

5054/MR Repairs & Five year Maintenance of Road from
Saidpur Chander Road to Tukdih

Schedule XLV-Form No. 134

M/S DHANSHUER NATH

E.E. R.A.D. works

DIVISION

Patna

Fateha

SUB-DIVISION

Measurement Book

7622

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st m. A/C B.H.					
Name of work - Repair 2-layers main -					
- Torance of Road from					
Lodan Chandrasidhak					
to Turkdih: pendar					
3054 m					
Agency - m/s Dhameshwar Nath Con-					
- struction, Vill - Kosut his-					
- tipm, Madhuban Road, P.O -					
Kosut, P.S - Dhamra					

Dist - Patna, 804452

Agreement No. 32/1030/2023-24

Rate Approved - 10.00 / m² Below.

Date of commencement - 19/8/23

Date of completion - 19/5/24

Date of measurement - 9/12/23

work done

Item ① clearing & grubbing
road land - etc.

$$2 \times 10 \times 30.00 \times 1.00 = 600.00 \text{ m}^2$$

$$2 \times 10 \times 30.00 \times 1.00 = 600.00 \text{ m}^2$$

$$2 \times 6 \times 30.00 \times 1.00 = 360.00 \text{ m}^2$$

$$2 \times 1 \times 6.00 \times 1.00 = 12.00 \text{ m}^2$$

$$2 \quad 1572.00 \text{ m}^2$$

$$\therefore \text{Rate} = 1572.00 \text{ m}^2 / 10000 = 0.157 \text{ m}^2$$

Continuation

PID

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Item ② Construction of sub-grade & earth on slopes do etc.					3
$2 \times 10 \times 30.00 \times 1.00 \times 0.30 =$					120.00 m
$2 \times 10 \times 30.00 \times 1.00 \times 0.30 =$					120.00 m
$2 \times 3 \times 30.00 \times 1.00 \times 0.30 =$					54.00 m
$2 \times 1 \times 10.00 \times 1.00 \times 0.30 =$					6.00 m
					420.00 m
Item ③ Dismantling of concrete pavement by mech. do etc.					3
$7 \times 30.00 \times 3.75 \times 0.160 =$					126.00 m

Item ④ Construction of GSB by grav. well graded material do etc.					3
$1 \times 7.00 \times 1.90 \times 0.100 =$					1.33 m
$1 \times 6.00 \times 2.20 \times 0.100 =$					1.32 m
$1 \times 5.00 \times 2.00 \times 0.100 =$					1.00 m
$1 \times 8.00 \times 1.60 \times 0.100 =$					1.28 m
$1 \times 5.00 \times 2.20 \times 0.100 =$					1.10 m
$1 \times 7.00 \times 1.60 \times 0.100 =$					1.12 m
$1 \times 8.00 \times 2.10 \times 0.100 =$					1.68 m
$1 \times 5.00 \times 2.20 \times 0.100 =$					1.10 m
$1 \times 6.00 \times 1.70 \times 0.100 =$					1.02 m
$1 \times 5.00 \times 1.90 \times 0.100 =$					0.95 m
$1 \times 5.00 \times 2.00 \times 0.100 =$					1.00 m
$1 \times 7.00 \times 2.10 \times 0.100 =$					1.47 m

Continuation

PTO

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 nd (4) 401 of (653340.5)					
1x 6.00		x 1.90	x 0.100 =	1.14 m ³	
1x 6.00		x 1.50	x 0.100 =	1.20 "	
1x 7.00		x 1.90	x 0.100 =	1.33 "	
1x 6.00		x 2.10	x 0.100 =	1.26 "	
1x 5.00		x 2.00	x 0.100 =	1.00 "	
1x 7.00		x 2.00	x 0.100 =	1.40 "	
1x 5.00		x 1.30	x 0.100 =	0.65 "	
1x 6.00		x 1.20	x 0.100 =	0.72 "	
1x 8.00		x 0.90	x 0.100 =	0.72 "	
1x 9.00		x 1.00	x 0.100 =	0.90 "	
1x 7.00		x 1.40	x 0.100 =	0.98 "	

1x 11.00 x 1.50 x 0.100 =					1.65 "
1x 4.00 x 1.30 x 0.100 =					0.52 "
1x 5.00 x 1.60 x 0.100 =					0.80 "
1x 8.00 x 1.70 x 0.100 =					1.36 "
1x 10.00 x 1.90 x 0.100 =					1.90 "
1x 9.00 x 2.10 x 0.100 =					1.89 "
1x 6.00 x 2.00 x 0.100 =					1.20 "
1x 5.00 x 1.80 x 0.100 =					0.90 "
1x 8.00 x 2.50 x 0.100 =					2.00 "
1x 7.00 x 2.10 x 0.100 =					1.47 "
1x 9.00 x 2.00 x 0.100 =					1.80 "
1x 5.00 x 2.30 x 0.100 =					1.15 "
1x 6.00 x 2.50 x 0.100 =					1.50 "
1x 6.00 x 2.60 x 0.100 =					1.56 "

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item ④ 1st (G.S.B.P.I.)					
1x 9.00 x 2.70 x 0.100 =					2.43 m ³
1x 6.00 x 2.40 x 0.100 =					1.44 "
1x 8.00 x 1.90 x 0.100 =					1.52 "
1x 8.00 x 2.20 x 0.100 =					1.76 "
					52.50 m ³
Item ⑤ Prov. laying spreading & Compacting of stone aggregates of specific sizes to W.B.M. 400 III					
--- do --- etc.					
1x 7.00 x 2.10 x 0.075 =					1.10 m ³
1x 6.00 x 2.40 x 0.075 =					1.08 "
1x 5.00 x 2.20 x 0.075 =					0.83 "
1x 8.00 x 1.80 x 0.075 =					1.08 "
1x 5.00 x 2.40 x 0.075 =					0.90 "
1x 7.00 x 1.80 x 0.075 =					0.95 "
1x 8.00 x 2.30 x 0.075 =					1.38 "
1x 5.00 x 2.40 x 0.075 =					0.90 "
1x 6.00 x 1.90 x 0.075 =					0.86 "
1x 5.00 x 2.10 x 0.075 =					0.79 "
1x 5.00 x 2.20 x 0.075 =					0.83 "
1x 7.00 x 2.30 x 0.075 =					1.21 "
1x 6.00 x 2.10 x 0.075 =					0.95 "
1x 8.00 x 1.70 x 0.075 =					1.02 "
1x 7.00 x 2.10 x 0.075 =					1.10 "
1x 6.00 x 2.30 x 0.075 =					1.04 "
1x 5.00 x 2.20 x 0.075 =					0.83 "
1x 7.00 x 2.20 x 0.075 =					1.16 "

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Form 3 Contd (W.M. 4x 17)</u>					
1x 5.00 x 1.50 x 0.075 =					0.5617
1x 6.00 x 1.40 x 0.075 =					0.6311
1x 8.00 x 1.10 x 0.075 =					0.6611
1x 9.00 x 1.20 x 0.075 =					0.8111
1x 7.00 x 1.60 x 0.075 =					0.8411
1x 11.00 x 1.70 x 0.075 =					1.4011
1x 4.00 x 1.50 x 0.075 =					0.4511
1x 5.00 x 1.80 x 0.075 =					0.6811
1x 8.00 x 1.91 x 0.075 =					1.1411
1x 10.00 x 2.10 x 0.075 =					1.5811
1x 9.00 x 2.32 x 0.075 =					1.5511

1x 6.00 x 2.20 x 0.075 =					0.9911
1x 5.00 x 2.00 x 0.075 =					0.7511
1x 8.00 x 2.70 x 0.075 =					1.6211
1x 7.00 x 2.30 x 0.075 =					1.2111
1x 9.00 x 2.20 x 0.075 =					1.4911
1x 5.00 x 2.50 x 0.075 =					0.9411
1x 6.00 x 2.70 x 0.075 =					1.2211
1x 6.00 x 2.80 x 0.075 =					1.2611
1x 9.00 x 2.90 x 0.075 =					1.9611
1x 6.00 x 2.60 x 0.075 =					1.1711
1x 8.00 x 2.10 x 0.075 =					1.2611
1x 8.00 x 2.40 x 0.075 =					1.4411
1x 11.00 x 2.20 x 0.075 =					1.8211
1x 12.00 x 1.40 x 0.075 =					1.2611

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item ⑤ Gold (worn 90% W)					
1x 13.00 x 1.90 x 0.075					1.85 m ³
1x 11.00 x 2.20 x 0.075					1.82 "
1x 9.00 x 1.70 x 0.075					1.15 "
1x 13.00 x 1.90 x 0.075					1.85 "
1x 8.00 x 1.60 x 0.075					0.96 "
1x 10.00 x 1.90 x 0.075					1.43 "
1x 11.00 x 2.20 x 0.075					1.82 "
1x 9.00 x 2.10 x 0.075					1.42 "
1x 7.00 x 1.90 x 0.075					1.00 "
1x 9.00 x 1.60 x 0.075					1.08 "
1x 10.00 x 1.80 x 0.075					1.35 "
1x 11.00 x 2.00 x 0.075					1.65 "
1x 7.00 x 1.60 x 0.075					0.84 "

1x 9.00 x 2.70 x 0.075					1.55 "
1x 8.00 x 1.40 x 0.075					0.84 "
1x 10.00 x 1.80 x 0.075					1.35 "
1x 8.00 x 1.60 x 0.075					0.96 "
1x 9.00 x 1.60 x 0.075					1.08 "
1x 10.00 x 2.30 x 0.075					1.73 "
1x 13.00 x 2.20 x 0.075					2.15 "
1x 12.00 x 1.70 x 0.075					1.53 "
1x 11.00 x 1.90 x 0.075					1.57 "
1x 8.00 x 2.20 x 0.075					1.32 "
1x 11.00 x 2.00 x 0.075					1.65 "
1x 10.00 x 2.40 x 0.075					1.80 "
1x 12.00 x 2.60 x 0.075					2.34 "
1x 8.00 x 2.70 x 0.075					1.62 "

Continuation

PTD

Sch. XLV-Form No. 134					Content of are
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
Item ⑤ Contd (in m ³)					
1x 4.00 x 2.70 x 0.075					= 0.63 m ³
1x 6.00 x 2.20 x 0.075					= 0.99 "
1x 12.00 x 2.30 x 0.075					= 2.07 "
1x 15.00 x 2.60 x 0.075					= 2.93 "
1x 11.00 x 2.70 x 0.075					= 2.23 "
1x 11.00 x 2.60 x 0.075					= 2.15 "
1x 12.00 x 2.40 x 0.075					= 2.16 "
					99.42 m ³

Item ⑥ Prov. & applying primer
coat coat with bitumen

emulsion (RS-1) - etc.					
1 x 30.00 x 5.50 x 3.75					= 133.75 m ²
10 x 30.00 x 3.75					= 1125.00 "
10 x 30.00 x 3.75					= 1125.00 "
2 x 30.00 x 3.75					= 225.00 "
1 x 10.00 x 3.75					= 37.50 "
					2651.25 m ²

Item ⑦ Prov. & applying Tack
coat with bitumen emul-
-sion (RS-1) - etc.
Qty same as primer coat
9 Tm Page ⑦ = 2651.25 m²

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (8) Prov. laying & rolling of loose graded base					
- mix 500 mm thick					
- 210 mm do. etc.					
Qty vide item (6) of					
T.M. Page (7) = 2651.25 m ²					
Item (9) Prov. & applying tack coat with bitumen emul.					
500 (150) - do. etc.					
$1 \times 30.00 \times 5.50 + 3.75 = 168.75 \text{ m}^2$					
$10 \times 30.00 \times 3.75 = 1125.00 \text{ m}^2$					
$10 \times 30.00 \times 3.75 = 1125.00 \text{ m}^2$					
$2 \times 30.00 \times 3.75 = 225.00 \text{ m}^2$					
$1 \times 10.00 \times 3.75 = 37.50 \text{ m}^2$					
2651.25 m ²					
Item (10) Prov. & laying SDBC					
with 100-120 TPH back					
type VMP - do. etc.					
Area same vide item (9)					
of T.M. Page (8) = 2651.25 m ²					
Qty = $2651.25 \text{ m}^2 \times 0.025 = 66.28 \text{ m}^3$					

Continuation

P20

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (11) Construction of parapet Concrete, R.C.C. work - ment on 30 grade --- do --- do --- etc					
	3	15.00	3.75	0.125	21.09 m ³
	3	15.00	2.00	0.125	13.36 "
	1	7.00	2.75	0.125	2.41 "
	1	20.00	1.70	0.125	4.25 "
					41.11 m ³
Item (12) R.C.C. m-15 grade km. stone do etc					

(ii) km. stone	2.50 m ³
(iii) 200 m-stone	3.00 m ³

Item (13) Prov. Erecting dir- - ction & place of iden ti- - fication retro reflecto- - riser sign - do etc	
2 x 1.20 x 0.80	1.92 m ²

Item (14) Prov. Fixing of retro ref- - lectors, cautionary sig- - natory & information sign etc	
(i) 600 mm sq. warning sign	6.00 m ²

Continuation

PTD

Sch. XLV-Form No. 134

Particulars

No.

L. B.

D.

Contents of area

90m (30) Binding in concrete is
 casting forms and of 10
 filling the surface
 with synthetic grass
 (see) - do - etc.
 by same as before Area = 20.16 m²

9/12/80
 JE.
 J.E.
 J.E.

Material statement

(I) Earth	—	420.00 m ³
(II) Agg 15mm to 4.75mm	—	31.50 m ³
(III) Agg 19.5mm to 2.36mm	—	12.60 m ³
(IV) Agg 19.36mm to 2.36mm	—	18.90 m ³
(V) Agg 15mm to 2.36mm	—	190.30 m ³
(VI) 8/10 screening	—	23.86 m ³
(VII) Agg 13.2mm	—	71.58 m ³
(VIII) Agg 19.5-4.75mm	—	55.91 m ³
(IX) Agg 4.75-2.36mm	—	39.70 m ³
(X) Agg 20mm	—	22.20 m ³
(XI) Agg 10mm	—	14.20 m ³
(XII) Gravel sand	—	18.30 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
(xiv) Comp. 30.6 m	-	-	-	28.97 m ³
(xv) Agg. 40 mm	-	-	-	22.75 m ³
(xvi) Agg. 20 mm	-	-	-	21.33 m ³
(xvii) Agg. 10 mm	-	-	-	10.43 m ³
(xviii) Bitum.	-	-	-	1440 m ³
(xix) Con. 1500 (S-1)	-	-	-	2.254 m ³
(xx) Con. 1500 (S-2)	-	-	-	0.796 m ³
(xxi) Bitumen (S-97)	-	-	-	5.037 m
(xxii) Bitumen (S-10)	-	-	-	7.622 m
Total				29.1723
J.E.				06

Signatures				10%
(i) Sub grade - 420.00 m ²				
10% of 420 = 42 m ³	-	-	-	1481.00
(ii) USB 622 - 52.50 m ³				
10% of 52.5 = 5.25 m ³	-	-	-	4187.00
(iii) WBM 4x12 - 99.42 m ³				
10% of 99.42 = 9.94 m ³	-	-	-	14259.00
(iv) M.S. 5' - 2651.75 m ²				
10% of 2651.75 = 265.175 m ²	-	-	-	3078.00
(v) SDB 4 - 66.28 m ³				
10% of 66.28 = 6.628 m ³	-	-	-	4338.00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
(i) Land concrete - 41.11 m^3				
10% of est. $1126 = 112.6 \text{ m}^3$				Rs 4631=00
(ii) Puccin - 5.926 m^3				
10% of est. $1091 = 109.1 \text{ m}^3$				Rs 646=00
(iii) Puccin in substance - 55.31 m^3				
10% of est. $1159 = 115.9 \text{ m}^3$				Rs 6411=00
(iv) Brick work - 2.88 m^3				
10% of est. $2796 = 279.6 \text{ m}^3$				Rs 806=00
(v) Plastering - 90.16 m^3				
10% of est. $14 = 1445 \text{ m}^2$				Rs 29=00
				Rs 39866=00
Sub total	5/15	120		
Final amount				23

Continuation