

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 - constn of Mainline					
work from Package No. - MR					
N/2019-20 Darbhanga-02/04					
Name of Road - Badlipur to Jaitwga.					
Agmt. No. - 68/MBD/2020-21					
(MR-30th 7/3/2020)					
(ITE-2018)					
Name of Agency - M/S S. K. constn & Co.					
At - Raibani (Darbhanga)					

Date of Start - 23.7.2020.					
Time of completion - 22.7.2021.					
Actual date of completion - 23.03.2021					
Work done -					
① clearing & grubbing of Rd. land					
= 1200.00					
$2 \times 20 \times 30 \text{ m} \times 1 \text{ m} (\text{cm}) = 1200.00 \text{ m}^2$					
$2 \times 20 \times 30 \text{ m} \times 1 \text{ m} (\text{m}) = 1200.00$					
$2 \times 6 \times 30 \text{ m} \times 1 \text{ m} (\text{m}) = 360.00$					
$2 \times 20 \text{ m} \times 1 \text{ m} (\text{m}) = 40.00$					
$\Rightarrow 2800.00$					
$\Rightarrow 0.28 \text{ Hct.}$					
4.10.2020 Continuation					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2) Contn. of G.S.B. with well gravel mate. gr-I.					
Patch Area (Im Bf. position)					
35th Km					
5 x 5m x 1.30m = 32.50m ²					
4 x 5m x 1.90m = 38.00m ²					
6 x 5m x 2.20m = 66.00m ²					
4 x 3m x 1.70m = 20.40m ²					
5 x 4m x 1.50m = 30.00m ²					
3 x 3m x 1.80m = 16.20m ²					
5 x 5m x 1.80m = 45.00m ²					
5 x 4m x 1.60m = 32.00m ²					
2 x 3m x 1.20m = 7.20m ²					

2nd. Km

3	4m	1.20m			20.40m ²
4	4m	2.10m			33.60m ²
4	3m	1.60m			19.20m ²
2	3m	1.40m			8.40m ²
4	4m	1.90m			17.20m ²
3	2.50m	1.50m			11.25m ²
					5799.35m ²
					10.10m ² = 37.93m ²

(3) Par. in Area B/W (1:3)

Parapet walls of CD works (2 Nos.)					
2 Nos x 2 x 6.20m x 0.4m x 0.60m					

Continuation

⇒ 5.952m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Pro. S. Laying, spreading WBS7 Gravel					
Patch Area (In B.S. position)					
34 1/2 m. 4 x 4 m x 1.50 m = 24.00 m ²					
4 x 5 m x 1.80 m = 36.00 m ²					
5 x 3 m x 1.60 m = 24.00 m ²					
5 x 4 m x 1.80 m = 36.00 m ²					
6 x 5 m x 1.50 m = 30.00 m ²					
5 x 6 m x 1.40 m = 42.00 m ²					
4 x 6 m x 1.50 m = 36.00 m ²					
6 x 5 m x 1.40 m = 42.00 m ²					
6 x 5 m x 1.60 m = 30.00 m ²					
5 x 5 m x 1.35 m = 43.75 m ²					
6 x 6 m x 2.20 m = 79.20 m ²					
3 x 4 m x 1.80 m = 21.60 m ²					
2 x 2 m x 1.50 m = 6.00 m ²					
2nd km					
5 x 5 m x 1.50 m = 37.50 m ²					
4 x 4 m x 1.50 m = 24.00 m ²					
5 x 4 m x 1.30 m = 26.00 m ²					
3 x 4 m x 1.45 m = 17.40 m ²					
4 x 3 m x 1.25 m = 15.00 m ²					
5 x 4 m x 1.60 m = 32.00 m ²					
4 x 4 m x 1.50 m = 24.00 m ²					
3 x 2 m x 1.80 m = 10.80 m ²					
					→ 639.25 m ²
					→ 47.94 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) constn. of sub-grade & earthen shoulders with a pp. rate obtained from borrow pits over the flats					See 1000 m.

$$2 \times 5 \times 30 \text{ m} \times 0.75 \text{ m} \times 0.30 \text{ m} = 67.50 \text{ m}^3$$

$$2 \times 15 \times 30 \text{ m} \times 1.125 \text{ m} \times 0.30 \text{ m} = 303.75 \text{ m}^3$$

$$2 \times 15 \times 30 \text{ m} \times 1.125 \text{ m} \times 0.30 \text{ m} = 303.75 \text{ m}^3$$

$$2 \times 10 \times 30 \text{ m} \times 1.10 \text{ m} \times 0.30 \text{ m} = 198.00 \text{ m}^3$$

$$2 \times 5 \times 30 \text{ m} \times 1.00 \text{ m} \times 0.30 \text{ m} = 90.00 \text{ m}^3$$

$$\Rightarrow 963.00 \text{ m}^3$$

Munir
12.11.2020

(6) Paving with (C.M. 1:4) on B.H.W.

Parapet walls

$$\text{Side faces} = 2 \times 10 \times 4 \times 6.20 \times 0.60 \text{ m} = 29.76 \text{ m}^2$$

$$\text{Tops} = 2 \times 10 \times 2 \times 6.20 \times 0.40 \text{ m} = 9.92 \text{ m}^2$$

$$\text{Front faces} = 2 \times 10 \times 4 \times 0.40 \times 0.60 \text{ m} = 1.92 \text{ m}^2$$

$$\Rightarrow 41.60 \text{ m}^2$$

(7) Paving two coats including primer coats

$$\text{Qty. approx.} = 41.60 \text{ m}^2$$

(8) Pro. & sup. of R.C.C. over K.M. stones (precast)

2 nos.

(9) Pro. & sup. of R.C.C. 200 mm stones (precast)

Particulars	Details of actual measurement				Co. of area
	No.	L.	B.	D.	
(10) Pro. & Dr. of Boundary pillars/ G. Post					18 No.s
(11) Pro. & Dr. of typical logs/ Maf tree project by hand.					2 No.s
(12) Pro. & Dr. prime coat with bit. emulsion (SS-1) — over 1/10M Area.					
Qty. note it. (4) $\Rightarrow$					639.15 m ²
Done					10.3.2021

(13) Pro. & Dr. Jack coat with bit. emulsion (RS-1)					
Patch Area (5m B.T. & c. patches)					
4 x 6m x 1.90m =					45.60 m ²
5 x 7m x 1.60m =					56.00 "
6 x 5m x 2.10m =					63.00 "
7 x 4m x 1.80m =					50.40 "
8 x 5m x 1.20m =					48.00 "
4 x 10m x 0.90m =					36.00 "
4 x 6m x 1.75m =					42.00 "
6 x 5m x 1.50m =					45.00 "
8 x 3m x 1.90m =					45.60 "
5 x 7m x 1.20m =					59.50 "
6 x 6m ^{Continuation} 1.80m =					64.80 "
10 x 3m x 1.25m =					37.50 "

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$8.1 \Rightarrow 578.80 m^2$
					$3 \times 9 m \times 2.40 m = 54.00 "$
					$2 \times 13 m \times 1.10 m = 28.60 "$
					$4 \times 8 m \times 1.75 m = 56.00 "$
					$5 \times 7 m \times 2.20 m = 77.00 "$
					$2 \times 10 m \times 0.90 m = 18.00 "$
					$\Rightarrow 827.40 m^2$
over all 8 m portion					
Qty. side ite	(4)				$\Rightarrow 639.25 "$
					$\Rightarrow 1446.65 m^2$

(14) Pro. 2 layer 20 mm thick
mix. bed surface
In patch work
Qty. side ite (13) $\Rightarrow 1446.65 m^2$

Done
12.3.2021

(15) Pro. 2 app. Jack coat with
ht. Emulsion (RS-1) - 150
from 0.00 (Bachhuw. End.)

$$1 \times 30 m \times 4.15 + 3.35 = 118.50 m^2$$

$$5 \times 30 m \times 3.35 m = 562.50 "$$

$$5 \times 30 m \times 3.35 m = 562.50 "$$

$$4 \times 30 m \times 3.35 m = 450.00 "$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F.	1693.50 m ²
$1 \times 30 \text{ m} \times 3.75 \text{ m} + 10.0 + 3.75 =$					125.00
	3				
$5 \times 30 \text{ m} \times 3.75 \text{ m} =$					562.50
$5 \times 30 \text{ m} \times 3.75 \text{ m} =$					562.50
$1 \times 30 \text{ m} \times 3.75 \text{ m} + 4.50 + 3.75 =$					120.00
	3				
$5 \times 30 \text{ m} \times 3.75 \text{ m} =$					562.50
$5 \times 30 \text{ m} \times 3.75 \text{ m} =$					562.50
$5 \times 30 \text{ m} \times 3.75 \text{ m} =$					562.50
$4 \times 30 \text{ m} \times 3.75 \text{ m} =$					450.00
$4 \times 30 \text{ m} \times 3.75 \text{ m} =$					450.00

5701.00 m²

(16) Prop. & laying of DBC on
Bilateral Surface J.E.U.

over Existing B.T. 20.00 position
from 0.00 (Backhaul End)

$1 \times 30 \text{ m} \times 4.15 + 3.75 \times 0.025 \text{ m} =$					2.963
	2				
$5 \times 30 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m} =$					14.063
$5 \times 30 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m} =$					14.063
$4 \times 30 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m} =$					11.250
$1 \times 30 \text{ m} \times 3.75 \text{ m} + 10.0 + 3.75 \times 0.025 =$					4.375
$5 \times 30 \text{ m} \times 3.75 \text{ m} \times 0.025 \text{ m} =$					14.063

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. $\Rightarrow 77.8407^8$
					$5 \times 30m \times 3.75m \times 0.025m = 14.063''$
					$5 \times 30m \times 3.75m \times 0.025m = 14.063''$
					$5 \times 30m \times 3.75m \times 0.025m = 14.063''$
					$4 \times 30m \times 3.75m \times 0.025m = 11.250''$
					$4 \times 30m \times 3.75m \times 0.025m = 11.250''$
					$\Rightarrow 142.5297^8$

(17) Pro. Read Marking with hot applied thermoplastic compound on B.T. surface — data

$$2 \times 20 \times 30m \times 0.10m = 120.00m^2$$

$$2 \times 20 \times 30m \times 0.10m = 120.00''$$

$$2 \times 10 \times 30m \times 0.10m = 60.00''$$

$$\Rightarrow 300.00m^2$$

(18) Planting of trees by roadside — data

28 Nos.

(19) Pro. & No. of retro-reflect. traffic signs — data

(i) 600mm equal triangle $\Rightarrow 6$ Nos.

(ii) 600mm circular $\Rightarrow 4$ Nos.

(iii) 600mm x 450mm rectangular $\Rightarrow 4$ Nos.

(20) Pro. & No. of typical 'logo' informational (Main tree) board.

1 No.

Continuation
Date 23.3.2024

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
(1st on Alchill)					
(1/1) clearing & grubbing of Rd.					
Grubbing of Rd.					
Area of Rd. = 0.19 Hect.					
Cost of Rd. = 14317/-					
(2/2) constn. of sub-grade & earth shoulders with app. material from borrow pits -					
Area 1000 m.					
Area of Rd. = 963.0 m ²					
Cost of Rd. = 170316/-					
(3/3) constn. of G.S.B. with well graded mate. for I.					
Area of Rd. = 39.93 m ²					
Cost of Rd. = 104732/-					
(4/4) Road laying, spreading & comp. of G.S.B. -					
Area of Rd. = 47.94 m ²					
Cost of Rd. = 157112/-					
(5/5) Road & app. prime coat with bit. emulsion (SS-1) -					
Area of Rd. = 639.25 m ²					
Cost of Rd. = 26116/-					
Continuation of					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	

13.4.21 72593
 6/6 Pro. & sup. Jack coat with
 bit. cementation (R.S-1) —

Stip. vol. $p = 0.60 \text{ m}^3 = 1446.65 \text{ m}^3$

11 p = 0.7 11 = 5701.11

$\Rightarrow 7147.65 \text{ m}^3$

4 m. to do $\Rightarrow 3111.663 \text{ m}^3$

@ 14-41 / $\text{m}^2 = 102479$

7/7 Pro. & laying 20 m m thick L
 min. seal surfacing —

Stip. vol. $p = 0.60 \text{ m}^3 = 1446.65 \text{ m}^3$

4 m. to do $\Rightarrow 1430.413 \text{ m}^3$

@ 209-63 / $\text{m}^2 = 299857$

8/8 Pro. & laying SDBC

— 100% 100%

Stip. vol. $p = 0.80 \text{ m}^3 = 142.520 \text{ m}^3$

4 m. to do $\Rightarrow 142.036 \text{ m}^3$

@ 10589-27 / $\text{m}^2 = 1504058$

9/9 Pro. & laying of R.C.C. pad.

K.M. Stones — 100% 100%

Stip. vol. $p = 0.40 \text{ m}^3 = 2 \text{ Nos.}$

@ 2183-68 / each = 4367

10/10 Pro. & laying of R.C.C. 200 m.

Stones — 100% 100%

Stip. vol. $p = 0.40 \text{ m}^3 = 6 \text{ Nos.}$

@ 593-83 / each = 3567

Continuation

$\Rightarrow 2386917$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Def. $\rightarrow$ 2386917
(11/11) Pro. & Dir. of typical mass (MR) information sign board with logo.					
Qty. made - 05 of MR = 2 Nos					
11 11 - 08 11 = 1 No.					
					23 Nos
					@ 9137-20/each = 274125
(12/12) Pro. & Dir. of zero.					
regl. traffic signs of 600mm equl triangle					
Qty. made - 08 of MR = 6 Nos					
					@ 3208-16/each = 192495
(13/13) Pro. & Dir. of zero					
regl. traffic signs of 600mm circular					
Qty. made - 08 of MR = 4 Nos					
					@ 3391-94/- = 13568
(14/14) Pro. & Dir. of zero					
regl. traffic signs of 600mm x 450mm rectangular					
Qty. made - 08 of MR = 4 Nos					
					@ 3276-58/- = 13106

Continuation $\rightarrow$ 2460252

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/15) Paving of Boundary pillars/G. Post — — — — —					B.F. = 2460252
Qty. vol. of G. Post = 18 Nos.					
(16/16) Planting of trees & their maintenance for one year — — — — —					@ 5.08-24/- = 9148-
Qty. vol. of G. Post = 58 Nos.					
(17/17) Paving Road Markings with hot asphalt — — — — —					@ 8.18-84/- = 47493-

Common on B.F. Surface					
Qty. vol. of G. Post = 300 Nos.					
(18/18) Paving Area 11/11 (1:3) in parapet — — — — —					@ 7.35-44/m ² = 220632-
Qty. vol. of G. Post = 5.952 m ³					
(19/19) Paving with cur. (1:4) on B.F. — — — — —					@ 5.146-93/m ² = 30635-
Qty. vol. of G. Post = 41.60 m ²					
(20/20) Painting of coats with primer coat — — — — —					@ 15.9-58/m ² = 6639-
Qty. vol. of G. Post = 41.60 m ²					

Continuation
@ 9.6-99/m² = 4035-

52778834-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. $\Rightarrow 2778834 =$
Add 85% 12% ad valorem $\Rightarrow + 933460 =$					
Add Lab. cost @ 1% " " $\Rightarrow + 27788 =$					
Add Signage Fee @ 0.49% $\Rightarrow + 13616 =$					
					Total $\Rightarrow 3150229 =$
Less 0.11% below $\Rightarrow - 3469 =$					
					Net $\Rightarrow 3150229 =$
<i>Chun</i> 23.3.2021 J.E.					<i>Am</i> 23/3/21 A.E.
					<i>U.V</i> 23.03.21

Material Statement: —

(i)