

Smt Gulabi Kumari
Ag No. 51 (SBD) / 2020-21

Jamui Khargapur P.W. Road to Supriyataran
(M.M.G.S.Y.) -
(S.O.)

Measurement Book

Schedule XLV-Form No. 134

R.W.D. (W) Jamui DIVISION

Barhath SUB-DIVISION

and Penal
1st R-A/c 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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Construction of Road from Jorauli Kharapara D.A. Road to Sugiyatoran under MMB Syk for year 2020-2021.					
Agency:- Gulabi Kumari, At-Postadiga P.O- Gaura P.S- Laxmipur Dist- Jorauli					
Agreement No- 57/538/2020-2021					
Date of commencement- 20/08/2020					
Date of completion- 19/08/2021					

Rate quoted- 10.51% Below					
Details					
(1/1) P/v and fixing of alerting benchmark pillar - do - etc					
all complete job.					
Qty -				= 1.40 Km	
(2/2) Clearing and grubbing road					
land including uprooting all vegetation - do - all complete					
10x30.0 x 3.50 = 1050.0 m ²					
16x30.0 x 3.50 = 1680.0 m ²					
20x30.0 x 3.50 = 2100.0 m ²					
1x20.0 x 3.50 = 70.0 m ²					
Total = 4900/10000 = 0.49 Hect					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
etc- all complete job.					
Qty: $3 \times 2.50 = 7.50 \text{ M}$					
For 2.0 kbs Culvert = $7.50 \times 2 = 15.0 \text{ M}$					
(8) Earth work Qty Sheet					
S.N.O.	Chainage	Area	Mean Area	Distance	Volume
1.	0.0	4.960	—	—	—
2.	100	4.520	4.740	100	474.000
3.	200	3.290	3.905	100	390.500
4.	300	3.680	3.485	100	348.500
5.	400	4.750	4.215	100	421.500
6.	500	4.040	4.395	100	439.500
7.	600	4.050	4.045	100	404.500
8.	700	4.350	4.200	100	420.000
9.	800	3.680	4.015	100	401.500
10.	900	4.700	4.190	100	479.000
11.	1000	4.270	4.485	100	448.500
12.	1100	4.150	4.210	100	421.000
13.	1200	3.550	3.850	100	385.000
14.	1300	3.320	3.435	100	343.500
15.	0.0	3.840	1.905	0.0	0.000
16.	100	3.440	3.625	100	362.500 (B)
		(A+B) =	7.745	100	5679.500 M ³
Subgrade - $1 \times 1200.0 \times 7.20 + 8.22 \times 20 = 2775.17 \text{ M}^3$					
(9/7) Construction of G.S.B. by borrow					
well graded materials grading (F)					
- do. etc- all complete job					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>B.T. portion</u>					
	4	30.0	4.05	0.200	$= 97.20 m^3$
	5	30.0	4.05	0.200	$= 121.50 m^3$
	3	30.0	4.05	0.200	$= 72.90 m^3$
	6	30.0	4.05	0.200	$= 145.80 m^3$
	5	30.0	4.05	0.200	$= 121.50 m^3$
	7	30.0	4.05	0.200	$= 170.10 m^3$
	6	30.0	4.05	0.200	$= 145.80 m^3$
	1	20.0	4.05	0.200	$= 16.20 m^3$
<u>Curve</u>	1	20.0	7.5	4.05	$\times 0.200 = 23.10 m^3$
			2		
	2	30.0	4.05	0.200	$= 48.60 m^3$
	1	20.0	4.05	0.200	$= 16.20 m^3$

C.C. portion

$$\textcircled{9/12} - 1 \times 20.0 \times 7.35 \times 3.75 \times 0.100 = 71.10 m^3$$

2

$$3 \times 30.0 \times 3.75 \times 0.100 = 33.75 m^3$$

$$3 \times 30.0 \times 3.75 \times 0.100 = 33.75 m^3$$

$$\text{Total} = 105.45 m^3$$

Bcf limited to - 105.45 m³

25.50
5.00
5.00

14.15 m
8-E

10/8 Plr carry spreading of work

go (III) - do at all angles of

$$\text{B.T. portion} - 5 \times 30.0 \times 3.75 \times 0.075 = 42.187 m^3$$

$$6 \times 30.0 \times 3.75 \times 0.075 = 50.625 m^3$$

$$4 \times 30.0 \times 3.75 \times 0.075 = 33.75 m^3$$

$$7 \times 30.0 \times 3.75 \times 0.075 = 59.062 m^3$$

$$\text{Total} = 185.624 m^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			13.2		4132.58 m ²
1x 20.0 x 7.40 + 3.75					111.50 m ²
	2				
2x 30.0 x 3.75					225.00 m ²
1x 20.0 x 3.75					75.00 m ²
					Total = 4544.00 m ²
(14/11) Placing & setting of closed					
gravel concrete bedding					
20mm thick all over between (500)					
etc - all complete 50%					
5x 30.0 x 3.75					562.50 m ²
6x 30.0 x 3.75					675.00 m ²
3x 30.0 x 3.75					337.50 m ²
5x 30.0 x 3.75					562.50 m ²
3x 30.0 x 3.75					337.50 m ²
5x 30.0 x 3.80					570.00 m ²
2x 30.0 x 3.75					225.00 m ²
6x 30.0 x 3.75					675.00 m ²
1x 20.0 x 3.75					75.00 m ²
1x 20.0 x 7.40 + 3.75					111.50 m ²
	2				
2x 30.0 x 3.75					225.00 m ²
1x 20.0 x 3.75					75.00 m ²
					Total = 4544.00 m ²
(15/14) Laying brick & setting layon in					
preparing surface do etc etc etc					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
from Borroopets with lamp					
100 m - do etc - all					
complete job					
Qty - 20.65% of $4078.41 m^3$					$1086.82 m^3$
(20/6) Construction of Subgrade					
and of shoulder with lamp					
1000 m - do etc - all					
Complete job					
Qty - 68.05% of $4078.41 m^3$					$2775.17 m^3$
(21/34) P/V too lamp painting with					
primer - do - do - etc					
all complete job					
Tops = $2 \times 2 \times 6.150 \times 0.40 = 9.84 m^2$					
Sides = $2 \times 4 \times 6.150 \times 0.600 = 29.52 m^2$					
Front = $2 \times 4 \times 0.400 \times 0.600 = 1.92 m^2$					
Total = $41.28 m^2$					
(22/25) P/V and laying of roof					
applied thermoplastic lamping					
with glass beads - do					
etc - all complete job					
B.T. portion - $2 \times 10 \times 30.0 \times 0.100 = 60.00 m^2$					
in $2 \times 10 \times 30.8 \times 0.100 = 60.80 m^2$					
$2 \times 10 \times 30.0 \times 0.100 = 60.00 m^2$					
$2 \times 10 \times 30.0 \times 0.100 = 60.00 m^2$					
Total = $240.80 m^2$					

Continuation

Abstract of Cost

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1/1) Plr and fixing bench mark - etc all complete etc					
Qty. n.T.M.B. Page (1) Item (1/1)					
= 1.40 km @ Rs 32798-36/m					45,918.00
(2/2) Clearing and grubbing mud and - etc all complete etc					
Qty. n.T.M.B. Page (1) Item (2/2)					
= 0.49 Ha @ Rs 51123-76/Ha					25,056.00
(3/3) Const of embankment all etc					
Lead 100m - etc - etc					
Qty. n.T.M.B. Page (3) Item (17/3)					
= 56.27 m ³ @ Rs 175-22/m ³					9,860.00
(4/4) Const of embankment all etc					
Lead 100m - etc - etc					
Qty. n.T.M.B. Page (3) Item (18/4)					
= 16.09 m ³ @ Rs 135-12/m ³					2,176.60
(5/5) Const of subgrade and shoulder					
Lead 100m - etc - etc					
Qty. n.T.M.B. Page no (9) Item (5/5)					
= 1086.82 m ³ @ Rs 178-88/m ³					1,92,215.00
(6/6) Construction of subgrade all etc					
Lead 100m - etc - etc					
Qty. n.T.M.B. Page (9) Item (29/6)					
= 2775.17 m ³ @ Rs 176-86/m ³					4,90,817.00
(7/7) Construction of G.S.B. gully etc					
Qty. n.T.M.B. Page (4) Item (9/7/12)					
= 1057.47 m ³ @ Rs 1687-75/m ³					17,84,745.00
					<u>Rs 25,70,377.00</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F. Rs	25,70,377-00
(8/8) P/V laying & spreading over Gravel - do etc all complete etc					
Qty - V.T.M.B. Page (5) Item No. (10/8)					
= 397.69 m ³ @ Rs 2243-46/m ³ - Rs					8,92,202-00
(9) P/V and applying primer coat with (SS-1) - do - do etc					
Qty - V.T.M.B. Page (6) Item No. (12/9)					
= 4544.0 m ² @ Rs 45-51/m ² - Rs					2,07,025-00
(10/10) P/V and applying tack coat with (RS-1) - do all complete etc					
Qty - V.T.M.B. Page (7) Item No. (13/10)					
= 4544.0 m ² @ Rs 15-48/m ² - Rs					70,341-00
(11/11) P/V laying and rolling M.S.S. with Bitumen (S-90) do - etc					
Qty - V.T.M.B. Page (7) Item No. (14/11)					
= 4544.0 m ² @ Rs 21,82-30/m ² - Rs					99,195-52-00
(12/13) Cont of un-reinforced cement concrete foundation (M-30) - do etc					
Qty - V.T.M.B. Page (8) Item No. (11/13)					
= 121.20 m ³ @ Rs 7349-90/m ³ - Rs					8,90,808-00
(13/14) Laying Brick Soling on B.E.S. - etc					
Qty - V.T.M.B. Page (8) Item (15/14)					
= 177.50 m ² @ Rs 504-69/m ² - Rs					89,582-00
(14/15) P/V and laying pipe duct - etc					
Qty - V.T.M.B. Page (2) Item (2/15)					
= 45.0 m @ Rs 1585-42/m - Rs					71,344-00
					Rs 57,83,634-00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				13.7 - R ₂	57,83,634=0
(15/17) R.C.C. M-15 grade km stone etc					
Qty - R.T.M.B. Page (11) Item (29/17)					
= 2.0 Nos @ Rs 2118218/each Rs					4,23,600
(16/18) R.C.C. M-15 grade 200M stone					
Qty - R.T.M.B. Page (11) Item (30/18)					
= 6.0 Nos @ Rs 604 = 85/each Rs					3,62,900
(17/20) p/v and fixing customary machinery					
500m regulated/250m					
Qty - R.T.M.B. Page (10) Item (24/20)					
= 6.0 Nos @ Rs 3467 = 222/each Rs					20,81,500
(18/21) S/F/F of 600mm Colonnade etc					
Qty - R.T.M.B. Page (10) Item (25/21)					
= 4.0 Nos @ Rs 4694 = 888/each Rs					18,78,000
(19/22) S/F/F of 300x600mm Rectangular etc					
all complete job					
Qty - R.T.M.B. Page (10) Item (26/22)					
= 6.0 Nos @ Rs 6596 = 117/each Rs					39,57,700
(20/23) S/F/F of 600x450mm Rectangular etc					
all complete job					
Qty - R.T.M.B. Page (10) Item (27/23)					
= 4.0 Nos @ Rs 4589 = 426/each Rs					18,27,800
(21/25) p/v laying of lot applied/through					
plastic covering on BT works etc					
Qty - R.T.M.B. Page (9) Item (22/25)					
= 240.0 m ² @ Rs 735 = 44/m ² Rs					1,76,506=0
					Rs 60,65,455=0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			84. - Rs		60.65.455.00
(22/26) Road marking on C.C. portion - do etc. all complete etc.					
Qty - V.T.M.B. Page (10) Item No (23/26)					
= 40.0 M ² @ Rs 835 = 34/M ² - Rs					33414.00
(23/27) R.C.C. M-15 grade Boundary pillars etc. - all complete etc.					
Qty - V.T.M.B. Page (10) Item (23/27)					
= 16.0 Nos @ Rs 484 = 526/each Rs					7752.00
(24/28) P.V. and erecting direction & place identification etc.					
Qty - V.T.M.B. Page (11) Item No (31/28)					
= 6.0 Nos @ Rs 116.67 = 4/each Rs					7000.00
(25/29) P.V. and fixing of typical M.M.G.S. Ironmongery 80mm with "Log" - do - etc.					
Qty - V.T.M.B. Page (11) Item (32/29)					
= 5.0 Nos @ Rs 9341.62/each Rs					46708.00
(26/30) S.W. in excavation in foundation					
Qty - V.T.M.B. Page (2) Item (4/30)					
= 59.596 M ³ @ Rs 294.73/M ³ - Rs					17565.00
(27/31) P.V.P.C.C. (M-15) in foundation etc.					
Qty - V.T.M.B. Page (2) Item (5/31)					
= 9.19 M ³ @ Rs 4929.28/M ³ - Rs					45300.00
(28/32) P.V.P.C.C. (M-20) in substructure - do etc. all complete etc.					
					Rs 6286.198.00

Continuation