

02 SBD/2020-21

0.107. Belon

PART A-Katal to Bagdov (MM/5455)

Schedule XLY-Form No 134

PART B - Construction of HIL Rec Bridge (2x14.50)m spans at ex-D. Section (with approach road = 16.70m)

Bays?

DIVISION

Bays?

SUB-DIVISION

Maved Alam

Measurement Book

1071

4th on A/c Bill

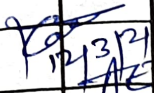
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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Part (B) Construction of HL Rec					
Bridge (2 x 14.50 m span) at					
ch - 0.660 KM with approved					
road - 167.88 m					
Name of work - (A) Const. of HL					
Kajal to Bagdave Road					
under M.M.S. on Baise					
Block Purnea					
Name of Contractor - Mr. Nabeel					
Name of P.E. - E.E.R.W.D.					
Works Division Baise					
Date of Agreement - 30.04.2020					
Date of Completion - 29.04.2021					
Agreement No - 02 SBD/2020-21					
Record Measurement					
(1/51) S/F/F HYSD bar reinforcement					
in super structure comp					
as per drawing and T-S					
slab span (A ₁ - P ₁)					
Bar mark (P ₁)					
28φ = 3 x 4 Nos x 16.16 m = 193.92 m					
(P ₂) 28φ = 10 Nos x 16.05 m = 160.50 m					
(2) 28φ = 2 x 3 Nos x 17.18 m = 103.08 m					
(✓) 28φ = 2 x 3 Nos x 17.24 m = 103.44 m					
(5) 28φ = 2 x 3 Nos x 12.38 m = 74.28 m					
spacer bar - 3 x 2 x 15 Nos x 0.20 x 18.00 m					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	@ 0.62 kg/m				108.33
(2) 6φ =	2 x 6 m	5.20 m			62.4 m
	@ 0.222 kg/m				13.85
				T = 3	99.42
				(c)	
Total qty in one span girders					
	= (A) + (B) + (C)				
	= 4900.95 + 636.75				399.42
	= 5537.12 kg				
	= 5.937 MT				
For span - (P ₁ - A ₂) = 2 x 5.937 MT					
	= 11.874 MT				

(a/s) providing and laying					
M-30 grade R.C.C in					
super structure compo					
as per draw and T.S					
For 2 spans (A ₁ - P ₁) span					
	$= 3 \times 15.07 \times 0.30 \times 1.26$				$= 17.089 \text{ m}^3$
	$2 \times 3 \times 0.70 \times 0.25 \times 1.26$				$= 1.323$
	$2 \times 2 \times 1.50 \times 0.25 \times 0.925 \text{ m}$				$= 1.388 \text{ m}^3$
	$2 \times 2.20 \times 0.25 \times 1.06 \text{ m}$				$= 1.162 \text{ m}^3$
	$T =$				20.96 m^3
For 2 spans $= 2 \times 20.96 \text{ m}^3 = 41.932 \text{ m}^3$					
					gross
					12.3.21
					TC

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record measurement					
(1/5) S/P/F HYSD bar surf in super structure work as per drawing and T-S					
Deck slab span (A ₁ - P ₁)					
Bar mark @ 12 @ 220 cl					
					= 72 Nos x 5.30 m = 381.60m
(6) 12 @ 220 cl					= 70 Nos x 7.272m = 509.042
(C) 12 @ 220 cl					= 70 Nos x 8.55 m = 598.50m
					T = 1489.14m
					@ 0.888 kg/m — 1322.36kg
(e) 8 @ 250 cl					= 2 x 61 x 1.85 m = 225.70m
(h) 8 @ 180 cl					= 2 x 13 Nos x 15.90m = 413.40m
(f) 8 @ 180 cl					= 2 x 12 Nos x 15.90 = 381.60m
(j) 8 @ 250 cl					= 2 x 5 Nos x 15.90 = 159.00m
					T = 1179.70m
					@ 0.395 kg/m — 465.98kg
(d) 16 @ 220 cl					= 2 x 70 Nos x 2.325 = 325.50m
					@ 1.58 kg/m — 514.29kg
(g) 8 @ 180 cl					= 2 x 13 Nos x 16.18m
					= 420.68m
(i) 8 @ 250 cl					= 2 x 5 x 16.18m = 161.80m
(K) 8 @ 125 cl					= 2 x 2 x 8 Nos x 11.70 = 54.40m
					T = 636.88m
					@ 0.395 kg/m — 251.57kg
(m) Kerb					
8 @ 200 cl					= 2 x 80 Nos x 1.70 m = 272.00m
					2 x 13 Nos x 1.70m = 44.20m
					T = 333.20m
					@ 0.395 kg/m — 131.61kg
Binder 8 @					= 2 x 6 x 16.00m = 192.00m
					2 x 6 x 3.50 = 42.00m
					T = 234.00m

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
(1/75) Lms of embankment with material obtained from borrow pits					
600.00m ³ , vide page No. - (44)					
@ R 188.05/m ³				R	1,12,830.
(2/76) P/V R.C.C. H.P. grade dist					
20.00m, vide page No. - (44)					
@ R 3729.69/m				R	74,593.20
(3/70) P/V and fixing 'Logs' of 1714 c/sy					
01 No, vide page No. - (44)					
@ R 9637.09 each				R	9637.09
(5/42) (4/31) P/V and fixing 'Logs' of Informative Sign Board					
1 No, vide Bdy TMB P - 45					
@ R 9637.09 each				R	9637.09
(5/42) Carrying out load test					
(a) Initial load test					
01 No, vide Bdy TMB P - 45					
@ R 1,50,000/each				R	1,50,000
(b) Routine pile load test					
01 No, vide Bdy TMB P - 45					
@ R 1,25,000/each				R	1,25,000
(c) Horizontal load test					
1 No, vide Bdy TMB, P - 45					
@ R 1,00,000/each				R	1,00,000

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6/35) E/W in excavation for structures comp as per draw and T-S					
533.62m ³ vide qty TMB P-46					
@ R 294.73 /m ³ — R					1,57,273.
(7/36) P/V P.C.C. M-15 levelling course					
27.71m ³ , vide qty TMB P-46					
@ R 6080.43 /m ³ — R					1,68,488.16
(8/37) P/V M-30 grade R.C.C. in pile cap					
305.69m ³ , vide qty TMB P-46					
@ R 6738.11 /m ³ — R					2,05,977.25
(9/38) Bored cast in situ pile M-35 grade Conc.					
452.07m ³ , vide qty TMB P-46					
@ R 16,369.35 /m ³ — R					7,39,894.62
(10/39) S/R/R HYSD bar reinf in foundation					
75.698MT vide qty TMB P-45					
@ R 53730.41 /MT — R					4,06,7284.5
(11/40) P/V. steel liner comp as per draw and T-S					
2.13MT, vide qty TMB P-45					
@ R 64,431.49 /MT — R					13,72,39.
(12/43) P/V R.C.C. M-30 grade conc. in sub-structure					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					wraps as per draw
					and T-S
(i) up to 5.0 m height					
82.663 m ²	vide	Qty TMB, P-47			
39.049 m ²	vide	Qty TMB, P-58			
T = 111.712		Unit Qty = 111.705 m ³			
	@ R	69 87.12/m ³		R 7,	80,496.23
(ii) From 5.0 m to 10.0 m height					
29.398 m ²	vide	Qty TMB, P-47			
5.281 m ²	vide	Qty TMB, P-58			
T = 34.689 m ²					
	@ R	7058.23/m ³		R 2,	44,843 =
(13/44) PIV M-35 grade concrete					
in sub structure					
1.36 m ³	vide	Qty TMB, P-47			
8.80 m ³	vide	Qty TMB, P-58			
T = 10.16 m ³					
	@ R	7147.05/m ³		R	72,614 =
(14/45) S/P/R 14x50 bar reinforcement					
in sub structure					
19.62 MT	vide	Qty TMB, P-46			
2.89 MT	vide	Qty TMB, P-57			
T = 21.91 m ³					
	@ R	53,884.70/m ³		R	11,80,613.70
(15/46) providing fitting and fixing PPT-PTFE Beads					
12 Nos	vide	Qty TMB, P-47			
	@ R	44,950.81 each		R 5,	39,411 =
(16/47) supplying, fitting and fixing in position elastomeric bearing					
137387.50 m ³	vide	Qty TMB, P-59			
	@ R	0.79/m ³		R 1,	08536.12

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17/48) Back filling behind Abutment wall					
148.63 m ² wide qty TMB P-58					
@ R 750.86 / m ² - Rs					1,11,600.32
(18/49) P/V filter media behind Abutment wall					
65.19 m ² wide qty TMB P-58					
@ R 3242.92 / m ² - Rs					2,11,406.28
(19/50) P/V M-30 R.C.C. in super structure					
41.932 m ² wide qty TMB P-53					
84.00 m ² wide qty TMB P-55					
T = 125.932 m ² Limit Qty = 125.84 m ²					
@ R 7767.53 / m ² - Rs					9,69,698.27
(20/51) S/RIF HYSD bar reinf- in super structure					
11.874 MT wide qty TMB P-53					
5.854 MT wide qty TMB P-55					
T = 728 MT Limit Qty = 17.498 MT					
@ R 55,085.85 / MT - Rs					9,63,892.22
(21/52) P/V M-30 wearing course					
18.52 m ² wide qty TMB P-59					
@ R 13054.57 / m ² - Rs					2,41,770.64
(22/53) Const. of R.C.C. railing of M-25 grade					
65.84 Rm wide qty TMB P-59					
@ R 3016.65 / Rm - Rs					1,98,616.20

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(23/54) P/V Drawn spot 12mm, wide by TMB P-55 @ R 567.43 each Rs 6809.16					
(24/57) spirit seal suspension wood					
25.35mm wide by TMB P-55 @ R 1129 4.50 / Rm Rs 2,86,315.57					
(25/58) P/V 20mm thick wood - pressure fibre board 25.35mm wide by TMB P-56 @ R 275.82 / Rm Rs 6992.00					
(26/59) P/V and fixing 20mm thick pre- - moulded joint filler 25.35mm wide by TMB P-56 @ R 387.59 / Rm Rs 9825.40 Rs 2,05,04,143.20 o. 10%. Below Rs 20,504.20 Rs 2,04,83,639.20 Add 1% L. cess Rs 204836.20 Add 12% GST Rs 24,58,036.20 Rs 2,31,46,511.20 Less previous payal @ Rs 1,84,06,274 Rs. 47,40,217.20 30%ish					

Continuation

27.3.21
SDC.P.
27.04.21
E.E