

394415/E 228/2109 (MMGSY SC)
Schedule XLV-Form No. 134

Darbhangha - 1 **DIVISION**

Bakeluxpur

SUB-DIVISION

M.B.N. 3587

Measurement Book

2995 - 2995/2109 3112 Rite

Est on A/c 1 CIV

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.	
Name of Work - Construction of Road					
from Armadik to Rahi Pila					
Agency - Sri Subodh Kumar Singh					
Nirmadithi, Dist - Darbhanga					
Agreement No. - 32 SBD/2020-21 (MHG 579)					
Rate - 03.97% below from B.O.D. Rate					
Date of Start - 13-01-2021					
Date of Completion - 12-01-2022					
(1) Setting out Working					

Bench mark					
Qty = 1 nos					
(2A) Const ⁿ of Reference					
Pillars Qty = 5 Nos					
(2B/28) ^{cleaning &} Qty = 5 Nos ^{Grubbing}					
10x	30x	3.5	=	1050.00	
10x	30x	3.5	=	1050.00	
10x	30x	3.5	=	1050.00	
8x	30x	3.5	=	840.00	
1x	10x	3.5	=	35.00	
					4025.00
0.40 Ha					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Earthwork in excavation in foundation					
Head wall	2x	4.15	1.4	1.47	17.08
bedding	1x	5.78	1.07	0.25	1.55
					18.63 m ³
Hence 3 Nos					3 Nos X 18.63 = 55.89 m ³
(4) Bedding in PCC Ms local sand					
	1x	5.78	1.07	0.55	3.40
deduction for pipe	1x	5.78	0.22	(-)	1.270
					2.13 m ³
Hence 3 Nos					3 Nos X 2.13 m ³ = 6.39 m ³

(5) PCC Ms open foundation					
	2x	3.85	1.40	0.15	1.62 m ³
Hence 3 Nos					3 Nos X 1.62 = 4.86 m ³
(6) Head wall in Brick (114)					
Head wall	2x	3.85	$\frac{1+0.65}{2}$	2.005	12.74
Parapet	2x	3.85	0.60	0.40	1.85
					14.59
deduction	2x	0.465	0.61	(-)	0.57
					14.02 m ³
Hence 3 Nos					3 Nos X 14.02 m ³ = 42.06 m ³
(7) Providing and laying 600 mm Pipe NP3					
	3x	2.5			7.5 m
Hence 3 Nos					3 Nos X 7.5 m = 22.5 m

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(8) Plastering with cement mortar (1:4)					
Parapet sides	4x	3.85x	1.00	=	15.4
Parapet faces	4x	0.4x	0.50	=	0.80
Parapet top	2x	3.85x	0.40	=	3.08
Head Wall sides	2x	3.85x	0.60	=	4.62
					23.90 m ²
Hence 3 Nos x 23.90 =					47.8 71.7 m ²
Limit					42.06 m ²
(9) Painting on concrete					
Qty -					42.06 m ²

(10) Excavation Earth Work					
Head Wall	2x	6.45x	1.40x	1.50 =	27.09
Bedding	1x	5.78x	1.53x	0.25 =	2.21
					29.3
(11) Bedding in local sand					
	1x	5.78x	1.53x	0.55 =	4.86
deduction for pipe	1x	5.78x	0.22x	(-) =	1.3
					3.56 m
(12) PCC M15 in open foundation					
	2x	6.45x	1.40x	0.15 =	2.71 m ³
(13) Head wall in Brick masonry (1:4)					
Head Wall	2x	6.2x	$\frac{18.065}{2}$	x 2.465 =	25.22
Parapet	2x	6.2x	0.60x	0.40 =	2.98
					28.2
deduction	2x	Continuation 1.88x	0.61	(-) =	1.45
					26.75 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Providing and laying Pipe $N/3$ 1000 mm dia 3×2.50					$= 7.50 \text{ m}$
(15) Plastering with cement mortar (1:4)					
Parapet Sides		$4 \times 6.2 \times 0.60$			$= 14.88$
Parapet Faces		$4 \times 0.1 \times 0.60$			$= 0.96$
Parapet Top		$2 \times 6.2 \times 0.40$			$= 4.96$
Head wall		$2 \times 6.2 \times 1.115$			$= 13.83$
					34.63 m^2
(16) Painting on concrete					
					Qty - 34.63 m^2

(17) Const ⁿ of embankment with material from borrow pit - do do with lead 1000 m & 100 m					
Sl. No	Chainage	length m	Left Area	Mean Area	Quantity
1	0	-	1.238	-	-
2	50	50	2.276	1.757	87.85
3	100	50	2.823	2.550	127.475
4	150	50	2.360	2.592	129.575
5	200	50	2.019	2.190	109.475
6	250	50	2.081	2.05	102.5
7	300	50	1.879	1.98	99.0
8	350	50	2.857	2.37	118.4

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Continued					
9 400	50	2.593	2.73		136.25
10 450	50	1.668	2.131		106.525
11 500	50	2.924	2.296		114.8
12 550	50	2.674	2.799		139.95
13 600	50	2.332	2.503		125.15
14 650	50	1.737	2.035		101.725
15 700	50	1.580	1.659		82.925
16 750	50	1.694	1.637		81.85
17 800	50	1.696	1.695		84.75
18 850	50	1.822	1.759		87.95
19 900	50	2.593	2.208		110.375
20 950	50	2.251	2.422		121.1
21 1000	50	1.055	1.653		82.65
22 1050	50	0.611	0.833		41.65
23 1100	50	1.051	0.831		41.55
24 1150	50	0.531	0.791		39.55

2273.000

(i) lead upto 1000 m

30% Qty = 682.00 m³

ii) lead upto 100 m 70%

Qty = 1591.00 m³

10/03/2021
J.E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	measurement date - 15-03-2021				
①	Consolidation of G.S.B				
	with well graded				
	material				
B.T Portion (Earthen Road)	10x	30x	4.05x	0.200 =	243.00 m ³
	10x	30x	4.05x	0.200 =	243.00
	10x	30x	4.05x	0.200 =	243.00
	3x	30x	4.05x	0.200 =	72.9 "
	1x	10x	4.05x	0.200 =	8.1 "
Extra widening on curve	1x	8x	1.6x	0.200 =	2.56
	2x	10.2x	1.5x	0.200 =	3.06
	1x	8.5x	1.5x	0.200 =	2.55
	1x	10x	1.8x	0.200 =	3.6

	1x	5x	1.2x	0.200 =	1.2
	1x	11x	1.8x	0.200 =	3.52
CC Portion (Earthen)	3x	30x	3.75x	0.100 =	33.75
	1x	10x	3.75x	0.100 =	3.75
Widening Brick road	2x	30x	0.375x	0.100 =	2.25
	2x	20x	0.375x	0.100 =	1.50
Profile Correction	3x	5.3x	1.6x	0.100 =	2.54
					870.28 m ³
					Limit - 869.78 m ³

② Boundary Pillar M15

Qty = 12 Nos

③ P.S.F. MMLGSY Sign

board with Logo

Qty = 2 Nos

15/03/2021

Continuation

J.E

15/3/2021
conf
B.11/21

Sch. XLV-Form No. 134

Sch. XLV-Form No. 154					Contents of area
Particulars	Details of actual measurement				
	No.	L	B.	D.	
ABSTRACT OF COST					
(1/1) Setting out working					
Bench mark					
Qty - 1 Nos V.P. - (1/1)					
@ 3894.92 each -					3895.00
(2/2) Const ⁿ of Reference					
Pillars					
Qty - 5 Nos V.P. - (1/2A)					
@ 1789.33 each -					8947.00
(3/3) cleaning & scrubbing					
Qty - 0.40 Hect V.P. - (1/2A)					
@ 52970.33 / Hect. -					21347.00

(4/24) Earthwork in excavation					
in foundation					
V.P. - $\frac{2}{3}$, Qty -				55.89 m ³	
V.P. - $\frac{3}{10}$, Qty -				29.3 m ³	
				85.19 m ³	
@ 279.09 / m ³					23776.00
(5/25) Bedding in PCC M15					
Local sand					
V.P. - $\frac{2}{4}$, Qty -				6.39 m ³	
V.P. - $\frac{3}{11}$, Qty -				3.56 m ³	
				9.95 m ³	
@ 493.78 / m ³					4913.00
(6/26) PCC M15 Open Foundation					
V.P. - $\frac{2}{5}$, Qty -				4.86 m ³	
V.P. - $\frac{3}{12}$, Qty -				2.71 m ³	
				7.57 m ³	
@ 5235.04 / m ³					39629.00
Continuation					

102507.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F	—	102507.00
(7/27) Head wall in Brick (1:4)					
	V.P. - $\frac{2}{3}$	Qty -	42.06 m ³		
	V.P. - $\frac{3}{13}$	Qty -	26.75 m ³		
			68.81 m ³		
	@ 5776.14 / m ³	—			397456.00
(8/28) Providing & Laying					
NP ₃ Pipe 600 dia					
600mm dia	V.P. - $\frac{2}{7}$	Qty =	22.5 m		
1000mm dia	V.P. - $\frac{4}{14}$	Qty =	7.5 m		
	@ 2632.56 / m	—			59233.00
(9/29) Providing & Laying					
NP ₃ Pipe 1000 mm dia					

	V.P. - $\frac{4}{14}$	Qty =	7.5 m		
	@ 3674.18 / m	—			27556.00
(10/30) Plastering with cement mortar					
	V.P. - $\frac{3}{8}$	Qty -	42.06 m ²		
	V.P. - $\frac{4}{15}$	Qty -	34.63		
			76.69 m ²		
	@ 166.70 / m ²	—			12784.00
(11/31) Painting on concrete					
	V.P. - $\frac{3}{8}$	Qty -	42.06		
	V.P. - $\frac{4}{16}$	Qty -	34.63		
			76.69 m ²		
	@ 139.83 / m ²	—			10724.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	610260.00
(12/05) 12/05 Const ⁿ of embankment with material obtained from borrow pit do with lead 100m & 100m V.P - $\frac{45}{1711}$ Qty - 682 m ³					
@ 190.36 / m ³					129825.0
(13/06) Upto lead 100m V.P - $\frac{45}{1711}$ Qty - 1591 m ³					
@ 154.28 / m ³					245459.0
(14/08) Const ⁿ of G.S.B V.P - $\frac{6}{1}$ Qty - 869.78 m ³					
@ 2555.55 / m ³					2222766.0
(15/21) Boundary pillars V.P - $\frac{6}{2}$ Qty - 12 Nos					
@ 563.88 each					6767.00
(16/17) P.S.F M.M.G.S.Y Sign Board V.P - $\frac{6}{3}$ Qty - 2 Nos					
@ 9497.49 each					18995.00
					3234072.0
Add GST 12% =					388089.00
Add labour 1% =					32341.00
					3654502.0
Less below 03.97% = (-)					145084.00
					3509418.00
15/03/2024 J.E					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>material statement</u>					
E/W -	2358.19	m ³			
stone -	834.9	m ³			
stone dust -	209	m ³			
Sand -	9.95	m ³			
<i>the</i> 15/03/2024 J.E					