

Name of Road ÷ Bastpur to Dhaurachapra Path

MBND-752

Schedule XLV-Form No. 134

MR-N-3054

Executive Engineer
Rural Works Department
Works Div. Marhaura

DIVISION

Amnauy

SUB-DIVISION

Sri Chand Bhushan Prasad

MEASUREMENT BOOK

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.	
<u>First & Final Bill.</u>					
<u>Name of Work:- Basatpur To Dhaur Chopra</u>					
<u>Path (Under GR-3054)</u>					
<u>Name of Agency:- Sri Chander Babu Soni</u>					
<u>Vill- Bisachin, Masti Chak, Sonam</u>					
<u>Bihar, Pin. Code - 841219.</u>					
<u>Aggr. No. - 01/HR-3054/MSD/2019-20.</u>					
<u>Date of Commencement - 22.02.2020</u>					
<u>Date of Completion - 21.11.2020.</u>					
<u>Date of Actual Completion - 11.06.21</u>					
<u>Item of Work:-</u>					
<u>S.40.01:- Clearing and grubbing</u>					
<u>Road (and/or) manual work</u>					
<u>including uprooting wild</u>					
<u>vegetation, grass, bushes</u>					
<u>Shrubs, sapling etc.</u>					
$2 \times 74 \times 30 \times 1.00 = 4440$					
$2 \times 1 \times 11 \times 1.00 = 22.00$					
4462.00					
$= 0.4462 \text{ ha.}$					
<u>S.40.02:- Construction of gravel</u>					
<u>Subbase by providing well</u>					
<u>graded material, spread</u>					
<u>in uniform layers with</u>					

19.158.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					17.15843
					$2 \times 18 \times 1.30 \times 0.075 = 3.510$
					$1 \times 18 \times 1.70 \times 0.075 = 2.275$
					$2 \times 30 \times 1.10 \times 0.075 = 4.750$
					$1 \times 30 \times 3.40 \times 0.075 = 7.650$
					$2 \times 28.40 \times 1.42 \times 0.075 = 6.047$
					$1 \times 29.60 \times 1.55 \times 0.075 = 3.441$
					$1 \times 29.90 \times 2.15 \times 0.075 = 4.821$
					$1 \times 16.10 \times 2.20 \times 0.075 = 2.656$
					$1 \times 30.00 \times 3.45 \times 0.075 = 7.762$
					$1 \times 4.00 \times 2.05 \times 0.075 = 0.615$
					62.90743

$\pm 40.4/5$ Poorly laying sand and Compactly stone aggregates of specific sizes to water bound macadam specific to Gole. H. 0 L 1 C					
					$16.50 \times 3.38 \times 0.075 = 4.182$
					$30.0 \times 3.50 \times 0.075 = 7.875$
					$17.25 \times 2.30 \times 0.075 = 2.975$
					$0 \times 30.00 \times 2.30 \times 0.075 = 7.425$
					$30.00 \times 3.10 \times 0.075 = 6.975$
					$27.25 \times 2.10 \times 0.075 = 4.291$
					$28.25 \times 2.45 \times 0.075 = 5.190$
					38.91343

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					38.9/3 y ³
	2	27.55	1.40	0.075	5.785
	1	30	1.85	0.075	4.162
	1	7.55	1.30	0.075	0.736
	2	5.55	1.40	0.075	1.375
	2	26.30	1.25	0.075	4.931
	1	16.40	3.30	0.075	4.059
	1	22.40	2.86	0.075	4.804
	1	29.85	2.60	0.075	5.820
	1	30.00	3.30	0.075	7.425
	1	16.20	2.15	0.075	2.612
	2	7.40	1.25	0.075	1.387
	2	27.60	1.40	0.075	6.216
	2	28.00	1.42	0.075	5.964
					94.189 y ³
ex 6 20/05/21 J. B. Am.					
\$40.5/6	Powdering and applying				
	primer coat with Githman				
	emulsion (SS-1) on top				
	of - Cup + 1/2				
					94.189 ÷ 0.075 = 1255.864
\$40.6/7	Tack coat Powdering				
	applying tack coat with				
	Githman emulsion (RS-1)				
	of - Cup + 1/2				
					1255.864

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1-10.78 - Boulding layer and solling of close graded Pemic Surface 2 + 1 2000 m. 2500 feet S.G. of 1-10.6/7					1255.86
1-10.8/9 - Boulding layer - Boulding and applying pale coat with bitum emulsion (RS-1) using emulsion distributor et - Comp - 100					
	74 x	30 x	3.75		= 8325
	1 x	21 x	3.75		= 78.75
					8366.25
1-10.09/10 - Boulding and laying some base bituminous Concrete with 100-120 TPH batch type HUP Producing 2f - 100					
	3 x	30 x	3.75 x 0.025		= 8.437
	7 x	30 x	3.75 x 0.025		= 19.687
	8 x	30 x	3.75 x 0.025		= 22.50
	18 x	30 x	3.75 x 0.025		= 50.625
	19 x	30 x	3.75 x 0.025		= 53.437
	15				42.187
	18 x	30 x	3.75 x 0.025		= 50.625
	2 x	30 x	3.75 x 0.025		= 5.625
	2 x	30 x	3.75 x 0.025		= 5.625
					208.1237

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					208.123 ⁵
					11 x 3.75 x 0.025 = 1.031
					209.1544
<u>J.40.10:- Construction of sub</u>					
gouls and earthen shells					
with appropriate material					
detached from borrow					
Pits set up - 16.					
					7 x 2 x 30 x 0.75 x 0.30 = 94.50
					6 x 2 x 30 x 0.70 x 0.30 = 75.60
					12 x 2 x 30 x 0.80 x 0.30 = 172.80
					7 x 2 x 30 x 0.70 x 0.30 = 88.20
					6 x 2 x 30 x 0.65 x 0.30 = 70.20
					21.60
					21.60
					10 x 2 x 30 x 0.70 x 0.25 = 105.00
					12 x 2 x 30 x 0.80 x 0.25 = 144.00
					11 x 2 x 30 x 0.70 x 0.30 = 138.60
					710.504
<u>J.40.11:- Reinforced Cement</u>					
Concrete H. 15 goul km					
(local state of standard)					
					(II) km stone — 03 Hs.
					(III) 200 m stone — 09 Hs.
<u>J.40.12:- Retro Reflective Tape</u>					
Signs for guiding and direction					
direction and flow -					
					2 x 1.20 x 0.80 = 1.924

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
J.40.14/-	15	Populdy and tiring			
J.40.15/-		of area - reflected			
		Continuing mandator			
		Sign as per IRC 367 m			
		of Informatory Sign			
		et - C. p. 7			
		(1) 600 mm square			
		Triangle			40 No.
15/16		(11) 600 mm Circular			08 No.
16/17		600 mm x 450 mm			
		rectangular			13 No.
J.40.17/-	19	Planting of trees with			
		2nd side (Avenue			
		trees) et - C. p. 7			111 No.
J.40.18/-	22	Brick masonry work			
		in Cement mortar (1:3)			
		in Parapet et - C. p. 7			
		$7 \times 2 \times 6.0 \times 0.40 \times 0.60 = 20.16 \text{ m}^3$			
J.40.19/-	23	Plastering with Cement			
		mortar (1:4) on brick			
		Surface et - C. p. 7			
		$7 \times 4 \times 6.0 \times 0.60 = 100.80$			
		$7 \times 2 \times 6.0 \times 0.40 = 33.60$			
		$7 \times 4.0 \times 0.40 \times 0.60 = 6.72$			
					141.124

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

S.No. 20/- Painting Two sides

including primer coat

after filling the surface

with synthetic emulsion

Paint at 10.

$$7 \times 4 \times 4 \times 0.60 = 67.20$$

$$7 \times 2 \times 4 \times 0.60 = 33.60$$

$$7 \times 4.00 \times 0.40 \times 0.60 = 6.72$$

407.92

S.No. 21/- Bonding and laying

of hot applied thermoplastic compound

200

m.m. included at 10.

$$74 \times 2 \times 30 \times 0.10 = 444.00$$

$$1 \times 1 \times 11 \times 0.10 = 1.10$$

446.20

S.No. 22/- Bonding and fixing

of Typical MGSY in form

sign board at 10.

Dec 11/06/21
J.B. Amman.

02 Nos.

hp
11/06/21
A

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Alaska Plot
					S. No. 1 - Cherry & Grouchy Rd
					land (by manual means)
					including up 300 ft high
					et - Comp + B
					Video P. 40.01 in T. 4. B
0.446					22076 = A
0.450 ha					49996 = 70 - R - 22076 = A
					S. 40.02 - Constructed subgrade
					and earthen shoulders
					with approved mat
					obtained et. G. B. T. 2
					Video P. 40.06 in T. 4. B
16/122 = 0					
910.50					176 = 96 Y. B. R. - 16/122 = A
					S. 40.03 - Constructed subgrade
					Sub base 6" porous
					well graded material
					Video P. 40.02 in T. 4. B
62.07					143338 = A
62.907					Y. B. R. - 2307 = 30 Y. B. R. - 145255 = 0
					S. 40.04 - Partially laying speed
					and compacting stone
					aggregates of specific
					Size 2 to 4.5 B. H. 2 + 1.
					Video P. 40.03 in T. 4. B
62.907					4307 = 91
94.189					Y. B. R. - 3845 = 36 Y. B. R. - 270809 = 0
					362191 = 0
					S. 40.05 - Partially laying speed
					and compacting stone
					aggregates of specific

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					597345=00 R-452345=00 R
					Site to W.B. & G.S.
					vide P. No. 04 in T. & B.
	94.189	4 ² R	3845=36	4 ² R	3621917
	J. 40.06				Providing and applying
					Prime Coat with Bitumen
					emulsion (SS-1) on buff
					surface of granular
					base including clearing
					et - Comp. & d.
					vide P. No. 04 in T. & B.
	1255.86	4 ² R	40=98	4 ² R	51465=00
	J. 40.07				Providing and applying
					Jack Coat with Bitumen
					emulsion using emulsion
					et - Comp. & C.
					vide P. No. 04 in T. & B.
	1255.86	4 ² R	13=90	4 ² R	17456=00
	J. 40.08				Providing laying out
					of close granular premix
					surfacing material
					20 mm. th. Comp. & d.
					et - Comp. & d.
					vide P. No. 05 in T. & B.
	1255.86	4 ² R	223=214	4 ² R	280321=00
					R-1308778=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					R-130878=0
J-40.09	Partially asphalted road				
	Coat with bitumen				
	emulsion using machine				
	pressure distributor 1/2				
	Vide P-40.05 in T+B				
	8366.25	4 ³	R-11=664	R-97550=00	
J-40.10	Providing and laying				
	dense bituminous concrete				
	with 100-120 TPH				
	batch type HYP.				
	at - Comp - +6-				
	Vide P-40.12 in T+B				

8366.25	4 ³	R-11=664	R-97550=00	
209.154	4 ³	10947=94	7-3R-2289805=0	
J-40.11	Reinforced Cast Concrete			
	M ₁₀ grade kilome. bal			
	Stair of standard design			
	as per IRC-8 fixing			
	at - Comp - +6-			
	Vide P-40.06 in T+B			
	(11) km stone			
03 No	R-2258=26	R-6775=0		
J-40.12	(11) 200m stair			
09 No	R-632=04	R-5688=0		
J-40.13	Rounded Retro-reflective			
	Horizontal Traffic Sign			
	Providing and erecting			

R-3708596=00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				R-	370557600
direction and floor					
iron-chest					
reflector and at floor					
Vide p. 40.06 in T.Y.B.					
1.924 (R) - 12329 = 124 R					2367200
J.O. No. 14/- Provision and fixing					
of 2000 - 2000					
cautioning, m.m.					
and intermediate sign					
Vide p. 40.07 in T.Y.B.					
(1) 600 m.m. sq. detail					
Triangle					
40 Nos. R - 13637 = 63 Each R					14550500

J.O. 15/- (11) 600 m.m. Circular					
16					
08 Nos. R - 3736 = 98 Each R					29896000
J.O. 16/- 600 m.m. x 450 m.m. each					
17					
gator.					
13 Nos. R - 3607 = 80 Each R					4690200
J.O. 17/- Planting of trees (by the					
19					
road side Avenue trees)					
in 600 m.m. at CofA					
Vide p. 40.07 in T.Y.B.					
111 Nos. R - 800 = 30 Each R					8883300
J.O. 18/- Provision and laying					
20					
of hot applied thermoplastic					
Compound 2.50 m.m. thick					
including reflectorising					

R-3742076800

Continuation

R-4043404000

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$R_1 = 404340420$ $R_2 = 374207682$
glass beads @ 250 g/m					
Pos. Sign. Mark at T.C.					
Vide P. No. 08 in T.Y.B.					
$446.20 \times 2 \times R_1 - 735 = 404^2 R_2 -$					$328135 = 00$
S. No. 19/- Arched masonry	22				
work in C/P (1:3) in					
at - Camp					
Vide P. No. 07 in T.Y.B.					
$20.164^2 R_1 - 5014 = 92 \times 4^3 R_2$					$101101 = 00$
S. No. 20/- Plesting work at	23				
masonry (1:4) in brick					
work at - C.P.T.C.					
Vide P. No. 07 in T.Y.B.					
$141.12 \times 2 \times R_1 - 143 = 06 \times 4^2 R_2 -$					$20189 = 00$
S. No. 21/- Painting two coats	24				
including primer coat					
at - Camp - T.C.					
Vide P. No. 8 in T.Y.B.					
$409.92 \times 2 \times R_1 - 95 = 63 \times 4^2 R_2 -$					$39201 = 00$
S. No. 22/- Paving & fitting of	25				
Typical 44/54 interlock					
Sign Guard at - T.C.					
Vide P. No. 08 in T.Y.B.					
$02 N \times 2 \times R_1 - 9303 = 68 \times 4^2 R_2$					$18607 = 00$
					$R_1 = 3792$
					$R_2 = 45506372$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				R-	4550637=
Add 12 f G.S.T.				R-	546076=00
Add 1 f (door Cas)				R-	45508=00
				R-	5142219=00
Less 10 f Below				R-	514222=00
				R-	4627997=00
J.E. Amnour					
Mohd					