

Malahi to Ramna tola.

Measurement Book

Schedule XLV-Form No. 134 (SC)

Bagha-2

DIVISION

Bhitga

SUB-DIVISION

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	Const. of road from				
	Maleki to Rmns to K,				
Agency:	Ravi Kumar Tiwari, Thakur,				
	West Champain				
Agreement No:	32 SED of 20-21				
Agreement Amount:	Rs 9781627.00				
Date of Commence:	06/06/2020				
Date of completion:	05/06/2021				
Record Measurement					
INDEX					

1	Construction of road				
	Beach Road				1.2 km
2	Clearing and grading road				
	level				
	2x40x30.00x 1.50				3600 m ²
					Qty - 0.36 HS
3	Construction of offset pile				1.2 km
4	Construction of embankment				
	40x30.00x $\left(\frac{6+8-4+4}{2}\right) \times 0.45$				1485.00 m ³
	1x15.00x $\left(\frac{6+8-4+4}{2}\right) \times 0.45$				18.23 m ³
	Total				1503.23 m ³
	Construction of embankment - 1st up to				
	1050 m (20% of total)				450.97 m ³
	Construction of embankment - 1st up to				
	100 m (70% of total)				1052.26 m ³

(Continuation)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		30x cutters (1x1Mx1M)			
Earth work in excavation					
Rett =	1.50	5.40	0.57		4.13 m ³
C/w + H/w (Below Rett)	2x1.50	0.50	1.80		2.70 "
R/w	4x2.00	0.50	1.80		7.20 "
Site clearance & leveling					1.79 "
				Total	15.82 m ³
2 Sand filling in foundation					
Rett =	5.40	1.50	0.15		1.21 m ³
C/w =	2x1.50	0.50	0.12		0.18 "
				Total	1.39 m ³
③ Providing P.C.C. 150 mm					
Rett =	5.40	1.50	0.11		0.89 m ³
4 Supplying fitting and placing HYSD bar in					
Cutoff main 1 ea 10mm φ					
	2x2x8	1.50			48.00 m
Return main 1 ea 10mm φ					
	4x2x9	2.70			194.40 m
Distribution bar up to bed level 10mm φ					
	2x2x6	5.00			132 m
Distribution bar 10mm φ in as per bed level					
	4x2x6	2.25			108 m
Chair 1 ea 10mm φ					
	2x4x1.20				9.6 m

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Over top 5m 10mm ϕ bar					
	145	X 0.40			= 58 m
10mm ϕ bar in Rft & slabs					
	4X 38	X 1.50			= 228 m
10mm ϕ bar in Abutment inside					
	2X 38	X 1.50	=		114 m
10mm ϕ bar in Abutment					
Outer side					
	2X 38	X 2.20	=		167.20 m
Distribution bar 10mm ϕ					
	8X 8	X 6.00	=		384.00
10mm ϕ bar in Rft of					
Slabs & Angle L					
	4X 28	X 0.80	=		121.60 m
10mm ϕ bar in Hatch					
	4X 38	X 0.85	=		129.20 m
Σ provided R.C.C. M20-M					
Rft	6.00	X 1.50	X 0.21	=	1.89 m ³
q/w	2X 1.50	X 0.30	X 1.14	=	1.026 m ³
(Below Rft)					
R/w	4X 2.00	X 0.30	X 1.35	=	3.24 m ³
(up to bed level)					
	Total				6.156 m ³
Abutment	2X 6.00	X 0.25	X 1.00	=	3.00 m ³
R/w	4X 2.00	X 0.30	X 1.24	=	2.50 m ³
Hatch	4X $\frac{1}{2}$	X 6.00	X 0.15	X 0.15	= 0.27 m ³
	Total				12.326 m ³
Prepared by					
16/08/2020					
JR					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Revised measure</u>					
1. Providing weep holes					= 10 m
2. Supplying, fitting & placing HYSD bar in parapet 10mm dia					
2X 2X 8 X 1m					= 32.0 m
10mm ϕ distribution bar					
2X 2X 4 X 1.20					= 24.0 m
Total length of HYSD bar =					1750 m
Wt of 10mm ϕ bar @ 0.617 kg/m					1079.75 kg
3. Provided R.C.C. masonry					= 1.08 m ³
Decor. slab 6. X 6.00 X 1.50 X 0.21					= 1.83 m ³
Parapet 2X 1.50 X 0.25 X 0.60					0.45 m
					Total = 2.34
7. Back filling behind					
Asbestos					
2X 5.40 X 0.60 X 1.21					= 7.80 m
Alp. at 11					
01/09/20					
2					
<u>Revised measure</u>					
1. Providing & fixing masonry					= 2 m
Spacer					
2. Excavation for road					
2X 26X 30 m X 0.525 X 0.100					81.90 m ³
2X 1X 15.00 X 0.525 X 0.100					1.58 m
2X 14X 30.00 X 0.375 X 0.100					31.50 "
					Total 114.98 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 consist of granular sub base					
	2	28	30.00	0.525	0.100 = 81.90 m ³
	2	17	15.00	0.525	0.100 = 1.58 "
	26	30.00	4.050	0.100	= 315.90 "
	1	15.00	4.050	0.100	= 6.08 "
	2	14	30.00	0.375	0.100 = 31.50 "
Port repair & kerb	10	9.50	2.00	0.100	= 19.00 m ³
	9	6.00	1.20	0.15	= 9.40 "
	8	5.00	1.50	0.100	= 6.00 "
			Total		471.68 m ³ 467.36 m ³
			less current lift		
	1.00	4.050	0.100		= 0.41 m ³
			Total :		471.27 m ³ 466.95 m ³
Accepted by					
16/09/2020					
Jr					
Material Statement					
1 Earth work =	1502.23 m ³	(1171/2)			
2 Stone metal =	392.258 m ³	(576.42)			
3 Crushed sand =	168.102 m ³	(188.4/2)			
4 Stone chip =	13.888 m ³	(550.84/2)			
5 Course sand =	8.405 m ³	(614.12/2)			
6 Cement =	6.155 t	(5002.4/t)			
Accepted by					
16/09/2020					
Jr					

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 Const of working B.M. vide TMB page no. 1 = 1.22 km					
@ Rs. 11771.87/km					Rs 14362 = 0
2 Const of filler vide TMB page no. 2 = 1.22 km @					
Rs. 13150.49/km					Rs 16044 = 0
3 Clearing & grubbing road land vide TMB page no. 1 = 0.36 Hq @ Rs 51133 = 76/Hq					Rs 18408 = 0
4 Const of embankment - 12 m up to 1000 m vide TMB pg no. 1 = 450.97/m ³ @ Rs					
202552/m ³					Rs 91330 = 0
5 Const of embankment - 12 m up to 100 m vide TMB page no. 1 = 1052.25 m ³ @ Rs					
167.41/m ³					Rs 176159 = 0
6 Excavation of road way vide TMB page no. 4 = 114.98 m ³ @ Rs 74.16/m ³					Rs 8527 = 0
7 Const of granular sub-base vide TMB page no. 5 = 466.95 m ³ @ Rs 3754.01/m ³					Rs 1752935 = 0
8 Paving and fixing M.M.G. & board vide TMB page no. 4 = 2 m ² @ Rs. 11741250/ha					Rs 23483 = 0
Total Rs 2101248 = 0					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>9</u> <u>31</u> Earth work excavation					
vide TMB page no 2215.82 m ²					
@ Rs. 269=32/m ³					Rs. 4261=0
<u>10</u> <u>32</u> Sand filling vide TMB					
page no. 2 = 1.39 m ²					
Rs. 400.55/m ³					Rs. 557=0
<u>11</u> <u>34</u> Paving P.C.C M15 vide					
TMB page no. 2 = 0.89 m ²					
@ Rs. 6911.80/m ³					Rs. 6152=0
<u>12</u> <u>35</u> Paving R.C M25 vide					
TMB page no 32 12.326 m ²					
vide TMB page no 42 2.34 m ²					
Total 214.666 m ²					
restricted to 14.64 m ² @ Rs. 124615=0					
@ Rs. 8511.92/m ²					
<u>13</u> <u>40</u> Beach filling vide TMB page					
no 4 = 7.80 m ² restricted					
to 7.20 m ² @ Rs. 3588.26					
/m ²					Rs. 25835=0
<u>14</u> <u>41</u> Paving weep holes vide					
TMB page no 42 10 m ² @ Rs.					
83211 / Run					Rs. 8312=0
<u>15</u> <u>42</u> Supply, fitting HYD 20 vide					
TMB page no 42 1.08 MT @					
Rs. 46375=53/MT					Rs. 50086=0
Total Rs. 2313582=0					
Add 12% GST					Rs. 277630=0
Add 1% Cess					Rs. 23136=0
Add 8% Sinking fund					Rs. 24703=0
Total Rs. 2639054=0					

Continuation

C/R

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