

N.H. 103 Chakfateh ke Near Ex. MLA Bhogdev
Singh Yogi se Chakfateh Khopi Main Road Jandaha lok.

Measurement Book - 597

Schedule XLV-Form No. 134

MAHNAIR

DIVISION

JANDAHA

SUB-DIVISION

COM ARVIND RR 9955060850

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:-					NH-103 Chakkateh
Ke. mone. Ex. MIA Bhagdev Singh					
yogi se. chakkateh Khopi main					
excess land area etc.					
Agency:-					Aswini Kumar
Agreement no.:-					07/M.B.D/19-20
Date of comm:-					06/03/20
Date of comp:-					05/12/20

Length of road:-	3.90 km
Repaired on	...

Item no (1) Clearing and grubbing road land - etc.	
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$$2 \times 130 \times 1.00 / 10000 \text{ hect} = 0.78 \text{ hect}$$

Item no (2) Construction of granular sub-base - etc.	
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CSB 57-II	
11 mo x 0.80 x 1.40 x 0.100 = 1.232 cum	
19 mo x 1.60 x 1.30 x 0.100 = 3.95 cum	
25 mo x 1.50 x 1.20 x 0.095 = 4.27 cum	
21 mo x 2.30 x 1.40 x 0.100 = 6.76 cum	
23 mo x 3.10 x 1.50 x 0.100 = 10.695 cum	
15 mo x 4.60 x 3.10 x 0.100 = 21.39 cum	

Continuation

Total = 48.297 cum

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B/F - 48.297 cum
18 mo x 3	60	2.40	0.075		= 14.77 cum
17 mo x 3	20	2.60	0.100		= 14.14 cum
40 mo x 2.70	1.60	0.075			= 16.416 cum
18 mo x 1.50	1.20	0.075			= 3.078 cum
					Total = 96.70 cum
Item no (3) providing, laying					
WBM or II materials - etc.					
11 mo x 0.85	1.45	0.075			= 1.02 cum
19 mo x 1.62	1.33	0.075			= 3.07 cum
25 mo x 1.52	1.25	0.075			= 3.56 cum
21 mo x 2.32	1.42	0.075			= 5.18 cum
23 mo x 1.65	3.11	0.075			= 8.85 cum
15 mo x 4.62	3.16	0.075			= 16.42 cum
18 mo x 3.62	2.43	0.075			= 11.87 cum
17 mo x 3.22	2.61	0.075			= 10.71 cum
40 mo x 2.71	1.61	0.075			= 13.08 cum
18 mo x 1.51	1.21	0.075			= 2.46 cum
2 mo x 0.80	0.90	0.075			= 0.108 cum
8 mo x 0.60	0.40	0.075			= 0.14 cum
9 mo x 0.50	0.60	0.075			= 0.20 cum
					Total = 76.668 cum
					Limited qty = 67.30 cum
Item no (4) providing, laying and					
compacting WBM or II materials					
- etc.					
09 mo x 0.90	1.60	0.075			= 0.972 cum
21 mo x 1.62	1.40	0.075			= 3.92 cum
45 mo x 2.80	1.62	0.075			= 15.30 cum
					Total = 19.894 cum

Particulars	Details of measurement				Contents of area
	No.	L.	B.	D.	
					B/F - 19.82 cum
	21 no	3.50	2.40	0.075	13.23 cum
	8 no	4.20	2.60	0.075	6.55 cum
	18 no	3.62	9.80	0.075	13.68 cum
	18 no	3.02	2.69	0.075	10.98 cum
	19 no	1.90	1.40	0.075	3.79 cum
	25 no	1.40	16.20	0.075	4.25 cum
	15 no	4.85	3.90	0.075	17.46 cum
	23 no	1.80	3.95	0.075	10.09 cum
	8 no	0.90	2.60	0.075	0.324 cum
	11 no	0.90	1.50	0.075	1.11 cum
	2 no	0.80	1.10	0.075	0.132 cum
	9 no	0.60	0.70	0.075	0.28 cum
					Total = 102.116 cum
					Limited = 101.723 cum
					16/08/20 JE
Item no 5 providing and applying prime coat with bitumen emulsion (SS-1) - etc.					
					Qty = $\frac{\text{Qty of w. B.M. on III above}}{0.075}$
					Qty = $\frac{101.723 \text{ cum}}{0.075} = 1356.309 \text{ gm}$
Item no 6 providing and applying tack coat with bitumen emulsion RS-1 - etc.					
					Qty same as item no 5 on above
					Qty = 1356.308 cum

Continuation

(9)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>on pcc Sur. level</u>					
11m x 5.10 x 2.30					= 129.03 Sqm
3m x 1.80 x 2.60					= 14.04 Sqm
9m x 1.20 x 1.40					= 15.12 Sqm
15m x 1.60 x 1.80					= 43.20 Sqm
13m x 1.50 x 1.20					= 23.40 Sqm
09m x 1.10 x 2.05					= 20.29 Sqm
5m x 1.60 x 1.30					= 10.40 Sqm
11m x 0.90 x 1.30					= 12.87 Sqm
					Total = 268.35 Sqm
Total qty (a) + (b)					(b)
					= 1624.65 Sqm

Item no (7) providing, laying
MSS over WBM — etc.
Qty same as item no (6) comp-3p
Qty = 1624.65 Sqm.

Bump indicator reading recorded
on date 31/08/20 by STECO-077
and found satisfactory result.
SECTION IRE value Remarks.
(mm/Km)

100	975.00	
100	777.00	
100	975.00	
100	1173.00	
100	1074.00	
100	1371.00	

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Section</u>	<u>TRI Value</u>				<u>Remarks</u>
		(mm/mm)			
100		975.00		G7	
100		1173.00		G7	
100		678.00		G7	
100		579.00		G7	
100		975.00		G7	
100		1272.00		G7	
100		975.00		G7	
100		876.00		G7	
100		975.00		G7	
100				e	
100		1074.00		G7	
100		678.00		G7	
100		777		G7	
100		1173		G7	
100		975		G7	
100		1074		G7	
100		777		G7	
100		480		G7	
100		777		G7	
100		777		G7	
100		975		G7	
100		1173		G7	
100		1272		G7	
100		876		G7	
100		876		G7	
100		975		G7	
100		876		G7	
100		1272		G7	
100		975		G7	
100		876		G7	
100		1272		G7	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Section	I.R.I. value mm/km				Remarks
100		1272		67	
100		1074		67	
100		1074		67	
100		975		67	
100		975		67	
100		1074		67	
17.00				67	
0.0720		1149		67	
Average = Total sum of I.R.I. value no of reading.					
= $\frac{39273.00}{40} = 981.825$ mm/km					

Date of entry: - 3/08/20.
 Item no(8) providing and
 applying tack coat with bitumen
 emulsion (RS-1) etc.

on start:-
 0 to 1700m.

$$56 \times 30 \times 3.75 = 6300.00 \text{ sqm}$$

on turning (1700m to 2320m)

$$1 \times 20 \times (3.75 + 4.20 + 3.8 + 6.50 + 4.40) = 90.60 \text{ sqm}$$

1700m to 2320.0m

$$20 \times 30 \times 3.75 = 2250.00 \text{ sqm}$$

on turning:

$$1 \times 20.0m (3.75 + 4.20 + 3.80 + 5.20 + 3.90) = 83.40 \text{ sqm}$$

2320m to 2500.0m

$$06 \times 30 \times 3.75 = 675.00 \text{ sqm}$$

Continuation

on turning:

$$10 \times (3.75 + 3.80 + 3.90 + 4.90) = 40.80 \text{ sqm}$$

$$\text{Total} = 9439.80 \text{ sqm}$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
251000 to 271500					B/F' - 9,439.83 sq.m
06 X 30.00 X 3.75					= 675.00 sq.m
1 X 10.00 X 3.75					= 37.50 sq.m
on turning.					
15 X (3.75 + 4.20 + 4.30 + 6.90 + 4.20 / 2) = 67.65					sq.m
271500 to 312000					
13.00 X 30.00 X 3.75					= 1462.50 sq.m
on turning.					
1 X 15 (3.75 + 4.10 + 4.90 + 6.50 + 4.80 / 2) = 69.45					sq.m
312000 to 361500					
16 X 30.00 X 3.75					= 1800.00 sq.m
on turning					
15 X (3.75 + 3.90 + 4.60 + 6.10 + 3.75) = 66.30					sq.m
361500 to 391000					
09 X 30.00 X 3.75					= 1012.50 sq.m
01 X 10.00 X 3.75					= 37.50 sq.m
end point					
15m (4.00 + 3.40 + 9.00 + 15.00) = 125.25					
					Total qty = 14793.45 sq.m
					Limited qty = 14625.00 sq.m
Item no ⑦ Construction of					
Item no ⑧ providing and laying					
Semi dense bituminous concrete					
— — etc. width item no ⑧ 0-6.27.					
					Qty = 14625.00 sq.m
					Qty = 14625.00 sq.m X 0.025 m
					= 365.625 cum

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no ⑩ Construction of subgrade and earthen shoulder etc.					
	2x30x30	$\frac{0.76+0.65}{2}$	$\frac{0.92+0.78}{2}$		444.15 cum
	2x26x30	$\frac{0.65+0.70}{2}$	$\frac{0.35+0.20}{2}$		289.57 cum
	2x20x30	$\frac{0.55+0.60}{2}$	$\frac{0.25+0.20}{2}$		189.75 cum
	2x20x	$\frac{0.20+0.10}{2}$	$\frac{0.10+0.20}{2}$		0.90 cum
	2x6x30	$\frac{0.70+0.80}{2}$	$\frac{0.36+0.35}{2}$		95.85 cum
	2x10x30	$\frac{0.60+0.66}{2}$	$\frac{0.25+0.30}{2}$		103.95 cum
	2x2x50	$\frac{0.20+0.30}{2}$	x0.25		12.50
	2x30x30	$\frac{0.70+0.68}{2}$	x0.30		372.60 cum
	2x4x30	$\frac{0.30+0.10}{2}$	x0.15		7.20 cum
					Total = 1516.47 cum
Item no ⑪ Drilling grade km					
Stone etc.					Qty = 5.0 m³
⑪⑪ 200mm Stone etc.					Qty = 16.0 m³
Item no ⑫ Dissection and place identification signs etc.					
	2x1.20x0.80				1.92 sqm

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (13) providing and fixing of recto-rectilinear cautionary board — etc.					
(13) 600mm equilateral triangle — etc.					Qty = 12.00 mo.
(13) 600mm circular — etc.					Qty = 8.00 mo.
(13) 600mm x 450mm rectangular — etc.					Qty = 12.00 mo.
Item no (14) providing and laying					
Road marking with hot applied thermoplastic compound — etc.					
2 x 130 x 30 x 0.100 = 780.00 gmm.					
Item no (15) providing and fixing 'logo' of maintenance project — etc.					
					Qty = 3+1 = 4.0 mo.
Item no (16) planting of trees and by the road side — etc.					
3800/20 = 190.00 mo.					
$\frac{P}{2109/20}$ JE					2.00 mo. $\frac{2109}{20}$ AK

Continuation

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (1) / (1) laying and grubbing second layer — etc.					
vide item no (1) on p - (1)					
Qty = 0.78 hect @ Rs. 19496.70/hect					
					= Rs. 38,607.00
Item no (2) / (2) construction of CRSB in IT materials — etc.					
vide item no (2) on p - (1), (2)					
Qty = 96.70/cum @ Rs. 2112.13/cum					
					= Rs. 2,04,243.00
Item no (3) / (3) providing and					
laying WBM in IT materials — etc.					
vide item no (3) on p - (2)					
Qty = 67.302 cum @ Rs. 3228.79/cum					
					= Rs. 2,17,904.00
					Rs. 2,57,685.00
Item no (4) / (4) providing, laying and compacting WBM in IT materials — etc.					
vide item no (4) on p - (2) & (3)					
Qty = 101.72 cum @ Rs. 3537.08/cum					
					= Rs. 3,59,802.00
Item no (5) / (5) providing and applying prime coat with bitumen emulsion (SS-1) — etc.					
vide item no (5) on p - (3)					
Qty = 1356.30 sqm @ Rs. 41.18/sqm					
					= Rs. 55,852.00
					Total Rs. 8,75,808.00
					Rs. 9,16,189.00

B/F - Rs. 9,16,189.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B/F - Rs. 8,75,808.00
Item no (8) Provide and applying tack coat with bitumen emulsion					
Rs-1					etc.
Vide item no (6) on p-384					
Qty - 1624.65 sqm @ Rs. 13.97/sqm					
					= Rs. 22,696.00
Item no (7) Provide and applying					
with mss over WBM					etc.
Vide item no (2) on p-4					
Qty - 1624.65 sqm @ Rs. 211.97/sqm					
					= Rs. 344,280.00
Item no (8) Provide and applying tack coat					etc.
Vide item no (2) on p-4					
Qty - 1625.00 sqm @ Rs. 11.71/sqm					
					= Rs. 171259.00
Item no (9) Provide and applying					
SDBC					etc.
Vide item no (9) on p-4					
Qty - 365.625 cum @ Rs. 10317.72/cum					
					= Rs. 3772,416.00
Item no (10) Construction of subgrade and earth shoulder					etc.
Vide item no (10) on p-4					
Qty - 1516.47 cum @ Rs. 176.75/cum					
					= Rs. 268,036.00
Continuation					
Total = Rs. 54,94,696.00					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B/F - Rs. 54,94,876.00					
Item no (11) / (8) Rec m/c gravel					
Km stone - etc.					
vide item no (11) cm p - (8)					
Qty = 5.00 @ Rs. 2197.05/each					
(11) / (8) 200mm stone - etc.					
vide item no (11) cm p - (8)					
Qty = 16.00 @ Rs. 601.82/each					
- Rs. 9629.00					
Item no (12) / (9) Direction and					
place identification sign					
board - etc. vide item no (12)					
cm p - (8)					
Qty = 1.92 sqm @ Rs. 12304.61/sqm					
= Rs. 23,625.00					
Item no (13) / (10) 600mm equilateral					
triangle - etc.					
vide item no (13) cm p - (9)					
Qty = 12.00 @ Rs. 3619.21/each					
= Rs. 43430.00					
(13) / (11) 600mm circular board - etc					
vide item no (13) cm p - (9)					
Qty = 8.00 @ Rs. 3718.56/each					
= Rs. 29748.00					
(12) / (12) 600mm x 450mm rectangular					
board - etc. vide item no (13) cm p - (9)					
Continuation					
Qty = 12.00 @ Rs. 3589.44/each					
= Rs. 43073.00					
Total = Rs. 55,366.00 / Total = Rs. 55,14,985.00					

B/F - Rs. 56,55,366.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (12) Re-siding and laying Roof marking with hot applied thermo plastic compound etc. wide item no (14) on p-09. Qty = 780.00 sqm @ Rs. 735.40/sqm = Rs. 5,73,612.00 Item no (15) AS Re-siding and finishing masonry intermediate 2 intermediate board etc. wide item no (16) on p-09.					
Qty = 4.0 no @ Rs. 9266.74/each = Rs. 37,067.00 Item no (17) plastering of doors by the external side. etc. wide item no (18) on p-09. Qty = 190.00 @ Rs. 800.30/each = Rs. 1,52,057.00 Total = Rs. 63,77,921.00 Total = Rs. 64,18,102.00 Add 1% L.C.S. — Rs. 64,181.00 Add 12% GST — Rs. 770,172.00 Total = Rs. 72,52,455					
Continuation					

material statement

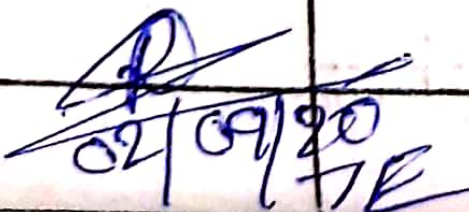
① E/W : - 1516.47 cum
② Stone metal : - 278.44 cum
③ Local sand : - 49.51 cum
④ Stone screening - 42.36 cum
⑤ Stone crushed aggregate : - 43.86 cum
⑥ crushed aggregate : -
⑦ 9.5mm to 4.75mm - 704.56 cum
⑧ Below 4.75mm - 214.37 cum
⑨ filler - 1616.00 kg
⑩ prime coat : - Bitumen
emulsion (SS-1) : - 1153.00 kg
⑪ Tack coat (RS-1) : - 3738.00 kg
⑫ Bitumen (S-90) - 3087.00 kg
Continuation
⑬ Bitumen (S-65/70) - 42186.00 kg

Continuation

~~2/09/20~~

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Sch. XLV-Form NO. 154					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Voucher</u>					
① Invoice no. - 13674 GIL 20000840					
date: - 06/06/20.					
Bitumen VGT-30 - 9060.80 kg.					
② Invoice no. - 13674 GIL 20000843.					
date: - 06/06/20.					
BITUMEN VGT-30 - 9060.80 kg.					
③ Invoice no. - 13674 GIL 20000842.					
date: 06/06/20.					
Bitumen VGT-30 - 9060.80 kg.					
④ Invoice no. - 13674 GIL 20000841					
date: - 06/06/20.					
Bitumen VGT-30 - 9060.80 kg.					
⑤ Invoice no. - 13674 GIL 20000844					
date: 06/06/20.					
Bitumen VGT-30 - 9060.80 kg.					
⑥ Invoice no. - 13674 GIL 20000845					
date: - 06/06/20.					
⑦ VGT-30 - 3397.80 kg.					
⑧ VGT-10 - 3236.00 kg.					
Total Bitumen - 48701.80 kg.					
(VGT-30)					
Combustible Ste - 42186.00 kg.					
Balance = 6515.80 kg.					
Total VGT-10 - 3236.00 kg.					
Consumed = 3087.00 kg.					
Continuation					
Balance: - 149.00 kg.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(V1) invoice no:- FY2021M2301MO -701 date 12/06/20.					
① Bitumen emulsion (RS-1) Qty - 4200 kg consume Qty: - 3738.00 kg Balance: - 462.00 kg					
② Bitumen emulsion (SS-1) Qty = 1200 kg consume Qty: - 1153.00 kg Balance: - 47.00 kg					
 02/09/20 TE					