

~~mmssy/sc~~

347

Budharva Pmssy Road to SC to 1a

Measurement Book

Schedule XLV-Form No. 134

Bagha - 2

DIVISION

Bhifaha

SUB-DIVISION

प्रमाणित किया जाता है कि इस माप पुस्तक
की दोहरी मशीन द्वारा तैयार 100 (एक सौ)
पृष्ठ हैं जिसे क्रमिक एवं समस्त मिनट
के काम से तैयार किया जाता है।

AMH
11/6/70
Executive Engineer
RWD (W) Div. Bagha-2

Sch, XLV-Form No. 134

Bagha-2 DIVISION

Birfaha SUB-DIVISION

Measurement Book

No. 347

Name of Officer

AMH
11/6/70
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 = Budharva PNGJy					
road to SC tols					
Agency. Munra kumar Jaiswal					
Dagaha west Champaran					
Agreement No. 19 SAD of 20-21					
Agreement Amount = Rs. 8560266					
Date of Start = 01/06/2020					
Date of Completion = 31/05/2021					
Record measurement					

1/ clearing and grubbing of road land:

$2 \times 28 \times 30 \text{ m} \times 1.50$	-	$= 2520 \text{ m}^2$
$2 \times 1 \times 25 \text{ m} \times 1.50$	-	$= 75 \text{ m}^2$
Total:		2595 m^2
Say =		0.2649

2/ Construction of working D.M. = 0.870 km

3/ Construction of reference Pillar = 0.878 km

4/ Construction of Embankment

$28 \times 30 \text{ m} \times \left(\frac{6+6.38-0+4.4}{2} \right)$		
$\times 0.45$	=	882 m^2
$1 \times 25 \text{ m} \times \left(\frac{6+4.5}{2} - \frac{2.1+4.2}{2} \right)$		926.10 m^2
$\times 0.20$	=	8.10 m^2
Total:		934.10 m^2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Construction of embankment -					
Lead up to 1000 m					280.23 m ³
(4) Construction of embankment					
Lead up to 100 m					653.87 m ³
14 x 30.					
5: Construction of sub-grade					
and earthen shoulder					
14 x 30.00 x 6.13 x 0.39					1004.09 m ³
1 x 18.00 x 6.13 x 0.39					43.03 "
Total =					1047.12 m ³
6 Excavation for roadway					
in PCC portion					

2 x 6 x 30.00 x 0.375 x 0.100	13.50 m ³
2 x 1 x 3.00 x 0.375 x 0.100	0.23 m ³
In existing PCC for widening	
2 x 2 x 30.00 x 0.375 x 0.175	27.56 m ³
2 x 1 x 12.00 x 0.375 x 0.175	1.58 m ³
Total	
	42.87 m ³

7 Construction of G.S.B	
2 x 6 x 30.00 x 0.375 x 0.100	13.50 m ³
2 x 1 x 3.00 x 0.375 x 0.100	0.23 m ³
14 x 30.00 x 4.050 x 0.200	340.20 "
1 x 18.00 x 4.050 x 0.200	14.58 "
22.00 x 3.750 x 0.100	8.25 "
2 x 7 x 30.00 x 0.375 x 0.100	15.75 "
2 x 1 x 12.00 x 0.375 x 0.100	0.90 "

Sch. XLV-Form No. 134						
Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
Exter	2X	15m x	$\frac{4.8+4.05}{2}$	4.05		
			x 0.20	=	2.25 m ²	
	6X	16x	$\frac{4.05+4.5+4.5}{3}$	4.07		
			x 0.20	=	2.88 m ²	
levelly &	4X	9m x	1.60x	0.1	5.76 m ²	
for repair	2X	5.50x	1.20x	0.2	3.96 "	
			Total =		406.82 m ²	
					408.26 "	
8=	Providing, laying, spreading					
	and compacting stone fragments					
	21X	30m x	3.75x	0.075	177.19 m ²	
	1X	10m x	3.75x	0.075	4.50 "	
	2X	7x	31m x	0.375x	0.075	11.81 "
	2X	1X	12m x	0.375x	0.075	0.68 "
	2X	25m x	$\frac{3.75+4.10}{2}$	3.75		
			x 0.075	=	1.31 m ²	
	3X	20x	$\frac{3.75+4.10+3.75}{3}$	3.75		
			x 0.075	=	1.40 "	
			Total is		196.89 m ²	
	Providing					
	Miscellaneous					
			01/06/2020			
			FR			
	Revised measurement					
	Providing and applying					
	prime coat with SS-1					
	14X	30m x	3.75	=	1575.00 m ²	
	1X	18m x	3.75	=	67.50 "	
Junction	2X	30m x	$\frac{3.75+4.2}{2}$	3.75	13.50 "	
Curve	10X	21x	$\frac{3.75+4.2+3.75}{3}$	3.75	31.50 "	
			Total =		1687.50 m ²	

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Providing and applying floor coat (K.P.)					
=	14	20.00	3.75	-	1575.00 m ²
	1	18.00	3.75	-	67.50 "
Junction	2	20.00	$\frac{3.75 + 4.2}{2} = 3.75$	-	13.50 "
Curve	10	21	$\frac{3.75 + 4.2 + 3.75}{2} = 3.75$	-	31.50 "
			Total =		1687.50 "
3. Providing, laying and rolling Premix surfacing					
	14	20.00	3.75	-	1575.00 m ²
	1	18.00	3.75	-	67.50 "
Junction	2	20.00	$\frac{3.75 + 4.2}{2} = 3.75$	-	13.50 "
Curve	10	21	$\frac{3.75 + 4.2 + 3.75}{2} = 3.75$	-	31.50 "
			Total =		1687.50 "
4. Construction of Un-reinforced plain Cement concrete					
	6	30.00	3.75	0.150	101.25 m ³
	5	30.00	3.75	0.150	90.00 "
			Total		191.25 m ³
5. Providing and fixing typical M.M.G.S.J. ironwork					
Sign board					2 nos.

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Assignment of cost</u>					
<u>1/ Construction of working B.M</u>					
vide TMA page no 1 = 0.8706m					
@ Rs 12851.38 / m					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>9/10</u> Providing, laying, spreading 1:2:4 Gr-2 wide TMB type					
no. 3 = 196.89 m ² @					
Rs 5343.99 / m ²				Rs 1052139.00	
<u>10/14</u> Providing and applying prime Cement (SS1) wide TMB type					
no. 3 = 1687.50 m ² @					
Rs 45.30 / m ²				Rs 76444.00	
<u>11/12</u> Providing and applying 1st coat Cement (RS1) wide TMB type					
no. 4 = 1687.50 m ² @					
Rs 15.35 / m ²				Rs 25971.00	
<u>12/13</u> Providing mix sand Surfacing wide TMB					
page no. 4 = 1687.50 m ²					
@ Rs 253.19 / m ²				Rs 427258.00	
<u>13/14</u> Construction of Plain Cement concrete wide TMB type no 4 = 191.25 m ²					
@ Rs. 8957.86 / m ²				Rs 1713191.00	
<u>14/23</u> Providing and laying typical MMG by sign board wide T.M.B page no 2 = 2 m ²					
@ Rs 11958.14 / Eam				Rs 23916.00	
				Total	5524830.00
				Add 12% GST	Rs 662980.00
				Add 1% Cont	Rs 55248.00
				Add 5% Insurance	Rs 58481.00
				Total	Rs 6301539.00

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/R	RD	6301539.0
		less 0.03% below as per open			Rs 1890.00
		Payable Amount Rs			6299649.00
<u>Accepted by</u> 28/06/2020 <u>TR</u>					
<u>Material statement</u>					
1	R/W	19	81.22 m ²		(1.71/m ²)
2	Stone metal		581.98 m ²		(516.42 f 41133/m ²)
3	Crushed stone		88.84 m ²		(188.4/m ²)
4	Stone screening		47.25 m ²		(34552/m ²)
5	Primmer Coat (SS)		1.434 MT		(4193584/m ²)
6	Tsch Coat (RD)		0.464 MT		(40148.84/m ²)
7	Dittman S90		2.950 MT		(38429.32/m ²)
8	Waste plaster		455.63 kg		(256.50)
9	Stone Aggregate		455.63 m ²		(470.04/m ²)
10	Stone chip		172.125 m ²		(550.85/m ²)
11	Course sand		86.06 m ²		(614.17/m ²)
12	Cement		31.282 t		(5002.4/t)
13	Estimated SMC off		455.63		(470)
<u>Accepted by</u> 28/06/2020 <u>TR</u>					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: Re-road ^{Re-road} ma ^{ma} Chidhawan ^{PMGSY} road to SC to 19 Agency: Munna Kumar Jaiswal, Bopal, West Champaran					
Agreement no. 19 SBD of 20-21					
Agreement Amount: Rs 8560266 =					
Date of Start: 01/06/2020					
Date of completion: 31/05/2021					
<u>Re-road measurement</u>					
① Construction of subgrade and earthen shoulder in					
Side of GSB in BT pattern					
$2 \times 14 \times 30 \text{ m} \times 1.49 \times 0.2 \text{ m}$					$= 250.32 \text{ m}^3$
$2 \times 1 \times 18 \text{ m} \times 1.49 \times 0.2 \text{ m}$					$= 10.73 \text{ m}^3$
Side of G-B and WBM MCC for					
$2 \times 14 \times 30 \text{ m} \times 1.51 \times 0.175$					$= 221.97 \text{ m}^3$
$2 \times 1 \times 07 \text{ m} \times 1.51 \times 0.175$					$= 3.70 \text{ m}^3$
Total Rs					486.70 m^3
② Laying of road and					
compacting stone granules					
in WBM - Gr-3.					
$6.50 \text{ m} \times 3.75 \text{ m} \times 0.075$					$= 1.83 \text{ m}^3$
③ Construction of curb from					
plain cement concrete					
$= 3 \times 30 \text{ m} \times 2.75 \times 0.160$					$= 54.00 \text{ m}^3$
$1 \times 7 \text{ m} \times 2.75 \times 0.160$					$= 4.20 \text{ m}^3$
Extra width at junction					
$2 \times 28 \text{ m} \times \left(\frac{4.40 + 2.75}{2} - 2.75 \right) \times 0.075$					$= 1.37 \text{ m}^3$
Here					
$= 19 \times 28 \text{ m} \times \left(\frac{2.75 + 4.00 + 2.75}{2} - 2.75 \right) \times 0.075$					$= 7.32 \text{ m}^3$
					7.83 m^3
Total =					66.89 m^3

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 Ordinary kilometer Stone					1 ws.
5 200m Stone (Paved)					4 ws.
6 Reinforced Cement concrete					
M15 grade boundary pillar					16 ws.
7 Prov. and Corgg, not apply					
thermo plastic compound					
2X 28X 30.00 X 0.10					= 168.00 m
2X 1X 25.00 X 0.10					= 5.00 "
					Total = 173.00 m
8 Provisional fixing					
Maintenance board					= 24 ws
9 Provisional at 1/2 of					

Accepted by
03/11/20
TR

Material Statement

1	E/W = 486.00 m ²	(1.71/m)
2	Stone metal = 2.214 m ²	(458.24/m)
3	Stone screw = 0.44 m ²	(345.82/m)
4	Stone chips = 60.20 m ²	(550.85/m)
5	Course sand = 30.10 m ²	(614.17/m)
6	Cement = 0.2541 t	(5002.4/t)

Accepted by
03/11/20
TR

Continuation

9/12

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 Const of G.S.B. vide TMD					
9 page no 5 = 408.26 m ²					
@ Rs. 4372.56 / m ²					Rs 1785141.20
2 Prov. layng, spreading W.O.M					
10 gr. 3 = vide TMD page no					
6 = 196.89 m ² , vide TMD page no					
8 = 1.83 m ²					
Total = 198.72 m ² @ Rs 5343.77					
per m ²					Rs 1061918.20
10 Prov. & applying prime coat					
11 (SS-1) vide TMD page no 26					
= 1687.50 m ² @ Rs 45230 / m ²					
					Rs 7644420
11 Prov. and applying pebble coat					
(Rs.) vide TMD page no. 6 =					
1687.50 m ² @ Rs 15235 / m ²					Rs 25971200
12 Prov. Mix Seal surface					
12 vide TMD page no. 6 = 1687.50 m ²					
@ Rs 253.19 / m ²					Rs 4272582.00
13 Const. of P.C.C. pavement					
14 vide TMD page no 6 = 191.45 m ²					
vide TMD page no 8 = 60.89 m ²					
Total = 252.34 m ²					
@ Rs 8957.86 / m ²					Rs 2312381.00
14 Prov. ordinary bituminous					
16 Stone vide TMD page no. 9					
= 1 m ² @ Rs 2904.58 / m ²					Rs 2905.00
15 Prov. 1, 200 mm Stone just vide					
17 TMD page no 9 = 403. @ Rs					
712.96 / m ²					Rs 2856.00
Total Rs 6215009.00					

Continuation