

304
Bolu To Machhahan
~~January to March 1959~~

Schedule XLV-Form No. 134

MR-3054 - New

Baagha-2 DIVISION

Bhithary SUB-DIVISION

Soleir Hussain

Measurement Book

1st on A/C running 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.	
Name of work: Balus to Mochahan					
Agency: Salir Hussain, vill - Mahui,					
to 19, West Champaran					
Agreement No: - MR - N/18-20 Bagaha					
					02/01
Agreement Amount: Rs 557980/11 = ∞					
Date of Start: 25/11/2008					
Date of Completion: 23/01/2009					

Revised measurement

1 Clearing and grading of road land

2x36x20.00x1.00	-	2160.00 m ²
2x1x20.00x1.00	-	40.00 m ²
Total		2200.00 m ²
Rate		0.22 Rs

2 Scouring EXISTING AT surface

5x1.20x1.70	=	10.20 m ²
4x2.75x2.00	=	22.00 m ²
4x10.60x3.00	=	127.20 m ²
5x2.70x1.20	=	16.20 m ²
6x6.00x1.61	=	57.96 m ²
5x11.50x2.71	=	154.63 m ²

Continuation Total = 514.05 m²

2
Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 Construction of Sub grade and Caulken Shoulder					
	3 X	30.00	6.00	0.30	162.00 m ³
	1 X	2.00	6.00	0.10	3.60 m ³
					165.60 m ³
4 Dismantling of Brick Soling					
	2 X 60 X	30.00	0.375	0.125	168.75 m ³
	2 X 1 X	8.00	0.375	0.125	0.75 m ³
5 For 500m level to Carriage dismantling Brick up to Filling side					
	60 X 30 X	0.375	0.125		84.375 m ³
	1 X	8.00	0.375	0.125	0.375 m ³
				Total	84.75 m ³
6 Earthwork in Excavation of road					
	2 X 60 X	30.00	0.375	0.075	101.25 m ³
	2 X 1 X	8.00	0.375	0.075	0.45 m ³
				Total	101.70 m ³
Accepted by 78/05/2018					
TE					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised measurement</u>					
1. Construction of granular sub base in pot repair					
	4 X	6.25 X	1.90 X	0.175	= 8.31 m ²
	3 X	12.05 m X	2.85 m X	0.175	= 18.03 "
	2 X	1.25 X	1.35 X	0.175	= 0.61 "
	3 X	1.11 X	1.25 X	0.175	= 0.73 "
	4 X	3.05 X	2.85 X	0.175	= 6.08 "
	5 X	4.25 X	1.97 X	0.175	= 7.35 "
	7 X	1.25 X	1.73 X	0.175	= 2.65 "
	3 X	3.61 X	1.82 X	0.175	= 5.15 "

Construction of granular sub

base in widening

$$2 \times 60 \times 30 \text{ m} \times 0.375 \times 0.1 \text{ m} = 135 \text{ m}^2$$

$$2 \times 1 \times 8 \text{ m} \times 0.375 \times 0.1 \text{ m} = 0.60 \text{ m}^2$$

In filling

$$3 \times 30 \text{ m} \times 4.05 \times 0.150 = 54.675 \text{ m}^2$$

$$1 \times 2 \text{ m} \times 4.05 \times 0.150 = 1.215 \text{ m}^2$$

$$\text{Total} = 244.41 \text{ m}^2$$

2. Construction of 1st RM. grade

Gr-2

$$4 \times 14 \text{ m} \times 2.80 \times 0.075 = 10.50 \text{ m}^2$$

$$9 \times 1.35 \times 1.45 \times 0.075 = 1.32 \text{ m}^2$$

$$4 \times 1.85 \times 1.95 \times 0.075 = 1.08 \text{ m}^2$$

$$6 \times 2.25 \times 1.90 \times 0.075 = 1.92 \text{ m}^2$$

$$2 \times 24 \text{ m} \times 2.75 \times 0.075 = 13.50 \text{ m}^2$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	4 X	1.24 X	1.25 X	0.075	= 0.47 m ²
	9 X	1.22 X	1.30 X	0.075	= 1.07 "
	3 X	1.24 X	1.40 X	0.075	= 0.29 "
	6 X	2.20 X	1.60 X	0.075	= 1.58 "
	7 X	1.85 X	1.20 X	0.075	= 1.17 "
	9 X	1.42 X	1.50 X	0.075	= 1.44 "
	2 X	11.30 X	3.75 X	0.075	= 6.36 "
			Total =		40.80 m ²

2¹/₂ providing layers, spreading
and compacting stone to
width - Gr 3.
in pot - patches

	6 X	1.20 X	1.70 X	0.075	= 0.92 m ²
	3 X	2.75 X	1.95 X	0.075	= 1.21 "
	2 X	25.00 X	3.75 X	0.075	= 14.06 "
	6 X	0.70 X	1.20 X	0.075	= 0.38 "
	5 X	6.05 X	1.75 X	0.075	= 3.97 "
	4 X	11.85 X	2.70 X	0.075	= 9.60 "
	12 X	2.85 X	2.70 X	0.075	= 6.93 "
	5 X	4.05 X	1.82 X	0.075	= 2.76 "
	5 X	1.47 X	1.65 X	0.075	= 0.91 "
	21 X	1.52 X	1.45 X	0.075	= 3.49 "
	4 X	7.05 X	1.45 X	0.075	= 3.07 "
	8 X	1.65 X	1.64 X	0.075	= 1.62 "
	9 X	0.90 X	1.20 X	0.075	= 0.73 "
	3 X	2.35 X	1.70 X	0.075	= 0.90 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	19 X	1.35 X	1.10 X	0.075 =	2.31 m ²
	4 X	6.05 X	1.64 X	0.075 =	2.98 "
	5 X	0.96 X	1.30 X	0.075 =	0.47 "
	12 X	2.35 X	2.20 X	0.075 =	4.65 "
	3 X	1.60 X	1.70 X	0.075 =	0.61 "
	7 X	1.79 X	1.68 X	0.075 =	1.58 "
	3 X	8.75 X	2.15 X	0.075 =	4.23 "
	2 X	3.45 X	2.75 X	0.075 =	1.42 "
	6 X	1.39 X	1.50 X	0.075 =	0.94 "
	13 X	1.26 X	1.48 X	0.075 =	1.82 "
	13 X	4.50 X	1.70 X	0.075 =	7.46 "
			Total		80.120 m ² 79.02 m ²

In widening of road

$$2 \times 60 \times 30.00 \times 0.375 \times 0.075 = 101.25 \text{ m}^2$$

$$2 \times 1 \times 8.00 \times 0.375 \times 0.075 = 0.45 "$$

In filling area

$$3 \times 30.00 \times 3.75 \times 0.075 = 25.31 "$$

$$1 \times 2.00 \times 3.75 \times 0.075 = 0.56 "$$

On H. Cone

$$5 \times 16.50 \times \left(\frac{3.75 + 4.10 + 3.75}{3} - 3.75 \right) \times 0.075 = 0.72 "$$

$$\text{Total} = 207.31 \text{ m}^2$$

4 providing and applying primer

Cost (SS-1)

In pot patches

$$6 \times 1.20 \times 1.70 \times 0.075 = 12.24 \text{ m}^2$$

$$3 \times 2.75 \times 1.95 = 16.09 "$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2 X	25.00 X	2.75	-	187.50 m ²
	6 X	0.70 X	1.20	-	5.04 "
	5 X	6.05 X	1.75	-	52.94 "
	4 X	11.85 X	2.70	-	127.98 "
	12 X	2.85 X	2.70	-	92.34 "
	5 X	4.05 X	1.82	-	36.86 "
	5 X	1.47 X	1.65	-	12.13 "
	21 X	1.51 X	1.45	-	46.59 "
	4 X	7.05 X	1.45	-	40.89 "
	8 X	1.65 X	1.64	-	21.65 "
	9 X	0.90 X	1.20	-	9.72 "
	3 X	2.25 X	1.70	-	11.93 "
	19 X	1.35 X	1.20	-	30.78 "
	4 X	6.05 X	1.64	-	39.69 "
	5 X	0.96 X	1.30	-	6.24 "
	12 X	2.35 X	2.20	-	62.04 "
	3 X	1.60 X	1.70	-	8.16 "
	7 X	1.79 X	1.68	-	21.05 "
	3 X	8.75 X	2.15	-	56.44 "
	2 X	3.45 X	2.75	-	18.98 "
	6 X	1.39 X	1.50	-	12.51 "
	13 X	1.26 X	1.98	-	24.24 "
	13 X	4.10 X	1.70	-	99.45 "
			Total	=	1053.57 m ²
On Handwidening area =					
	2 X	60 X	30.00 X	0.375	1350.00 m ²
	2 X	1 X	8.00 X	3.75	6.00 "
Continuation					1356.00 m ²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Inilly area					
	3X	20.00	3.75	-	337.50
	1X	2.00	3.75	-	7.50
In H. cur					
	5X	16.50	$\frac{3.75 + 4.00 + 3.75}{3}$		
			3.75		9.62
	Total =				2764.11
Allyed to					
18/05/20					
DR					
Revised measurement					
1. paving, laying and rolling patch work over W.M. Using mix soil surface. In pot-patches					
	6X	1.20	1.70	-	12.24 m ²
	3X	2.75	1.95	-	16.09 "
	2X	25.00	3.75	-	187.50 "
	6X	0.70	1.20	-	5.04 "
	5X	6.05	1.75	-	52.94 "
	4X	11.85	2.70	-	127.98 "
	12X	2.85	2.70	-	92.34 "
	5X	4.05	1.82	-	36.86 "
	5X	1.47	1.65	-	12.13 "

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	21 X	1.53 X	1.45	-	46.59 m ²
	4 X	2.05 X	1.45	-	40.89 "
	8 X	1.65 X	1.64	-	21.65 "
	9 X	0.90 X	1.20	-	9.72 "
	3 X	2.35 X	1.70	-	11.89 "
	19 X	1.35 X	1.20	-	30.78 "
	4 X	6.05 X	1.64	-	39.69 "
	5 X	0.96 X	1.30	-	6.24 "
	12 X	2.35 X	2.20	-	62.04 "
	3 X	1.60 X	1.70	-	8.16 "
	7 X	1.29 X	1.68	-	21.05 "
	3 X	8.25 X	2.15	-	56.44 "
	2 X	3.45 X	2.75	-	18.98 "
	6 X	1.29 X	1.50	-	12.51 "
	13 X	1.26 X	1.48	-	24.24 "
	13 X	4.70 X	1.70	-	103.87
				TOTAL =	1057.93 m ²
<i>In ce port</i>					
	26 X	30.00 X	3.00	-	2340.00 m ²
	1 X	20.00 X	3.00	-	60.00 "
<i>Hi. curve</i>					
	15 X	17.00 X	3.75	3	
				- 3.75	29.25 m ²
<i>Inventory & apply</i>					
				TOTAL =	3487.68 m ²
<i>Isen coat</i>					
	26 X	30.00 X	3.75	=	2925.00 m ²
	1 X	20.00 X	3.75	=	75.00 "
				TOTAL =	3000.00 m ²
<i>Repair</i>					
	20/05/2000				
	Ju				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised measure</u>					
1. Providing and applying base coat (R.S.)					
H-Cure	32 X 30.00 m	2.75			= 3600.00 m ²
2. Providing and laying semi dense bituminous concrete	8 X 17.00 m	$(\frac{2.75 + 4.10 + 3.75}{3} - 3.75)$			15.87 m ²
					Total = 3615.87 m ²
	32 X 30.00 m	2.75	0.025		= 90.00 m ²
H-Cure	8 X 17.00 m	$(\frac{2.75 + 4.10 + 3.75}{3} - 3.75)$			0.40 m ²
					Total = 90.40 m ²
Approved by	26/10/2020				
<u>Revised measure</u>					
1. Providing and applying					
Ischment (R.S.)	31 X 30.00 m	2.75			= 3487.50 m ²
	1 X 10.00 m	2.75			37.50 m ²
H-Cure	9 X 17.00 m	$(\frac{3.75 + 4.10 + 3.75}{3} - 3.75)$			= 22.95 m ²
					Total = 3547.95 m ²
2. Providing and laying					
Semi dense bituminous					

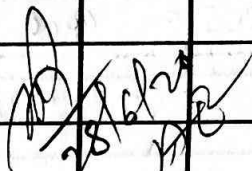
Continuation

Continuation *Total = 20.16 per*

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Painting two coats on Cement plaster					
Side	4.00	6.00	0.60	=	14.40 m ²
Top	2.00	6.00	0.40	=	4.80 m ²
Point	4.00	0.40	0.60	=	0.96 m ²
Total =					20.16 m ²

Accepted by
28/06/2006
JK


28/06/2006
JK

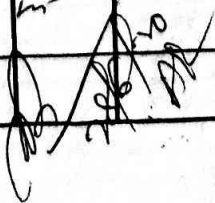
Material Statement

1	Earth work	= 165.60 m ³
2	Stone metal	= 241.57 m ³
3	Stone Screening	= 37.26 m ³
4	Binding material (M.M.S.)	= 3.264 m ³
5	Prismar Gravel (G.S.)	= 1.239 MT
6	Truck load (Kil.)	= 2.995 MT
7	Bitumen 5-10	= 27.299 MT
8	Stone crushed aggregate	= 178.92 m ³
9	Stone chips	= 256.17 m ³

Accepted by

28/06/2006 Continuation

JK


28/06/2006
JK

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
<u>1/4 Clearing & grubbing road</u>					
wide TMB per m. = 12.02249					
@ Rs. 53634.72/m				Rs. 11809.00	
<u>2/2 Scouring the existing DF</u>					
Surface wide TMB per m. = 1					
= 514.05 m ² @ Rs. 17.27/m ²				Rs. 8878.00	
<u>3/2 Construction of sub grade and</u>					
<u>earthen shoulder wide TMB</u>					
per m. = 22165.60 m ³ @ Rs.				Rs. 32838.00	
198.30 / m ³					
<u>4/4 Construction of granular</u>					
<u>sub base wide TMB per m. = 3</u>					
= 244.41 m ³ Limited to					
77.96 m ³ as per agreement					
@ Rs. 3483.26 / m ³				Rs. 27155.00	
<u>5/5 Provide, laying, spreading</u>					
<u>WBM Gr-2 wide TMB per m</u>					
= 40.80 m ³ @ Rs. 6610.34				Rs. 269702.00	
per m ³					
<u>6/6 Provide, laying, spreading</u>					
<u>WBM-Gr-3 wide TMB per m</u>					
= 207.31 m ³ Limited to					
109.364 m ³ as per agreement					
@ Rs. 6013.408 / m ³				Rs. 657626.00	

Continuation Total Rs. 1252399.00

C/P

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7 7 Providing and applying primer Coat (2H) wide TMS page no 7 = 2764.11 m ² Limited to 1458.138 m ² as per agreement @ Rs. 47.49 / m ² Rs 69249.00					
8 8 Providing, laying and rolling polymer surfacing wide TMS page no. 8 = 3487.68 m ² @ Rs. 266.16 / m ² Rs 928281.00					
9 9 Providing and applying three Coat (2.5H) wide TMS page no. 9 = 3615.87 m ² page no. 8 = 3000 m ² page no. 9 = 3547.95 m ² Total = 10163.82 m ² @ Rs. 16.29 / m ² Rs 165569.00					
10 10 Providing and laying semi dense bituminous concrete wide TMS page no. 9 = 90.40 m ² wide TMS page no. 10 = 88.74 m ² Total = 179.14 m ² @ Rs. 13479.98 / m ² Rs 2414809.00					
11 11 Providing and laying hot applied thermoplastic wide TMS page no. 10 = 380.00 m ² @ Rs. 800.60 / m ² Rs 315628.00					

Continuation

Total Rs 7986930.00
5145930.00

C/E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
12/19 Boundary and Fixing mms sy Informatory sign 3000 2000 vide TMS page no. 10 = 2 nos.					
@ Rs. 10427.56 / EOL					Rs 20855.00
13/20 Brick Masonry in parapet vide TMS page no. 10 = 288 m					
@ Rs. 6321.29 / m ²					Rs 18205.00
14/20 Plastering with cement vide TMS page no. 10 = 2016 m ²					
@ Rs. 224.16 / m ²					Rs 4519.00
15/20 Painting two coat parapet vide TMS page no. 11 = 2016 m ² @ Rs. 100.25 / m ²					Rs 2021.00
Total P. Rs. 5191530.00					
(less 0.03% copayment)					Rs 1557.00
Payable amount					Rs. 5189973.00
<i>My signature</i> 28/06/2020 R2 <i>[Signature]</i> 28/06/2020 E.E.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: Cons M/L of road from					
Rahus to Machhalan					
Agency: Sabir Hussain, Malekiala,					
West Champain					
Agreement NO: RL-N/15-20 Regd 02/01					
Date of start: 25/11/2015					
Date of completion: 24/08/2016					
Date of actual completion					
Recd receipt					
1. Construction of drain work					
=	2X33	X70.00	X1.50	X0.30	=683.10 m ³
	2X1	X18.00	X1.15	X0.30	=12.42
				Total.	695.52 m ³
2. Parapet					
Part of two crest					
Side	2X	4.00	X6.00	X0.60	=28.80 m ³
Top	2X	2.00	X6.00	X0.40	=9.60 m ³
Front	2X	4.00	X0.40	X0.60	=1.92 m ³
				Total Rs	40.32 m ³
3. Paving 10m stone post					3 nos.
4. Paving 20m stone post					7 nos.
5. Paving & creeps drain					
and identification local					
	3X	1.20	X0.80		=2.88 m ³
6. Paving Line, Dams, Aduwa					
etc	10X	1.00	X0.10		=10 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 Clearing and grading of road vide TMD pg w. 12 = 0.2411					
@ Rs. 53634 = 73/Hr				Rs	11800 = 0
² / ₂ 5 Compiling existing bitumens Surface vide TMD pg w. 12 =					
574.05 m ² @ Rs. 17.27/m ²				Rs	8878 = 0
³ / ₃ Const. of subgrade and e- shoulder vide TMD pg w.					
12 = 165.60 m ² + vide TMD					
pg w. 16 = 695.52 m ² Total					
861.12 m ² restricted to					
131.00 m ² @ Rs. 15 = 1965 = 0				Rs	1965 = 0
⁴ / ₄ Const. of G.S.B. vide TMD					
pg w. 12 = 77.963 m ² @					
Rs. 3483 = 26/m ²				Rs	271564 = 0
⁵ / ₅ Prev. layer WBM Gr. 1 vide					
TMD pg w. 12 = 40.80 m ²					
@ Rs. 6610 = 34/m ²				Rs	269702 = 0
⁶ / ₆ Prev. layer WBM Gr. 2 vide					
TMD pg w. 12 = 109.364 m ²					657651 = 0
@ Rs. 6013 = 418/m ²				Rs	692552 = 0
⁷ / ₇ Prev. and applying primer coat (SS-1) vide TMD pg w.					
12 = 1458.186 m ² @ Rs. 47 = 4939					
per m				Rs	69255 = 0

Continuation Total Rs 850967 = 0

1439163 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/8 Prov., laying, and rolling premix Surface vide TMB pg no. 13 = 3487 = 68 m ² @ Rs. 266.16/m ²					Rs. 928281.00
9/9 Prov. and applying tack coat (Rs.) vide TMB pg no. 13 = 10162 = 82 m ² @ Rs. 16.29/m ²					Rs. 165569.00
10/10 Prov. and laying SDBC vide TMB pg no. 13 = 179.14 m ² @ Rs. 13479.98/m ²					Rs. 2414804.00
11/11 (i) Prov. km stone post vide TMB pg no. 16 = 3 nos. @ Rs. 2985.32/each					Rs. 8955.96
(ii) Prov. 200 mm stone vide TMB pg no. 16 = 7 nos. @ Rs. 788.24/each					Rs. 5521.00
12/12 Prov. & casting drains and identification board vide TMB pg no. 16 = 2.88 m ² @ Rs. 14140.49/m ²					Rs. 40725.00
13/13 Painting (me. base) vide vide TMB pg no. 13 = 10 m ² @ Rs. 83.33/m ²					Rs. 833.00
14/14 (i) Prov. 60 mm tongue board vide TMB pg no. 17 = 22 nos. @ Rs. 4308.286/each					Rs. 99104.00
(ii) Prov. 600 mm circular board vide TMB pg no. 17 = 6 nos. @ Rs. 4426.18/each					Rs. 26557.00

Continuation

Total Rs. 4541319.00
5729715.00

9/2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
14 (ii) Prov. 600 mm x 450 mm rectangular 14 Load side two pgs. 17 = 6 nos					
@ Rs 4278 = 81 / Ea				Rs 25673 = 2	
15 Prov. boundary filler side 15 Two pgs. 17 = 1 no					
Rs 632 = 788 / Ea				Rs 63279 = 2	
16 Painting new letter side 16 Two pgs. 17 = 352 per cm					
Rs 191 = 5423				Rs 191 = 2	
17 Planting of tree side two 17 pgs. 17 = 95 nos					
Rs 877 = 02 / Ea				Rs 83316 = 2	
18 Prov. 4 layer road masonry 18 wide two pgs. 13 = 380 m					
@ Rs 830 = 10 / m ²				Rs 315626 = 2	
19 Prov. ad fixing masonry Load 19 wide two pgs. 14 = 2 nos					
@ Rs 10427 = 56 / Ea				Rs 20853 = 0	
20 (i) Brick masonry in parapet 20 wide two pgs. 14 = 2.88 m					
@ Rs 6321 = 29 / m ²				Rs 18205 = 2	
20 (ii) Plastering in parapet side 20 Two pgs. 14 = 224.16 m ² 20.16 m					
@ Rs 224 = 16 / m ²				Rs 4519 = 2	

Continuation Total Rs 507298222

5661379 =

c/r

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
20 (m) Party two cuts with TMA					
per 142		20.16 m		with TMA	
per 40.22				Total 60.48 m	
restricted to		58.56 m		@ R ₂	
100.25 per				R ₂	5871.00
				Total Rs	5667200.00
less 0.02% as per grant				R ₂	1700.00
				Total R ₂	5665500.00
less paid Amount				R ₂	5189923.00
				Payable Amount Rs	4755577.00
replies					