

Nitesh Kumar Singh.

Agno. 65 (SBD)/2020-21

N/W - Badahi to Baratan (Lahkhar)
Badahi to Baratan Road (Lahkhar)
Schedule XIV-Form No. 134
Head - MMGSY (Sc)

R. M. D (W) Jorani

DIVISION

Kharra

SUB-DIVISION

MEASUREMENT BOOK

M.B. 2764

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Road -					
Baratanik (Lahkhari)					
Agency -					
Nitesh Kumar Singh					
At Kalyampur					
P.O + P.S + Dist					
Tamni					
Ag. No.					
65 (S.B.D.) / 2020-21					
Date of Commencement					
10.12.2020					
Date of Completion					
09.12.2021					
Constn Cost + B					
53723					93820
Maint Cost B					
7683					10020
6140					703820
Date of Measurement					

① providing & fixing of working benchmarks & level

do. do. at complete job ^{By 0.3 KM} ~~0.286 KM~~

② clearing & grubbing Road land

1x1 x 14.0 x 3.50 = 49.00 m²

1x4 x 30.0 x 3.50 = 420.00 m²

1x5 x 20.0 x 3.50 = 525.00 m²

1x1 x 16.0 x 3.50 = 56.00 m²

for DTY = 1001 m²

DTY = 0.1001 Ha.

DTY = 1050.00 m²

DTY = 0.105 Ha.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3) Construction of embankment					
with material obtained from					
borrow pit do-do all complete					
As per Graph					
SINO	CH	Area	mean Area	Dst	Volume.
48	4700	0.560	0.505	100	50.500
49	4800	0.230	0.395	100	39.500
50	4900	0.250	0.240	100	24.000
51	5000	0.210	0.230	100	23.000
				Qty	137.0 m ³
For 1000mm lead 30% =				41.1 m ³	
For 100mm lead 70% =				95.9 m ³	

④ construction of subgrade & earthen shoulder do-do all complete					
4 x 30.00 x 8.10 + 7.50 x 0.300 = 280.8 m ³					
1 x 3.00 x 6.2 x 0.300 = 5.58 m ³					
				Qty =	286.38 m ³
⑤ construction of G.S.B					
G.S. do do all complete					
B.T. portion					
4 x 30.00 x 4.05 x 0.200 = 97.2 m ³					
1 x 30.00 x 4.05 + 5.00 + 4.05 x 0.200 = 26.19 m ³					
3 x 30.00 x 4.05 x 0.200 = 72.9 m ³					
1 x 3.00 x 4.05 x 0.200 = 2.43 m ³					
				Qty =	198.72 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ construction of G.S.D. btl					
do-do all complete job					
C.C. Portion					
8x30.00 x 3.75 x 0.100					= 33.75 m ³
2x30.00 x 3.75 x 0.100					= 22.5 m ³
1x27.00 x 3.75 x 0.100					= 10.125 m ³
					Qty = 66.375 m ³
⑦ providing, laying, spreading & compacting W.B.M. for					
do-do all complete job					
(BT Portion)					
10x30.00 x 3.75 x 0.075					= 84.375 m ³
1x30.00 x $\frac{3.75+4.70+3.75}{3}$ x 0.075					= 9.149 m ³
3x30.00 x 3.75 x 0.075					= 25.312 m ³
10x30.00 x 3.75 x 0.075					= 84.375 m ³
1x30.00 x $\frac{3.75+4.30+3.75}{3}$ x 0.075					= 8.849 m ³
10x30.00 x 3.75 x 0.075					= 84.375 m ³
5x30.00 x 3.75 x 0.075					= 42.187 m ³
1x30.00 x $\frac{3.75+4.05+3.75}{3}$ x 0.075					= 8.662 m ³
6x30.00 x 3.75 x 0.075					= 50.625 m ³
4x30.00 x 3.75 x 0.075					= 33.75 m ³
1x30.00 x $\frac{3.75+4.15+3.75}{3}$ x 0.075					= 8.737 m ³
10x30.00 x 3.75 x 0.075					= 84.375 m ³
2x30.00 x 3.75 x 0.075					= 16.875 m ³
1x30.00 x $\frac{3.75+4.05+3.75}{3}$ x 0.075					= 8.662 m ³
6x30.00 x 3.75 x 0.075					= 50.625 m ³
4x30.00 x 3.75 x 0.075					= 33.75 m ³
1x30.00 x $\frac{3.75+4.30+3.75}{3}$ x 0.075					= 8.849 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 X 30.00	X 3.75	X 0.075			84.375 m ³
1 X 30.00	X 3.75 + 4.05 + 3.75	X 0.075			8.662 m ³
5 X 30.00	X 3.75	X 0.075			42.187 m ³
1 X 9.00	X 3.75	X 0.075			2.531 m ³
6 X 30	X 3.75	X 0.075			50.625 m ³
				Sum =	831.912 m ³

For e.c. portion:

(Barkhulla)

$$1 \times 30.00 \times 3.75 + 4.05 + 3.75 \times 0.075 = 8.862 \text{ m}^3$$

$$5 \times 30.00 \times 3.75 \times 0.075 = 42.187 \text{ m}^3$$

$$1 \times 18.00 \times 3.75 + 4.05 + 3.75 \times 0.075 = 5.197 \text{ m}^3$$

$$5 \times 30.00 \times 3.75 \times 0.075 = 42.187 \text{ m}^3$$

$$5 \times 30.00 \times 3.75 \times 0.075 = 42.187 \text{ m}^3$$

$$3 \times 30.00 \times 3.75 \times 0.075 = 25.312 \text{ m}^3$$

$$1 \times 28.00 \times 3.75 \times 0.075 = 7.875 \text{ m}^3$$

$$3 \times 30.00 \times 3.75 \times 0.075 = 25.312 \text{ m}^3$$

$$4 \times 30.00 \times 3.75 \times 0.075 = 33.75 \text{ m}^3$$

$$1 \times 30.00 \times 3.75 + 4.05 + 3.75 \times 0.075 = 8.662 \text{ m}^3$$

$$1 \times 30.00 \times 3.75 \times 0.075 = 8.437 \text{ m}^3$$

$$1 \times 16.00 \times 3.75 \times 0.075 = 4.5 \text{ m}^3$$

$$2 \times 30.00 \times 3.75 \times 0.075 = 16.875 \text{ m}^3$$

$$1 \times 30.00 \times 3.75 + 4.05 + 3.75 \times 0.075 = 8.862 \text{ m}^3$$

$$4 \times 30.00 \times 3.75 \times 0.075 = 33.75 \text{ m}^3$$

$$1 \times 20.00 \times 3.75 + 4.25 + 3.75 \times 0.075 = 5.874 \text{ m}^3$$

$$3 \times 30.00 \times 3.75 \times 0.075 = 25.312 \text{ m}^3$$

$$4 \times 30.00 \times 3.75 \times 0.075 = 33.75 \text{ m}^3$$

$$1 \times 30.00 \times 3.75 + 4.25 + 3.75 \times 0.075 = 8.812 \text{ m}^3$$

$$3 \times 30.00 \times 3.75 \times 0.075 = 25.312 \text{ m}^3$$

$$1 \times 4.00 \times 3.75 \times 0.075 = 1.125 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x30.00x3.75+4.05+3.75x0.160					18.48m ³
1x30.00x3.75x0.160					18.00m ³
1x16.00x3.75x0.160					9.6m ³
2x30.00x3.75x0.160					36.00m ³
1x30.00x3.75+4.05+3.75x0.160					18.48m ³
4x30.00x3.75x0.160					72.00m ³
1x20.00x3.75+4.25+3.75x0.160					12.533m ³
3x30.00x3.75x0.160					54.00m ³
4x30.00x3.75x0.160					72.00m ³
1x30.00x3.75+4.25+3.75x0.160					18.799m ³
3x30.00x3.75x0.160					54.00m ³
1x4.00x3.75x0.160					2.4m ³
3x30.00x3.75x0.160					54.00m ³
2x30.00x3.75x0.160					36.00m ³
1x15.00x3.75+4.05+3.75x0.160					9.24m ³
4x30.00x3.75x0.160					72.00m ³
2x30.00x3.75x0.160					36.00m ³
1x15.00x3.75+4.05+3.75x0.160					9.24m ³
3x30.00x3.75x0.160					54.00m ³
2x30.00x3.75x0.160					36.00m ³
2x30.00x3.75x0.160					36.00m ³
1x15.00x3.75x0.160					9.00m ³
					1234.14m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) providing & laying of a reinforced cement concrete - pipe duct - 300 mm dia do do all complete job.					
30 X 7.50					= 225.00 m
1000 mm H.P culvert					
(10) E/W in excavation for bund do-do all complete job.					
H.W. - 2 X 6.450 X 1.400 X 1.500					= 27.09 m ³
Below pipe 1 X 4.850 X 1.530 X 0.365					= 2.708 m ³
					Qty = 29.798 m ³
					3 X 29.798 m ³ = 89.394 m ³
(11) providing p.c.c (1:2.5:5) as levelling course in - bund do-do all complete job.					
H.W. 2 X 6.450 X 1.400 X 0.150					= 2.709 m ³
Below pipe 1 X 4.931 X 1.530 X 0.250					= 1.886 m ³
					Qty = 4.595 m ³
					3 X 4.595 m ³ = 13.785 m ³
(12) plain/reinforced cement concrete (M-20) in Substructure do-do all complete jobs.					
H.W. - 2 X 6.150 X 0.825 X 3.180					= 32.264 m ³
Parapet 2 X 6.150 X 0.400 X 1.000					= 4.920 m ³
Cover Pipe - 2 X 0.7857 X 1.230 ² X 0.622					= 1.478 m ³
					Qty = 35.711 m ³
					3 X 35.711 m ³ = 107.133 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3) Providing & laying Red Pipe N/A for culverts do-do all complete job					
	3X	2.50		=	7.50 m
		3X	7.50m	=	22.5m
4) Painting on Parapet wall two coats primer coat do do-do all complete job					
Sp- 2X	6.150	X	0.400	=	4.920 m ²
Idc- 4X	6.150	X	0.600	=	14.760 m ²
Paint- 4X	0.400	X	0.600	=	0.960 m ²
				Qty=	20.640 m ²
	3X	20.640 m ²		=	61.92 m ²

Fig

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Ans

16/06/21

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2nd ON/14/6/11 Abstract of Cost

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Provision for fixing of working bench marks all over do-do all complete job.					
Qty vide item No - 1					
P. No - 11 Tm. B = 4.7 km					
Qty vide item No 1					
P. No - 17 Tm. B = 0.3 km					
Total Qty 2 5.0 km					
@ Rs 32824.298 / km Rs 164125.00					
② Cleaning & Grubbing Road Land					
Qty vide item No - 2					
P. No - 11 Tm. B = 1.645 HA					
Qty vide item No - 2					
P. No - 17 Tm. B = 0.105 HA					
Total Qty = 1.75 HA					
@ Rs 51133.276 / Ha Rs 89484.200					
③/④ Constructing stem bank/mulch with material obtained from borrow pits do do all complete work Land.					
Qty vide item No - 3					
P. No - 11 Tm. B = 356.85 m					
Qty vide item No 3					
P. No - 18 Tm. B = 41.1 m					
Qty = 397.95 m ³					
@ Rs 175.22 / m ³ Rs 69729.200					

Continuation

Rs 323338.200

Particulars	Details of actual measurement				Cont of a
	No.	L.	B.	D.	
	Bt	Rs	9541971	200	
(11/33) Providing & laying labour Silt board of de de du Qty vide item No-11 P.No-13 Tim.B = 5.10 No @ Rs 9329 = 80/No Rs 46649 = 00					
(12/9) Providing, laying, spreading & Compacting w/ 12 m. cr-3 do do all complete job, Qty vide item No-7 P.No-21 Tim.B = 1410.799 m ³ @ Rs 2121 = 90/m ³ Rs 2993574 = 00					
(13/14) Construction of un-reinforced plain cement to 3 grade cement					

do do all complete job					
Qty vide item No-8 P.No-22 Tim.B = 1234.14 m ³ @ Rs 7168 = 81/m ³ Rs 8847315 = 00					
(14/16) Providing laying of reinforced cement concrete pipe duct 300 mm do do do all complete job Qty vide item No-9 P.No-23 Tim.B = 225.10 m @ Rs 1586298/m Rs 357070 = 00					

Continuation

Rs 21786579 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		81R	217865	79	200
G.I.S.T 12%		R	2614389		200
Groundless 1%		R	217866		200
		R	24618834		200
Previous Payment		R	3054393		200
Concyl		R	215644	41	200
	21/12/21	15/6/2021		16/08/2021	

Material Statement

$$E/W = 171.25 \text{ m}^3$$

$$\text{Subgrade} = 357.975 \text{ m}^3$$

$$\text{G.I.S. B Gr (1)} = 339.321 \text{ m}^3$$

53 mm to 9.5 mm

$$169.660 \text{ m}^3 @ 416.42/\text{m}^3$$

9.5 mm to 2.36 mm

$$67.864 \text{ m}^3 @ 311.33/\text{m}^3$$

2.36 mm below

$$101.796 \text{ m}^3 @ 150.80/\text{m}^3$$

W.B.M Gr - 3

53 mm to 22.4 mm

$$1707.0 \text{ m}^3 @ 358.22/\text{m}^3$$

Stones screen type B 11.2 mm

$$338.591 \text{ m}^3 @ 245.52/\text{m}^3$$

Continuation