

Bairi Jag Pransy Road To Bhari'atani

NMGSY (Sc)

Agar (SRSD) 2020-21

Measurement Book

Schedule XLV-Form No. 134

R. V. D. Jag Pransy

DIVISION

Chaitra.

SUB-DIVISION

MB No - 2711

Ravi Kumar

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.	

1st on Arc bill

Name of Road - Construction of
Road from Baribari Pmnsy
road to Bheridighi.

Agreement no - 28(SBC) 2020-21

Agency - Ranvir Kumar

Date of start - 28/03/2020

Date of stop - 26/07/2020

Agreement value

Const. cost = 51,81,785

Maint. cost - 10,42,463

Total RS = 62,24,248/-

Record measurement

1. Providing & fixing & marking
benchmark pillars 2 mspers
= 0.900 km

2. Clearing & grubbing road land.

1x30x20 x 3.50 = 2100

1x30x10 x 3.50 = 1050

3150 m²

= 0.32 Ha.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		10	10	4.05	$\times 0.200 = 81$
		1	15	$\times (5.20 + 4.05)$	$\times 0.200 = 13.88$
			2		
		10	10	4.05	$\times 0.200 = 81$
		10	10	4.05	$\times 0.200 = 81$
		1	15	$\times (5.30 + 4.05)$	$\times 0.200 = 14.03$
			2		
		5	30	4.05	$\times 0.200 = 121.50$
		1	20	4.05	$\times 0.200 =$
		1	20	$\times (4.30 + 4.05)$	$\times 0.200$
			2		$= 16.70$
				Total Qty	$= 737.91 \text{ m}^3$

5. Construction of WBM Cr-112					
Providing, laying, spreading & compacting stone agg. of 80 size of WBM Cr-112 etc.					
		1	30	$\times (5.20 + 3.75)$	$\times 0.075 = 10.07$
			2		
		10	10	$\times 3.75$	$\times 0.075 = 28.13$
		10	10	$\times 3.75$	$\times 0.075 = 28.13$
		2	30	$\times 3.75$	$\times 0.075 = 16.88$
		1	10	$\times 3.75$	$\times 0.075 = 2.81$
		1	10	$\times 10 \times 3.75$	$\times 0.075 = 28.13$
				Qty	$= 85.02 \text{ m}^3$
					$= 114.15$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8. <u>plaster / Reinforced cement</u>					
<u>on concrete (m-20) for substructure</u>					
H.W. =	2	6.150	0.825	3.18	32.269
Parapet =	2	6.150	0.400	1.000	4.920
Less for pipe =	2	0.786	1.233	0.622	1.478
					Qty = 35.711 m ³
<u>for 2 NO H.P culverts</u>					
					= 2 x 35.711 = 71.422 m ³
9. <u>providing & laying RCC</u>					
<u>for Culverts as specified</u>					
	3	2.50			7.50 m
<u>for 2 no culverts</u>					
					= 2 x 7.50 = 15.00 m
10. <u>Reinforcing on Parapet wall</u>					
Top =	2	6.150	0.400		4.920
Side =	4	6.150	0.600		14.76
front =	4	0.400	0.600		0.960
					Qty = 20.64 m ²
<u>for 2 no culverts</u>					
					= 2 x 20.64 = 41.28 m ²
11. <u>providing & laying RCC</u>					
<u>pipe duct 300 mm dia</u>					
<u>across the road etc.</u>					
	4	3	2.50		30 m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Total Qty for E/WK filling (including crust)					
					$= 4400.25 \text{ m}^3$
Deduction:					
					INBM Grt = 256.26 m^3
					CSB Grt = 732.91 m^3
Subgrade & shoulder =					2106.00 m^3
Net E/WK for filling Embk					1300.08 m^3
For lead 100 m =					1300.08 m^3
13. Providing & fixing of Logo of memory informative & authorized information board etc.					
					$= 3 \text{ NO.}$
<i>Signature</i>					
<i>12/12/2023</i>					
<i>J.E</i>					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
1. Provisioning & fixing of works benchmark pillars 2 Nos/each					
Qty vide item (1), P.No (1)					
0.900 Km @ 32874.02/16					
Rs - 29,587.200					
2. Clearing and grubbing good land.					
Qty vide item (2), P.No (1)					
0.3249 @ 51133.76/Hq					
Rs - 16363.200					
3. Const. of Embankment					
4. with material obtained from borrow pits head upto 100m					
Qty vide item (2), P.No (3)					
1300.08 m ³ @ 135.12/cum					
Rs = 175667.200					
4. Const. of subgrade and					
5. earthen shoulders with approved material for subgrade					
Qty vide item (3), P.No (2)					
2106 m ³ @ 176.86/cum					
Rs = 372467.200					
5. Construction of granular					
7. Sub-base by providing well					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
- graded material (W.B.M.)					
Qty vide item (4), P.No. (3)					
737.91 m ³ @ 1636.02/cum					
					RS = 1207.236200
6. Providing, laying, spreading					
and compacting stone agg.					
of sp. size of W.B.M. etc					
Qty vide item (5), P.No. (4)					
256.26 m ³ @ 2139.27/m ³					
					RS = 548209.200
7. Providing & laying of					
R.C. Pipe duct 300mm dia					
across the road etc.					
Qty vide item (10), P.No. (5)					
30m @ 1587.65/Rm					
					RS = 47.630200
8. E/Wk Excavation for Foundation					
Qty vide item (6), P.No. (7)					
59.60 m ³ @ 294.73/cum					
					RS = 17566.200
9. Providing M15 (P.C. 1:2.5:5) of					
levelling course in Foundation					
Qty vide item (7), P.No. (4)					
9.19 m ³ @ 4899.73/cum					
					RS = 45029.200
10. Plain/Reinforced concrete					
(M-20) in sub					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Structure etc.					
Qty vide item (8), P. No. (5)					
71.42 m ³ @ 6042.04/cm					
					RS = 431523.200
11. Providing & laying Rce					
Pipe NP-3 for culvert (loamy)					
Qty vide item (9), P. No. (5)					
15 m @ 3411.46/Rm					
					RS = 51172.200
12. Painting on Plaster wall.					
Qty vide item (10), P. No. (5)					
41.28 m ² @ 97.19/sqm					
					RS = 4012.500
13. Providing & fixing of typical					
25 mmsy informative & citizen					
informative sign board etc.					
Qty vide item No (13), P. (7)					
3 No @ 9334.18/ Each					
					RS = 28003.200
					Total RS = 29,74,464.200
Add GST @ 12% RS = 356934.200					
Add LC @ 1% RS = 29745.200					
					Gr. Total RS = 33,61,143.200
Less 10% below as per agg = 336114.200					
					RS = 30,250,29.200

Signed
 12/12/2023
 J.E
 Cndp
 12/12/23

Continuation