

M/R (2054) New Yerintore Polcy, (Mero = 0.014)

Agreement No:- 05/11/2019-20

Schedule XLV-Form No. 134
Agreement No. 6421152920

Kharagpur Patalpur PWD Sector DIVISION

Kharagpur PWD Sector PWD Sector
Road Token Pathani Bhawan SUB-DIVISION
Contractor, Faranir Ashok Chakraborty

Date of Commencement:- 25.11.2019

MEASUREMENT BOOK

Date of Completion:- 24.08.2020 ,
M.M. No:- 2102

विधायिका द्वारा निर्मित फॉर्म
से नियम वर्ष १०० (१९८४)
नियम वर्ष १०५ श. म/व (२०८५)
नियम वर्ष १०६ श. म/व (२०८६)
नियम वर्ष १०७ श. म/व (२०८७)
नियम वर्ष १०८ श. म/व (२०८८)
नियम वर्ष १०९ श. म/व (२०८९)
नियम वर्ष ११० श. म/व (२०९०)
नियम वर्ष १११ श. म/व (२०९१)

EXECUTIVE ENGINEER
R.W.D. DIVISION
Kharagpur (Munger)
25.1.2019

Sch. XLV - Form No. 134

Kharagpur DIVISION

Kharagpur SUB-DIVISION

Measurement Book

No. 2102

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st on AIC Bill.

1

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.	
Ch-M	1-	M/R (3054)			
Name of Work	1-	M/R	DF		
Road from Tarapur - Kheda					
Pur PWD Road from Khediya					
more to Maheshpur Launa					
Road.					2019-20
Agreement No:- 05/MRD/					2020-21
Agm Cr:- Ashish Construction					
Af-Bola road, Sadri Pur, Dist- muhar.					

Date of Commencement - 25-11-2019

Date of Completion - 24/08/2020

Amount billds.

Measurement

① clearing and grubbing

Road Land - etc.

$$2 \times 310 \text{ m} \times 0.7 \text{ m} = 434 \text{ m}^2$$

② Const. of G.S.B. Cradry-

II floor Path repair - etc.

$$13 \times 1.6 \text{ m} \times 1.0 \text{ m} \times 0.15 \text{ m} = 3.28 \text{ m}^3$$

$$11 \times 2.2 \text{ m} \times 1.7 \text{ m} \times 0.15 \text{ m} = 6.35 \text{ m}^3$$

$$11 \times 2.35 \text{ m} \times 1.5 \text{ m} \times 0.15 \text{ m} = 5.82 \text{ m}^3$$

$$15.45 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Bx	F-Bx	T-	15.4 sm ²
9x2.	6sm	x 1.2 sm	x	0.15m =	4.39 m ²
9x2.	6sm	x 1.8 sm	x	0.15m =	6.32 m ²
8x2.	7sm	x 1.0 sm	x	0.15m =	3.4 sm ²
10x3.0	6smx	2.61m	x	0.15m =	11.75 m ²
11x3.4	5smx	1.35m	x	0.15m =	7.69 m ²
11x3.6	6smx	3.0sm	x	0.15m =	17.82 m ²
10x4.	5smx	3.75m	x	0.15m =	22.5 sm ²
13x4.	3sm	x 2.5 sm	x	0.15m =	21.38 m ²
					110.70 m ²
					21 Aug 2020 10/08/2020 J-E.

(I) P/V. Laying, spreading and compacting stone metal (Grader II etc.) (Patch repair)				
4x2.0m	x 1.80m	x 0.075m =	1.08 m ²	
7x2.8sm	x 2.4 sm	x 0.075m =	3.53 m ²	
15x3.0m	x 2.90m	x 0.075m =	9.75 m ²	
11x3.40m	x 2.15m	x 0.075m =	5.89 m ²	
12x3.40m	x 2.85m	x 0.075m =	8.72 m ²	
3x3.45m	x 1.85m	x 0.075m =	1.44 m ²	
11x3.45m	x 2.75m	x 0.075m =	7.82 m ²	
7x3.60m	x 1.80m	x 0.075m =	3.4 sm ²	
5x3.50m	x 2.00m	x 0.075m =	2.63 m ²	
8x4.0sm	x 3.0m	x 0.075m =	7.29 m ²	

21 Aug 2020
Continuation 51.59 m²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	D.	D.	
B. F. B+Y.		=	42.52 M ²		
9x4.0m	x3.30m	x0.075m	= 8.91m ³		
10x4.0m	x3.0m	x0.075m	= 9.00m ³		
2x4.40m	x2.35m	x0.075m	= 1.55m ³		
13x4.40m	x3.0m	x0.075m	= 12.87m ³		
13x4.80m	x3.0m	x0.075m	= 14.04m ³		
13x4.50m	x3.20m	x0.075m	= 14.04m ³		
10x4.60m	x3.0m	x0.075m	= 13.46m ³		
					125.46m ³
					Erugan 131.56/200 2.5

(1) Plv. laying, spreading and compacting W.B.m. stone

metl	678 - III	(patch repair)
12x2.20m	x1.90m	x0.075m = 3.76m ³
8x3.0m	x2.60m	x0.075m = 4.68m ³
9x3.30m	x2.05m	x0.075m = 6.57m ³
11x3.60m	x2.30m	x0.075m = 6.83m ³
8x3.65m	x2.15m	x0.075m = 4.71m ³
13x3.75m	x2.85m	x0.075m = 10.42m ³
11x3.75m	x2.30m	x0.075m = 7.12m ³
10x3.75m	x2.6m	x0.075m = 5.62m ³
7x3.70m	x3.50m	x0.075m = 6.80m ³
10x4.10m	x3.15m	x0.075m = 9.53m ³
8x4.15m	x3.40m	x0.075m = 8.36m ³
12x4.15m	x3.20m	x0.075m = 11.95m ³

863.5m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	18.4	=	86.35m ²
7x4.3	0m x 3.0m x 0.075m =				6.73m ²
6x4.0	4.5m x 2.40m x 0.075m =				4.81m ²
14x4.0	3.5m x 3.25m x 0.075m =				15.28m ²
12x4.0	5.5m x 3.20m x 0.075m =				13.10m ²
11x4.0	3.0m x 3.05m x 0.075m =				15.12m ²
7x4.8	0.8m x 3.15m x 0.075m =				7.81m ²
					149.24m ²

② plv. and applying form

Coat over W.B.M. (or) M.H.Etc.

B.T.Y. wide. T.M.B. P.N. (3, 4)

$$\text{P.N.} \cdot \text{E} = \frac{149.24}{0.075}$$

$$= 1989.86 \text{ m}^2$$

① plv. and applying form 17.8.
Coat. B.T.Y. wide. T.M.B. P.N. (3, 4) $\text{P.N.} \cdot \text{E} = 1989.86 \text{ m}^2$

② patch work over W.B.M.

surface & using mix

seal surface for

Bitumenous Surface - etc.

12x2.20m x 1.90m =	50.16m ²
8x3.0m x 2.60m =	62.40m ²
9x3.30m x 2.95m =	87.61m ²
11x3.60m x 2.30m =	91.08m ²
8x3.60m x 2.15m =	62.78m ²
13x3.70m x 2.85m =	138.94m ²

Continuation

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.T.	18+4.2	=	492.93m ²
11	x 3.75m	x	2.30m	=	94.87m ²
10	x 3.75m	x	2.60m	=	75.60m ²
7x	3.75m	x	3.50m	=	90.65m ²
10x	4.10m	x	3.15m	=	123.70m ²
8x	4.10m	x	3.40m	=	111.52m ²
12x	4.15m	x	3.20m	=	159.36m ²
7x	4.30m	x	3.60m	=	90.30m ²
6x	4.45m	x	2.40m	=	64.08m ²
14x	4.55m	x	3.20m	=	203.84m ²
12x	4.55m	x	3.20m	=	174.72m ²
11x	4.70m	x	3.90m	=	201.63m ²
7x	4.80m	x	3.10m	=	154.16m ²
					1990.20 m ²

Estimated area
2310.62m²
2310.62m²

~~(X) Plv. and applying Tarco
coat with bitumen emulsion
etc.~~

① Const. of cement-concrete Pavement Grade - m _{so} - etc.	
1x30m x 3.75m x 0.10m =	11.25m ³
1x16m x 3.75m x 0.10m =	6.00m ³
11x30m x 3.75m x 0.10m =	123.75m ³
1x30m x 6.5m + 3.75 x 0.10m =	14.62m ³

Continuation

155.62
m³

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Particulars	Details of actual measurement			Contents of area
	No.	L.	D.	
	B.	$F \cdot 18 + Y =$		155.62 m^2
$1 \times 3 \text{ m} \times 3$		$2.75 \text{ m} \times 0.1 \text{ om} =$		1.125 m^2
$1 \times 13 \text{ m} \times (5.95 \text{ m} + 6.10 \text{ m} +$		$3.75 \text{ m}) / 3 \times 0.1 \text{ om} =$		6.85 m^2
$1 \times 3 \text{ om} \times 3.75 \text{ m} \times 0.1 \text{ om} =$				11.25 m^2
$1 \times 3 \text{ om} \times (3.75 \text{ m} + 4.6 \text{ m} +$		$3.25 \text{ m}) / 3 \times 0.1 \text{ om} =$		12.10 m^2
$3 \times 3 \text{ om} \times 3.75 \text{ m} \times 0.1 \text{ om} =$				33.75 m^2
$9 \times 3.75 \text{ m} \times 0.1 \text{ om} =$				$= 33.75 \text{ m}^2$
$3 \text{ om} \times 3.75 \text{ m} + 4.85 \text{ m} + 3.25 \text{ m}$				$3 \times 0.1 \text{ om} = 12.3 \text{ m}^2$
$3 \text{ om} \times 3.25 \text{ m} + 4.7 \text{ m} + 3.25 \text{ m}$				$3 \times 0.1 \text{ om} = 12.2 \text{ m}^2$
				$0.1 \text{ om} = 12.2 \text{ m}^2$
$1 \times 1.5 \text{ m} \times 3.75 \text{ m} \times 0.1 \text{ om} =$				5.625 m^2
$3 \text{ om} \times (3.75 \text{ m} + 4.4 \text{ m} + 6.2 \text{ m} +$				$5.7 \text{ m} + 3.25 \text{ m}) / 5 \times 0.1 \text{ om} = 14.28 \text{ m}^2$
$3 \text{ om} \times 3.25 \text{ m} \times 6.1 \text{ om} =$				11.25 m^2
$12 \text{ m} \times 3.75 \text{ m} + 5.2 \text{ m} +$				$2 \times 0.1 \text{ om} = 5.375 \text{ m}^2$
$1 \times 3 \text{ om} \times 3.75 \text{ m} \times 0.1 \text{ om} =$				11.25 m^2
$6 \text{ m} \times 8.3 \text{ om} + 5.6 \text{ m} + 4.6 \text{ m}$				$3 \times 0.1 \text{ om} = 3.75 \text{ m}^2$
				300.075 m^2
				$\frac{300.075}{2100} \text{ m}^2$
				14.072 m^2

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① PIV. and applying track coat - etc. of 8 B.M. etd.					
$1.5\text{m} \times 7.5\text{m} + 3.75\text{m}$	=	84.37m^2			
	2				
$4.0 \times 3.0\text{m} \times 3.75\text{m}$	2	4500m^2			
$1 \times 1.5\text{m} \times 3.75\text{m}$	=	56.25m^2			
$9 \times 3.0\text{m} \times 3.75\text{m}$	=	1012.50m^2			
$1 \times 3.0\text{m} \times 3.75\text{m} + 4.0\text{m} + 3.75\text{m}$	=	123.00m^2			
	3				
$8 \times 3.0\text{m} \times 3.75\text{m}$	=	900.00m^2			
$1 \times 3.0\text{m} \times 3.75\text{m} + 4.0\text{m} + 3.75\text{m}$	=	122.00m^2			
	3				
$1.0 \times 3.0\text{m} \times 3.75\text{m}$	=	112.50m^2			
$1 \times 1.0 \cdot 6.0\text{m} \times 3.75\text{m}$	=	39.75m^2			
$6 \times 3.0\text{m} \times 3.75\text{m}$	=	675.00m^2			
$1 \times 3.0\text{m} \times 3.75\text{m} + 4.0\text{m} + 5.3\text{m}$	=	139.50m^2			
	3				
$1 \times 3.0\text{m} \times 5.3\text{m} + 4.0\text{m} + 3.75\text{m}$	=	138.60m^2			
	3				
$4 \times 3.0\text{m} \times 3.75\text{m}$	=	450.00m^2			
$1 \times 3.0\text{m} \times 3.75\text{m}$	=	11.25m^2			
					9378.62m^2
					M.C.
					81 mdc/m + 1071 2020 J.E.

Continuation

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① p/lv and laying birmens macadam 5 cm thick					
$1 \times 15m \times 7.50m \times 3.75m \times 0.05m = 4.22m^3$					
$4 \times 30m \times 3.75m \times 0.05m = 225.0 m^3$					
$1 \times 15m \times 3.75m \times 0.05m = 2.81m^3$					
$9 \times 30m \times 3.75m \times 0.05m = 50.625 m^3$					
$1 \times 30m \times 3.75m \times 4.50m + 3.75m \times 0.05m = 6.15m^3$					
$8 \times 30m \times 3.75m \times 0.05m = 45.0 m^3$					
$1 \times 30m \times 3.75m \times 4.75m + 3.75m \times 0.05m = 6.10m^3$					
$10 \times 30m \times 3.75m \times 0.05m = 56.25m^3$					
$1 \times 10.60m \times 3.75m \times 0.05m = 1.98m^3$					
$6 \times 30m \times 3.75m \times 0.05m = 33.75m^3$					
$1 \times 30m \times 3.75m \times 4.90m + 5.70m \times 0.05m = 6.90m^3$					
$1 \times 30m \times 5.30m + 4.75m \times 3.75m \times 0.05m = 10.35m^3$					
$4 \times 30m \times 3.75m \times 0.05m = 22.50m^3$					
$1 \times 3m \times 3.75m \times 0.05m = 0.56m^3$					
					$472.26 m^3$
					21/12/2020
					20/07/2020
					S.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) plv. and a pplying tape cont for SDBC - etc. some measurement and Qty. videt T. m.B. P.Y.O.					
(2) (3) P.N. (1) = 93.76.62 m ²					
					221.97 m ³
					221.97 m ³
(1) plv. and laying SDBC 25mm thick - etc.					
1.5m x 2.5m + 3.75m x 0.025m =	2				2.1 m ³
4.0 x 3.0m x 3.75m x 0.025m = 112.50 m ³					
1 x 1.5m x 3.75m x 0.025m = 1.45 m ³					
9 x 3.0m x 3.75m x 0.025m = 25.31 m ³					
1 x 3.0m x 3.75m + 4.80m x 3.75m x 0.025m = 9.22 m ³					
8 x 3.0m x 3.75m x 0.025m = 22.5 m ³					
1 x 3.0m x 3.75m + 4.20m x 3.75m x 0.025m = 3.05 m ³					
10 x 3.0m x 3.75m x 0.025m = 28.12 m ³					
1 x 10.60m x 3.75m x 0.025m = 0.99 m ³					
6 x 3.0m x 3.75m x 0.025m = 16.87 m ³					
1 x 3.0m x 3.75m + 4.90m x 5.30m x 0.025m = 3.48 m ³					
					225.54 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		12.	F. 64 Y. -		925.51 m ²
1 x 30m x 5.70m + 4.70m x 3.20m					
		3	0.025m = 3.45m ³		
4 x 30m x 3.75m x 0.025m = 11.25m ³					
1 x 3m x 3.75m x 0.025m = 0.28m ³					
					246.8 m ²
(2) Const. of sub-grade and earthen Shoulder laid up to 1000 m - etc.					
2 x 6 x 30m x 0.70m x 0.30m = 75.60m ³					
2 x 10 x 30m x 0.70m x 0.30m = 126.00m ³					
2 x 8 x 30m x 0.70m x 0.30m = 144.00m ³					
2 x 6 x 30m x 0.70m x 0.30m = 108.00m ³					
2 x 10 x 30m x 0.70m x 0.30m = 126.00m ³					
2 x 30m x 0.70m x 0.30m = 12.60m ³					
1 x 11 x 30m x 0.80m x 0.30m = 79.20m ³					
2 x 30m x 0.70m x 0.40m = 16.80m ³					
2 x 29 x 30m x 0.80m x 0.30m = 417.60m ³					
2 x 13m x 1.0m x 0.30m = 7.80m ³					
2 x 5 x 30m x 0.80m x 0.30m = 72.00m ³					
2 x 30m x 0.70m x 0.30m = 12.60m ³					
2 x 12 x 30m x 0.70m x 0.30m = 151.20m ³					
2 x 30m x 0.70m x 0.30m = 12.60m ³					
1 x 6 x 30m x 0.70m x 0.30m = 37.80m ³					
					1399.80m ³

③ Piv. and lowing of Hot
thermo Plastic compound -

Continuation

10

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
2 mm-thick Road marking - etc.					
$2 \times 24.84 \times 0.10\text{m} = 4.9668\text{m}^2$					
(4) p.v. and applying 2 coats of water Based cement paint to Unplastered Concrete surface - etc.					
$2 \times 7.70\text{m} \times 0.10\text{m} = 154.00\text{m}^2$					
(5) p.v. and fixing logo of of Project main Board etc = 1 No.					
(6) p.v. and fixing informa- tion Board - etc = 1 No.					
J. K. N. 2020 21/08/2020 0.8.2020 02/08/2020 J. P. R.W.D Tadka					

2nd and final measurement

12

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch-T :- MR (3 054) Measured					
Maintenance Policy 2018.					
Name of work:- MR to					
Road from Tarapur - Ichang					
-pur PWD Road from					
Khelia more to Maheshpur					
Laura road.					
Agency:- Ashish Const. At:-					
Gola Road, Shashi pur,					
Dist:- Munger					
Agreement No:- 05MBD/2019-20					
Date of Commencement:- 25-11-2019					
Date of Completion:- 24/08/2020					
Actual Date of Completion:- 28/10/2020					
<u>Measurement</u>					
① plv. and fixing ordinary					
K.m. Post - etc.					
= 4 No'					
② plv. and fixing zoom					
Post - etc.					
= 14 No'					
③ printing New Letter					
and figures - etc					
= 352.0 N.					

Continuation

L.O'

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Retro - reflectors traffic sign Board etc.					
		2 x 1.2m x 0.8m = 1.92M			
(5) Planting of trees - etc.					
		= 165.00 N o.			
(6) plv. of Rumble strips - etc.					
		17 x 12 N. = 204 N u			
(7) plv. of Rumble strips etc.					
		17 x 3 x 0.5m = 25.5m			
(8) plv. and fixing 600mm canal atral & triangle concrete					
		= 25 N o.			
(9) plv. and fixing 600mm circular Board etc					
		= 3 N o.			
(10) 800 mm x 600 mm Rectangular Board - etc.					
		= 4 N o.			
(11) plv. and fixing 600mm x 450mm Board - etc					
		= 5 N o.			
(12) 900mm Side octagon etc.					
		= 2.0 N o.			
(13) plv. Back masonry work in c.m. for Ref no of -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Par. Pet. etc.					
$3 \times 2 \times 6.0 \text{m} \times 0.45 \text{m} \times 0.6 \text{m}$					
$= 8.64 \text{m}^3$					
(11) plv. Plastering with c.m.					
(1:4) -etc.					
$3 \times 2 \times 2 \times 0.60$					
$3 \times 2 \times 2 \times 6.0 \text{m} \times 0.60 \text{m} = 43.2 \text{m}^2$					
$3 \times 2 \times 6.0 \text{m} \times 0.45 \text{m} = 14.4 \text{m}^2$					
$3 \times 2 \times 2 \times 0.60 \text{m} \times 0.40 \text{m} = 2.88 \text{m}^2$					
$3 \times 2 \times 2 \times 3 \text{m} \times 0.60 \text{m} = 21.6 \text{m}^2$					
$3 \times 2 \times 3 \text{m} \times 0.40 \text{m} = 7.2 \text{m}^2$					
$3 \times 2 \times 2 \times 0.60 \text{m} \times 0.40 \text{m} = 2.88 \text{m}^2$					
$1 \times 2 \times 2 \times 0.60 \text{m} \times 0.40 \text{m} = 2.88 \text{m}^2$					
					95.64m^2
(12) Painting two coat includes					
Primer coat -etc.					
same measurement					
vide. T.M.B. P.N. (14)					
F. N. (1) = 95.64m^2					
(13) plv. and Lavis Hard					
Shoulder Bricks Solis etc.					
$2 \times 2.6 \times 3 \text{m} \times 0.50 \text{m} = 780.60 \text{m}^2$					
28110.20					
28110.20					
28110.20					
C/S					
3110.20					
T/S					
3110.20					