m ³
		10.0	3.75	0.100	3.75 m ³
		2.0	3.75	0.100	0.75 m ³
				Qty =	75.75 m ³
⑩ cement concrete Pavement					
do - do - complete					
Tab.					
		30.0	3.75	0.160	18 m ³
		20.0	3.75	0.160	12 m ³
	6	30.0	3.75	0.160	108 m ³
		19.0	3.75	0.160	11.4 m ³
		31.0	3.75 + 5.2 + 4.5 + 3.05	0.160	21.32 m ³
	4	30.0	3.75	0.160	72 m ³
	3	30.0	3.75	0.160	54 m ³
		10.0	3.75	0.160	6 m ³
				Qty =	302.72 m ³
	15/12/2023				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) <u>rec slab culvert</u>					
		6.0	2.0		
(1) <u>Earth work in excavation of foundation trenches</u>					
	2	9.30	2.70	1.80	$= 90.40 \text{ m}^3$
	4	1.60	2.51	1.80	$= 28.92 \text{ m}^3$
		8.90	3.60	0.250	$= 8.04 \text{ m}^3$
<u>cutoff wall</u>	2	12.200	1.00	1.80	$= 43.92 \text{ m}^3$
	2	0.600	1.00	1.800	$= 2.16 \text{ m}^3$
	2	2.100	1.00	1.800	$= 7.56 \text{ m}^3$
		10.200	0.600	0.250	$= 1.53 \text{ m}^3$
		10.200	2.100	0.250	$= 5.36 \text{ m}^3$
					$\text{Qty} = 187.85 \text{ m}^3$
(2) <u>sand filling in foundation</u>					
		8.900	5.625	0.100	$= 5.04 \text{ m}^3$
(3) <u>Providing M15 PCC (1:2:5)</u>					
<u>in foundation</u>	2	9.300	2.700	0.200	$= 10.04 \text{ m}^3$
	4	1.600	2.510	0.200	$= 3.21 \text{ m}^3$
		8.900	5.734	0.150	$= 7.66 \text{ m}^3$
<u>cutoff wall</u>	2	12.200	1.00	0.150	$= 3.66 \text{ m}^3$
	2	0.600	1.00	0.150	$= 0.18 \text{ m}^3$
	2	2.100	1.00	0.150	$= 0.63 \text{ m}^3$
		12.00	1.500	0.150	$= 2.70 \text{ m}^3$
		12.00	3.00	0.150	$= 5.40 \text{ m}^3$
					$\text{Qty} = 33.48 \text{ m}^3$

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	Ø.	
(iv) Provided pec m ₁₅ (1:2:5:5) concrete in open foundation					
	2	8.400	2.150	1.600	57.79 m ³
	4	1.600	1.960	1.600	20.07 m ³
Cut off wall	2	12.00	0.588	1.500	21.15 m ³
	2	0.913	0.588	1.500	1.61 m ³
	2	2.413	0.588	1.500	4.25 m ³
					Qty = 104.87 m ³
(v) pec m ₁₅ (1:2:5:5) in sub structure					
	2	7.500	1.150	1.800	31.05 m ³
	4	1.900	0.905	2.330	16.63 m ³
					Qty = 47.68 m ³
(vi) plain cement concrete m ₂₀ in sub structure					
	2	7.500	0.700	0.200	2.10
	2	7.500	0.300	0.480	2.16
					Qty = 4.26 m ³
part	2	12.00	0.400	0.600	5.76 m ³
					Qty = 10.02 m ³
(vii) Supplying fitting and placing HYSD bar Reinforcement in					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Super structure do do - complete Reb.					
Distribution	2	12	7.400	0.888	157.70 kg
cap	2	50	2.950	0.612	182 kg
Main bar		50	6.800	1.58	537.2 kg
		50	6.900	2.46	848.7 kg
		42	7.50	2.46	774.9 kg
		47	7.50	0.612	217.49 kg
Chairs	29	2.10	1.58		96.22 kg
				Total	2814.21 kg
				or	2.814 MT

(viii) RCC in Deck slab
Providing and laying
reinforcement
concrete in super
structure do - do
complete Reb

$$7.500 \times 6.760 \times 0.480 = 24.34 \text{ m}^3$$

(ix)

Providing and filling
joint sealing compound

$$2 \times 7.500 = 15 \text{ m}^3$$

(x) Providing weep holes
in abutment

$$2 \times 10 + 4 \times 2 = 28 \text{ NOS}$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(XII) Drainage spouts complete					
				1 x 4 = 4 nos	
(XIII) Painting on Parapet Wall Painting two coats includes primer coat do do complete job.					
		2 x 12.0 x 0.40			9.6 m ²
		4 x 12.0 x 0.60			28.80 m ²
		4 x 0.40 x 0.60			0.96 m ²
				Qty =	39.36 m ²
(12) Construction of Subgrade and Earthen shoulders do—do—complete job.					
		2 x 10 x 30.0 x 1.10 x 0.30			198 m ³
		2 x 10 x 30.0 x 1.0 x 0.40			240 m ³
		2 x 10 x 30.0 x 1.10 x 0.40			264 m ³
		2 x 10 x 30.0 x 1.0 x 0.30			180 m ³
		2 x 7 x 30.0 x 1.10 x 0.30			138.6 m ³
		2 x 3 x 30.0 x 1.0 x 0.30			54 m ³
		10.0 x 1.0 x 0.30			3 m ³
		2 x 30.0 x 1.0 x 0.30			18 m ³
		2 x 20.0 x 1.0 x 0.30			12 m ³
		2 x 30.0 x 1.10 x 0.30			19.8 m ³
		2 x 20.0 x 1.10 x 0.40			17.6 m ³

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(iii) Painting Two coats on New concrete surfaces do — do — complete lab.					
					$4 \times 4.0 \times 4.0 \times 0.60 = 38.4 \text{ m}^2$
					$4 \times 2.0 \times 4.0 \times 6.0 = 192 \text{ m}^2$
					$4 \times 4.0 \times 0.40 \times 0.60 = 3.84 \text{ m}^2$
					$\text{Qty} = 234.24 \text{ m}^2$
(iv) kilometre stone					
(i) km stone					Qty = 4 Nos
(ii) 200 m stone					Qty = 10 Nos
(v) Retro-reflectorised Traffic signs					
(i) 600 mm equilateral triangle					Qty = 16 Nos.
(ii) 600 mm circular					Qty = 8 Nos
(iii) 600 mm x 450 mm rectangular					Qty = 10 Nos

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) 900 mm side Octagon					Qty = 2 Nos.
(16) Boundary pillars					Qty 31 Nos
(17) Planting of Trees and Their Maintenance for One Year					2 x 1900/20.0 = Qty 190 Nos
(18) Road marking with Hot Applied Thermoplastic compound with Reflectors/Glass Beads on BT portion					$2 \times 10 \times 30.0 \times 0.100 = 60 M^2$ $2 \times 10 \times 30.0 \times 0.100 = 60 M^2$ $2 \times 10 \times 30.0 \times 0.100 = 60 M^2$ $2 \times 10 \times 30.0 \times 0.100 = 60 M^2$ $2 \times 7 \times 30.0 \times 0.100 = 42 M^2$ $2 \times 30.0 \times 0.100 = 6 M^2$ $2 \times 20.0 \times 0.100 = 4 M^2$ $2 \times 10 \times 30.0 \times 0.100 = 60 M^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	4	30.0	0.100	24 m ²
	2	20.0	0.100		4 m ²
<u>Inception</u>					Qty = 380 m ²
	2	3	30.0	0.100	18 m ²
	2	10.0	0.100		2 m ²
	2	30.0	0.100		6 m ²
	2	20.0	0.100		4 m ²
	2	6	30.0	0.100	36 m ²
	2	19.0	0.100		3.8 m ²
	2	31.0	0.100		6.2 m ²
	2	4	30.0	0.100	24 m ²
	2	3	30.0	0.100	18 m ²
	2	10.0	0.100		2 m ²
	2	3	30.0	0.100	18 m ²
	2	10.0	0.100		2 m ²
					Qty = 140 m ²
<u>Pedestrian Crossing</u>					
	2	16.0	0.500		16 m ²
					Net Total Qty = 536 m ²
(19) Providing and fixing MR in formatory sign board with logo do - do - complete job.					Qty = 2 Nos
	15/12/2023				

Continuation

ABSTRACT OF COST

23

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Clearing and Grubbing Road Land (By Manual Means) do - do - Complete Sab.					
Qty 0.52 Ha vide TMB P-2					
@ ₹ 62032.43/Ha = ₹ 32257 = ∞					
② Granular sub-base with well Graded material (By mix in place method)					
Qty 77.254 m³ vide TMB P-4					
@ ₹ 4609.33/m³ = ₹ 356089 = ∞					
③ WBM Grading-3. (By mechanical means) do - do - Complete Sab.					
Qty 121.248 m³ vide TMB P-8					
@ ₹ 6196.27/m³ = ₹ 751285 = ∞					
④ Prime Coat (BS1) (low porosity)					
Qty 1225.2 m² vide TMB P-8					
@ ₹ 62.46/m² = ₹ 76526 = ∞					
⑤ Tack Coat (BS1)					
Qty 2008.97 m² vide TMB P-10					
@ ₹ 21.29/m² = ₹ 42762 = ∞					
⑥ Patch work over WBM Using mix seal surface with waste					

Continuation

Continuation