

MM 4548 modification 1046 07931 27 294401151 27
Schedule XLY-Form No. 134

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Division of 1141 MARCOM INFRA ^{PRIT LTD} DIVISION

Agreement NO - 56/5BD/MMSY - 24-25

C - Cost 1 - 55223987 = 0 SUB-DIVISION

M - Cost 1 - 690,841 = 0

Total — 5,5914,828 = 0 MB NO - 3054

MEASUREMENT BOOK

Date of Start :- 16/3/24

Date of completion :- 15/3/26

(id documents)

iof) Base
ssess any
nt based ver

1st RA Bill.

1.

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.	
N/H - Construction of RCC Bridge at L046 - Jamua					
28 To Khermagarh (VR-46)					
at ch. 11.400 Km.					
Agency - Marcom Infra Pvt Ltd.					
Aggr. No. - 56/SBD/17M/284/24-25					
Date of commencement - 16-03-24					
Date of completion - 15-03-25					

1. Clearing & Grubbing					
& Grubbing road land.					
4 x 30.0 x 8.0					= 960.0
4 x 20.0 x 8.0					= 640.0
					1600.0
					= 0.16 Hec.

2. Dismantling of existing					
str. RCC - - - E/A					
2 x 7.5 x 2.2 x 2.5					= 82.5
4 x 5.0 x 1.2 x 2.2					= 52.8
1 x 20.0 x 7.5 x 0.6					= 90.12
2 x 7.6 x 1.4 x 1.6					= 34.05
4 x 4 x 1.0 x 1.9					= 30.4

Continuation 289.87m³
Lt. - 289.77m³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
3. Discontinuing of existing str. 18/11 - E/A					
		10	20.0	0.125	75.0
		7	25.0	0.125	75.56
		10	15.0	0.125	48.75
		6	20.0	0.125	34.65
					234.96 m ³
lt. 253.88 m					

4.	Const. of embankment				
	for diversion - E/A				
	2x	30.0	x	5.5	x 3.0 = 2990.0
	1x	30.0	x	5.5	x 3.0 = 495.0
	2x	10.0	x	4.15	x 2.0 = 165.2

						1650.2
						= 1650.0 m ³
5. Const. of GSR (m) - E/A						
		2	30.0	4.15	0.15	37.35
		1	30.0	4.15	0.15	18.625
		2	10.0	3.6	0.15	10.8
						66.82 m ³

6. P/W & laying R.C. NA2						
HP - E/A						
		3	3	2.5		22.5
				2.5		15.0

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
7 Construction of temporary Island ... E/A					2 Nos.
8 Construction of temporary service road ... E/A					
	3	18.5			= 55.5m
9 S/F/P HYD Bar in pile head. ... E/A					
	Abt-	A1			
Mam E Length 25φ	24.5	18	3.858		= 1701.38
" to family 25φ	14.675	18	3.858		= 1019.09
Ring	16φ	3.572	41	1.58	= 231.39
Ring	10φ	3.261	148	0.62	= 299.23
					3251.09
For 6 Nos.	6	3251.09			
					= 39013.08 19506 Kg
Chapman	24.5	18	3.858		= 39013.08 19506 MT
24.5	18	3.858			
10 Board Cast in situ					
M-35 R/c pile ... E/A					
	Abt-	A1			
	6	22.0			= 132m
Chapman	26.8	24	3.858		= 39013.08 19506 MT
26.8	24	3.858			

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
11. P/V Steel liner 6mm					
H. - - - E/A A61-A1					
		6x3.77	x0.006	x2.33	
				x7860	=2485.549
12. S/F/P HYSD Bar					
in found. P1 pier					
Main Bar	25φ	26.5x	18x	3.858	21840.27
up to finally	25φ	14.65x	18x	3.858	21017.25
Ring	16φ	3.572x	160x	1158	2903.0
Ring	10φ	3.281x	162x	0.62	327.53
					4088.16

For 4 Nos. 4x4088.16

$$= 16352.64 \text{ kg}$$

$$= 16.353 \text{ Ton}$$

Shamir
28.3.24
JB

28.3.24
JB

13. Be and cast in situ

M-35 RCC pile - E/A

Pier P1 -

$$4 \times 24 = 96 \text{ m}$$

14. P/V Steel liner 6mm

H. - - - E/A Pier P1

$$4 \times 3.77 \times 0.006 \times 3.54$$

Continuation

$$x7860 = 2517.532$$

Shamir
2.4.24
JB

2.4.24
JB

5

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
15 S/F/P HYSD Bar in					
A2 Load pile ... E/A					
Main Bar	25φ	24.5	18	3.858	= 1701.38
up to finch	25φ	14.675	18	3.858	= 1019.09
Ring	16φ	3.572	41	1.58	= 231.39
Ring	10φ	3.261	148	0.62	= 299.22
					3251.09

For 6 Nos. 6×3251.09
 $= 19506.54$
 $= 19.506 \text{ Ton}$

Shoring

10.4.24
 JE

18
 16.8.24
 AE

16 Board cast in situ
 17.35 RCP pile.
 Abt - A2
 $6 \times 22.0 = 132 \text{ m}$

17 P/W Steel liner beneath.
 $6 \times 377 \times 0.008 \times 2.22$
 $\times 7860 = 2485.549$

Shoring
 16.4.24
 JE

18
 16.8.24
 AE

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
18. S/F/P HYSD Bar in form pile. Pier P-2.					
Main Bar.	254	26.5m	18m	3.858	= 1840.27
up to finally	254	14.65m	18m	3.858	= 1017.35
Ring	164	3.577m	160m	1.58	= 903.0
Ring	104	3.261m	162m	0.62	= 327.53
					4088.16
For 4 Nos.	4x	4088.16			
		=	16352.64		
		=	16.353 Ton.		
19. Band cast in situ M-35 RCA pile Pier P2					
	4x	24			= 96m
20. R/A Steel liner bar in ... E/A Pier P2					
	4x	3.77m	0.006m	3.54m	
			7860		= 2577.552
Shoring 24.4.24 OT					
18. S/F/P 24.4.24 AC					

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
21. E/W in excavation for found. ... E/W					
A ₁	1	9.7	6.1	2.45	145.32
P ₁ +P ₂	2	6.1	6.1	2.272	169.08
A ₂	1	9.7	6.1	2.305	126.39
					450.79 m ²
22. P/W & laying PCC 17-15 as drenching course ... E/W					
A ₁	1	9.0	5.4	0.152	7.29
P ₁ +P ₂	2	5.4	5.4	0.152	8.75

A ₂	1	9.0	5.4	0.15	7.29
Chambers					22.33 m ²
23. S/P H/SB Bar w/ pile cap ... E/W					
Top Bar	16	11.15	43	1.58	1515.06
" "	16	7.55	73	1.58	1741.63
Bottom Bar	20	11.15	43	2.47	2368.48
" "	20	7.55	73	2.47	2722.68
Side Face	12	5.93	22	0.89	234.89
Chair	16	4.96	35	1.58	548.58
Side Face	12	9.55	22	0.89	373.14
					950.27
					4750.635

Continuation

$$A_1 + A_2 = 2 \times 950.27 = 1900.54$$

$$= 19.00 \text{ Ton} = 9.50 \text{ MT}$$

Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
24 Pile 2 Laying ROOMS					
in pile cap - E/S					
A ₁	1	8.7	5.1	1.8	79.87
A ₂	1	8.7	5.1	1.8	79.87
					159.73 m ²
25 S/F/P HYSD Bar					
in pile cap					
Bottom Main 20φ	7.55	43	2.47	2	

23 S/F/P HYSD Bar					
in pile cap Abt.					
Top Bar	16φ	11.15	43	1.58	= 753.53
"	16φ	7.55	73	1.58	= 870.82
Bottom	20φ	11.15	43	2.47	= 1184.24
"	20φ	7.55	73	2.47	= 1361.34
Chair	16φ	4.96	35	1.58	= 274.29
Side Face	12φ	5.93	22	0.89	= 115.85
"	12φ	9.55	22	0.89	= 186.57
					4750.64
A ₁ + A ₂ =		4750.64	2		
					= 9501.27
					= 9.501 MT.

8/10/24
5.5.24
TE

Continuation

8/10/24
05.05.24
AE

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Content of area
	No.	L.	B.	D.	
24 P/V 8 Layer RCC					
M-35 in pile cap					
A ₁	1	8.7	5.1	1.8	79.8
	1	8.7	5.1	1.8	79.8
					159.73
25 4/F/P HYSD Bar					
in pile cap					
Main Bottom 20φ	7.55	4.3	2.47		801.5
" " 20φ	7.55	4.3	2.47		801.56
Top Main 16φ	7.55	4.3	1.58		501.02
" " 16φ	7.55	4.3	1.58		501.02
Chair 16φ	4.91	2.5	1.58		195.92
Side bar 12φ	5.9	2.1	0.89		110.02
" " 12φ	5.9	2.1	0.89		110.02
					3021.12
P1 + P2					3021.12 × 2
					= 6042.24 Kg
					= 6.042 MT
Sharma					
15.5.24					
AE					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
26. P/N & laying RCM-25 in pier pile cap --- E/A					
		1 x 5.1 x 5.1 x 1.8 =			46.82
		1 x 5.1 x 5.1 x 1.8 =			46.82
					93.64 m ²
27. Initial load test for 2.5 times of design --- E/A					
1 No.					1 No.
28. Routine pile load test for 1.5 times of Design --- E/A					
					1 No.
29. Horizontal pile load test for 1.5 times of Design --- E/A					
					1 No.
30. P/N & laying logs & in for. --- E/A					
					1 No.
31. P/N & laying piles in for. --- E/A					
Checked 24.5.24 SE					

Continuation

ABSTRACT OF COST

11

Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
1. E/A in excavation for found. ... E/A					
450.79 m ³			P-7		
@ 427.09/m ³				Rs.	1,92,528 =
2. P/A & const. temporary Island ... E/A					
2 Nos.			P-9		
@ 3712/6.14/No.				Rs.	742,432 =
3. P/A & const. temp service road ... E/A					
55.5 m			P-9		
@ 6846/6/m				Rs.	379,362 =
4. P/A & Laying RCC MAS as levelling course ... E/A					
23.33 m ²			P-7		
@ 8278.41/m ²				Rs.	1,93,135 =
5. P/A & Laying RCC 17-35 in pile cap ... E/A					
159.73			P-9		
93.64			P-10		
253.37 m ²					
@ 9692.54/m ²				Rs.	2,456,052 =

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
6 Board cast in situ					
7 R.C.C. pile					
132.0 m			P-3		
96.0 m			P-4		
132.0 m			P-5		
96.0 m			P-6		
456.0 m					
Q 28130.12/m					Rb. 128,27,335 =
7/8 S/F/P HYSD Bar					
m found.					
19.506			P-3		
16.353			P-4		
19.506			P-5		
16.353			P-6		
9.501			P-8		
6.042			P-9		
87.261 Ton					
Q 80570.84/Ton					Rb. 70,30,692 =
8 P/W steel line 6 mm Th.					
9					
2485.549			P-4		
2517.552			P-4		
2485.549			P-5		
2517.552			P-6		
10006.202 Kg			10.0 Tm		
LT- 9.98 Ton					
Q					Rb. 9,62,010 =

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
9 31 Const. of embankment from borrow pits. --- E/A					
1650.0 m ²			P-2		
@ 261.14/m ²				Ra.	430.88
10 32 P/W & Laying G.B. Grt. 1 --- E/A					
66.83 m ²			P-2		
@ 2792.03/m ²				Ra.	186.5912
11 33 P/W & Laying N.P. 1000 mm pipe --- E/A					
37.5 m			P-2		
@ 4458.65/m				Ra.	167.199
12 35 Initial pile load test 2.5 times of Design --- E/A					
1 No.			P-10		
@ 3,00,000/No.				Ra.	300,000
13 36 Routine pile load test 1.5 times of design --- E/A					
1 No.			P-10		
@ 2,00,000/No.				Ra.	2,00,000

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
14 37 Horizontal pile load last 1.5 times of Design - - - E/B					
1 No.			P-10		
@ 100,000 / No.				Rs.	1,00,000 =
15 38 Clearing & grubbing road land - - - E/B					
0.16 Hec			P-1		
@ 75,573.34 / Hec				Rs.	12,092 =
16 39 Dismantling of existing str. - - - E/B					
289.77 m ²			P-1		
@ 683.75 / m ²				Rs.	1,98,130 =
17 40 Dismantling of existing str. P/U - - - E/B					
234.88 m ²			P-2		
@ 649.99 / m ²				Rs.	1,52,670 =
18 50 for & fixing logs of project - - - E/B					
1 No.			P-10		
@ 7500 / No.				Rs.	7500 =

Continuation

Continuation