

MR-3054 श्रीशिवमठ

M.B. NO: - 4031

Name of road: - Chakro To Jakhra.

Schedule XLV-Form No.-134

JARABHANGA DIVISION

BAHARI SUB-DIVISION

MEASUREMENT BOOK

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:- Maintenance & Repair of Package no-NR-N/19-2020/4-1/11 of road from Chakwa to Jakh					
(Length 3.350 KM) Under Baheri block					
Name of Agency:- SYN Construction Pvt. Ltd					
At Road no-02, Shekhpur,					
Auhangheta, Dist:- Muzaffarpur					
Agreement:- MBD/2021-22 (MR: 3054)					
Under new Maintenance policy 2018.					
Estimated Cost:-					
					Rs. 19975184.20 (Package)
					Rs. 10646232.00
Agreement value:- Rs. 19973198.00 (Package)					
Rate:- 0.01% Below from B.O.G Rate					
Date of Start:- 20.11.2021					
Date of completion:- 19.08.2022					
Recon measurement					
① clearing & grubbing road					
Land. — do — do —					
(2x 5x 30.00 x 1.00 = 300 m ²)					
2x 19x 30.00 x 1.00 = 1140.00 m ²					
2x 11x 30.00 x 1.00 = 660.00 m ²					
2x 14x 30.00 x 1.00 = 840.00 m ²					
2x 12x 30.00 x 1.00 = 720.00 m ²					
2x 2x 30.00 x 1.00 = 120.00 m ²					
2x 1x 10.00 x 1.00 = 20.00 m ²					
Total Qty = 3800.00 m ²					
= 0.38 Ha					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		<u>Record measurement</u>			
① P/V is applying prime coat					
(S-L) on prepared surface					
Qty: WBM portion			0.075		
			$= 81.571 / 0.075$		
			$= 1087.613 \text{ m}^2$		
② P/V is applying tar coat					
Water bitumin emulsion (PQ-L)					
For B.T. 3 PCC portion					
	3 X	4.50	1.20	=	16.20 m ²
	2 X	9.00	1.00	=	18.00 m ²
	5 X	6.70	1.50	=	50.25 m ²

	4 X	5.70	1.60	=	36.48 m ²
	7 X	4.90	1.80	=	61.74 m ²
	9 X	3.80	2.00	=	68.40 m ²
	5 X	6.00	1.25	=	37.50 m ²
	4 X	5.70	1.80	=	41.04 m ²
	8 X	3.50	1.50	=	42.00 m ²
	3 X	5.00	3.00	=	45.00 m ²
	7 X	8.00	1.90	=	79.80 m ²
	5 X	5.60	1.30	=	36.40 m ²
	4 X	3.00	2.50	=	30.00 m ²
	6 X	4.30	1.80	=	46.44 m ²
	8 X	3.70	1.50	=	44.40 m ²
	5 X	7.00	1.40	=	49.00 m ²
	2 X	5.00	3.10	=	31.00 m ²
	4 X	8.00	2.00	=	64.00 m ²
	Qty = 797.65 m ²				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.F.			$\phi H =$	797.65 m ²
	3 X	12.00	X 1.80	=	64.80 m ²
	5 X	9.00	X 1.30	=	58.50 m ²
	4 X	7.00	X 1.50	=	42.00 m ²
	7 X	4.50	X 2.00	=	63.00 m ²
	9 X	5.00	X 1.70	=	76.50 m ²
	5 X	3.90	X 1.60	=	31.20 m ²
	4 X	8.50	X 1.65	=	56.10 m ²
	3 X	11.00	X 1.50	=	49.50 m ²
	2 X	9.00	X 1.70	=	30.60 m ²
				$\phi H =$	1269.85 m ²
Add WBM porting @ 1:4 = vide TBM, port 4 items					1087.63 m ²
				Total $\phi H =$	2357.463 m ²

③ Patch work over WBM using.

mix sand surface for DT & existing

PCC Pavement —————

$\phi H =$ vide same above
 ϕH 1 km no 2

$= 2357.463 \text{ m}^2$

9.11.22

D.E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.P				9781.60 m ²
	2 X	30.00	X 3.75		225.00 m ²
	1 X	8.00	X (3.75 + 3.90)		30.60 m ²
	1 X	7.00	X (3.90 + 3.75)		26.775 m ²
	7 X	30.00	X 3.75		787.50 m ²
	10 X	30.00	X 3.75		1125.00 m ²
	4 X	30.00	X 3.75		450.00 m ²
	5 X	30.00	X 3.75		562.50 m ²
	1 X	15.00	X 3.75		56.25 m ²
	1 X	30.00	X (3.75 + 3.70)		111.75 m ²
			Total	Qty	12594.475 m ²

② P/V & laying semi-dense bituminous

Concrete = do do

Qty = vicki same as above Qty
item no-0 X 0.025

$$= 12594.475 \times 0.025$$

$$= 314.861 \text{ m}^3$$

Amirul
15/12/2022
PR

21.11.22
J.G

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\phi 12$					420 m^2
$2 \times 20 \times 30 \times 0.1 \text{ m}$					120 m^2
$2 \times 12 \times 30 \times 0.1 \text{ m}$					72 m^2
$2 \times 8 \times 30 \times 0.1 \text{ m}$					48 m^2
$2 \times 1 \times 5 \times 0.1 \text{ m}$					1 m^2
Total $\phi 12$					661 m^2

10) P.V. & lining 'Logs' of maintenance project board - $\phi 12$ 3 m long

Signature
18/11/22
P.R.

Signature
28.11.22
J.E

Record measurements

1) Brick masonry work (1:3) in parapet
 $2 \times 6 \text{ m} \times 0.4 \text{ m} \times 0.6 \text{ m} = 2.88 \text{ m}^3$
 Qty for 3 nos Culvert
 $= 8.64 \text{ m}^3$

2) Plastering with cement

Mortar (1:4)

Side face $4 \times 6 \text{ m} \times 0.06 = 14.40 \text{ m}^2$

Top $2 \times 6 \text{ m} \times 0.40 = 4.80 \text{ m}^2$

Face $4 \times 0.40 \times 0.60 = 0.960 \text{ m}^2$

Qty = 20.16 m^2

Qty for 3 nos Culvert
 $= 60.48 \text{ m}^2$

ABSTRACT OF COST			
(1/2) clearing & grubbing road			
land	do	do	
		vide TMD	
Qty: 0.38 Ha		Rate - 1	
@ 51137.38 / Ha			Rs-19432.00
(2/3) P/V WSP hr-1 Material			
	do	do	
		vide TMD	
Qty: 30.368 m ³		Rate - 2	
@ 3037.81 / m ³			Rs-92252.00
(3/4) P/V WPM hr-3 Material			
	do	do	
		vide TMD	
Qty: 81.571 m ³		Rate - 3	
@ 3786.17 / m ³			Rs-308842.00
			Rs-420526.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	R. 1 st				PJ - 5320247 ²⁰
(16/17) Road Marking with hot applied thermoplastic					
Qty: 661 m ²					vide TMD Page - 11
@ 723.00 / m ²					M - 477903 = 0
(17/11) Plaster & lining masonry					
Sign board					vide TMD Page - 11
Qty: 3 m ²					
@ 9381.70 / each					M - 28145 = 0
(18/18) Brick masonry in cm (1:3)					
In parapet					vide TMD Page - 11
Qty: 8.64 m ²					
@ 5234.42 / m ²					M - 45225 = 0
(19/19) Plastering with C.I. (1:4)					
on brick work					vide TMD Page - 11
Qty: 60.48 m ²					
@ 168.39 / m ²					M - 10184 = 0
(20/20) Painting two coats on new concrete surface					vide TMD Page - 11
Qty: 60.48 m ²					
@ 98.78 / m ²					M - 5974 = 0
					M - 5887678 = 0
Len 0.01% below G					M - 589 = 0
					M - 5887089 = 0
Add @ 12% GST (H)					M - 706451 = 0
Add @ 1% Labour (C)					M - 58871 = 0
Add Squireage					M - 28922 = 0
					Total M - 6681333 = 0

15/12/22
 Continuation
 16/12/22

8.12.22
 ZE