

Chandsarai To Bichouli Mahadalit Tola via
Mahisour Mahadalit Tola Duhara Pokhar Dih'
Tak.

Schedule XLV-Form No. 134

M/R

MAHAR

DIVISION

TANDATA **SUB-DIVISION**

cont. serial no. 9955060950

MEASUREMENT BOOK

595

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 - Chand sarai to Bichouli mahadalit toler wa mahisour mahadalit toler dahara pokhar dih tak.					
Agency: - Arvind Kumar.					
Agreement no: - 07/MBO/19-20					
Date of term: - 06/03/20					
Date of comp: - 05/12/20					

Re-load entry

Date of entry: - 13/11/20

Item no ① Clearing and grubbing road land - etc.

$$2 \times 100 \times 30 \times \frac{(0.95 + 1.05)}{2} / 10000 \text{ hect}$$

$$= 0.600 \text{ hect}$$

Date of entry: - 17/11/20

Item no ② providing and applying tack mat with bitumen emulsion

(RS-1) - etc.

$$18 \times 2.10 \times 2.50 = 94.50 \text{ sqm}$$

$$10 \times 2.20 \times 1.85 = 40.70 \text{ sqm}$$

$$9 \times 1.50 \times 1.25 = 16.87 \text{ sqm}$$

$$12 \times 1.75 \times 1.60 = 33.60 \text{ sqm}$$

$$40 \times 0.90 \times 0.75 = 27.00 \text{ sqm}$$

$$10 \times 3.0 \times 2.10 = 63.00 \text{ sqm}$$

$$17 \times 2.80 \times 2.25 = 107.10 \text{ sqm}$$

$$18 \times 2.20 \times 2.60 = 102.96 \text{ sqm}$$

$$10 \times 3.15 \times 2.60 = 81.90 \text{ sqm}$$

$$\text{Total} = 567.63 \text{ sqm} / \text{limited} = 562.50 \text{ sqm}$$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of entry: 19/11/20					
Item no ③ providing, laying and rolling mss - etc.					
Qty same as item no ② on p-01					
Qty = 562.50 sqm.					
Item no ④ providing and applying					
back coat with bitumen emulsion					
CRS 1) - etc.					
Bump indicator Reading Recorded on date - 03/12/20 by Machine ID-5037.					
8 found satisfactory measurement.					

Section	IRI value	Remarks
100	1146.00	G7
100	1554.00	G7
100	901.00	G7
100	983.00	G7
100	1228.00	G7
100	1636.00	G7
100	1309.00	G7
100	1064.00	G7
100	1391.00	G7
100	1799.00	G7
100	1228.00	G7
100	1554.00	G7
100	1391.00	G7
100	Continuation 1554.00	G7
100	1391.00	G7
100	1391.00	G7

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Particulars	Details of measurement				Contents of area
	No.	L.	B.	D.	
Section	IRT Value				Remarks.
100		983.00		67	
100		1228.00		67	
100		820.00		67	
100		1064.00		67	
100		1146.00		67	
100		1228.00		67	
100		1146.00		67	
100		1554.00		67	
100		1472.00		67	
100		1309.00		67	
100		1146.00		67	

100		1472.00		67	
100		1472.00		67	
100		1228.00		67	
Avg = 1292.933					
1293.00 67					

Date of entry: 03/12/20.

Item no. (4) providing and applying tack coat with bitumen emulsion

(RS-1) — — etc.

At start
0 to 500m.

$$16 \times 30 \times 3.75 = 1800.00 \text{ sqm.}$$

$$1 \times 20 \times \frac{(6.50 + 5.50 + 3.75)}{3} = 105.00 \text{ sqm.}$$

500m to 1000.00m.

$$16 \times 30 \times 3.75 = 1800.00 \text{ sqm.}$$

on turning

Continuation

$$1 \times 15.00 \times \frac{(6.90 + 5.80 + 3.75)}{3} = 82.20 \text{ sqm}$$

check 5.20m

$$\text{Total} = 3787.20 \text{ sqm}$$

A

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$B/F = 3787.20 \text{ sqm.}$
$5 \times 3.75 = 18.75 \text{ sqm.}$					
$1000 - 2000 \text{ m.}$					
$33 \times 30 \times 3.75 = 3712.50 \text{ sqm.}$					
turning					
$1 \times 20 \text{ m} \times \frac{(7.50 + 6.50 + 3.75)}{3} = 118.32 \text{ sqm.}$					
$2010 \text{ to } 2720 \text{ m.}$					
$23 \times 30 \times 3.75 = 2587.50 \text{ sqm.}$					
turning					
$1 \times 20 \times \frac{(6.90 + 5.80 + 3.75)}{3} = 109.66 \text{ sqm.}$					
$2720 \text{ m to } 3000 \text{ m.}$					
$9 \times 30 \times 3.75 = 1012.50 \text{ sqm.}$					
$1 \times 10 \times 3.75 = 37.50 \text{ sqm.}$					
					<u>Total = 11383.93 sqm.</u>

					$\text{limited} = 11,250.00 \text{ sqm.}$
Item no (5) providing and laying					
Semi-dense bituminous surface					
(SDBC) — etc.					
Qty = Qty of tack coat $\times 0.025$					
$= 11250.00 \text{ sqm} \times 0.025 \text{ m}$					
$= 281.25 \text{ cum.}$					
Item no (6) R.C. mis grade Kilometer					
Stone — etc.					
					$\text{Qty} = 4.0 \text{ m.}$
Item no (7) 200 m Stone — etc.					
					$\text{Qty} = 12.0 \text{ m.}$
Item no (8) Direction and place					
identification sign with size — etc.					

Continuation

$$2 \times 1.20 \times 0.80 = 1.92 \text{ sqm.}$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (9) providing and laying of electro-reflectors — etc.					
9 (I) 600mm equilateral triangles — etc.					
					Qty = 10.00 no.
9 (II) 600mm circular — etc.					
					Qty = 8.00 no.
9 (III) 600mm x 450mm rectangular					
					Qty = 10.00 no.
Item no (10) providing and laying of road marking with hot applied thermoplastic compound — etc.					
					$2 \times 100 \times 30 \times 0.100 = 600.00 \text{ Sqm}$
Item no (11) providing and laying logs of maintenance project — etc.					
					Qty = 4.00 no.
Item no (12) B/W in 1m (1.3) m parapet (wall protection) — etc.					
5 x 2 x 6.00 x					
					$5 \times 2 \times 6.00 \times 0.40 \times 0.60 = 14.40 \text{ cum}$
Item no (13) plastering with C.M (1:4) — etc.					
					$5 \times 4.00 \times 6.00 \times 0.60 = 72.00 \text{ Sqm}$
					$5 \times 2.00 \times 6.00 \times 0.40 = 24.00 \text{ Sqm}$
					$5 \times 4.00 \times 0.40 \times 0.60 = 4.80 \text{ Sqm}$
					Total = 109.80 Sqm
Item no (14) painting two coats including primer coat continuation,					
					$5 \times 4.00 \times 4.00 \times 0.60 = 48.00 \text{ Sqm}$
					$5 \times 2 \times 4.00 \times 6.00 = 240.00 \text{ Sqm}$
					$5 \times 4 \times 0.40 \times 0.60 = 4.80 \text{ Sqm}$
					<u>292.80 Sqm</u>

~~$$234 \times 30 \times \frac{(0.80 + 0.70)}{2} \times 0.30 = 459.04 \text{ kNm}$$~~

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item no ① clearing and grubbing road level — etc.	52				
vide item no ① on p-①.					
Qty = 0.600 haat @ Rs. 49496.70/haat					
					= Rs. 29698.00
item no ② providing and applying tack coat — etc.	54				
vide item no ② on p-①.					
Qty = 562.50 sqm @ Rs. 1346/sqm					
					= Rs. 7852.00
item no ③ providing laying and sealing mss — etc.	55				
vide item no ③ on p-②.					
Qty = 562.50 sqm @ Rs. 207.220/sqm					
					= Rs. 116561.00
item no ④ providing and applying tack coat — etc.	56				
vide item no ④ on p-③, ④.					
Qty = 11250.00 sqm @ Rs. 1171/sqm					
					= Rs. 131738.00
item no ⑤ providing and laying semi-dense bitumen — etc.	57				
vide item no ⑤ on p-④.					
Qty = 281.25 cum @ Rs. 10068.86/cum					
					= Rs. 28,31,867.00

Continuation

Total = 31,17,716.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (6) Ric mis grade km stone etc. vide item no (6) on p-4	58				
Qty = 4.00 no @ R. 2193.47/each					
					= R. 87734.00
Item no (7) 200mm Stone etc.	59				
Qty = 12.00 no					
vide item no (7) on p-4					
Qty = 12.00 no @ R. 599.40/each					
					= R. 7193.00
Item no (8) Direction and place identification sign etc.	60				
vide item no (8) on p-4					
Qty = 1.92 sqm @ R. 12296.13/sqm					
					= R. 23609.00
Item no (9) Providing and fixing of 600mm equilateral triangle etc vide item no (9) on p-5	61				
Qty = 10.00 no @ R. 3612.85/each					
					= R. 36128.00
Item no (10) 600mm circular etc.	62				
vide item no (10) on p-5					
Qty = 8.00 no @ R. 3712.20/each					
					= R. 29698.00
Total = R. 52,23,078.00					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① ① 600 mm x 450 mm rectangular 63 etc.					
vide item no ① ① on p-5.					
Qty = 10 cms @ Rs 3583.08/each					
					= Rs 35831.00
Item no ① painting and lacquing 63 Road marking etc.					
vide item no ① on p-5.					
Qty = 600 sq cms @ Rs 735.40/sqm					
					= Rs 441240.00
Item no ① painting and lacquing 63					
Logo of maintenance project - etc.					
vide item no ① on p-5.					
Qty = 4 cms @ Rs 9254.01/each					
					= Rs 37016.00
Item no ① Blue iron (1.3) m parapet 67 or protection wall - etc.					
vide item no ① on p-5.					
Qty = 14.40 cum @ Rs 168.45/cum					
					= Rs 241426.00
Item no ③ cement plaster etc. 68					
vide item no ③ on p-5.					
Qty = 102.80 sqm @ Rs 154.71/sqm					
					= Rs 15595.00
Item no ④ painting two coat etc. 69					
vide item no ④ on p-5.					
Qty = 272.80 sqm @ Rs 95.63/sqm					
					= 28,000.00

Total = 79,556.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (15) construction of subgrade and earthen shoulder etc.					
vide item no (13) on p - (08).					
Qty = 459.00 cum @ Rs 176.75 / cum					
					Rs 81,128.00
					Total = Rs 39,36,314.00
add 14.1 wc					Rs 39,363.00
add 12.1 GST					Rs 4,72,358.00
					Rs 44,48,035.00
Less 10.1 as per agreement					Rs 4,44,804.00

Total = Rs 40,03,231.00

P
03/12/20

JE

Somf
3/12/20

AK

Jundolter

A.O.

CAF

By *Prag* 24/12/20

Limit Rs 24,01,939.00 Rs

Per Allotment

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>material statement</u>					

Voucher

① tax invoice no:- 13674 GTI 20002413

date - 05/11/20.

Bitumen (VOT-30) - 30 X 161.80

= 4854.00 kg

② tax invoice no - 13674 GTI 20002410

date - 05/11/20.

Bitumen VOT-30 - 9063.80 kg.

③ tax invoice no:- 13674 GTI 20002411

date 05/11/20.

Bitumen VOT-30 - 2265.20 kg

④ tax invoice no - 13674 GTI 20002412

date - 05/11/20 - (VOT-30) - 2265.20 kg

Continuation

Total = 18,445.20

kg

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B/F - 18445.20 kg.
⑤ Tax invoice no. -	136746720002409				
date -	05/11/20.				
Bitumen (VGT-30) -	9060.80 kg				
⑥ Tax invoice no. -	136746720001408				
date -	10/08/20.				
Bitumen VGT-30 -	4854.00 kg				
Total =	32360.00 kg				
⑦ Tax invoice no. -	136746720000				
date -	06/06/20				- 839
VGT-30 -	5339.40 kg				
Total (VGT-30) =	37699.40 kg.				
consume. qty -	32450.62 kg				
Balance. qty =	5248.78 kg				
⑧ Bitumen VGT-10 -	1132.60 kg				
consume. qty =	1068.75 kg				
Balance. -	63.85 kg				
⑧ invoice no. -	FY2021M2301M2379				
date -	05/11/20.				
① Bitumen emulsion (RS-1)	-3000.00 kg				
consume. qty -	2685.93 kg				
Balance =	314.07 kg				
⑧ Bitumen emulsion					
(SS-9) Continuation	qty = 1000.00 kg				

03/12/20
7E