

MBNO: 3496

MMBSY / Genl

Schedule XLV-Form No. 134

Nagga Main Road from house of Daroga Singh

Madhabpur to Kumbhar Bel Bangga **DIVISION**

Smt. Ruba Kumari **SUB-DIVISION**

Talqabur

Measurement Book

1st & Final 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.	
N/W:— Construction of road from Nagra main road to House of Daroga Singh Madhepur to Kumbhar bel' Range & under MMSY (Ken) at block Jalalpur.					
N/Agency— Smt. Rupa Kumari					
Ass. MO—					
Date of start— 27.04.2022					
Date of completion— 26.01.2023					
Date of measurement— 15.11.2022					
<u>Items of work</u>					
(1) Plv & fixing of working Benchmark pillars = 0.435 Km					
(2) Plv & fixing of reference pillars = 0.435 Km.					
(3) clearing & grubbing of road land—					
	2 x 5 x 30.00m x 3.50m				1050.00m ²
	2 x 5 x 30.00m x 3.50m				1050.00m ²
	2 x 4 x 30.00m x 3.50m				840.00m ²
	2 x 1 x 15.00m x 3.50m				105.00m ²

Total = 3045.00m²

= 0.3045 Hectr

Continuation
 Qty Unit = 0.30 Hectr.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Box cutting — Excavation for roadway in soil using manual means.					
2 x 5 x 30.00 m x 0.375 m x 0.10 m					= 11.25 m ³
2 x 5 x 30.00 m x 0.375 m x 0.10 m					= 11.25 m ³
2 x 4 x 30.00 m x 0.375 m x 0.10 m					= 9.00 m ³
2 x 1 x 15.00 m x 0.375 m x 0.10 m					= 1.12 m ³
Total =					32.62 m ³
(5) Earthwork Calculation —					
Sl. No	chainage	C/S Area (m ²)	Mean C/S Area (m ²)	Dist. (m)	Volume (m ³)
1	0	4.126	2.062	0	0.00
2	50	4.622	4.373	50	218.65
3	100	4.726	4.674	50	233.70
4	150	4.965	4.845	50	242.25
5	200	4.856	4.910	50	245.50
6	250	4.482	4.669	50	233.45
7	300	4.820	4.651	50	232.55
8	350	4.728	4.772	50	238.62
9	400	4.612	4.668	50	233.40
10	435	4.715	4.663	35	163.20
(Earthwork including Total =					2041.32 m ³
Less for G.S.B. (→)					46.33 m ³
Less for W.M.B. (→)					124.65 m ³
Less for P.C.C. (→)					265.98 m ³
Net Qty of Earthwork =					1604.36 m ³
Less for then subgrade (→)					182.14 m ³
Net Qty of E/W in embankment =					1422.22 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Construction of gravel sub-base by providing well graded materials.					
In box cutting					
2 x 5 x 30.10m x 0.375m x 0.10m = 11.25m ³					
2 x 5 x 30.10m x 0.375m x 0.10m = 11.25m ³					
2 x 4 x 30.10m x 0.375m x 0.10m = 9.00m ³					
2 x 1 x 15.00m x 0.375m x 0.10m = 1.12m ³					
For profile correction,					
4 x 3.80m x 3.00m x 0.10m = 4.56m ³					
6 x 2.75m x 2.50m x 0.10m = 4.12m ³					
5 x 3.70m x 2.75m x 0.10m = 5.08m ³					
Extra width at H-cum,					
2 x 2.50m x 2.25m x 0.10m = 1.12m ³					
Total = 47.50m ³					
Qty limit = 46.33m ³					
⑦ P.V., Lining, spreading & compacting of WBM-3					
5 x 30.10m x 3.75m x 0.075m = 42.18m ³					
5 x 30.10m x 3.75m x 0.075m = 42.18m ³					
4 x 30.10m x 3.75m x 0.075m = 33.75m ³					
1 x 15.00m x 3.75m x 0.075m = 4.21m ³					
Extra width at H-cum,					
2 x 2.50m x 2.25m x 0.075m = 0.84m ³					
4 x 5.80m x 0.60m x 0.075m = 1.04m ³					
2 x 5.20m x 0.580m x 0.075m = 0.45m ³					
Total = 124.65m ³					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Construction of un-reinforced plain cement concrete for road					
as per technical specification					
Chub Paving Sub	5	30.00m	3.75m	0.160m	$= 90.00m^3$
	5	30.00m	3.75m	0.160m	$= 90.00m^3$
	4	30.00m	3.75m	0.160m	$= 72.00m^3$
	1	15.00m	3.75m	0.160m	$= 9.00m^3$
Extra width at H-curve					
	2	2.50m	2.25m	0.160m	$= 1.80m^3$
	4	5.30m	0.60m	0.160m	$= 2.22m^3$
	2	5.20m	0.580m	0.160m	$= 0.96m^3$
				Total	$= 265.98m^3$

⑨ Construction of Sub-grades						
earthen shoulder with approved material.						
Sides of GSB						
Chub Paving Sub	2x	5x30.00m	x	0.625m	x	0.100m = 18.75m ³
	2x	5x30.00m	x	0.625m	x	0.100m = 18.75m ³
	2x	4x30.00m	x	0.625m	x	0.100m = 15.00m ³
	2x	1x15.00m	x	0.625m	x	0.100m = 1.87m ³
Sides of WPM-3						
	2x	5x30.00m	x	0.625m	x	0.075m = 14.06m ³
	2x	5x30.00m	x	0.625m	x	0.075m = 14.06m ³
	2x	4x30.00m	x	0.625m	x	0.075m = 11.25m ³
	2x	1x15.00m	x	0.625m	x	0.075m = 1.40m ³

Qty 40 = 95.14m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty BIF =		95.14 m ²
Sides of R.C.C					
2 x 5 x 30.00m x 0.625m x 0.160m =					30.00m ²
2 x 5 x 30.00m x 0.625m x 0.160m =					30.00m ²
2 x 4 x 30.00m x 0.625m x 0.160m =					24.00m ²
2 x 1 x 15.00m x 0.625m x 0.160m =					3.00m ²
					Total = 182.14 m ²
(10) Plv & fixing of R.C.C MIS grade					
Kilometer stones =					01 NO
(11) Plv & fixing of 200m stones					
					= 02 NOS
(12) Plv & fixing of R.C.C MIS grade					
boundary pillar =					2 x 4 NOS = 08 NOS
					2 x 6 NOS = 12 NOS
					Total = 20 NOS
(13) Plv & fixing of Retro-reflective					
traffic sign board					
600 mm circular =					04 NOS
(14) 900 mm equilateral triangle					
(L/R corner) =					02 NOS
(15) 600 mm x 450 mm rectangular					
(skull & plate) =					02 NOS

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
<u>1.</u> Ply & string of working benchmark pillars					
0.435 Km ⁴⁰ , vide TMSB-1					
(a) B 3592=281 Km-B					1563=00
<u>2/2</u> Ply & string of reference pillars.					
0.435 Km, vide TMSB-1					
(a) B 1655=44/Km-B					720=00
<u>3/3</u> clearing & grubbing of road land.					
0.30 Hect, vide TMSB-1					
(a) B 49,496=70/Hect-B					14,749=00
<u>4/4</u> Box cutting & excavation for roadway in soil using manual means					
32.62 m ³ , vide TMSB-2					
(a) B 74=10/m ³ -B					2417=00
<u>5/5</u> Construction of embankment with 100m lead					
1422.22 m ³ , vide TMSB-2					
(a) B 175=11/m ³ -B					2,49,045=00
C/O, B					2,68,594=00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
			D/F	B	2,68,594=0
6 7	Construction of granule				
	Sub-base on primary				
	well graded material				
	46.33 m ³ , vide TMBB-3				
	(1) B 2873 = 73/m ³ - B				1,33,835=0
7 8	Plr, Laying, spreading				
	3 Compacity of R.C.C				
	124.65 m ³ , vide TMBB-3				
	(2) B 3513 = 38/m ³ - B				4,37,943=0
8 9	Construction of Un-				
	-reinforced plain				
	and concrete kernel				
	mp2 technical spec				
	265.98 m ³ , vide TMBB-4				
	(u) B 6898 = 67/m ³ - B				18,33,666=0
9 10	Construction of sub-				
	-grade & earthen				
	shoulder with				
	approved material				
	182.14 m ³ , vide TMBB-5				
	(u) B 176 = 75/m ³ - B				32,193=0
10 10	Plr & Laying of R.C.C				
	M15 grade kilmukh				
	stones				
	01 NO, vide TMBB-5				
	(u) B 2216 = 53/NO - B				22172=0
	Continuation of 01 B				27,08,448=0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F. B	27,08,448 = ∞
<u>11</u> / <u>11</u>	P.V & Dr'ing of room streets				
	02 Nos, wide mbb-5				
	(@) B 610 = 51 / No-B				1221 = ∞
<u>12</u> / <u>12</u>	P.V & Dr'ing of R.C.C. mis grade boundary pillars				
	20.00 Nos, wide mbb-5				
	(@) B 490 = 76 / No-B				9815 = ∞
<u>13</u> / <u>13</u>	P.V & Dr'ing of Retor - reflective traffic				
	Sign board - 600 mm circular				
	04 Nos, wide mbb-5				
	(@) B 4915 = 70 / No-B				19,663 = ∞
<u>14</u> / <u>14</u>	900 mm equilateral & triangle (L/R cm)				
	02 Nos, wide mbb-5				
	(@) B 5413 = 53 / No-B				10,827 = ∞
<u>15</u> / <u>15</u>	600 mm x 450 mm rectangle				
	02 Nos, wide mbb-5				
	(@) B 4785 = 50 / No-B				9571 = ∞
	C/O, B				27,59,545 = ∞

Continuation
(J.E)
15/11/22
10/17/22
A.G.