

Const of Road From P.W.D Road To Shubhankari Tola.

Schedule XLV-Form No. 134
under MMHSY (GEN.)

(UNE-ENG.)

Executive Eng. to
R. W. D. (W) Division

DIVISION

Darbhanga - 2

Ag. No: → 64/S.B.D/2021-2022

Manigachhi

SUB-DIVISION

Ag. Amount B: → 28,51,368 = ∞

MEASUREMENT BOOK

1127

ASHOK KUMAR.

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work:—	confm	with	Maintnce		
	of work	from	PWD Rd. do		
	shubhankri	dola	in	maingachhi	
	block.				
Name of Agency:—	Ashok Kumar				
	At-Deoria, P.O.—	Thengha,	Sakalpa		
	Dhdt—	Darbhanga.			
Agmt. No.—	64/BB/2021-22				
	(MMSY-Gen).				

Agmt value ₹ 2851368-00

Date of work start—01.11.2021.

Time of compl—01.5.2022.

Actual date of compl—01.5.2022

Work done:—

① confm. of ref. pillars/bayages
 of Rd.

Info.

② clearing & grubbing of Rd. from
 of Rd.

$$6 \times 30 \text{ m} \times 3.60 \text{ m (av)} = 630.00 \text{ m}^2$$

$$6 \times 30 \text{ m} \times 3.60 \text{ m (av)} = 630.00 \text{ m}^2$$

$$\Rightarrow 1260.00 \text{ m}^2$$

$$\Rightarrow 0.126 \text{ Hect}$$

02.01.22
 G.E. Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Contn. of embankment with material obtained from borrow pits					of B.R.
chainage - (M)	Dist. (M)	Area (M ²)	Dist. (M)	Area (M ²)	
0+00	1.67				
50	1.60	-1.635	50	81.25	
100	1.47	-1.535	50	76.25	
150	1.44	-1.455	50	72.25	
200	1.84	-1.64	50	82.00	
250	0.78	-1.37	50	65.50	
300	0.67	-0.725	50	36.25	
					415.00

(i) from 100 up to 1000 m
 $\Rightarrow 30\%$ of 415.00 m² $\Rightarrow 124.50$ m²

(ii) from 100 up to 100 m.
 $\Rightarrow 70\%$ of 415.00 m² $\Rightarrow 290.50$ m²

Sum
 16.01.22
 0.5

④ Excavation of Rd. work in soil of B.R.

2 x 5 x 30 m x 0.50 m x 0.10 m = 15.00 m³

2 x 2 x 30 m x 0.45 m x 0.10 m = 6.40 m³

2 x 2 x 30 m x 0.60 m x 0.10 m = 7.20 m³

2 x 30 m x 0.50 m x 0.10 m = 3.00 m³

2 x 2.5 m x 0.60 m x 0.10 m = 3.00 m³

$\Rightarrow 33.60$ m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
② Contn. of G.S.B. with wall					
grade mate. g.s.b.					
In Box					
$2 \times 5 \times 30m \times 0.50m \times 0.10m = 15.0m^3$					
$2 \times 2 \times 30m \times 0.45m \times 0.10m = 5.40m^3$					
$2 \times 2 \times 30m \times 0.60m \times 0.10m = 7.20m^3$					
$2 \times 30m \times 0.50m \times 0.10m = 3.00m^3$					
$2 \times 25m \times 0.60m \times 0.10m = 3.00m^3$					
					$\Rightarrow 33.60m^3$
In levelling / Profile correction					$11.00m^3$
(it's can't measure)					/
					$\Rightarrow 44.60m^3$

⑥ Pro. & laying & spreading W.B.M					
Box 11					
from 0.00					
$15m \times 4.00 + 3.50 \times 0.075m = 4.22m^3$					
$15m \times 3.80 + 3.80 \times 0.075m = 4.11m^3$					
$15m \times 3.80 + 4.50 \times 0.075m = 4.62m^3$					
$15m \times 4.00 + 6.50 + 3.25 \times 0.075 = 5.53m^3$					
$15m \times 3.85 + 3.25 \times 0.075m = 3.94m^3$					
$15m \times 3.25 + 3.25 \times 0.075m = 3.94m^3$					
$15m \times 3.25 + 3.50 \times 0.075m = 4.08m^3$					
$15m \times 3.50 + 3.00 \times 0.075m = 3.66m^3$					
$15m \times 3.00 + 3.40 \times 0.075m = 3.60m^3$					
$15m \times 3.40 + 4.00 \times 0.075m = 4.16m^3$					
					$\Rightarrow 41.91m^3$
					C.O.

27.3.22 Continuation
6.8

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ constn. of unconfined plain cement concrete pavement (M30)					
from 0.00					
$15M \times 4.0 + 3.50 \times \frac{0.160M}{2}$					$9.10M^3$
$15M \times 3.50 + 3.80 \times \frac{0.160M}{2}$					$8.76M^3$
$15M \times 3.80 + 4.50 \times \frac{0.160M}{2}$					$9.96M^3$
$15M \times 4.50 + 6.50 + 3.75 \times \frac{0.160M}{2}$					$11.80M^3$
$15M \times 3.75 + 3.25 \times \frac{0.160M}{2}$					$8.40M^3$
$15M \times 3.25 + 3.25 \times \frac{0.160M}{2}$					$8.40M^3$
$15M \times 3.25 + 3.00 \times \frac{0.160M}{2}$					$8.20M^3$
$15M \times 3.00 + 3.40 \times \frac{0.160M}{2}$					$7.68M^3$
$15M \times 3.40 + 4.0 \times \frac{0.160M}{2}$					$8.88M^3$
$15M \times 4.0 + 3.30 \times \frac{0.160M}{2}$					$8.76M^3$
$15M \times 3.30 + 2.20 \times \frac{0.160M}{2}$					$7.20M^3$
$15M \times 2.20 + 3.30 \times \frac{0.160M}{2}$					$7.20M^3$
$15M \times 3.30 + 4.40 \times \frac{0.160M}{2}$					$9.24M^3$
$15M \times 6.80 + 4.10 \times \frac{0.160M}{2}$					$13.08M^3$
$15M \times 4.10 + 4.0 \times \frac{0.160M}{2}$					$9.72M^3$
$15M \times 4.0 + 4.10 \times \frac{0.160M}{2}$					$9.72M^3$
$15M \times 4.10 + 3.10 \times \frac{0.160M}{2}$					$8.64M^3$
$15M \times 3.10 + 3.50 \times \frac{0.160M}{2}$					$7.92M^3$
$15M \times 3.50 + 3.25 \times \frac{0.160M}{2}$					$8.10M^3$
$9M \times 3.25 + 3.25 \times \frac{0.160M}{2}$					$17.00M^3$

$\Rightarrow 195.96M^3$

Continuation

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Inlet Road</u>				B.F. $\Rightarrow$	$195.96m^2$
$15m \times 1.0 + 2.60 \times 0.160m$					$= 7.92m^2$
$15m \times 2.60 + 2.50 \times 0.160m$					$= 6.12m^2$
$15m \times 2.50 + 2.90 \times 0.160m$					$= 6.48m^2$
$20m \times 2.90 + 4.60 + 2.90 \times 0.160$					$= 10.99m^2$
<u>Sum</u>					$\Rightarrow 227.47m^2$
<u>Limit</u>					$\Rightarrow 226.44m^2$
(8) Contn. of sub-grade & earth on shoulders with rate obtained from borrow pits					
					$1000m^2$
<u>over the flanks</u>					
$2 \times 3 \times 30m \times 1.0m \times 0.35m (av) =$					$69.30m^2$
$2 \times 3 \times 30m \times 0.90m \times 0.45m (av) =$					$72.90m^2$
$2 \times 2 \times 30m \times 1.20m \times 0.35m (av) =$					$50.40m^2$
$2 \times 2 \times 30m \times 0.90m \times 0.45m (av) =$					$48.60m^2$
					$\Rightarrow 241.20m^2$
(9) Road Marking with hot application thermoplastic compound. @ 5L					
$2 \times 3 \times 30m \times 0.10m =$					$18.00m^2$
$2 \times 3 \times 30m \times 0.10m =$					$18.00m^2$
$2 \times 3 \times 30m \times 0.10m =$					$18.00m^2$
$2 \times 30m \times 0.10m =$					$6.00m^2$
$2 \times 25m \times 0.10m =$					$5.00m^2$
$2 \times 2 \times 30m \times 0.10m =$					$12.00m^2$
					$\Rightarrow 77.00m^2$
<u>Continuation</u>					$\Rightarrow 74.00m^2$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Pos. & Dist. of R.C.C. Min ood. K.M. Stones — of B.L.D.					
✓	No.				
(11) Pos. & Dist. of R.C.C. Min 200M Stones — of B.L.D.					
✓	No.				
(12) Pos. & Dist. of R.C.C. Min boundary pillars — of B.L.D.					
✓	4 Nos.				
(13) Pos. & Dist. of section sett. Traffic signs of —					
(i) 600MM equilateral, —					
✓	4 Nos.				
(ii) 600MM side circle, —					
✓	4 Nos.				
(iii) 600MM x 450MM rectangular —					
✓	2 Nos.				
(14) Pos. & Dist. of typical masonry information sign board —					
✓	3 Nos.				
Shun 01.12.22 G.E.					
Pank 20/11/22 A.E.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost (Estimate bill)					
(1) constn. of reg. pillars/ bunjees					
Est. width - 01 m. MB = 1.00					
					@ 1853-96/- = 1854-0
(2) clearing & grubbing of soil, low					
Est. width - 01 m. MB = 0.126 Hd.					
					@ 53809-81/Hd = 6789-
(3) Excavation for foundation in soil					
Est. width - 02 m. MB = 33.60 m ²					
					@ 25-61/MB = 2540-0
(4) constn. of embankment with mate. from borrow pits low 1000 m.					
Est. width - 02 m. MB = 124.50 m ²					
					@ 190-42/MB = 23007-
(5) constn. of embankment with mate. from borrow pits low 1000 m.					
Est. width - 02 m. MB = 290.50 m ²					
					@ 154-40/MB = 44853-
(6) constn. of sub-grade & earth shoulders with mate. from borrow pits - low 1000 m.					
Est. width - 07 m. MB = 241.20 m ²					
					@ 192-10/MB = 46335-

Continuation

126078-00
C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F. $\Rightarrow$	126078=
(7/7) constn of G.S.B. with well					
gravel concrete. 50:1 —					
Qty. in cu. m - 03 of 11 MB = 44.60 m ³					
@ 2960-17/11 = 132024=					
(8/8) Pro. & laying & spreading					
11 MB @ 50:11 — 11 MB					
Qty. in cu. m - 04 of 11 MB = 106.14 m ³					
@ 3692-52/11 = 391927=					
(9/9) constn of wearing course					
plain cement concrete					
pavement (M30) —					
Qty. in cu. m - 02 of 11 MB = 226.44 m ³					
@ 7092-29/11 = 1605928=					
(10/11) Pro. & laying of R.C.C. in					
ord. & M. stones — 11 MB					
Qty. in cu. m - 08 of 11 MB = 1110.					
@ 2296-94/- = 2297 =					
(11/12) Pro. & laying of R.C.C. in					
200 mm stones — 11 MB					
Qty. in cu. m - 08 of 11 MB = 1110.					
@ 617-26/- = 617 =					
(12/14) Pro. & laying of road metal.					
traffic & roads of 600 mm					
equil triangle — 11 MB					
Qty. in cu. m - 08 of 11 MB = 4405					
@ 3644-40/- = 145278=					

Continuation

$\Rightarrow$ 2223499 =

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					B.F. ₹ 2273499-00
(13/15) For signing of road work.					
Traffic signs of 600mm dia					
circle					gall
Qty. in dep - 0805 MB = 4 Nos.					
					@ 4656-67/- = 18627-00
(14/16) For signing of road work.					
Traffic signs of 600mm x 450mm					
rectangular					gall
Qty. in dep - 0805 MB = 2 Nos.					
					@ 4553-05/- = 9106-00
(15/17) For signing of Road Mark boundary pillars.					
Qty. in dep - 0805 MB = 4 Nos.					
					@ 529-05/- = 2116-00
(16/18) Road Marking with hot					
applied thermoplastic compound.					
Qty. in dep - 0805 MB = 24.00 m ²					
					@ 721-98/m ² = 53427-00
(17/13) For signing of typical					
MMGSY information board.					
Qty. in dep - 0805 MB = 3 Nos.					
					@ 9591-00/- = 28773-00
					Total ₹ 2385550-00
Add GST @ 12% on amount					= ₹ 286266-00
Add Lab. cost @ 1% "					= ₹ 23856-00
Add S.F. @ 1.24% "					= ₹ 29581-00
					Continuation
					G. Total ₹ 2725253-00
					C.O.

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