

M/S Sona Construction

Part B. (Bridge) M M GSY (SC)

Const. H.L. B. a Katarig main canal

Schedule XLV Form No. 134.

road near 4th km. to Kalamhousaf
Ch. 2900m. R.42.D.4004 DIVISION-Mimpur

R.42.D.4004

SUB-DIVISION-

Rasamapur

Measurement Book

99/816/22

AgNo- 05/5 B D / m m s s r / 2024-22.

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
M/40 (A) Katariga mukhya Canal road se 40th km ke pass to kalim ke ghar tak.					
(B) (contd) H.L.B. at Katariga main canal road near 40th km. to kalim House length of bridge atch 2900m.					
M/cont - M/s soma construction su part.					
Ag No. 05/SB2/MM657(SL)/2021-22.					
Agmt - 06/06/2022.					
Date of commencement - 06/06/22.					
Date of completion - 05/6/23					
Date - 08/6/2022					
(1) cleaning and grubbing of road land equal to 888.96 sq m = 0.09 Hec.					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
date					
① 300 S.F./K.P.C. 8, P ₂ of Girder of 14x50 mm with 1/2" dia.					
A) Main Girder - (P ₁ - P ₂)					
P ₁ 28mm	3x4	13.60	4.83		788.264
P ₂ 28 "	2x5	13.60	4.83		656.088
q - 28 "	3x2	15.868	4.83		436.674
R 28 "	3x2	13.618	4.83		394.65 "
S 28 "	1x2	11.98	4.83		115.73 "
T 28 "	2x2	12.0	4.83		231.84 "
U - 16 mm	3x4	12.406	1.578		234.92 "
V - 8 "	3x2	12.42	0.394		293.6 "
W - 10 "	2x4	3.556	0.616		112.774
X - 8 mm	4x5	1.035	0.394		18.35 "
Y 8 mm	2x4	0.75	0.394		26.60
					total of V = 4310.284
B) Cross-Girders -					
Same m/s as V m/s (48-49)					
					= 1239.414
Total Girder of Revnt					of V = (4310.28 + 1239.41)
					of V = 5549.694
② PROTECTED - in 1/2" with m/s (P ₁ - P ₂)					
Girders with m/s - 2x2					
Main Girder -					
1)	1x3	13.95	0.30	1.360	= 17.075
2) Cross Girder - 3x4.35 x 0.25 x 1.06 = 3.464					

Continuation - total of 20.535 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
rate -					
① Reinforced deck slab (P ₁ P ₂)					
Reinforcement -					
Deck Slab of Reinf. (P ₁ P ₂) -					
12mm -	55	7.252	0.888		354.19 m ²
12 "	58	5.30	0.888		272.97 "
12 "	55	5.305	0.888		258.05 "
16mm -	117	2.325	1.578		429.26 "
8 "	107	1.85	0.394		78.00 "
8 "	24	13.0	0.394		122.93 "
8 "	24	13.55	0.394		128.13 "
8 "	10	18.00	0.394		55.16 "
8 "	10	13.55	0.394		53.38 "
8 "	16	1.70	0.394		10.72 "
8 "	8	14.00	0.394		44.13 "
8 "	24	14.00	0.394		132.38 "
8 "	87	1.659	0.394		56.83 "
					1996.94 m ²
② Reinforced im slabs with m30					
(P ₁ P ₂) Deck Slab + Kerb at Wall					
Side/cantilever slab -					
	2 x 14.90	1.575	0.252		11.27 m ²
Main slab -	1 x 5.25	14.90	0.215		16.03 "
					Totally = 27.30 m ²
Kerb -	2 x 14.90	0.45	0.20		3.834 m ²
					Totally = 31.134 m ²

Continuation
55

abstract/cont

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/10- Contd. of HL 20m Sanjhad at Katariya main road 10th km to Kalim house atch. 2.90km.					
N/Cont. MS Seng Construction Snpant.					
Reg. No. 05/SB/2/ mm/2021-2					
Date of Commencement - 06/6/22					
Date of completion - 05/6/23					
202 -					
① Clearing and grubbing of 2.130 ha land v. m. 38 = 0.09 Ha. Ed. 56929 = 61/4u 5124 = 58					
② Pro. Exp. excavating structure on the 1.225 v. m. 33 = 689.85 m ³ Ed. 321 = 45/m ³ 221750 =					
③ 30cm to 6.0m depth - v. m. 33 = 70.58 m ³ Ed. 381 = 72/m ³ 26942 =					

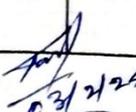
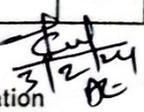
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③	For Recd. with m/s				
	of falling concrete				
	pile cap at red 133				
	total (34) = 35.00m ³				
	at 7319 = 91/m ³ / 25619 T=20				
④	For Recd. in bed				
	cast in situ pile with				
	m/s of 1.2 m/s				
	in all 227				
	total (34) = 520.0m				
	at 10942 = 03/m				
	10000 1392 = 0				
⑤	For Recd. in m/s				
	total in foundation				
	total (34) = 22.026m ³				
	at 69172 = 39/m ³				
	5673934 = 0				
⑥	For Recd. in pile cap				
	in 20m x 30 in all 142				
	total (35) = 269.660m ³				
	at = 369.681 m ³				
	at = 2257 = 09/m ³				
	3052481 = 5				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ For cond. temporary					
25 cond. with 122					
$\sqrt{m^2} (35) = 2.10$					
$e/h 59.761 = 58/m$					
					119.523 m
⑧ Cond. one span					
service road					
$\sqrt{m^2} (35) = 29m$					
$e/h 3992 = 29/m$					
					115776 m
⑨ For all 11 F 4450					
main em sub/s -					
$\sqrt{m^2} (25) = 7.009 m$					
" (44) = 14.24 m					
" (39) = 3771.964 = 3.772 m					
Total em = 25.102 m					
$e/h .693410 = 55/m$					
					1740.586 m
⑩ For all 10 em sub/s					
w. to m30 em sub/s					
Ac - d. - 23					
(4) up to 5.0 m ht					
$\sqrt{m^2} (39) = 55.994 m^3$					
" (39) = 22.94 m ³					
Total A, " (45) = 11.425 "					
" " (45) = 11.425 "					

Continuation
101.784 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{1}{2} f @ 4 = 101.784m^3$					
Top cap. P ₁ - round (46) = 28.83 "					
" P ₂ " (46) = 28.83 "					
Dist wall - " (45) = 9.363 "					
Total vol; 168.807m ³					
e.l. 8526 = 38/m ³					
					14,39,313 = 0
(ii) 5.0 m to 10.0 m ht -					
round (50)					
Qty - 6.48 m ³					
e.l. 8602 = 79/m ³					
					55,74,6 = 0
(11) Round RCC/CO - 5 m height					
with 5 m dia					
10 m ht -					
round (147) = 13.70 m ³					
e.l. 8695 = 82/m ³					
					1,19,133 = 0
(12) Round RCC - 9.00 cum.					
PTEF bearing with					
all 11.00 "					
round (147) = 18 NO.					
e.l. 46550.53/NO					23,79,10 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) Part of P/S of weephole					
✓ Part A, P 2 4/10					
of structure.					
✓ vol of (47) = 12040					
✓ 141 = 02/mo					16922250
(14) Part of P/S of N/S					
same inst.					
✓ vol of (54) = 16.02507					
✓ 70578 = 74/m ³					113102400
(15) Part of P/S of inst.					
with m 30 -					
✓ vol of (51) = 107.919 m ³					
✓ 1/2. 9373 = 79/m ³					101161000
					2582536300
Add 12% GST (4) 3099044000					
" 1% L Less (4) 258254000					
" Spec (4) 98000000					
					2928066100
Less - 15.11% below (4) 442430800					
					7485635300
Less. Premium (4) 1924703600					
					560931700


 02/2/24
 Continuation

 3/2/24
 BC