

M.B. No 1475

Schedule XLV-Form No. 134

NDB (Bricks)

R.W.D PAKRIDAYAL DIVISION

R.W.D TETARIYA SUB-DIVISION

CONSTRUCTION OF R.C.C. H.C. BRIDGE IN SARAYATOMETA
- IN ROAD TO MESHUR MATHIKORRA ROAD WITH APPROACH ROAD

Measurement Book

Damas civil const India Pvt Ltd

प्रमाणित किया जाता है कि
मापी उत्त में मशीन हकीत 100
पूर है जिसे सहायक मायिका
मापीत कार्य विभाग कार्यकर्ता
प्रमोद तैरिया के पदनाम से
निर्गत किया जाता है।


30.10.24

Executive Engineer
RWD Works Division

199 Pakridayal
30.10.24

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R.W.D PAKRIDAYAL DIVISION

R.W.D TETARIA SUB-DIVISION

Measurement Book

No.

1475

Name _____

Date of first entry _____

Date of last entry _____

Record Entry

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[illegible]

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>16mm</u>	5 X	2.70	=	13.50 m	
	10 X	7.95	=	79.50 y	
	2 X	3.30	=	6.60 y	
	18 X	1.35	=	24.30 y	
	29 X	4.50	=	130.50 y	
	4 X	2.95	=	11.80 y	
				266.20 m	
	e 1.58 m		=	420.59619	
<u>25mm</u>					
	28 X	4.60	=	128.80 m	
	4 X	2.28	=	9.12 y	
	5 X	2.03	=	10.15 y	

	5 X	1.64	=	8.20 y	
				156.27 m	
	e 3.85 m		=	601.63919	
<u>Pier</u>					
16mm	17 X	6.66	=	113.22 m	
	17 X	6.66	=	113.22 y	
	40 X	6.66	=	66.60 y	
	7 X	3.34	=	23.38 y	
	10 X	12.11	=	121.10 y	
	4 X	8.12	=	32.48 y	
	5 X	8.10	=	40.50 y	
	3 X	19.80	=	59.40 y	
	5 X	2.90	=	14.50 y	
	2 X	4.36	=	8.72 y	

Continuation

593.12 m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				12 F	593.12 m
	4 X	4.10	=		16.40 y
	3 X	4.64	=		13.92 y
					623.44 m
<u>25m</u>		1.5819/m			985.035 y
	38 X	3.05	=		115.90 m
	12 X	8.50	=		102.00 y
	3 X	2.30	=		6.90 m
					224.80 m
		3.85/m	=		865.480 y
	15				
<u>20m</u>	25 X	3.80	=		95.00 m
	14 X	3.42	=		47.88 y
					142.88 m

$$\text{@ } 2.4718/m = 352.9131 y$$

12m

$$22 X 7.08 = 155.76 m$$

$$25 X 3.68 = 92.00 y$$

$$25 X 2.78 = 69.50 y$$

$$10 X 1.61 = 16.10 y$$

$$5 X 1.50 = 7.50 y$$

$$4 X 1.22 = 4.88 y$$

$$345.742$$

$$\text{@ } 0.8918/m = 307.7081 y$$

$$\text{Total } (512.64 + 333.513 + 420.596 + 601.639 + 985.035 + 864.480 + 352.913 + 307.708) y$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Wader</u>					
<u>12m</u>	1004	2.80	=		280.00m
	504	1.00	=		50.00m
	104	2.90	=		29.00m
	254	1.00	=		25.00m
	104	4.10	=		41.00m
					<u>425.00m</u>
					$20.8915 \text{ km} = 378.2519$
<u>10m</u>					
	104	1.50	=		15.00m
	54	2.50	=		12.50m
	104	2.10	=		21.00m
	34	1.80	=		5.40m

	254	1.20	=		30.00m
	304	1.80	=		54.00m
	40	2.20	=		88.00m
					<u>225.90m</u>
					$20.6215 \text{ km} = 140.05819$
<u>16m</u>					
	54	1.10	=		5.50m
	44	0.90	=		3.60m
	104	0.90	=		9.00m
					<u>18.10m</u>
					$21.5815 \text{ km} = 28.59819$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Total</u>					
Adt =	(	512.64 + 1333.513 + 420.596			
		+ 601.639)	19		
		= 2868.388	19		for 11%
for 2 nos.	=	2 x 2868.388			
		= 5736.776	19		(A)
Pier =	(	985.035 + 865.480 +			
		352.913 + 307.708)	19		
		= 2511.136	19		
for 3 nos.	=	3 x 2511.136			
		= 7533.408	19		(B)
<u>Walls</u>					

$$(378.25 + 140.058 + 28.598) 19$$

$$= 546.906 19 \text{ --- (C)}$$

$$\text{Total} = (A + B + C)$$

$$A = 5736.776 19$$

$$B = 7533.408 19$$

$$C = 546.906 19$$

$$13817.09 19$$

$$= 13.817 \text{ M}^2$$

15/03/25

15/03/25

J-E, T-Station

AE

Record Entry

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{1}{11}$ Parity R-ave. H-35 in sub-structure — and up. ph					
3 x 3	260	0.790			7.726 m ²
3 + 4	1.4 x 3.260				39.12 m ²
2 x 8	45 x 0.30 x 2.240				11.35 m ²
2 x 7.25 x 0.30 x 0.40					1.95 m²
2 x 7.25 x 0.30 x 0.30					1.30 m²
4 x 0.80 x 0.52 x 0.150					0.25 m ²
2 x 0.80 x 0.52 x 0.150					0.12 m ²
12 x 0.80 x 0.62 x 0.150					0.89 m ²
6 x 0.80 x 0.62 x 0.150					0.45 m ²
4 x 0.80 x 0.80 x 0.50					1.28 m ²
16 x 0.80 x 1.0 x 0.50					6.80 m ²
6 x 1.40 x 0.80 x 0.650					4.36 m ²
4 x 2.050 x 0.60 x 5.90					29.02 m ²
4 x 1.450 x 0.60 x 1.030					3.58 m ²
4 x 2.050 x 0.60 x 5.90					29.02 m ²
4 x 1.450 x 0.60 x 1.030					3.58 m ²
3 x 3.26 x 1.0 x 0.790					7.72 m ²
					40.32 m ²
25/103/2					
J-E					
T-ferns					

Continuation

Recd Entry

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>1</u> <u>18</u>	S/P/P HY 50 bars				
	- end cap pb				
	(super-structure)				
<u>Girders</u>					
<u>28mm</u>					
	2	20	19.30	=	772.00m
	1	16	19.30	=	308.80m
					<u>1080.80m</u>
				@ 3.90 K/m	= 4215.12 kg
<u>16mm</u>					
	3	4	19.30	=	231.60m
				@ 1.58 K/m	= 365.92 kg
<u>10mm</u>					
	3	197	18.75	=	11081.25m
	3	50	18.75	=	281.25m
					<u>11362.50m</u>
				@ 0.62 K/m	= 7044.75 kg
<u>8mm</u>					
	3	27	19.30	=	1563.30m
				@ 0.40 K/m	= 625.32 kg
Total = (4215.12 + 365.92 + 7044.75					
+ 625.32) kg					
= 12251.11 kg					
= 12.251 MT					
<u>Bar</u> 30.03.25	30/3/25				
J-E	AE				

Continuation

3rd on A/c Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Work - const of H.L. R.C.C. Bridge with approach over river at savings to Maghwa road to Maghwa Malikera.					
Agency - Damay Civil Const. India Pvt. Ltd.					
At - W.No - 18, Mea2					
Kairua Sub, Bawalga					
Polchare					
PO - Bhalua					
Dist - Kairua					
Agmt No - 06 S.B.D (2024-25					
(N.D.B)					

Date of work order -	21.09.2024
Date of completion -	20.09.25
Date of Meas -	20.05.25
1 Pondy R.C.C. H35 in sub-structure - cut up ft	
1 Pondy work. Halse - cut up ft	
	40.00 Mq.
2 Pondy R.C.C. H30 in super-structure - cut up ft	
	$3 \times 19.30 \times 0.30 \times 0.60 = 10.42 m^3$
	$3 \times 19.30 \times 0.30 \times 1.4 = 17.37$

Continuation

27.79 m³

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{1}{4}$	S.F.P	144	50	bars	
				110.290	
T.M.B/P	252	106	466	M.T	
				76782.20/M.T	84,68,309.
$\frac{2}{3}$	Prody R-co	M35	bar		
				Cost in value	
T.M.B/P	252	750	0	M	
				18208.42/RM	136,56,315.
$\frac{3}{5}$	Prody steel	lin-			
				Cost in value	
T.M.B/P	252	26.88	M.T		
				104492.00/M.T	28,08,745.
$\frac{4}{6}$	Prody for concrete				
				Temporary labor - cost in value	
T.M.B/P	252	2	00	1400	
				51261.00/	1,02,522.
$\frac{5}{7}$	Prody & concrete service				
				road - cost in value	
T.M.B/P	252	75	0	M	
				4380.00/RM	328,500.
$\frac{6}{28}$	Cost of Embankment				
				Cost in value	
T.M.B/P	252	1095.56	ms		
				263.98/	2,89,206.

Continuation

Cost 2,56,53,597.20

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					18,56,53,5772
$\frac{7}{29}$ concrete for pile sub-					
base - as per plan					
T.M. B/P - 26 = 70.31 m ³					
$\Rightarrow 4137.80/m^3 \Rightarrow$					2,90,9292
$\frac{8}{1}$ E/W in excavation					
form - as per plan					
T.M. B/P - 26 = 623.38 m ³					
$\Rightarrow 190.23/m^3 \Rightarrow$					1,13,5862
$\frac{9}{2}$ Pile head by P.C.C.					
being as per plan					
T.M. B/P - 26 = 23.58 m ³					
					8,433.78/m ³ $\Rightarrow$ 1,98,8692
$\frac{10}{8}$ Pile head T.M.					
- as per plan					
T.M. B/P - 26 = 200.00 M.T					
$\Rightarrow 300.00/M.T \Rightarrow$					60,0002
$\frac{11}{9}$ Pile head T.M.					
- as per plan					
T.M. B/P - 26 = 30.00 M.T					
$\Rightarrow 5000.00/M.T \Rightarrow$					1,50,0002
$\frac{12}{3}$ Pile head R.C.C. Mass					
Pile as per plan					
T.M. B/P - 27 = 399.32 m ³					
$\Rightarrow 9539.45/m^3 \Rightarrow$					3,80,92932

Continuation

$$\Rightarrow 3,02,81,27424$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F.	3,02,81,274
$\frac{13}{12}$ S.F.F. HYSD bars					
in sub-structure					
T.M.B/P-27	27	26	353	m-r	
T.M.B/P-36	36	13	817	m-r	
			40	17 m-r	
			77009.20	m-r	3,09,34,60
$\frac{14}{10}$ Poultry R-cw M35					
sub-structure - on c.p.f.					
T.M.B/P-27	27	28	14	m-r	
			9832.38	m-r	2,76,683
$\frac{15}{11}$ Poultry R-cw M35					
in sub-structure					
T.M.B/P-27	27	16	126	m-r	
T.M.B/P-37	37	40	32	m-r	
			201.58	m-r	
			199.07	m-r	
			39661.38	m-r	1,92,32,91
$\frac{16}{18}$ S.F.F. HYSD bars					
in sub-structure - on c.p.f.					
T.M.B/P-38	38	12	25	m-r	
			78669.20	m-r	9,63,77,62
$\frac{17}{14}$ Poultry R-cw M35					
- on c.p.f.					
T.M.B/P-39	39	40	10	m-r	
			159.22	m-r	63,68
Continuation					
3,65,44,852					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF 3,65,44,822 ✓
$\frac{18}{17}$ Pandy R. 120 ✓					
super-structure - cut off					
T.M.B/P - 39 = 27.79m ³					
→ 10231.27/m →					2,84,327.20
$\frac{19}{30}$ S.P.P. R. 114 ✓					
Ham-pile - cut off					
T.M.B/P - 40 = 37.50m					
→ 8084.35/m →					3,03,163.20
$\frac{20}{31}$ Contingency & bonus					
for soil investigation					
- cut off					
T.M.B/P - 40 = 1.08m/ft					
→ 4,00,000.00 →					4,00,000.00
					3,92,323.20
<u>Adding</u>					
(1) G.S.T @ 18% →					67,01,822.00
(2) L.C.S @ 1% →					37,232.32
(3) Surcharge fee -					
P-14 →					1,06,706.20
P-30 →					69,006.00
P-46 →					76,700.00
					4,44,89,869.20
<u>Less</u>					
Agent - 0.01 % below →					4,449.00
					4,44,85,420.20

Continuation

→ 4,44,85,420.20

