

Construction of HL Bridge over Keshi Dhar in TOS TO
Tikapatli Road (Near Norahia Nahar) Under NABARD
Size 2x13.75 M Schedule XLV-Form No.-134 (HBSTRACT)

Executive Engineer

R.W.D (HB) Division, Kishor

DIVISION

R.W.D WORKS

SUB-DIVISION

Samaili

ND-1761

MEASUREMENT BOOK

Phon
30/1/20

4th/Final Bill

14

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Const & Maintenance					
of H.L Bridge over Koshi					
char in TOS to Hikkaralli					
road (Near Nandhiya Nagar)					
Name of Agency:- Suresh Kumar					
Singh.					
B. Kothi purwa					
Agreement No:- 01/SBD/2018-19					
D/work order:- 15/08/2018					
Actual Date of Completion:- 12.08.19					
Date of entry:- 11.12.2020					
Abstract of cost					

1/10	E/W in excavation			
	for structure comp			
	as per draw & T/S.			
(i)	up to 3.0m depth			
	Qty vide MBP-3			
	2-c Qty = 669.23 m ³			
	@ 274.57 / m ³ = 182394.0			
(ii)	3.0m to 6.0m depth			
	Qty vide MBP-9			
	2-c Qty = 88.0 m ³			
	@ 326.66 / m ³ = 28693.0			
2/2	P/L & laying PCC			
	MIS. as levelling course			
	Qty vide MBP-16			
	item No 8/2			

ch = 211082.0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	211087.0
				2.e Qty =	27.69 m ³
				@	6067.65/m ³ = 168013.0
3/3.				Plv RCC M20 grade	
				conc. in pile cap temp	
				as per draw & T/S.	
				Qty vide TMB P-21	
				item No 19/3	
				2.e Qty =	305.68 m ³
				@	7935.83/m ³ = 2425825.0
4/4				Bored Cast in situ pile	
				Cap as per draw &	
				T/S.	
				Qty vide TMB P-10	
				item No 4/4	
				2.e Qty =	408 m
				@	17383.86/m = 7092615.0
5/5.				S/F/P HYSD bar	
				reinforcement in found	
				comp as per draw & T/S.	
				Qty vide TMB P-10	
				item No- 5/5	
				2.e Qty =	59.40 MT
				@	62773.25/MT = 3729087.0
6/6.				Plv steel liner	
				6mm thick as per	
				draw & T/S	

12626427

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	13626627
	Qty vide	MBP-10			
	item No	7/6			
	z.e Qty =	17.745 MT			
	@	92906.73/MT			1648630
7/7.	providing and const.				
	temporary island				
	Qty vide	TMBP-10			
	item No	4/7.			
	z.e Qty =	1 No			
	@	40717.14 each			40717

8/8	providing and const				
	one span service				
	road				
	Qty vide	MB 1760			
	Page 87 item No	3/8			
	z.e Qty =	37.5 m			
	@	2871.03/m			107663
9/9.	Carrying out load				
	test on any pile as				
	per standard				
	procedure				
(1)	Initial load test on				
	test pile 2.5 times of				
	design load				

c/o = 15423637

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F	154223637
Qty vide MB 1760					
P-88 item No 4/3(i)					
i.e Qty = 1 No					
@ 150000 each =					150000
(ii) Routine load test.					
1.5 times of the design load					
Qty vide MB 1760					
P-88 item No 4/3(ii)					
i.e Qty = 1 No					
@ 125000 each					125000
(iii) Horizontal load test					
1.5 times of the design load					
Qty vide MB 1760					
P-88 item No 4/3(iii)					
i.e Qty = 1 No					
@ 100000 each					100000
10/10. Providing RCC M30					
grade in substructure					
comp as per drawing					
(i) up to 5.0m height					
124.012 m ³ vide Qty TMB P-11					
30.15 m ³ vide Qty MB 1760 P-78					
T= 154.162 m ³					

c/d = 15798637

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	15798637
				Limit Qty =	198.5 / m ³
				@ 8296.21 / m ³ =	1232070
(ii)		5.0 m to 10.0 m height			
		Qty vide MB 1760 P-79			
		Item No 10(ii)			
		2.e Qty =	3.28 m ³		
		@ 8402.71 / m ³ =			27560
11/11.		Plv RCC M35 grade			
		concrete in substructure			
		comp as per draw of T/S			
		from 5.0 m to 10.0 m			
		height			

		Qty vide MB 1760			
		P-79 Item No - 7/11			
		2.e Qty =	7.78 m ³		
TMBP 11		2.e Qty =	1.36 "		
		T =	9.14 m ³		
		@ 8539.10 / m ³ =			78047
12/12.		S/P/F M/SB bar conf-			
		in substructure comp			
		as per draw of T/S			
19.845 MT		vide Qty TMBP-10			
1.453 MT		vide Qty MB 1760 P-79			
T =		21.298 MT			
		Limit Qty =	21.04 MT		
@		62922.47 / MT =			1323888

C/O = 18460202

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F = 18460202
13/13	Supplying, fitting & fixing POT-PTFE bearing.				
	Qty vide TMB P-11				
	item No 12/13				
	i.e Qty = 12 Nos				
	@ 49273.10 each =				591277
14/14.	Supplying, fitting & fixing Elastomeric Bearing.				
	Qty vide MB 1760				
	P-78 item No 2/14				

	i.e Qty = 13147.5 CC				
	@ 0.88/CC =				115698
15/15	Providing weep holes in Abut & R/Wall				
	Qty vide MB-1760				
	P-78 item No 3/15				
	i.e Qty = 124 Nos				
	@ 139.83 each =				17339
16/16.	Back filling Behind Abutment & R/Wall				
	Qty vide MB-1760				
	P-78 item No 5/16				
	i.e Qty = 168.89 m ³				
	@ 736.81/m ³ =				124439

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	19308955
17/17.	Providing and laying				
	filter media below				
	Abutment & R/W all				
	Qty vide MB-1760				
	P-78 item No 4/17				
	i.e. Qty = 85.19 m ³				
	2957.30 / m ³ =				251932
18/18.	Providing and laying				
	RCC-M30 grade conc				
	in super structure				
	Comp as per draw &				
	T/S				

82.93 m ³ vide Qty MB1760-P-74				
100.60 m ³ vide Qty MB1760-P-76				
T = 183.53 m ³				
Limit Qty = 177.14 m ³				
6414.73 / m ³ =				1667725
19/19.	S/F/F HYSD bars reinf-			
	in super structure			
	Comp as per draw of			
	T/S			
19.446 MT vide Qty - MB-1760-P-74				
6.128 MT vide Qty MB1760-P-76				
T = 25.574 MT				
Limit Qty = 25.37 MT				
64005.96 / MT =				1623831
				Clq = 22852443

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BF =	22852443
20/20	Providing and laying				
	M30 grade concrete				
	wearing course				
	Qty vide MB 1760				
	P-80 item No 6/20				
	i.e Qty = 27.26 m ³				
	@ 14685.05/m ³ =				400314
21/21	Providing RCC railing				
	Qty vide MB 1760 P-80				
	i.e Qty = 96.0 m				
	@ 3528.92/m =				338776
22/22	Providing Drainage				
	spouts				
	Qty vide MB 1760				
	P-76 item No 3/22				
	i.e Qty = 14 Nos				
	@ 617.66 each =				8647
23/23	P/V PCC M15 levelling				
	course below app. slab				
	Qty vide MB 1760				
	P-80 item No 8/23				
	i.e Qty = 7.88 m ³				
	@ 5555.28/m ³ =				43776
	c/b =				23643956

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B-F =	23643956
24/24	RCC M30 grade in				
	app slab				
	Qty vide MB 1760				
	P-80 item No 9/24				
	2-c Qty = 18.22 m ³				
	11785.67/m ³				214735
25/25	Providing and fixing				
	steel seal expansion				
	Joint comp as per draw				
	and T/S				
	Qty vide MB 1760				
	P-80 item No 3/25				
	2-c Qty = 25.20 m				
	12028.79/m				303125
26/26	Providing and fixing				
	20 mm thick compressive				
	fibre board.				
	Qty vide MB 1760				
	P-80 item No 4/26				
	2-c Qty = 25.20 m				
	292.96/m				7382
27/27	Providing and fixing				
	pre moulded joint filler				
	Qty vide MB 1760				
	P-80 item No 5/27				
	2-c Qty = 25.20 m				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F =	24179571
28/28. Providing and laying					
boulders pitching					
in slopes					
Qty vide MB 1750					
P-88 item No 5/28					
i.e Qty = 136.64 m ³					
@ 2862.82/m ³ =					391176
29/29. Providing filter media					
under north slope					
pitching					
Qty vide MB 1760					
P-88 item No 4/29					
i.e Qty = 58.09 m ³					
@ 3312.13/m ³ =					192402
30/30. clearing & grubbing					
Revol land.					
Qty vide MB 1760					
P-87 item No 1/30					
i.e Qty = 0.19 Ha					
@ 47809.31/Ha =					9083
31/31. Const. of embankment					
with material obtain					
from borrow pits					
Qty vide MB 1760					
P-87 item No 19/31					
i.e Qty = 3764.7 m ³					
@ 146.46/m ³ =					551378

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F = 25323610
32/32	Const. of subgrade and earthen shoulder				
	Qty vide MB 1760				
	P-86 item No 3/32				
	i.e Qty = 114.55 m ³				
	@ 148.11/m ³ = 16966				
33/33	Const. of GSB Lr-II by well graded material				
	Qty vide MB 1760				
	P-82 item No 2/33				
	i.e Qty = 110.03 m ³				
	@ 2092.83/m ³ = 230494				
34/34	P.V. laying, spreading and compacting stone aggregates of specific sizes of WBM Lr-2				
	Qty vide MB 1760				
	P-83 item No 3/34				
	i.e Qty = 44.26 m ³				
	@ 3657.67/m ³ = 161887				
35/35	P.V. laying, spreading and compacting stone aggregates of specific sizes of WBM Lr-3				
	Qty vide MB 1760				
	P-84 item No 4/35				
	i.e Qty = 44.26 m ³				
	@ 3398.93/m ³ = 150432				98

				B.F. = 25883394
36/36.	ply and applying			
	Primer coat with			
	Bitumen emulsion SS-1			
	Qty vide MB 1760			
	P-84 item No 5/36			
	2.e Qty = 604.05 m ²			
	@ 47.97 / m ²	=	28976	
37/37.	ply and applying			
	task coat with			
	bitumen emulsion RS-1			
	Qty vide MB 1760			
	P-85 item No 6/37			

	2.e Qty = 604.05 m ²			
	@ 16.07 / m ²	=	9707	
38/38.	ply, laying and rolling			
	on open graded			
	premix Carpet of 20 mm			
	thickness			
	Qty vide MB 1760			
	P-85 item No 7/38			
	2.e Qty = 604.05 m ²			
	@ 160.70 / m ²	=	97071	
39/39.	ply & laying seal coat			
	Qty vide MB 1760			
	P-85 item No 8/39			
	2.e Qty = 604.05 m ²			
	@ 48.92 / m ²	=	29550	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
40/40					B.F = 26048698
					Providing and fixing
					Logo of project
					Informative sign board
					Qty vide MB 1760
					P-9 item No 2/40
					i.e Qty = 2 Nos
					8652.38 each = 17305
41/41					Const. of embankment
					with approved material
					obtained from borrow
					pits (Diversion)
					Qty vide MB 1760

					P-87 item No 1/41
					i.e Qty = 600 cm ³
					146.46/m ³ = 87876

42/42					providing GSB for IT
					well graded material
					(Diversion)
					Qty vide MB 1760
					P-87 item No 2/42
					i.e Qty = 28.125 m ³
					2094.83/m ³ = 58917

					26212796
					Less 10% below rate (-) 26212796
					23591516
					Less previous payments (-) 16392326
					7199190

11.12.2020
J.E.

Continuation
11/12/2020
A.E.