

OK ALOK CWS

MAJUSY. CO. B.

Schedule XLV-Form No. 134

MB NO: 2856

2nd Work's DIVISION

2nd Work CHAMBERS
SUB-DIVISION

AAVHHTP

MEASUREMENT BOOK

MB NO: 2856

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work - Construction of					
H.C. ^{see} Bridge at Birgaon					
road to Narayanpur					
Utara Tola via Madhya					
Tola to Sathaur post					
Tola Under Naha. 119					
Block.					
Package No. - MMGSY-WB-20/sahar					
10/3/2020-21					
Agreement No. - 03-MBD/MMGSY-WB/21-22					
Name of Agency - M/s Alok Construction					
A.T. Rahugamani, Saharsa					
D.O. Stamp - 22-11-2021					
<u>Record Entry -</u>					
(1) S/F placing HYSD Bar					
reinforcement for sub str.					
for Reaction Block -					
- do - do					
<u>Abutment (A1 & A2) - (R.B.) -</u>					
M4					
[16φ = 4x4 x 1.952 x 1.578 = 48.777					
15] 32φ = 4x4 x 1.535 x 1.535 = 154.923					
21] 12φ = 4x6 x 7.804 x 0.887 = 166.314					
27] 12φ = 4x6 x 5.048 x 0.887 = 107.461					
					= 477.594
					= 0.477-99

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$(A_1 \& A_2) - RB_2 -$					
M13  25φ =	5	5	2.3	17	3.851 = 271.148
M14  25φ =	6	5	2.75	17	3.851 = 315.974
M15  12φ =	6	5	8.3	18	0.887 = 221.075
M16  12φ =	6	6	4.6	22	0.887 = 149.824
					358.021
					0.958 MT
$RB_2 (Pier - P_1 P_2 P_3) -$					
M17  16φ =	12	4	1.95	22	1.578 = 146.337
M18  32φ =	12	4	1.55	35	6.310 = 464.920
M19  12φ =	12	6	7.8	4	0.887 = 498.394
M20  12φ =	12	6	5.0	48	0.887 = 522.385
					1432.036
					1.432 MT
$RB_2 (P_1 P_2 P_3) -$					
M21  32φ =	9	5	3.12	35	6.310 = 886.207
M22  12φ =	9	6	7.37	6	0.887 = 853.295
M23  12φ =	9	8	4.7	20	0.887 = 303.992
					1543.494
① pier and caving Recm - 35 gms					
for pedestal -					
Abutment (A1) =	3	0.87	0.87	0.15	0.349
pier (P1) =	2	3	0.87	0.87	0.15 = 0.689
					1.028
② SIF/ET position for					
line level POT - PTFE					
Bearing - EIR					
(A1 - P1)					
= 6.00 Max.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ stiff x phasing Hysp					
Bar reinforcement for					
girder and cross girder					
Wor - B12					
(A1 - P1) -					
Main longitudinal girder					
	28φ	12	18.44	4.83	= 1068.78
	28φ	12	18.44	4.83	= 1068.78
	28φ	6	19.608	4.83	= 588.24
	28φ	6	18.316	4.83	= 530.80
	28φ	6	16.430	4.83	= 476.14
	28φ	4	14.570	4.83	= 281.88
	16φ	12	17.800	1.58	= 322.43
	8φ	60	17.020	0.395	= 403.37
	10φ	305	2	3.75	0.62 = 1420.52
	8φ	58	1.055	0.395	= 24.17
	8φ	116	0.750	0.395	= 34.37
Cross girder -					
	20φ	6	8.096	2.47	= 119.98
	20φ	4	8.284	2.47	= 81.85
	25φ	(6+3)	8.350	3.85	= 289.33
	25φ	3	6.495	3.85	= 75.02
	25φ	2	6.495	3.85	= 50.01
	25φ	2	8.404	3.85	= 65.40
	10φ	66	2	2.786	0.62 = 228.01
	10φ	28	2	3.586	0.62 = 124.51
	8φ	24	5.950	0.395	= 56.41
	8φ	12	5.250	0.395	= 24.89

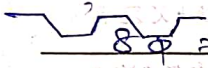
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
 116φ =	10	3.996	1.58		63.14m
8 φ =	12	8.75	0.395		41.48m
 12φ =	4	7.604	0.89		27.07m
					74.6510m
for wastage & over 12φ					373.25m
Longitudinal cross girder total					7838.35
					7.838MT

Plr & Raining 11-30 Rec
in Super can for
girder and cross girder

(A1-P1) —					
middle portion of girder —					
= 1x3x16.500x0.300x1.250 = 18.56m ³					
Bulb reed regular portion —					
= 1x3x16.500x0.550x0.210 = 5.72m ³					
Humer portion —					
= 1x6x16.500x(0.200+0.209)/2 = 1.98m ³					
Top Humer —					
= 1x6x16.500x(0.100+0.109)/2 = 0.50m ³					
End edge Rectangular —					
= 2x3x0.300x1.675x0.550 = 1.66m ³					
Cross girder —					
= 1x3x(2x2.50)x0.300x1.06 = 4.77m ³					
= 33.19m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ S.F. Paving 145 sq. ft.					
reinforcement 12 in Super					
S.F. Work for Deck					
Slab - 1 ft					
For (A1 - P1) Deck Slab -					
	12φ	72	7.25	0.89	464.71 sq. ft.
12φ	78 74	53.00	0.89		716.98 sq. ft.
16φ	156	2.325	1.58		572.07 sq. ft.
8φ	138	1.85	0.395		100.84 sq. ft.
	8φ	24	17.24	0.395	163.44 sq. ft.
8φ	24	17.262	0.395		163.64 163.35 sq. ft.
8φ	24	17.02	0.395		161.35 sq. ft.
8φ	(10+10)	17.02	0.395		134.44 sq. ft.
8φ	16	1.700	0.395		10.74 sq. ft.
8φ	8	17.02	0.395		53.78 sq. ft.
8φ	58	2	1.656	0.395	75.88 sq. ft.
					2618.89 sq. ft.
					2.618 sq. ft.
⑥ Paving and raising 11.50					
Reinforcement Superstructure					
Deck Slab (A1 - P1) -					
middle portion -					
1	18.04	5.55	0.215		211.53 sq. ft.

Continuation

Continuation

ABSTRACT OF COST (Zakir H. Bili)

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/2 Excavation in foundation for 4m. up to 3.00 depth					
Qty. volume P/46 = 858.73 m ³					
@ R 305.42/m ³					
					R = 265938.00
2/3 Excavation up to 6.00 depth					
Qty. volume P/46 = 184.16 m ³					
@ R 362.69/m ³					
					R = 66793.00
3/2 Plv and levelling of pcc					
M-15 grade					
Qty. volume P/46 = 42.28 m ³					
@ R 5992.13/m ³					
					R = 253347.00
4/3 Plv Rec M-30 grade in foundation					
Qty. volume P/46 = 465.42 m ³					
@ R 6942.61/m ³					
					R = 323123.00
5/4 Bored cast in situ M-35 grade for pile work					
Qty. volume P/46 = 716.00 m ³					
@ R 16617.75/m ³					
					R = 11898309.00
6/5 Self placing H-30.30 reinforcement for foundation					
Qty. volume P/47 = 108.42 m ³					
@ R 5101.32/m ³					
					R = 583598.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7/6) Plv & Constructing Temporary earth Island Hy. wide TMB P/47 = 3.00 m @ Rx 58620.43 / each Rx = 175861 =					
(8/7) Plv and Constructing one span service road Hy. wide TMB P/47 = 49.50 m @ Rx 3703.92 / m Rx = 183344 =					
(9/8) Plv and Laying m-30 Rce in sub. str. (4 ft to 5 ft) Hy. wide TMB P/47 = 197.00 m @ Rx 7209.41 / m Rx = 1420336 =					
(10/8) Rce M-30 grade mix Sub. str. (5 ft to 10 ft) Hy. wide TMB P/48 = 111.50 m @ Rx 7285.48 / m Rx = 812331 =					
(11/9) Plv Rce m-35 grade mix concrete in sub. str. & up to 5 ft Hy. wide TMB P/48 = 1.02 m P/54 = 1.02 m = 2.04 m @ Rx 7380.15 / m Rx = 150560 =					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12/10) SIF placing M-40 Bar reinforcement for sub. str.					
			P/48 = 34.730m		
			P/53 = 0.477m		
			P/54 = 0.958m		
			P/54 = 1.432m		
			P/54 = 1.543m		
			= 39.14m		
@ R _x 56251.07/MT					
					— R _x = 2202058.00
(13/11) Plr SIF fixing in position pot. PTFE Bearing					
			P/48 = 6.00 Nox		
			P/54 = 6.00 Nox		
			= 12.00 Nox		
@ R _x 44279.34/Nox					
					— R _x = 531352.00
(14/13) Plr Deep hold - RIF					
			P/49 = 132.00 Nox		
@ R _x 121.76/Nox					
					— R _x = 16072.00
(15/16) Plr and casting M-30 Rce for super str.					
			P/49 = 55.31 m ²		
			P/50 = 33.19 m ²		
			P/58 = 32.12 m ²		
			= 120.62 m ²		
@ R _x 8042.39/m ²					
					— R _x = 1051019.00

Continuation

6. ~~Sal~~
~~26/10/20~~
~~AE~~

Continuation