

Name of work - C/P of R.C.C Bridge Span 3x12.5m
in between Kuchwaha Toll to Kuanhar Toll
Schedule XLV-Form No. 134
at ch 790m.

PHILIPPARA S DIVISION

KHUTANIA SUB-DIVISION

MEASUREMENT BOOK

MBNG-4124-2023-24

MAA CONSTRUCTION

समाप्त किया जाता है कि माषी फुलन में मशीन के द्वारा
छदी 100 (एक सौ) फुल भेजिए, जो सहायक अभि
यंता, सभी अनल प्रमंडल खुदों के नाम से
निर्दिष्ट किया जाता है।

21.8.23
EXECUTIVE ENGINEER
Rural Works Department
Works Division Phulparas
21.08.2023

Sch. XLV—Form No. 134

PHULPARAS DIVISION
KHUTADNA SUB-DIVISION

Measurement Book

M.D-No 412/2023-24

21.8.23
Name of Officer EXECUTIVE ENGINEER
Rural Works Department
Works Division Phulparas
Date of first entry 21.08.2023
Date of last entry _____

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.	
Work - Construction of RCC Bridge					
Span 3 X 12.5m in Betwe					
Kuhwaha Tal to Kumbhar					
Agency - Maa Construction Dhanaraja					
Phulpara, Madhukhan					
Agreement No - 19 SBD / 23-24					
Date of start - 21/8/2023					
Date of completion -					

For Pier P₁

1) Supplying fitting and plan:

T.M.T bar reinforcement

$$25 \text{ mm} = 22 \times 22.522 \times 3.851 = 1908.1$$

$$20 \text{ mm} = 11 \times 3.53 \times 2.47 = 95.91$$

$$8 \text{ mm} = 134 \times 3.39 \times 0.394 = 178.97$$

$$2182.98$$

$$2.182 \text{ M.T}$$

For 6 nos piles

$$6 \times 2.182 \text{ M.T} = 13.092 \text{ M.T}$$

2) Bore cast M35 pile extend:

Reinforcement complete

$$6 \times 20 \text{ m} = 120 \text{ m}$$

Signature
 09/10/23
 AE

Arvind Chandra
 Continuation 9/10/23

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abutment A1					
3) Supplying fitting and placing T.M.T bar reinforcement					
25 mm =	22	20.522	3.851		1738.66
20 mm =	10	3.53	2.47		87.19
8 mm =	120	3.39	0.394		160.27
					1986.12
					1.986 MT
For 8 nos piles					
8 x 1.986 MT					= 15.888
4) Bore cast in M35 pile cap					
Reinforcement complete					
8 x 18 m					= 144 m
Summation 15/10/23 AE Arvind Sharma 15/10/23 J.E					

Abutment A2					
5) Supplying fitting and placing T.M.T bar reinforcement					
25 mm =	22	20.522	3.851		1738.66
20 mm =	10	3.53	2.47		87.19
8 mm =	120	3.39	0.394		160.27
					1986.12
					1.986 MT
For 8 nos piles					
8 x 1.986 MT					= 15.888 MT
6) Bore cast in M35 pile					
including reinforcement complete					
8 x 18 m					= 144 m

Continuation
~~Summation~~
~~21/10/23~~ AE ~~Arvind Sharma~~
~~21/10/23~~ J.E

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7) For Pier P2					
supplying fitting and placing T.M.T bar reinforcement					
25 mm	22	22.522	3.851		1908.1
20 mm	11	3.53	2.47		95.91
16 mm	134	3.39	0.394		178.97
					2182.9
					2.182 M
For 6 nos pile					
					6 X 2.182 M.T = 13.092
8) Best cast M35 pile exclud Reinforcement complete					
					6 X 20 m = 120 m
9) Earthwork in excavation for structure as per drawing					
					2 X 9.7 X 6.1 X 2.08 = 246.42
10) Providing and laying of P.C. M15 levelling course 100mm					
					2 X 9m X 5.4m X 0.15m = 14.58 m
11) Supplying fitting and placing T.M.T bar reinforcement					
Bottom					25 mm = 69 X 8.07 X 3.851 = 2144.35
Bottom					16 mm = 34 X 11.67 X 1.58 = 626.71
Top					16 mm = 58 X 8.08 X 1.58 = 740.45
Top					16 mm = 34 X 11.68 X 1.58 = 627.44
Side					16 mm = 12 X 9.51 X 1.58 = 180.30
Continuation					
Side					16 mm = 12 X 5.91 X 1.58 = 112.05
					4431.5
					4.431 M.T

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 nos pile cap =					
2 X 4.431 M.T =					8.862 M.T
12) Supply of iron and					
plain T.M.T bar for					
Pier shaft					
20 mm	41	5.77	2.47		584.32
16 mm	10	6.16	1.58		97.32
					681.64
					0.681 M.T
2 nos shaft					
2 X 0.681 M.T =					1.362 M.T
Sum of 05/11/23 As per drawing AE 5/11/23 AE					
13) R.C.C grade M30 in pile					
foundation complete as					
2 X 8.7 m x 5.1 m x 1.80 =					159.732
Sum of 06/11/23 As per drawing AE 5/11/23 AE					
14) Earthwork in excavation					
for structure as per drawing					
2 X 13.30 m x 6.1 x 2.562 =					415.71 m ³
15) Levelling course R.C.C.					
thick below pile cap					
2 X 12.60 x 5.4 x 0.15 =					20.412 m ³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16) Supplying fitting and placing T.M.T bar reinforcement					
Bottom	16 mm	82	8.08	1.58	1046.84
Soth	25 mm	41	15.28	3.85	2411.94
Top bar	16 mm	82	8.08	1.58	1046.84
Top bar	16 mm	34	15.28	1.58	820.84
Side	16 mm	12	5.9	1.58	111.86
Side	16 mm	12	13.15	1.58	249.32
Sum					5687.64
					5.687 M.
For 2 nos pile cap					
					2 X 5.687 M.T = 11.374 M

17) Supplying fitting and placing T.M.T bar reinforcement					
Abutment shaft					
20 mm	57	5.85	2.47		823.62
16 mm	57	5.85	1.58		526.85
20 mm	16	5.85	2.47		231.19
Retra wall					
12 mm	160	4.9	0.888		696.19
16 mm	8	4.9	1.58		61.93
					2339.78
					2.339 M.T
For 2 nos shaft					
					2 X 2.339 M.T = 4.678 M.T

Continuation

~~Summit~~
12/11/09
DE

Arbiter's
12/11/09
J.E.

Continuation

Abstract of cost

7

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) Supplying fitting T.M.T.					
13.092 M.T Qty vide T.M.B Pg-1					
15.888 M.T Qty vide T.M.B Pg-2					
15.888 M.T Qty vide T.M.B Pg-2					
13.092 M.T Qty vide T.M.B Pg-3					
57.96 M.T @ Rs 84838 =					4917210
2) Bore cast in M35 R.C.C.					
120 M Qty vide T.M.B Pg-1					
144 M Qty vide T.M.B Pg-2					
144 M Qty vide T.M.B Pg-2					
120 M Qty vide T.M.B Pg-3					
528 M @ Rs 19591 =					10344048
3) Excavation for struts					
246.4 m ³ Qty vide T.M.B Pg-3					
415.71 m ³ Qty vide T.M.B Pg-4					
662.11 m ³ @ Rs 350 =					231655
661.87 m ³					
4) Providing and laying of PCC					
14.58 m ³ Qty vide T.M.B Pg-3					
20.412 m ³ Qty vide T.M.B Pg-4					
34.992 m ³ @ Rs 8171 =					285920
5) Supplying fitting and pl					
8.862 M.T Qty vide T.M.B Pg-4					
1.374 M.T Qty vide T.M.B Pg-5					
0.236 M.T @ Rs 84838 =					1716782

Continuation



