

Nilu - Const. of Rec Bridge over Bakkar River in
Between Ramnagar village & meghpur village

W/2018/2

Schedule XLV-Form No. 134

अभिप्राय विभागाय प्रेषित, गुवाहाटी

DIVISION

अभिप्राय विभागाय प्रेषित, गुवाहाटी

SUB-DIVISION

Measurement Book

-2287
6.5.20

Nil Agency - Ramvir Nirman Pvt. Ltd.
Agreement No. 68(5188) / 2019-20

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Name - Construction of RCC bridge over D.D. river in between Ramnagar village to nearby village in Saurashtra District, Sitamanti, District under (National Agency - M/S Ramkrishna Narmada Ltd Agreement No - 68/SB/2019-20 Date of Start - 23-1-2020 Date of Completion - 22-1-2021 Date of measurement - 12-01-2020					

(a) Providing R.C.C m-30 abutment

Shaft cap and Pier shaft cap -

$$(1) \text{ Dist wall } A_1 = 8.45 \times 0.35 \times 1.88 = 5.56 \text{ m}^2$$

$$A_2 = 8.45 \times 0.35 \times 1.88 = 5.56 \text{ m}^2$$

$$\text{Return wall} = 2 \times 2 \times 2.075 \times 1.75 \times 1.994$$

$$= 7.861 \text{ m}^3$$

Brackets - Top rect portion

$$= 2 \times 7.5 \times 0.3 \times 3$$

$$= 1.35 \text{ m}^3$$

Bottom triangular portion

$$= 2 \times 7.5 \times 0.5 \times 3 \times 3$$

$$= 0.675 \text{ m}^3$$

$$\text{Total} = 21.006 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement			Contents of area
	L.	B.	D.	
(ii) Providing and supplying and fixing elastomer bearing & seismic pad				
At barrete seismic pad				
= $2 \times 2 \times 25 \times 20 \times 5 = 10000 \text{ cm}^3$				
Pier barrete seismic pad				
= $2 \times 2 \times 25 \times 30 \times 5 = 15000 \text{ cm}^3$				
Total =				
$15000 + 15000$				
$= 30000 \text{ cm}^3$				
(iii) Providing PCC in 33 grade for structure				
T beam ribs - $3 \times [14.5 + 2 \times 25] \times 30$				
$\times 1.575$				
= 210362 cm^3				

Filler - $\frac{1}{2} \times 1 \times 1 \times 1 \times 4 [14.5 + 2 \times 25]$				
= 301 cm^3				
Canal covers = $\frac{1}{2} \times 0.350 \times 1.575 [14.5 + 2 \times 25]$				
+ $\frac{1}{2} \times 0.275 \times 1.575 [14.5 + 2 \times 25]$				
= $4.1537 + 3.2636$				
= 7.417 cm^3				
Slab - $2 \times 2 \times 2 [14.5 + 2 \times 25] \times 0.215$				
= 14.256 cm^3				
Cross girders -				
= $6 \times 2 \times 2 \times 1.3 \times 1.036$				
= 5.386 cm^3				
Side upper = $2 \times 0.275 \times 0.4 \times [14.5 + 2 \times 25]$				
= 3.93 cm^3				
Total = $210362 + 301 + 7.417 + 14.256$				

Continuation

+ $5.386 + 3.93$ = 52.15 cm^3

Particulars	Details of actual measurement			Unit rate
	No.	L	B	
(2) Providing & laying 10mm thick concrete				
Qty side Temp P-21				
1.062 m ³ @ 25,593.00/m ³				
				= 27,156.00
(3) R.C.C. in side in 2.5 grade concrete				
Qty side Temp P-21				
3.72 m ³ @ 17,122.00/m ³				
				= 63,795.00
(4) Scaffolding 1000 mm x 1000 mm in foundation				
Qty side Temp P-21				
55.61 m ² @ 76,45.00/m ²				
				= 4,250,463.00
(5) R.C.C. in side in 2.5 grade concrete				
Qty side Temp P-25				
2.09 m ³ @ 83,22.92/m ³				
				= 173,950.00
(6) Earthwork in excavation in foundation				
Qty side Temp P-25				
921.16 m ³ @ 123.22/m ³				
				= 113,506.00
(7) Providing & laying R.C.C. in side				
Qty side Temp P-25				
11.31 m ³ @ 69,405.00/m ³				
				= 785,600.00

Continuation

Sch. XIV Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
<u>Substructure</u>					
② Providing R.C.C m-30 mechanically mixed concrete in abutment shaft qty with TMB P-25					
Qty	87.9183m ³	@	8630.97/m ³		
		=	759379.00		
③ Providing RCC m-30 mechanical mixed concrete in abutment shaft qty with TMB P-26					
Qty	21.503m ³	P-34	21.006		
Total	12.909m ³				
		=	8630.97/m ³		
		=	2,70,246		
⑩ supplying fitting placing tied reinforcement in substructure					
Qty with TMB P-20	24.146 MT				
Qty with TMB P-26	4.46 MT				
Qty with TMB P-30 (MB No)	2286				
		=	1.614 MT		
Total	10.22	X	76292.60		
			=	7,79,710.	
<u>Super Structure</u>					
⑪ supplying fitting & fixing element Bearing & seismic Pad					
Qty with TMB P-28	101455.20				
Qty with TMB P-25					
		=	39,000.00		
Continuation					
Total	131455.20	@	1/cm		
		=	1,31,455.20		

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Providing 45d bar in Substructure as per specification					
Qty of 45d P-31					
= 14.368 MT					
Qty of 45d P-30 m @ Na(2086)					
= 2.297 MT					
Total = 16.665 MT x 77457.22/r					
= 12,90,824.74					
(13) Providing Rcc/Rcc m-30 grade Substructure					
Qty of concrete TMB P-81 = 52.66 m ³					
Qty of concrete TMB P-35 = 52.66 m ³					
Total 105.32 m ³					
Total 105.32 m ³ / 9519.77/m ³					
= 1002.622.17					
(14) Provide m-30 concrete in seismic block with strong aggregate					
Qty of concrete TMB P-36					
2.309 m ³ x 9281.41/m ³ = 21,430.0					
(15) Providing Keyping Cement Concrete wearing Coat of m-30					
= Qty of concrete TMB P-36					
16.999 m ³ x 13904.18/m ³					
= 2,36,357.15					
(16) Providing Rcc m-30 grade in railing					
Qty of concrete TMB P-36					
Continuation					
= 60.44 x 2196.11/r/m					
= 1,32,733					

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Particulars	Details of actual measurement				Content of area
	No.	L.	B.	D.	
(17) Breeding & laying ship real exjoin					
Glycide MBP-36					
= 26.55 Rm x 12353.31/Rm					
= 3,27,980 Rubbles					
Sub Total Amount = 18,00,9803.00					
CRS)					
less 10% (RS) =					1800980.30
					16,20,8823.00
less Previous RA Bill (L)					
					= 14365198.00
Net Payble Amount (Rs) =					18,48,630.00
AB					
NSI					
TE					
Labul Rajan					
10/10/2023					

material statement = 88.33 m³

coarse aggregate (Stone chip)

coarse Sand = 44.14 m³