

M.R. - "3054"

703 से हसनपुरा पथ

Schedule XLV Form No. 134.

कार्यपालक अभियंता,

ग्रामीण कार्य विभाग

कार्य प्रमंडल, भभुआ

श्री रविन्द्र कुमार शर्मा, सहायक अभियंता DIVISION

कार्य अवर प्रमंडल - रामपुर

SUB-DIVISION

संवेदक - श्री परिक्षीत सिंह

Measurement Book

M.B.No - 1513

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).

(These four lines should be filled in at the time of the measurements relating to each work).					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1 st on A/c Bill				
CH → M/R-3054					
Name of work- Repair of Road under M/R-3054					
from T03 to Hasanpura. - Bhabhua 102.					
Contractor Name - Parikshit Singh, Truck					
Syndicate Road, P.O & P.S - Buxar, Bihar.					
Agreement No - MBD-15/2021-22					
Agreement value - Rs. 48691394/-					
Date of T&A 10A - 17-12-2021					
Intended Date of completion - 16-09-2022					

measurement details

① Clearing & grubbing Road land

including uprooting wild-do-do.

$$2 \times 20 \times 30 \text{ m} \times 2.0 \text{ m} = 2400 \text{ m}^2$$

$$2 \times 45 \times 30 \text{ m} \times 2.00 \text{ m} = 5400 \text{ m}^2$$

$$2 \times 30 \times 30 \text{ m} \times 2.00 \text{ m} = 3600 \text{ m}^2$$

$$2 \times 15 \times 30 \text{ m} \times 2.00 \text{ m} = 1800 \text{ m}^2$$

$$2 \times 8 \times 30 \text{ m} \times 2.00 \text{ m} = 960 \text{ m}^2$$

$$2 \times 1 \times 10 \text{ m} \times 2.00 \text{ m} = 40 \text{ m}^2$$

$$\text{Total} = 14200 \text{ m}^2$$

$$\approx 1.4200 \text{ Hec}$$

② Construction of subgrade &

earthen shoulders - do-do.

$$2 \times 20 \times 30 \text{ m} \times 1.0 \text{ m} \times 0.150 \text{ m} = 180 \text{ m}^3$$

$$2 \times 45 \times 30 \text{ m} \times 1.0 \text{ m} \times 0.150 \text{ m} = 405 \text{ m}^3$$

Continuation

Sch. XLV-Form No. 13A

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 X 20 X 30m X 1.0m X 0.15m =					270m ³
2 X 15 X 30m X 1.00m X 0.15m =					135 m ³
2 X 8 X 30m X 1.00m X 0.15m =					72m ³
2 X 11 X 10m X 1.00m X 0.45m =					9 m ³
2 X 15 X 30m X 0.60m X 0.10m =					54m ³
2 X 12 X 30m X 0.60 X 0.10m =					43.20m ³
2 X 14 X 10m X 0.30 X 0.10m =					8.40m ³
				Total =	1176.60m ³


 21-02-22
 J.E.

③ Providing, laying, & compacting

W.B.M - Gravel - Tilt - do - do -

2 X 7.50m X 3.50m X 0.075m =	2.812m ³
3 X 4.20m X 1.0m X 0.075m =	0.945m ³
5 X 6.20m X 2.30 X 0.075m =	5.347m ³
3 X 6.60 X 2.10 X 0.075 =	3.118m ³
6 X 3.50 X 0.65 X 0.075 =	1.023m ³
12 X 4.35 X 1.70 X 0.075 =	6.655m ³
9 X 7.5 X 1.40 X 0.075 =	7.087m ³
11 X 6.45 X 1.50 X 0.075 =	7.981m ³
13 X 3.80 X 1.00 X 0.075 =	3.705m ³
7 X 5.15 X 2.10 X 0.075 =	5.677m ³
10 X 7.25 X 2.30 X 0.075 =	12.506m ³
8 X 4.00 X 0.95 X 0.075 =	3.28m ³
1 X 9.40 X 2.50 X 0.075 =	1.762m ³
12 X 2.27 X 1.25 X 0.075 =	2.553m ³
13 X 2.10 X 1.30 X 0.075 =	2.661m ³
6 X 7.20 X 3.10 X 0.075 =	10.044m ³

Continuation

Sch. XLV-Form No. 134

Sch. XLV-Form No. 134				
Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
	9	3.20	1.60	$\times 0.075 = 3.456 \text{ m}^3$
	11	7.15	2.40	$\times 0.075 = 14.157 \text{ m}^3$
	16	2.30	0.85	$\times 0.075 = 2.244 \text{ m}^3$
	13	4.10	2.10	$\times 0.075 = 7.749 \text{ m}^3$
	4	2.35	0.35	$\times 0.075 = 0.346 \text{ m}^3$
	10	1.25	1.45	$\times 0.075 = 1.359 \text{ m}^3$
	9	1.15	1.35	$\times 0.075 = 0.970 \text{ m}^3$
	16	2.35	0.65	$\times 0.075 = 1.833 \text{ m}^3$
	8	14.10	1.50	$\times 0.075 = 12.68 \text{ m}^3$
	4	2.75	1.95	$\times 0.075 = 1.608 \text{ m}^3$
	8	2.50	0.75	$\times 0.075 = 0.112 \text{ m}^3$
	12	2.95	1.20	$\times 0.075 = 3.186 \text{ m}^3$
	6	2.05	1.75	$\times 0.075 = 1.614 \text{ m}^3$
	9	1.85	2.75	$\times 0.075 = 3.434 \text{ m}^3$
	4	4.65	2.30	$\times 0.075 = 3.208 \text{ m}^3$
	5	12.00	3.10	$\times 0.075 = 13.95 \text{ m}^3$
	15	2.05	1.50	$\times 0.075 = 3.459 \text{ m}^3$
	9	4.05	2.00	$\times 0.075 = 5.467 \text{ m}^3$
	8	2.15	0.85	$\times 0.075 = 1.096 \text{ m}^3$
	5	1.55	0.75	$\times 0.075 = 0.435 \text{ m}^3$
	3	1.45	0.95	$\times 0.075 = 0.309 \text{ m}^3$
	4	2.25	0.65	$\times 0.075 = 0.438 \text{ m}^3$
	Total =			159.166 m^3
④ Brick masonry work in cement				
mortar in parapet - do - do -				
	3	2	6.00	$\times 0.40 \times 0.60 = 8.64 \text{ m}^3$
MP 03-03-22 56				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
⑤ Providing and applying Primer coat with bitumen emulsion (SS-11-do)				
2 x 7.50 x 7.50m				$= 37.50m^2$
3 x 4.20 x 1.00m				$= 12.60m^2$
5 x 6.35 x 2.30				$= 71.88m^2$
3 x 6.60 x 2.50				$= 49.50m^2$
6 x 3.50 x 0.65				$= 13.65m^2$
12 x 4.75 x 1.70				$= 88.74m^2$
9 x 7.50 x 1.40				$= 94.50m^2$
11 x 6.40 x 1.50				$= 105.60m^2$
13 x 3.80 x 1.00				$= 49.40m^2$
7 x 5.15 x 2.10				$= 75.70m^2$
10 x 7.25 x 2.30				$= 166.75m^2$
8 x 4.00 x 0.95				$= 30.40m^2$
1 x 9.40 x 2.50				$= 23.50m^2$
12 x 2.27 x 1.25				$= 34.05m^2$
13 x 2.10 x 1.25				$= 34.12m^2$
6 x 7.20 x 3.10				$= 133.92m^2$
9 x 3.20 x 1.60				$= 46.08m^2$
11 x 7.20 x 2.40				$= 190.08m^2$
16 x 2.20 x 0.85				$= 29.92m^2$
12 x 4.10 x 2.10				$= 103.32m^2$
4 x 2.35 x 0.35				$= 3.29m^2$
10 x 1.35 x 1.45				$= 18.12m^2$
9 x 1.15 x 1.25				$= 12.93m^2$
16 x 2.36 x 0.65				$= 24.54m^2$
8 x 14.10 x 1.50				$= 169.20m^2$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 X 2.75 X 1.95				=	21.45m ²
8 X 2.50 X 0.75				=	15.00m ²
12 X 2.95 X 1.20				=	42.48m ²
6 X 2.05 X 1.75				=	21.52m ²
9 X 1.85 X 2.70				=	44.95m ²
4 X 4.65 X 2.30				=	42.78m ²
5 X 12.00 X 3.10				=	186.00m ²
15 X 2.05 X 1.50				=	46.19m ²
9 X 4.05 X 2.00				=	72.90m ²
8 X 2.15 X 0.85				=	14.62m ²
4 X 2.25 X 0.65				=	5.85m ²
				Total =	2132.96m ²
				net ⇒	2125.81m ²

⑥ Providing and applying tack coat with bitumen emulsion (RS-1)-

as vide item No (5) p-5				=	2125.81m ²
For Rigid Pavement-8 X 1.37 X 0.50				=	5.48m ²
15 X 1.26 X 0.40				=	7.56m ²
8 X 2.29 X 1.10				=	20.15m ²
10 X 1.15 X 0.65				=	7.47m ²
6 X 2.50 X 1.40				=	21.00m ²
12 X 1.14 X 0.80				=	10.94m ²
6 X 0.55 X 0.30				=	0.99m ²
11 X 3.10 X 1.50				=	51.15m ²
9 X 1.0 X 0.55				=	4.95m ²
				Total =	2355.50m ²

Continuation

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑦ Providing, laying and rolling of close-graded Premix surfacing qty vide same as item No-⑥ = 2255.50m ²					
⑧ Plastering with cement mortar (1:4) on brick work in-do-to					
3 X 4 X 6.00 X 0.600 =					43.20m ²
3 X 2 X 6.00 X 0.400 =					14.40m ²
3 X 4 X 0.40 X 0.600 =					2.88m ²
					Total = 60.48m ²
16-03-22					
56					

⑨ Providing and applying tack coat with bitumen emulsion (RS-1) Using emulsion - do - do - Job.					
1 X 5m X (11 + 4.25) m =					38.125m ²
1 X 5m X (4.25 + 3.75) m =					20.00m ²
12 X 30m X 3.75m =					1350m ²
20 X 30m X 3.75m =					2250m ²
3 X 10m X 3.60m =					10.8m ²
25 X 30m X 3.75m =					2812.50m ²
16 X 30m X 3.75m =					1800m ²
22 X 30m X 3.75m =					2475m ²
2 X 10m X 3.50m =					70m ²
35 X 30m X 3.75m =					3937.50m ²
11 X 30m X 3.75m =					1237.50m ²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	6	X 30m	X 2.75m	=	675 m ²
	2	X 10m	X 3.75m	=	75 m ²
	1	X 5m	X $(4.25 + 3.75)$	=	20 m ²
	1	X 5m	X $(4.75 + 10)$	=	35.625 m ²
Extra for side curb	4	X 10m	X 0.75m	=	30 m ²
	3	X 3.75m	X 2.50m	=	28.125 m ²
	6	X 8m	X 1m	=	48 m ²
	2	X 12m	X 1.50m	=	36 m ²
Total =					17046.375 m ²

⑩ Providing & Laying semi-circular bituminous concrete with--

	1	X 5m	X $(11 + 4.25)$	X 0.025m	= 0.953 m ³
	1	X 5m	X $(4.25 + 3.75)$	X 0.025m	= 0.500 m ³
	12	X 30	X 3.75	X 0.025	= 33.75 m ³
	20	X 30	X 3.75	X 0.025	= 56.25 m ³
	3	X 10	X 3.00	X 0.025	= 2.700 m ³
	25	X 30	X 3.75	X 0.025	= 70.312 m ³
	16	X 30	X 3.75	X 0.025	= 45.000 m ³
	22	X 30	X 3.75	X 0.025	= 61.875 m ³
	2	X 10	X 3.50	X 0.025	= 1.750 m ³
	35	X 30	X 3.75	X 0.025	= 98.437 m ³
	11	X 30	X 3.75	X 0.025	= 30.937 m ³
	6	X 30	X 3.75	X 0.025	= 16.875 m ³
	2	X 10	X 3.75	X 0.025	= 1.875 m ³
	1	X 5m	X $(4.25 + 3.75)$	X 0.025	= 0.500 m ³
	1	X 5m	X $(4.25 + 10)$	X 0.025	= 0.890 m ³
Extra for side curb	4	X 10	X 0.75	X 0.025	= 0.750 m ³
	3	X 3.75	X 2.50	X 0.025	= 0.703 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	6	7.50	1.00	0.025	$= 1.125 \text{ m}^3$
	2	11.50	1.50	0.025	$= 0.863 \text{ m}^3$
	Total =				426.044 m^3

(11) R.C.C. m-15 grade Kilometer
stone - do - do - Job.

(i) ordinary K.M. Stone = 6 Nos.

(ii) 200m Stone = 18 Nos.

(12) Providing & fixing retro-
reflectorised traffic signs-

(i) 60cm equilateral triangle = 16 Nos.

(ii) 60cm circular = 4 Nos.

(iii) 600x450mm rectangular = 10 Nos.

(13) Road marking with

Hot applied thermoplastic

Compound with -do-do-Job.

$2 \times 25 \times 30 \text{ m} \times 0.10 \text{ m} = 150 \text{ m}^2$

$2 \times 35 \times 30 \text{ m} \times 0.10 \text{ m} = 210 \text{ m}^2$

$2 \times 15 \times 30 \text{ m} \times 0.10 \text{ m} = 90 \text{ m}^2$

$2 \times 20 \times 30 \text{ m} \times 0.10 \text{ m} = 120 \text{ m}^2$

$2 \times 30 \times 30 \text{ m} \times 0.10 \text{ m} = 180 \text{ m}^2$

$2 \times 25 \times 30 \text{ m} \times 0.10 \text{ m} = 150 \text{ m}^2$

Total = 900 m^2

(14) Providing & fixing of typical

mmGSX informatory sign board

with logo - do - do - Job - 2 Nos.

(15) Providing Guard stone /

boundary Stone - do - Job - 88 Nos.

Continuation

Continuation

Sch. XLV-Form No. 134

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
<u>Material statement</u>					
① Earth work					$= 1176.60 \text{ m}^3 @ R. 34.82 / \text{m}^3$
② W.B.M. Grade-III					$= 159.166 \text{ m}^3 @ R. 353.85 / \text{m}^3$
③ Stone Agg. (53 mm to 22.5 mm)					$= 192.59 \text{ m}^3 @ R.$
④ Crushed stone screening (80)					$= 16.68 \text{ m}^3 @ R. 242.53 / \text{m}^3$
⑤ Brick					$= 4330 \text{ Nos.} @ R. 6.075 / \text{Nos.}$
⑥ Coarse Sand					$= 3.70 \text{ m}^3 @ R. 175.80 / \text{m}^3$
⑦ Bitumen Emulsion (SS-1)					$= 1.8069 \text{ MT.} @ R. 45894.47 / \text{MT.}$
⑧ Bitumen Emulsion (BS-1)					$= 5.3673 \text{ MT.} @ R. 43791.47 / \text{MT.}$
⑨ Bitumen (3-90)					$= 54.200 \text{ MT.} @ R. 41683.47 / \text{MT.}$
⑩ Stone crushed agg. (13.2 mm to 9.5 mm)					$= 10.898 \text{ m}^3 @ R. 515.53 / \text{m}^3$
⑪ Stone crushed Agg. (9.5 mm to 4.75 mm)					$= 354.927 \text{ m}^3 @ R. 573.41 / \text{m}^3$
⑫ Crushed Stone Agg. (4.75 mm to below 2.5 mm)					$= 255.298 \text{ m}^3 @ R. 249.22 / \text{m}^3$
⑬ Filler (lime)					$= 12.453 \text{ m}^3 @ R. 3637.51 / \text{m}^3$
⑭ Cement					$= 1.6073 \text{ MT.} @ R. 4416.40 / \text{MT.}$
30.07.22 J.B.					

Continuation

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ Providing and applying Primer coat with bitumen emulsion (SS-1) - Qty vide TMB-P-⑤ item ⑤					
3125.81 m ² @ R. 51.63/m ² —					R. 100480=00
⑤ Providing tack coat with bitumen emulsion (SS-1) - do - - Qty vide TMB-P-⑤ item ⑥ = 2255.50 m ² Qty vide TMB-P-⑦ item ⑨ = 13046.375 m ²					
Total = 19301.875 m ²					
Unit - 19299.43 m ² @ R. 17.29/m ² —					R. 333687=00
⑥ Providing, laying and rolling close-graded premix surface Qty vide TMB-P-⑧ item ⑩					
2255.50 m ² @ R. 202.83/m ² —					R. 457483=00
⑦ Providing & laying Semi dense bituminous concrete with - do - do - - Qty vide TMB-P-⑧ item ⑩					
426.044 m ³ @ R. 11880.88/m ³ —					R. 5061778=00
⑧ R.C.C. m-15 grade Kilometer Stone (adj) - do - do - Job Qty vide TMB-P-⑧ item ⑪ (i)					
6 Nos @ R. 2504.81/No —					R. 15029=00
⑨ R.C.C. m-15 grade 300 m Stone - do - do - Job Qty vide TMB-P-⑧ item ⑪ (ii)					
18 Nos @ R. 695.12/No —					R. 12512=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑩ Retro-reflectorised traffic signs Providing & fixing 60cm x high - Qty vide TMB-P-⑧ item ⑫ iv 16 Nos. @ R. 3697.38/No. — R. 59158.00					
⑪ Retro-reflectorised traffic signs Providing & fixing 60cm circular - Qty vide TMB-P-⑧ item ⑫ (ii) 4 Nos. @ R. 3717.50/No. — R. 14870.00					
⑫ Retro-reflectorised traffic signs Providing & fixing 600x450mm rect Qty vide TMB-P-⑧ item ⑫ (iii) 10 Nos. @ R. 3595.62/No. — R. 35956.00					
⑬ Road marking with hot applied thermoplastic compound - do - Job. Qty vide TMB-P-⑧ item ⑬ 900m ² @ R. 744.10/m ² — R. 669690.00					
⑭ Providing and fixing of typical mmG SX information sign board - Qty vide TMB-P-⑧ item ⑭ 2 Nos. @ R. 9608.33/No. — R. 19217.00					
⑮ Guard stone / boundary stone - do - do - cont. Job Qty vide TMB-P-⑧ item ⑮ 88 Nos. @ R. 582.69/No. — R. 51277.00					
⑯ Plastering with cement mortar - Qty vide TMB-P-⑥ item ③ 166.41 60.48m ² @ R. 6354.11/m ² — R. 10064.00					

Continuation

Continuation