

Budharva Pmbsy Road to Sc - b1a  
mmms/SC

347

# Measurement Book

Schedule XLV-Form No. 134

Bagha - 2

DIVISION

Bhifaha

SUB-DIVISION

प्रभावित किया जाना वे कि इसमें पुरावे  
वे दोहरी मशीन द्वारा बनाए गए (100 लक्ष रु.)  
प्रदूषित किया जाना अब एक विशेष  
कानून के द्वारा किया जाता है।

~~ABHISHEK RWD~~  
**Executive Engineer**  
**RWD (W) Div. Bagha-2**

Sch, XLV-Form No. 134

Bagha-2 DIVISION

Bhifaha SUB-DIVISION

## Measurement Book

No. 342

Name of Officer

~~ABHISHEK RWD~~  
**Executive Engineer**  
**RWD (W) Div. Bagha-2**

Date of first entry \_\_\_\_\_

Date of last entry \_\_\_\_\_

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.	
Name of work = Buldhara P.M.G.J.Y					
used to SC tols					
Agency = Munna Kumar Daiswala					
Dagalo west Chempur					
Agreement No. 19 SBD of 20-01					
Agreement Amount = Rs. 8560266/-					
Date of Start = 01/06/2020					
Date of Completion = 31/05/2021					
Record measurement					

1. Cleaning and grubbing of  
soil land:

$$2 \times 28 \times 30.00 \times 1.50 = 2520.00 \text{ m}^3$$

$$2 \times 1 \times 25.00 \times 1.50 = 75.00 \text{ m}^3$$

$$\text{Total} = 2595.00 \text{ m}^3$$

$$\text{Say} = 0.26 \text{ Hg}$$

2. Construction of working platform = 0.870 km

3. Construction of reference pillar = 0.870 km

4. Construction of embankment

$$28 \times 30.00 \times \left( \frac{6+6.33-0+4.9}{2} \right)$$

$$\times 0.45 = 882 \text{ m}^3$$

$$1 \times 25.00 \times \left( \frac{6+4.5-2.1+4.2}{2} \right)$$

$$\times 0.20 = 8.00 \text{ m}^3$$

$$\text{Total} = 934.10 \text{ m}^3$$

## Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(a) Construction of embankment -					
..... land up to 1000 m					= 280.29 m <sup>3</sup>
(b) Construction of embankment					
..... land up to 100m					= 653.87 m <sup>3</sup>
	14 X 30.				
5: Construction of sub-grade					
and earthen Shoulders					
14 X 30.00 m x 6.13 m x 0.39 = 1004.09 m <sup>3</sup>					
1 X 18.00 m x 6.13 x 0.39 = 43.03 m <sup>3</sup>					
	Total				= 1047.12 m <sup>3</sup>
6: Excavation for roadway					
In Pcc portion					
2 X 6 X 30.00 m x 0.375 x 0.100 = 13.50 m <sup>3</sup>					
2 X 1 X 3.00 m x 0.375 x 0.100 = 0.23 m <sup>3</sup>					
In footway pcc for widening					
2 X 2 X 30.00 m x 0.375 x 0.175 = 27.56 m <sup>3</sup>					
2 X 1 X 12.00 m x 0.375 x 0.175 = 1.58 m <sup>3</sup>					
	Total				= 42.87 m <sup>3</sup>
7: Construction of G.W.B					
2 X 6 X 30.00 m x 0.375 x 0.100 = 13.50 m <sup>3</sup>					
2 X 1 X 3.00 m x 0.375 x 0.100 = 0.23 m <sup>3</sup>					
14 X 30.00 m x 4.05 m x 0.200 = 340.20 m <sup>3</sup>					
1 X 18.00 m x 4.05 m x 0.200 = 14.58 m <sup>3</sup>					
22.00 m x 1.750 x 0.100 = 8.25 m <sup>3</sup>					
2 X 2 X 30.00 m x 0.375 x 0.100 = 15.75 m <sup>3</sup>					
2 X 1 X 12.00 m x 0.375 x 0.100 = 0.90 m <sup>3</sup>					

## Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Excess	$2 \times 15 \text{ m} \times \frac{(4.8 + 4.0)}{2} = 6.05$				$\times 0.20 = 2.25 \text{ m}^2$
	$6 \times 16 \times \frac{(4.05 + 4.5 + 4.0)}{3} = 6.07$				$\times 0.20 = 2.88 \text{ m}^2$
Level &	$4 \times 9.2 \times 1.60 \times 0.1 = 5.76 \text{ m}^2$				
PT repair	$3 \times 5.50 \times 1.20 \times 0.2 = 3.96 \text{ m}^2$				
					<del>Total = 406.82 m<sup>3</sup></del> <del>408.28 m<sup>3</sup></del>
S = Boundary, bay, spreading and compacting stone aggregate 1st BM Gr. 2	$2 \times 20 \times 3.75 \times 0.075 = 177.15 \text{ m}^3$				
	$1 \times 16.0 \times 3.75 \times 0.025 = 4.50 \text{ m}^3$				
	$2 \times 7 \times 21.0 \times 0.375 \times 0.075 = 11.81 \text{ m}^3$				
	$2 \times 1 \times 12.0 \times 0.375 \times 0.075 = 0.68 \text{ m}^3$				
	<del><math>2 \times 2.5 \times \frac{(3.75 + 4.10)}{2} = 2.25</math></del>				<del><math>\times 0.075 = 1.31 \text{ m}^3</math></del>
	<del><math>3 \times 20 \times \frac{(3.75 + 4.10 + 2.75)}{3} = 7.75</math></del>				<del><math>\times 0.075 = 1.40 \text{ m}^3</math></del>
					Total m <sup>3</sup> 196.89 m <sup>3</sup>
S Boundary					
Actual m <sup>3</sup>					
	01/06/2020				
	TR				
Record measurement					
E Boundary ad aply 1-7					
prime cont with 55-1					
	$14 \times 30.0 \times 3.75 = 1575.0 \text{ m}^3$				
	$1 \times 18.0 \times 1.75 = 67.50 \text{ m}^3$				
junction	$2 \times 20 \times \frac{(3.75 + 4.10)}{2} = 3.75 = 13.50 \text{ m}^3$				
curve	$10 \times 21 \times \frac{(3.75 + 4.2)}{3} = 2.75 = 31.50 \text{ m}^3$				
					Total = 1687.50

## Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Providing and applying screed Cost (Rs.)					
=	14X 30.00 X 3.75				- 1575.00/-
=	1X 18.00 X 3.75				- 67.50/-
Junction	2X 20.00 X ( $\frac{3.75 + 4.2}{2} - 3.75$ )				13.50/-
curve	10X 21X ( $\frac{3.75 + 4.2 + 3.75}{2} - 3.75$ )				31.50/-
					Total = 1682.50/-
3. Providing, laying and rolling Premix surfacing					
	14X 30.00 X 3.75				- 1575.00/-
	1X 18.00 X 3.75				- 67.50/-
Junction	2X 20.00 X ( $\frac{3.75 + 4.2}{2} - 3.75$ )				13.50/-
curve	10X 21X ( $\frac{3.75 + 4.2 + 3.75}{2} - 3.75$ )				31.50/-
					Total = 1682.50/-
4. Construction of Un-reinforced plain cement concrete					
	6X 30.00 X 3.75 X 0.150 = 101.25 m <sup>3</sup>				
	5X 30.00 X 3.75 X 0.160 = 90.00 m <sup>3</sup>				
					Total = 191.25 m <sup>3</sup>
5. Providing and fixing typical mmgjy infill					
Sqm	Square				200/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
1 Construction of working B.M.					
wide T.M.B page no. 1 = 0.870 km					
@ Rs 1285/-38/m					Rs. 11181.00
2 Construction of reference pillar					
wide T.M.B page no. 1 = 0.87 km					
@ Rs. 15078.89/m					Rs. 13119.00
3 Cleaning and grubbing road bed					
wide T.M.B page no. 1 = 0.264 km					
@ Rs. 51130.76/m					Rs. 13295.00
4 Construction of embankment					
road up to 100m wide					
T.M.B page no. 2 = 280.23m					
@ Rs 242.52/m <sup>3</sup>					Rs. 56752.00
5 Construction of sub grade					
wide T.M.B page no. 2 = 1047.12					
m <sup>2</sup> @ Rs 204.16/m <sup>2</sup>					Rs. 213780.00
6 Construction of embankment					
road up to 100m wide					
T.M.B page no. 2 = 653.87m <sup>3</sup>					
@ Rs 167.41/m <sup>3</sup>					Rs. 109464.00
7 Excavation for roadway					
wide T.M.B page no. 2 = 42.8?					
m <sup>3</sup> @ Rs 74.16/m <sup>3</sup>					Rs. 3179.00
8 Construction of granular					
sub-grade wide T.M.B page					
no. 3 = 408.26 m <sup>2</sup>					
Rs 4372.6/m <sup>2</sup>					Rs. 1785141.00

11 9905911

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/10 Providing, laying, spreading tarson - Gr. -> wide T.M.B. layer					
No. 3 = 196.83 m <sup>2</sup> Q					
Rs 5343.00 /m <sup>2</sup>					Rs 1052139.00
10/11 Providing and applying prime Coat (ss) wide T.M.B. layer					
No. 3 = 1687.50 m <sup>2</sup> Q					
Rs 45.30 /m <sup>2</sup>					Rs. 76444.00
11/12 Providing and applying prime Coat (R.s) wide T.M.B. layer					
No. 4 = 1687.50 m <sup>2</sup> Q					
Rs 15.35 /m <sup>2</sup>					Rs 25971.00
12/13 Providing mixed sand surfacing wide T.M.B.					
page no. 4 = 1687.50 m <sup>2</sup>					
@ Rs. 253.19 /m <sup>2</sup>					Rs 427258.00
13/14 Construction of plaster Cement concrete wide					
T.M.B. page no. 4 = 191.25 m <sup>2</sup>					
@ Rs. 8957.86 /m <sup>2</sup>					Rs 1713191.00
14/15 Providing and laying typical MMG dry sign board					
wide T.M.B. page no. 2 = 2 m <sup>2</sup>					
@ Rs. 11958.17 /Econ					Rs 23916.00
					Total 5524830.00
Addl 1% GST					Rs 662980.00
Addl 1% Con					Rs 55248.00
Addl Skimming					Rs 58481.00
					Total Rs 6301539.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/R	Rs	6301539.0
less 0.03% below as per specification					1890.0
Payable amount				Rs	6299649.0
<u>Meynd huk</u>					
		28/06/2008			
				TR	
<u>Material statement</u>					
1. R/T - 19.81.22 m <sup>3</sup>					(1.71/m <sup>3</sup> )
2. Stone metal = 581.75 m <sup>3</sup>					(516.42 ft <sup>3</sup> ) (411.33 m <sup>3</sup> )
3. crushed stone = 88.84 m <sup>3</sup>			146.97		(188.4 ft <sup>3</sup> )
4. Stone screening = 47.254 m <sup>3</sup>					(343.52/m <sup>3</sup> )
5. Primrose Coct (SS) = 1.434 MT					(41935.84/MT)
6. Tach Coat (R.C.) = 0.468 MT					(40148.84/MT)
7. Bitumen SS = 2.950 MT					(8429.32/MT)
8. Wasze plastic = 495.62 kg			256.50		
9. Stone Aggregate = 955.61 m <sup>3</sup>					(470.04/m <sup>3</sup> )
10. Stone chip = 172.125 m <sup>3</sup>			86.06		(550.85/m <sup>3</sup> )
11. Course sand = 77.458 m <sup>3</sup>					(614.17/m <sup>3</sup> )
12. Cement = 31.292 t			66.99 t		(5002.4/t)
13. Emailed sand egg = 455.60 m <sup>3</sup>					(470)
<u>Meynd huk</u>					
		28/06/2008			
			TR		

2nd on A/c Wng 5-11

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: <u>Repair road near Bhindharw PMSY road to SC toll</u>					
Agency: <u>Munna Kumar Jaiswal, Bopal</u>					
Agreement no.: <u>19 SBD of 20-2</u>					
Agreement Amount: <u>Rs 8560266/-</u>					
Date of start: <u>01/06/2020</u>					
Date of completion: <u>31/05/2021</u>					
<u>Record measurement</u>					
① Construction of subgrade and earth shoulder in					
Side of GDS 17.87 mtr					
$2 \times 14 \times 30.00 \times 1.48 \times 0.20 = 250.32 \text{ m}^3$					
$2 \times 1 \times 18.00 \times 1.48 \times 0.20 = 10.73 \text{ m}^3$					
Side of G-Band 13.81 mtr per					
$2 \times 14 \times 30.00 \times 1.51 \times 0.175 = 221.97 \text{ m}^3$					
$2 \times 1 \times 07.00 \times 1.51 \times 0.175 = 3.70 \text{ m}^3$					
Total m <sup>3</sup> <u>486.70</u>					
② laying of ready and compactible stone aggregate in WBm - Gr-3.					
$6.50 \text{ m} \times 3.75 \text{ m} \times 0.075 = 1.83 \text{ m}^3$					
③ Construction of reinforcement piping concrete					
$= 3 \times 30.00 \times 2.75 \times 0.160 = 54.10 \text{ m}^3$					
$1 \times 7.00 \times 2.75 \times 0.160 = 4.20 \text{ m}^3$					
Extra width at jn <u>2X 28-m X</u>	<u>4.40 + 2.75</u>	<u>- 3.75</u>			
	<u>2</u>				
		<u>X 0.075</u>			
		<u>= 1.27 m</u>			
H.m = $19 \times 28 - x \frac{(2.75 + 4.40 + 3.75)}{2}$					
		$- 2.75) \times 0.075 = 7.32 \text{ m}$			
		<u><del>7.82</del></u>			
		<u>Total = 66.89 m<sup>3</sup></u>			

Continuation

## Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 Ordinary Bedded Stone					1 m <sup>2</sup> .
5 20cm Stone (pavers)					4 m <sup>2</sup> .
6 Reinforced Cement Concrete					
M15 grade boundary filler					16 m <sup>3</sup> .
7 Poor and Coggy Mortar Thermoplastic Compound					
2X 28X 30-mm X 0.10					= 168.0 m <sup>2</sup>
2X 1X 25-mm X 0.10					= 5.0 m <sup>2</sup>
					Total = 173.0 m <sup>2</sup>
8 Bonding and Fixing Maintenance Board					= 2 m <sup>2</sup>
9 Mortar and Paint					
Nepal-hr					
03/m <sup>2</sup> /hrs					
JR					
Moderate Station					
1 E/W = 486.70 m <sup>2</sup> (1.71/n)					
2 Stone metal = 2.214 m <sup>2</sup> (458.24/n)					
3 Stone scarp = 0.44 m <sup>2</sup> (345.82/n)					
4 Stone chips = 60.20 m <sup>2</sup> (550.85/n)					
5 Course sand = 30.10 m <sup>2</sup> (614.12/n)					
6 cement = 0.23.41 t (5002.4/t)					
Nepal-hr					
03/m <sup>2</sup> /hrs					
T					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1		1552 m <sup>2</sup>	0.87 m		
1	Const. of working Ram rate				
	Tan <sup>2</sup> 15° = 5 = 0.87 m <sup>2</sup>				
	@ Rs 1285/- per km	m	11181 = ~		
2	Const. of Durbari rate				
	Tan <sup>2</sup> 15° = 5 = 0.87 m <sup>2</sup>				
	@ Rs 1507.8 = 0.87 m <sup>2</sup>	m	13118 = ~		
3	Cleaning and garbage road				
	rate MBS per m <sup>2</sup> = 0.264/-				
	@ Rs 51122 = 7.6 /m <sup>2</sup>	m <sup>2</sup>	13285 = ~		
4	Const. of embankment -				
	length 1000 m wide Tan <sup>2</sup> MBS				
	Rate per m <sup>2</sup> = 280.23 m <sup>2</sup>				
	@ Rs 280.23 /m <sup>2</sup>	m <sup>2</sup>	56752 = ~		
5	Const. of supgrade & earth				
	Shantikuli rate Tan <sup>2</sup> MBS per m <sup>2</sup>				
	5 = 1047.2, wide Tan <sup>2</sup> MBS				
	8 = 486.70,				
	Total = 1533.82 m <sup>2</sup> @ Rs 204.16				
	per m <sup>2</sup>				
					Rs 313145 = ~
6	Const. of embankment - /m <sup>2</sup>				
	upto 100 m = 5 = 653.87 m <sup>2</sup>				
	@ Rs 467.41 /m <sup>2</sup>				
					Rs 1094642 = ~
7	Excavation for dredging road				
	Tan <sup>2</sup> 15° = 5 = 42.87 m <sup>2</sup>				
	@ Rs 74 = 16 /m <sup>2</sup>				
					Rs. 51792 = ~
					Total Rs 520135 = ~

## Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 9 Const of G.S.B wide TMD page no 5 = 408.26 m <sup>2</sup>					
@ Rs. 4372.56 /m <sup>2</sup>					1785141=0
10 Driv. laying, spreading ground gr. B = side TMD page no					
6 = 196.89 m <sup>2</sup> , wide TMD page no					
8 = 1.83 m <sup>2</sup>					
Total: 198.72 m <sup>2</sup> @ Rs 5343.77 per m <sup>2</sup>					Rs 1061918=0
11 Driv. laying pine cut (SS-1) wide TMD page no 6					
2.1687.50 m <sup>2</sup> @ Rs 45230/m <sup>2</sup>					Rs 76444=0
12 Driv. and laying trees areas (Rs.) 1 side TMD page no. 6 =					
1687.50 m <sup>2</sup> @ Rs 15235/m <sup>2</sup> 25971=0					
13 Driv. mix seed surface					
wide TMD page no. 6 = 1687.50 m <sup>2</sup>					
@ Rs 253.19/m <sup>2</sup>					Rs 427258=0
14 Const of P.C.C. floor					
wide TMD page no 6 = 191.45 m <sup>2</sup>					
wide TMD page no 8 = 60.89 m <sup>2</sup>					
Total = 258.14 m <sup>2</sup>					
@ Rs 8957.86/m <sup>2</sup>					Rs 2312381=0
15 Driv. ordinary kerbstone					
Stone wide TMD page no 9					
= 1 m <sup>2</sup> @ Rs 2904.58/m <sup>2</sup>					Rs 2905=0
16 Driv. 200 m <sup>2</sup> stone just wide					
TMD page no 9 = 4.03 m <sup>2</sup> @ 1.12					
712 = 96 / 200 m <sup>2</sup>					Rs 2856=0

Total Rs 6215009=0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16 18 Pour. Recans boundary bldg wide TMB page no 9 = 16 m <sup>2</sup> @ Rs. 547=70 /Each					
					Rs 8763=00
17 21 Pour. Laying hot applied thermoplastic wide TMB page no 9 = 173.00 m <sup>2</sup> @ Rs. 735=44 /m <sup>2</sup>					Rs 1272312=00
18 22 Pour. & Fixing Massy sign Board wide TMB page no 6 = 2 m <sup>2</sup> @ Rs 11958.14 /Each					Rs 239162=00
19 24 Pour and Fixing maintenance Board wide TMB page no 9 = 2 m <sup>2</sup> @ Rs 11958.14 /Each					Rs 239162=00
					Total Rs. 6398835=00
Add'l PLT. GST					Rs 767860=00
Add'l PL. Cess					Rs. 63988=00
Add'l Seigniorage fee					Rs 67732=00
					Total Rs 7298415=00
less 0.03% as per grant					Rs 2190=00
less previous paid Amount by					0=00
Net payable Amount					Rs 7296225=00
Naya Bhd					
03/07/2020					
JY					
1874					