M.B. No 1475

Schedule XLV-Form No. 134

NLDB (Brics)

R.W.D PAKRIDAYAL DIVISION

R.W.D TETARIYA SUB-DIVISION

CONSTRUCTION OF R.C.C HL BRIDGE IN SARAYA TO MEGHNA ROAD TO MEGHNA MERIKARA ROAD WITH APPROACH ROAD

Measurement Book

Damas civil const India pvt Ltd

प्रमाणित किया जाता है कि
मापी पुस्तक में प्रविष्टि संख्या 100
पृष्ठ हैं जिसे सहायक अभियन्ता
ग्रामीण कार्य विभाग कार्यालय
प्रखण्ड तेतरिया के पदनाम से
निर्गत किया जाता है।

30.10.24
Executive Engineer
RWD Works Division
Patakidayal
30.10.24

Sch. XLV - Form No. 134

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

Sch. XLV-Form No.1344 19

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Work – Const. of H.L. R.C.C. Bridge with approach over river at Sarrij to Meghla road to Meghla Malikanga.					
Agency – Damas Civil Const India Pvt Ltd.					
At – W.No.–18, Near Kairmurtoork, Balwatia Pokhra.					
P.O – Bhabua					
Distt – Kaimur					
Agreement No – 06 SBD / 2024-25 (H.D.B)					
Date of work order – 21.09.24					
Date of completion – 20.09.25					
Date of Meas – 25.06.2025					
1/18 S.F.F HYSD bars in sub-structure – cut off. fb.					
Main Girder					
28 nos =	18	X 20.46	=	368.28 m	
	10	X 20.46	=	204.60 "	
	6	X 21.928	=	131.56 "	
	4	X 20.162	=	80.64 "	
	6	X 17.862	=	71.45 "	
	4	X 15.404	=	61.61 "	
				918.14 m	

Continuation

Sch. XLV-Form No.134 50

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.C	918.14 m
	4 x	12.9	44	= 5	1.77 "
	2 x	21.7	70	= 4	3.54 "
	2 x	19.1	62	= 3	8.32 "
	2 x	15.7	04	= 3	1.40 "
				10	83.17 m
	e 4	.83	18/m	= 52	31.71 kg
			=	5.2	31 M.T
16 mm =	6 x	19.2	40	= 115	.44 "
	6 x	19.	260	= 1	15.56 "
				23	1.00 m
	e	1.58	18/m	= 3	94.98 kg
			2	0.	365 M.T
10 mm =	146	x 8.	312	= 1213	.55 m
	36	x 8.	560	= 3	08.16 "
	195	x 1.	558	= 30	3.81 "
	83	x 8.	328	= 6	91.22 "
	18	x 8.	576	=	154.36 "
				2	671.10 m
	e	0.62	18/m	= 1	656.08 m
			=	1.	656 M.T
6 mm =	65 x	1.035		= 67.	27 m
	130	x 0.	750	= 97.	50 "
	~~12~~	~~x 92.~~	~~88~~	=	
	12	x 7.	740	= 92.	88 "
				267.	65 m
	e	0.21	18/m	= 5	6.20 kg

Continuation = 0.056 M.T

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Total =					
	5	2.31	M.T		
	0	3.65	M.T		
	1	6.56	M.T		
	1	0.58	M.T		
		7.308		M.T	
=	4	x 7.308		= 29.232 M.T	
					(A)
Cross Girder					
16 cm =	8 x	5.646		= 45.168 m	
	8 x	7.4		= 56.00 "	
				101.168 m	
	C	1.588	t/m		159.845 t
				= 0.160 M.T	
20 cm =	6 x	6.380		= 38.28 m	
	6 x	6.380		= 38.28 "	
	4 x	8.135		= 32.54 "	
	6 x	7.4		= 42.00 "	
				151.10 m	
	C	2.478	t/m	= 373.21 t	
				= 0.373 M.T	
12 cm =	4 x	7.544		= 30.176 m	
	4 x	7.588		= 30.352 "	
	20	x 5.518		= 110.36 "	
	4 x	5.438		= 21.752 "	
				192.64 m	
	C	0.891	t/m	= 171.449 t	
				= 0.171 M.T	

Continuation

Sch. XLV-Form No.134 52

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10mm =	24	x 2.936	=	70.464 m	
	44	x 5.572	=	245.168 "	
				315.632 m	
	@ 0.624 kg/m		=	195.69 kg	
			=	0.196 M.T	
6mm =	24	x 5.256	=	126.4 m	
	16	x 2.930	=	46.88 "	
				172.88 m	
	@ 0.211 kg/m		=	36.304 kg	
			=	0.036 M.T	
Total =	0.160 M.T				
	0.373 M.T				
	0.171 M.T				

	0.196 M.T			
	0.036 M.T			
	1.475 M.T			
=	4 x 1.475	=	5.900 M.T	
			— (B)	

Slab.

12mm	= 81 x 7.252	=	587.412 m
	88 x 5.340	=	466.40 "
	84 x 5.340	=	445.28 "
			1499.012 m
	@ 0.894 kg/m	=	1334.120 kg
		=	1.334 M.T

Continuation

Sch. XLV-Form No.134 53

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
16mm =	176	X2·325		= 4	09·20 M
	e1·	585	mm	= 6	46·536 M
				= 0·6	46 M·T
8mm =	156	X1·85		= 288	8·60 M
	22	X19·64		= 431·	20 "
	24	X19·612		= 470	0·68 "
	24	X19·278		= 462	48 "
	10	X19·278		=	192·78 "
	10X	19·278		=	192·78 "
	16X	1·700		=	27·20 "
	8X	19·278		=	154·16 "
	130	X 1·656		= 2	15·28 "
					2435·42
	80·39	18/m		= 9	49·65 M
				= 0	950 M·T
Total =	1·334 M·T				
	0·646 M·T				
	0·950 M·T				
	2·930 M·T				
=	4 X 2·930			=	11·72 M·T
					——— (2)

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
R. wall & Dist wall					
16 mm ϕ	10	X 2.70		= 27.00 m	
	3	X 4.40		= 13.20 "	
	35	X 2.90		= 101.50 "	
				141.70 m	
	e 1.58	kg/m		= 223.886 kg	
				= 0.223 M.T	
12 mm ϕ					
	11	X 6.234		= 68.57 m	
	11	X 6.234		= 68.57 "	
	10	X 2.70		= 27.00 "	
	15	X 1.87		= 28.05 "	
	22	X 1.60		= 35.20 "	
		19	X 7.95	= 151.05 "	
		35	X 2.90	= 101.50 "	
				479.94 m	
		e 0.89	kg/m	= 427.146 kg	
				= 0.427 M.T	
Total = (0.223 + 0.427)					
	= 0.650 M.T — (D)				
Total steel	= 2 X 0.650 = 1.300 M.T				
	A = 29.232 M.T				
	B = 5.900 M.T				
	C = 11.720 M.T				
	D = 1.300 M.T				
	48.152 M.T				

Continuation

Sch. XLV-Form No.134 55

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B-F	48	·152 M·T
Less					
Previous qty					
P – 43	=	12·25		(–) 1	2·251 M·T
				3	5.901 M·T
Sheet					
25.06.	25				
J-E					

Continuation

4th on A/c Bill

Sch. XLV-Form No.134 56

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Work - Const. of H.L R.C.C. Bridge					
with approach over river					
at Sariya to Maghua road					
to Maghua Malikana.					
Agency - Darnas Civil Const India					
Pvt Ltd.					
At - W.No - 18 14					
Kaimur stoob, Balwatia					
Pokhra					
P.o - Bhabua					
Distt - Kaimur					
Agrmt No - 06SBD/2024-25					
(M.D.B)					

Date of work order = 21.09.24					
Date of completion - 20.09.25					
Date of Meas - 15.07.25					
1/17 Providing R.C.C M30					
in super-structure					
- cap pt.					
Main Girder =					
	3	×19.30	×(0.550+0.320)/2	×0.600	= 14.76
	3 ×	19.30	×0.30	×0.960	= 16.67 "
Cross Girder 4	×5.30	×0.250	×1.10	=	5.83 "
Slab = 1	×19.30	×8.45	×0.215	=	35.06 "
					72.32 m3
	=	4×72.32		= 2	89.28 m3

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
R. Wall				B.F.	289.28 m3
	4	x 3.60	x 0.500	x 1.875	= 13.50 m3
Botto =	4	x 1.800	x 0.500	x 1.875	= 6.75 "
D. wall =	2	x 8.45	x 0.300	x 1.000	= 5.07 "
					314.60 m3
		Limit = 312.00 m3			
Deduct Previous					
Qty P –	27.79 m3		(–) 27.79 m3		
				284.21 m3	
2/13	S.F.P Elastomeric Bearing & Support Pad – – – as p. ps.				
	24	x 50.00	x 32.0	x 8.40	= 322560.00 cu cm
	4	x 30.0	x 20.0	x 2.00	= 4800.00 "
	16	x 40.0	x 20.0	x 2.00	= 25600.00 "
	6	x 80.0	x 20.0	x 2.00	= 19200.00 "
					372160.00 cu cm
3/21	Providing drainage spout – – as p. ps.				
			= 32.00 Nos		
4/19	Providing & laying wearing coat – – as p. ps.				
	4	x 19.28	x 7.50	x 0.075	= 43.38 m3
5/20	Const. of R.C.C. M30 – – as p. ps.				
	2	x 84.88			= 169.76 m3

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
6/24 Providing & laying				1	
strip seal expansion					
joint - cut off.					
5 x 8.45 = 42.25 m.					
15.07.25					
J.E					

Continuation

Abstract of cost

Sch. XLV-Form No.134 59

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1/4 S. F. F. HYSD bars					
- as per spec. fab					
T.M.B / P-41 = 110.290 M.T					
@ 76782.26/MT					84,68,309.00
2/3 Providing R.C.C. M35 bored cast in situ					
T.M.B / P-41 = 750.00 M					
@ 18208.42/RM					1,36,56,315.00
3/5 Providing steel liner - as per spec. fab					
T.M.B / P-41 = 26.88 M.T					
@ 104492.00/M.T					28,08,745.00
4/6 Providing & constructing temporary island - as per spec. fab					
T.M.B / P-41 = 2.00 Nos					
@ 51261.00/each					1,02,522.00
5/7 Providing & constructing service road - as per spec. fab					
T.M.B / P-41 = 75.00 M					
@ 4380.00/RM					3,28,500.00
6/28 Const. of Embankment - as per spec. fab					
T.M.B / P-41 = 1095.56 m³					
@ 263.98/m³					2,89,206.00

Continuation

C.O. 2,56,53,597.00

Particulars	No.	L.	B.	D.	Contents of area
				B.Fy	2,56,53,597.00
7/29 Const. of granular sub-base					
— as per sp. spec.					
T.M.B/P – 42 = 70.31 m³					
@ 4137.80/m³				→	2,90,929.00
8/1 E/W in excavation					
in fdn. – as per sp. spec.					
T.M.B/P – 42 = 623.38 m³					
@ 190.23/m³				→	1,18,586.00
9/2 Providing P.C.C. in levelling					
course – as per sp. spec.					
T.M.B/P – 42 = 23.58 m³					
@ 8433.78/m³				→	1,98,869.00
10/8 Pile Load Test					
T.M.B/P – 42 = 200.00 M.T					
@ 300.00/M.T				→	60,000.00
11/9 Pile Load Test —					
– as per sp. spec.					
T.M.B/P – 42 = 30.00 M.T					
@ 5000.00/M.T				→	1,50,000.00
12/3 Providing R.C.C. M_{35}					
in Pile – as per sp. spec.					
T.M.B/P – 42 = 399.32 m³					
@ 9539.45/m³				→	38,09,293.00

Continuation

C/o 3,02,81,274.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F	02,81,274
13/12 S.F.F. HYSD bars in sub-structure — cum cft. ft.					
T.M.B | P —		43 =	40.17	MT	
@ 7709.20 | MT					30,93,460
14/10 Providing R.C.C. M35 in sub-structure — — — cum cft. ft.					
T.M.B | P —		43 =	28.14	m³	
@ 9832.38 | m³					2,76,683
15/11 Providing R.C.C. M35 in sub-structure					
T.M.B | P —		43 =	199.07	m³	
@ 9661.38 | m³					19,23,291
16/18 S.F.F. HYSD bars in sub-structure — cum cft. ft.					
T.M.B | P —		43 =	12.25	MT	
T.M.B | P —		5% =	35.901	MT	
			48.152	MT	
@ 78669.20 | M.T					37,88,079
17/14 Providing Wrought Hooks — — cum cft. ft.					
T.M.B | P —		43 =	40.00	Nos	
@ 159.22 | —					6368

Continuation

3,93,69,155

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F.	93,69,158 Rs
18/17 Providing Reinf. M30 in super structure – – each cp. pl					
T.M.B / P – 44 = 27.79 m³					
T.M.B / P – 57 = 284.21 ″					
			312.00 m³		
@ 10231.27 / m³					31,92,156 Rs
19/30 S.F.F. Reinf. H P4 Hume pipe – each cp. pl					
T.M.B / P – 44 = 37.50 M					
@ 8084.35 / RM					3,03,163 Rs
20/31 confirming of Boring – each cp. pl					
T.M.B / P – 44 = 1.00 Nos					
@ ₹1,00,000.– / each					1,00,000 Rs
21/13 S.F.F. Elastomeric bearing pad – each cp. pl					
T.M.B / P – 57 = 372160 cu cm					
@ 0.91 / cu					3,38,666 Rs
22/21 Providing drainage spout – each cp. pl					
T.M.B / P – 57 = 32.00 Nos					
@ 1177.–/each					37,664 Rs

Continuation

C/o ₹4,33,40,804 Rs

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F. 54,	33,40,804,20
23/19 Providing & laying					
wearing coat					
T.M.B/	P - 57 = 43.38 m³				
@ 15105.14/ per					6,55,255.20
24/20 Providing R.C.C. M30					
in railing - as per specification					
T.M-B/	P - 57 = 169.76 m				
@ 2024.65/RM					3,43,705.20
25/24 Providing & laying of					
strip seal Expansion					
joint - as per specification					
T.M.B/	P - 58 = 42.24 M				
@ 14172.4/RM					5,98,767.20
				54,	49,38,591.20
Adding					
(1) G.S.T @ 18%					80,88,936.20
(2) L-cess @ 1%					4,49,385.20
(3) Seignorage P - 14					1,06,706.20
		P - 30			69,006.20
		P - 46			7,670.20
		P - 65			36,900.20
					5,36,97,134.20
Less					
As per Agreement					
0.01% below				(-)	5,370.20
					5,36,91,764.20

Continuation

(+) 5,36,91,764.20

Sch. XLV-Form No.134 64

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/f	5	36,91,764
Deduct					
Previous Payment					
P-16	= 1	30,58,334			
P-31	= 1	1,02,00,104			
P-48	= 1	36,99,982			
	48	4,44,85,420			
				4	4485420
				592	6344
Sh.					
15/07/18					
J.E					

Continuation

Sch. XLV-Form No.134 65

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Seigniorage fee					
(1) R-cc M30 in super-					
structure					
	284.21 m3				
20mm Aggregate =	153.47 m3				
	@ 1207.76/m3				→ 185355.20
10mm =	102.31 m3				
	→ 595.16/m3				→ 60891.20
Sand =	127.89 m3				
	@ 577.80/m3				→ 73895.20
(2) Wearing Coat					
	= 43.38 m3				
Sand =	19.52 m3				
	@ 577.80/m3				→ 11279.20
20mm Aggregate	= 23.42 m3				
	→ 1207.76/m3				→ 28286.20
10mm Aggr	= 15.61 m3				
	@ 595.16/m3				→ 9290.20
					368996.20
Seigniorage fee:					
	10 % 368996				= 36,900.20
					36,900.20
Sd/- 18.07.2?					
J.E					

Continuation

Sch. XLV-Form No.134 66

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Material					
① HYSD bars	=	35.90	M.T		
② sand =	147.41	m^3			
③ 20mm Aggregate =	176.89	m^3			
④ 10mm Aggregate =	117.92	m^3			
Thumi					
15707 Rs					
J.E					

Continuation