

R.C.C. HL. BRIDGE.

Schedule XLV-Form No. 134

M/S BAISNATH NIRMAL INDIA PVT. LTD

DIVISION

SUB-DIVISION

४१३३२

MEASUREMENT BOOK

M.B.No- 1264

1st on A/c Bill

1

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.		
Name of work - Construction of H.L. R.C.C. Bridge Across Dhanraj river at Toi to Babhanaur Pmoisy Road under Narhat Block. The dist of Nawada.						
Agency - Bajnath Nirman India Pvt LTD						
Ag. No - 01/SED/NABARD/2020-21						
Work order - 29.07.21 to						

Completion dt - 28.07.2022

Head - NABARD

Rate - 21.11 % below as per Ag.

1. Dismantling of Existing structure like culvert, bridge retaining wall etc - also - - all - - comp. - - Jod. as per B/I.

9m x 6m x 0.160m 8.64m³

9m x 6m x 0.160m 8.64m³

4 x 0.25m x 2m x 6m 12.00m³

1 x 2.42m x 1m x 1m 2.42m³

31.7 m³

52
 10/12/2021
 Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. P/V Construction of surface road Island					
5 x 13.50 m					67.50 m ²
2. E/W in excavation of foundation of structure					
A ₁ — 9.35 m x 5.7 m x 2.1 m					111.92 m ³
P ₁ — 5.7 m x 5.7 m x 2.1 m					68.22 m ³
P ₂ — 5.7 m x 5.7 m x 2.1 m					68.22 m ³
P ₃ — 5.7 m x 5.7 m x 2.1 m					68.22 m ³
P ₄ — 5.7 m x 5.7 m x 2.1 m					68.22 m ³
A ₂ — 9.35 m x 5.7 m x 2.10 m					112.8 m ³
					496.9 m ³

For 27.01.22
JTB
Sur
2011
01

1. Supplying, Lifting and Placing un-coated HYSD bar reinforcement in foundation — do — do — all — comp — JDS as P & E/

A₁. 20 mm dia 22 Nos of each Pile.

300
28725 mm
300

Total Length of Reinf = 29.325 m

22 Nos x 29.325 m = 645.15 m

22 Nos x 29.325 m = 645.15 m

22 Nos x 29.325 m = 645.15 m

22 Nos x 29.325 m = 645.15 m

22 Nos x 29.325 m = 645.15 m

22 Nos x 29.325 m = 645.15 m

Continuation

3870.90 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16 MM dia master Pile					0.2.48
29 NOS x 3.493 m					101.297m
29 NOS x 3.493 m					101.297m
29 NOS x 3.493 m					101.297m
29 NOS x 3.493 m					101.297m
29 NOS x 3.493 m					101.297m
29 NOS x 3.493 m					101.297m
					607.782m
28/01/22 SR 11.02.2022 SR					

1. PV Bored Cast-Situ	
RCC-M35 vertical Pile 1200 mm dia	
- do - all - comp - job	
as per E/I	
A ₁ and A ₂ on the dt	
A ₁ 27.8RM, A ₂ 27.8RM 29.1.22	
A ₁ 27.8RM, A ₂ 27.8RM 31.1.22	
A ₁ 27.8RM, A ₂ 27.8RM 02.02.22	
A ₁ 27.8RM, A ₂ 27.8RM 04.02.22	
A ₁ 27.8RM, A ₂ 27.8RM 07.02.22	
A ₁ 27.8RM, A ₂ 27.8RM 10.02.22	
A ₁ = 166.8RM, A ₂ = 166.8RM	
Total Pile in A ₁ + A ₂ = 333.6RM	

SR
 11.02.2022
 SR Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Supplying Pilling rod					
Placing HYSD bar in					
all comp.					
as per E/S in					
Piers Pile. P1 Pier 2.					
20 mm dia: — Length					9525 + 300 + 1200
200 MM					30125 mm
(P1) group					30125 mm
P1 = 23 Nos x 20.125 m					692.875 m
P2 = 22 Nos x 20.125 m					692.875 m
P3 = 22 Nos x 20.125 m					692.875 m
P4 = 22 Nos x 20.125 m					692.875 m
					2771.5 mm
					2771.50 mm

Ring 10 mm dia P1					
P1 191 Nos x 3.499 m					668.309 m
P2 191 Nos x 3.499 m					668.309 m
P3 191 Nos x 3.499 m					668.309 m
P4 191 Nos x 3.499 m					668.309 m
					2673.236 m

Master Ring 16 mm dia group P1					
P1 29 Nos x 3.493 m					101.297 m
P2 29 Nos x 3.493 m					101.297 m
P3 29 Nos x 3.493 m					101.297 m
P4 29 Nos x 3.493 m					101.297 m
					405.188 m

12/02/2022
VZ

Continuation

17/02/22

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. P/V Bored Cast-in-situ RCCM35					
Pile grade 1200 MM dia					
— do — do — all —					
— comp. — as per E/D					
in group P ₁					
P ₁ = 28.6 M (13.02.2022)					
P ₂ = 28.6 M (14.02.2022)					
P ₃ = 28.6 M (15.02.2022)					
P ₄ = 28.6 M (16.02.2022)					
P _{1 total} = 28.6 x 4 = 114.40 RM					

Sm 16/02/22
JE

1. Supplying fitting and Placing HYSD bar reinf in Pier/Pile.					
20 mm dia —					
P ₂ = 4 x 23 NB x 30.125 M = 2771.5 M					
P ₃ = 4 x 23 NB x 30.125 M = 2771.5 M					
P ₄ = 4 x 23 NB x 30.125 M = 2771.5 M					
					2771.5 x 3 = 8314.5 M
Reinf 10 mm ϕ					
P ₂ 4 x 19/1 NB x 3.499 M = 2673.236 M					
P ₃ 4 x 19/1 NB x 3.499 M = 2673.236 M					
P ₄ 4 x 19/1 NB x 3.499 M = 2673.236 M					
					2673.236 x 3 = 8019.708 M
Master Reinf 16 mm ϕ					
P ₂ 29 NB x 3.493 M = 101.297 M					
P ₃ 29 NB x 3.493 M = 101.297 M					
P ₄ 29 NB x 3.493 M = 101.297 M					
Continuation					101.297 x 3 = 303.891 M

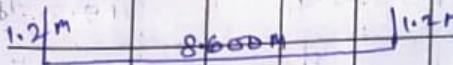
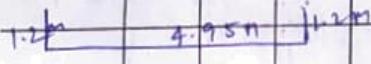
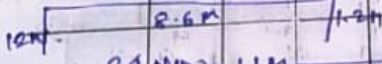
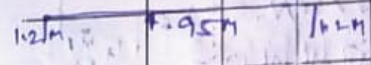
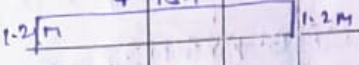
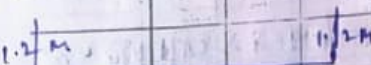
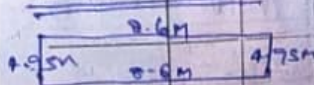
Sm 17/02/2022
JE

APM
AC

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. P/V Bored Cast-situ Pile in Pier m-25 grade — do — do — all — Camp Job as per E.P.S in group P ₄ and P ₇ group:—					
P ₁ = 28.6m	17.02.2022				
P ₂ = 28.6M	18.02.2022				
P ₃ = 28.6M	19.02.2022				
P ₄ = 28.6M	21.02.2022				
P ₄ = 114.4 M hr					
Sr ✓ or	21.02				
J.B.					
Signature					

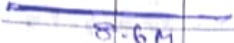
1. P/V Bored Cast Situ Pile nos	
Grade Pile - - - - -	
- - - - - all - - - - - Comp Job	
as per S/I Pier Pile in	
P ₂ and P ₃ groups	
P ₂	P ₃
P ₁ = 28.6 m	P ₁ = 28.6 m 22.02.22
P ₂ = 28.6 m	P ₂ = 28.6 m 24.02.22
P ₃ = 28.6 m	P ₃ = 28.6 m 26.02.22
P ₄ = 28.6 m	P ₄ = 28.6 m 22.03.22
P ₂ = 114.4 m	P ₃ = 114.4 m
Total P ₂ + P ₃ = 114.4 m	

2. Sand filling in foundation and
 2X8.9M X 5.5M O.I.A
 4X5.3M X 5.5M I.A.I
 PCC M-15
 2X8.9M X 5.2XO.1A
 4X5.2M X 5.3M O.I.A
 Contingency 02
 20.8.80 AM
 PCC M-15
 9.487M
 11.136M
 20.723M
 02/03/2022

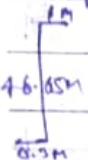
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Supply lifting and placing HY SD bar in Pile cap of Abutment A ₁ and A ₂					
do do do					
Comp Job as RRB/S					
16 mm ϕ Reinforcement					
		8.6m		11.2m	
Total length = $8.6 + 1.2 + 1.2 = 11$ m					
2 x 34 Nos x 11 m					748 m
		4.95m		11.2m	
2 x 58 Nos x 7.35 m					852.6 m
					852.60 m
		8.6m		11.2m	
2 x 24 Nos x 11 m					748 m
		4.95m		11.2m	
2 x 58 Nos x 7.35 m					852.60 m
		4.95m		11.2m	
2 x 27 Nos x 7.35 m					396.9 m
25 mm dia					
		4.95m		11.2m	
2 x 27 Nos x 7.35 m					396.9 m
10 mm dia					
		8.6m		4.75m	
2 x 10 Nos x 27.1 m					542.0 m

9/17

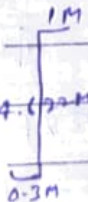
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 MM dia					
		8.6M			
2x 34 NOS X 8.6M					581.8M
		4.95M			
2x 55 NOS X 4.95M					574.2M

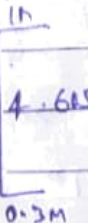
Reinforcement in Abutment
Shaft - 20 MM dia

	2x 55 NOS X 5.905M	699.55M
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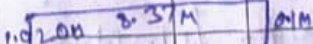
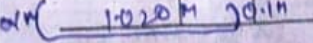
16 MM dia

	2x 55 NOS X 5.922M	651.42M
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20 MM dia

	2x 16 NOS X 5.905M	188.95M
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10 MM dia

	2x 2 NOS X 10.41M	455.04M
	2x 30 NOS X 1.22M	751.52M

Continuation

52
06/03.22
SE

6/12/22
pt

11/17

Scanned with CamScanner

2. P/V	around	Laying	RCC	M-25	
10	foundation	in	Pile	cap.	
-	-	do	-	do	- all
-	-	Comp	-	Just	as per
E/I	A ₁	and	A ₂		
2x	8.75m	x	5.1m	x	1.8m
					160.65m ³
Pier	P ₁	P ₂			
3x	5.1m	x	5.1m	x	1.8m
					140.46m ³
					78.03m ³
					301.11m ³

20/04/002

Continuation

2019/22
af

1st on A/c Bill

ABSTRACT OF Quantity

Sch. XIV-Form No. 134 12 Reinforcement in foundation & substructure

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
20 MM dia :-					
P ₂ - 3870.9 M					
P ₃ - 3870.9 M					
P ₅ - 2771.5 M					
P ₆ - 8314.5 M					
P ₇ - 469.55 M					
P ₉ - 188.96 M					
P ₁₀ - 646.80 M					
P ₁₁ - 1148.86 M					
Total 20 MM - 21461.97 M					
dia length					
21461.97 M @ 2.469 kg/m					52989.64

= 52.0 MT

25 MM dia

P ₈ - 396.9 M					
P ₁₀ - 646.8 M					
1043.7 M					
1043.7 M @ 3.858 kg/m					4026.59
					= 4.03 MT

16 MM dia

P ₃ - 607.78 M					
P ₄ - 607.78 M					
P ₅ - 405.188 M					
P ₆ - 303.271 M					
P ₈ - 748.00 M					
P ₈ - 852.60 M					
P ₈ - 748.00 M					
P ₈ - 852.60 M					
P ₈ - 376.9 M					

continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
P ₉ — 651.42 M					
P ₁₀ — 999.60 M					
P ₁₀ — 999.60 M					
P ₁₀ — 999.60 M					
Total — 9152.95 M					
9152.95 M @ 1.58 kg/m					14461.67 M
					<u>= 14.5 MT</u>
<u>10 mm dia</u>					
P ₃ — 3883.86 M					
P ₃ — 3883.86 M					
P ₅ — 2673.236 M					
P ₆ — 8019.71 M					
P ₈ — 542.0 M					
P ₉ — 438.04 M					
P ₉ — 751.52 M					
P ₁₀ — 712.00 M					
P ₁₀ — 1346.4 M					
22350.626 M					
22350.626 M @ 0.612 kg/m					13790.336 M
					<u>13.8 MT</u>
<u>8 mm dia</u>					
P ₉ — 584.8 M					
P ₉ — 574.2 M					
P ₁₀ — 1346.4 M					
2516 M					
2516 M @ 0.395 kg/m					993.14 = 0.99 MT

Sm
20/11/22
OK

Continuation

20/11/22
AT

Continuation

1st on A/c Bill

ABSTRACT OF COST

75

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. E/W in excavation of foundation work.					
Qty Page No-2					
496.9 m ³ @ 76.00/m ³					37753.00
2. P/W service road					
Qty Page No-1					
67.5 m @ 3704.00/m					250020.00
3. Dismantling of structure					
Qty Page No-1					
31.679 m ³ @ 1208.00/m ³					38268.00
4. Bored Cast in situ pile					
Qty Page No-4+6+7+7					
232.6 + 114.4 + 200.00 + 114.4					
791.2 m @ 14297.25/m					13,11,984.00
5. Sand filling in foundation					
Qty Page No-7					
20.723 m ³ @ 471.00/m ³					9762.00
6. PCC M-15 in below foundation					
Qty Page No-7					
20.723 m ³ @ 4473.81/m ³					92711.00
7. Supply of bitum and placing w/sd bar in foundation					
Qty Page No-14					
80.23 m ³ @ 564229/MT					4527211.00
					1,02,67,709.00

Continuation

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C-0
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					88Rs = 1,62,67,709=
8. Supplying Attiopard Placing HYSD bar in sub-structure Qty Page No-14					
6.09 mt @ 56587.91/mt					34462021
9. Plr Laying Cond of Pile Cap m-35 Qty Page No-11					
0.111 m @ 5777.81/mt					17,39,77,1200
0. Pile length 4.31 m					17,93,600=00
					Rs 2,08,52,100=00
add 12% GST					2,32,18,232=00
1. J. L. 0055					1,35,50,000
					Rs 2,69,74,232=00
less 21.11% (-)					62,77,766=00
					Rs 01,05,00,708=00
					Rs 01,85,88,757=00
					50/20/04/2021
					CSB
					26/4/22
					26/4/22