

Agency. Ram Nandan Singh

Boree Bridge - (Nagband)
11th Div - Nagband

PHUR. P. W. D.

State Scheme

E.E. R.W.D. WORK - Fuyangabad.

Assistant Engineer.

R.W.D. WORK Sub-Division - Fuyangabad.

11th Div - Nagband
110/2477

2nd on A/c bry

Sch. XLV-Form No. 134-

6

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
1) Name of Work - Construction of H.E. bridge at Barwa on Adir River under (Navari) State scheme.					
2) Agreement No - 48580/2019-20					
3) Agency - Sri Ram Nandan Singh					
4) Agreement Amount - Rs 25723,632.20					
5) Date of Work start - 22-11-2019					

Date of Entry 3/12

1) PW and laying of P.C.C. H.E. levelling course 100 mm below F.D. etc. do. etc.					
24 x 12.6 x 5.4 x 0.10 = 13.61 m ³					
14 x 9.00 x 5.4 x 0.10 = 9.86 m ³					
Total					18.47 m ³

2) PW supply fitting and placing H.E.S.D. bar reinforcement etc. do. etc.					
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Abutment pile Cap - A1.

25 mm ϕ bottom Main bar					
98 x 7.45 mt = 730.1 mt					
@ 3.85 kg/mt = 2811.912 kg					
20 mm ϕ Distribution bottom					
34 x 14.59 mt = 496.06 mt					
20 mm ϕ Main bar Top					
82 x 7.60 mt = 623.20 mt					
20 mm ϕ Distribution Top					
27 x 14.59 mt = 393.93 mt					
Total					1513.19 mt
@ 2.465 kg/mt = 3730.01 kg					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16 mm ϕ char bar					
	251	4	238	mt	1063.738 mt
16 mm ϕ Side face reinforcement					
check 12 x 4.95 mt = 59.400 mt					
16 mm ϕ Side face reinforcement					
	12	12	150	mt	145.800 mt
					1268.938 mt
					@ 1.578 kg/mt = 2002.384 kg
Total (A+B+C) =					8544.31 kg
Add 5% wastage & lap =					427.21 kg
Total					8971.53 kg
					$\approx 8.971 MT$

Date of Entry 15/12

1) IN R.C.C M35 in pit

Cap in Abutment A1

etc - etc. TD

$$1 \times 12.30 \times 5.10 \times 1.80 = 112.914 m^3$$

2) IN Supply, fitting and placing

HYSD bar reinforcement

etc - etc. TD

Abutment pile cap - A2

25 mm ϕ bottom Main bar

$$98 \times 7.45 \text{ mt} = 730.1 \text{ mt}$$

$$@ 3.851 \text{ kg/mt} = 2811.912 \text{ kg}$$

20 mm ϕ Distribution bottom

$$34 \times 14.59 \text{ mt} = 496.86 \text{ mt}$$

20 mm ϕ Main bar Top

$$82 \times 7.60 \text{ mt} = 623.20 \text{ mt}$$

20 mm ϕ Distribution Top

$$27 \times 14.59 \text{ mt} = 393.93 \text{ mt}$$

$$\text{Total } 1513.19 \text{ mt}$$

$$@ 2.465 \text{ kg/mt} = 3730.57 \text{ kg}$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16 mm ϕ chair bar					
	257	4.238 mt			1063.738 mt
16 mm ϕ Side face reinforcement					
	12	4.95 mt			59.400 mt
16 mm ϕ Side face reinforcement					
	12	12.180 mt			145.80 mt
<i>chub</i>					
<i>28/12</i>					
Total					1268.938 mt
@ 1.578 kg/mt					2002.384 kg
Total (A+B+C)					= 8544.31 kg
Add 5% Wastage & Lap					427.21 kg
					Total 8971.53 kg
					= 8.971 MT
<i>18/12/20</i>					
<i>OC. above</i>					

Date of Entry 27.12					
1) PW R.e.c M35 in pile cap					
for Abutment - A2 at 25%					
	1	12.30	5.10	1.80	= 112.914 M ³
2) PW Supply for tie and					
placing HPSD Bar reinforcement					
in pile cap for pier shafts					
125 mm ϕ Main bar bottom					
<i>chub</i>					
	69	7.993 mt			551.517 mt
<i>28/12</i>					
@ 3.8514 kg/mt					2124.116 kg
20 mm ϕ Distribution bottom					
	34	11.564 mt			393.176 mt
20 mm ϕ Top bar longitudinal direction					
	58	8.023 mt			465.334 mt
20 mm ϕ Top bar Transverse direction					
	34	11.564 mt			393.176 mt
20 mm ϕ Side face reinforcement					
	12	9.43 mt			113.160 mt
Total					1364.846 mt
@ 2.4649 kg/mt					3364.21 kg

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16 mm ϕ Side face reinforcement					
		12	5.854 mt		70.248 mt
16 mm ϕ main bar					
		177	3.323 mt		592.071 mt
checked				Total	662.269 mt
				@ 1.5775 kg/mt	1052.62 kg (R)
Total A/B/C					6540.946 kg
Add 5% wastage & lap					327.05 kg
				Total	6867.996 kg
					= 6.868 mt

Date of Entry 10-1.					
1) PW R.C.C. M35 in pile cap for pier etc. do. TD					
					$1 \times 8.7 \times 5.10 \times 1.80 = 79.874^3$
2) PW and Construction of Service road to reach pier etc. do. TD					
					24.18.75 = 27.50 mt
3) PW Supply filling and placing HYSD bar reinforcement in Abutment shaft. A1 etc. do. TD					
					20 mm ϕ Main bar (each face)
					$61 \times 7.084 \text{ mt} = 432.124 \text{ mt}$
					20 mm ϕ Main bar (opposite each face)
					$61 \times 7.064 \text{ mt} = 430.904 \text{ mt}$

checked 10/11/21

Continuation

Total 863.028 mt

@ 2.465 kg/mt = 2127.364 kg

Total to (A)

- Contd. -

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16mm ϕ Distributer					
	48	10.785	mt		517.824 mt
16mm ϕ Main bar side face					
	20	7.088	mt		141.68 mt
					Total 659.504 mt
					@ 1.578 kg/mt — 1040.70 kg
10mm ϕ Link bar					
		160	1.15		184.0 mt
					@ 0.616 kg/mt — 112.336 kg
Total (A+B+C)					3281.45 kg
Add 5% wastage & lap					164.07 kg
					Total 3445.52 kg
					= 3.445 mt

Date of Entry 18.1.					
1) PW Supply and placing					
HYSD. bar reinforcement					
a) Abutment - L. Return wall					
etc - do - 7/3					
16mm ϕ Main bar earth face					
		86	6.262	mt	538.532 mt
16mm ϕ Main bar opposite earth face					
		58	5.002	mt	290.116 mt
16mm ϕ Vertical bar					
		112	5.909	mt	616.808 mt
16mm ϕ Main bar earth face					
		42	5.790	mt	243.180 mt
16mm ϕ Main bar opposite earth face					
		20	9.284	mt	128.520 mt
					Continuation Total 1817.156 mt
					@ 1.578 kg/mt — 2867.47 kg
					Add 5% wastage & lap — 143.37 kg
					Total 3010.84 kg
					= 3.01 mt

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

Date of Entry

30.1.

1) P.K.R.C. 4/20 in sub structure

in Abutment shaft and return wall

$$A_1 \text{ p } 1 \times 8.400 \times 1.00 \times 3.3192 = 27.88 \text{ m}^3$$

$$4 \times 3.5 \times 0.48 \times 4.00 = 26.88 \text{ m}^3$$

$$54.76 \text{ m}^3$$

2) P.K. Supply, fitting and placing

HYSD bar reinforcement

in Abutment shaft & Return wall

See - See - 1/5

Abutment - 2 -

20 mm Main bar earth face

$$61 \times 7.084 \text{ mt} = 432.124 \text{ mt}$$

20 mm Main bar opposite earth face

$$61 \times 7.084 \text{ mt} = 430.904 \text{ mt}$$

$$\text{Total } 863.028 \text{ mt}$$

$$@ 2.465 \text{ kg/mt} = 2127.264 \text{ kg}$$

16 mm Distribution bar

$$48 \times 10.788 \text{ mt} = 517.824 \text{ mt}$$

16 mm Mesh bar bed face

$$20 \times 7.084 \text{ mt} = 141.68 \text{ mt}$$

$$\text{Total } 859.504 \text{ mt}$$

$$@ 1.528 \text{ kg/mt} = 1040.70 \text{ kg}$$

10 mm - Link bar

$$160 \times 1.15 = 184.0 \text{ mt}$$

$$@ 0.616 \text{ kg/mt} = 113.385 \text{ kg}$$

Return Wall

16 mm Main bar earth face

$$86 \times 6.282 \text{ mt} = 538.532 \text{ mt}$$

16 mm Mesh bar opposite earth face

$$58 \times 5.002 \text{ mt} = 290.116 \text{ mt}$$

16 mm Vertical bar

$$112 \times 5.799 \text{ mt} = 648.808 \text{ mt}$$

16 mm Mesh bar earth face

$$42 \times 5.790 \text{ mt} = 243.180 \text{ mt}$$

16 mm Mesh bar opposite

earth continuation

$$30 \times 4.284 \text{ mt} = 128.520 \text{ mt}$$

$$\text{Total } 1810.106 \text{ mt}$$

$$@ 1.528 \text{ kg/mt} = 2867.47 \text{ kg}$$

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Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
Total A+B+C+D =					6148.92 kg
Add 5% Wastage & loss -					307.45 kg
Total					6456.37 kg
					× 6.456 MT

30/11/2021
OE

Rate of Entry 94/2

1) Plr R.e.e M30 in Sub-

Structure in Abutment shaft
and Return Wall etc.

$$A_2 - 1 \times 8.40 \times 1.00 \times 3.319 = 27.88 M^3$$

$$4 \times 3.5 \times 0.48 \times 4.00 = 26.88 M^3$$

$$\text{Total } 54.76 M^3$$

2) Plr Supply fitting and placing
HYSD bar reinforcement
in Pier shaft etc.

25 mm ϕ Main bar

$$46 \times 8.60 m = 395.6 m$$

$$@ 3.85 kg - 1523.45 kg$$

12 mm ϕ Binder

$$15/2/21 15 \times 5.46 m = 245.8 m$$

$$\text{Continuation } @ 0.882 kg/m = 217.94 kg$$

$$741.39 kg$$

$$\text{Add 5% Wastage & loss - } 37.07 kg$$

$$\text{Total } 778.46 kg$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

[illegible]

1) PN R. e e H30 W Sub

Structure of Pier Shaft

che - in 17

$$17 \times 1.57 \times 2.00 \times 4.00 = 12.564$$

26/07/07
De Aarde

checked & controlled
by Dr. P. P. P.
02/03/2021
AE RWD
Aurangabad

Scanned with CamScanner

Sch. XLV-Form No. 154					11
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Abstract of CR</u>					
1) Dismantling of structure					
etc. do do TB					
14.93 M ³ Qty vide P-③					
@ 1140.29/M ³ — b 1701320					
2) PW B/W in Excavation					
in fd ⁿ trenches etc. TB					
553.58 M ³ Qty vide P-③					
@ 125.24/M ³ — b 6933020					
3) PW Rec H35 in pile					
Bored Cast in situ etc TB					
484.00 M ³ Qty vide P-③					
@ 15673.23/M ³ — b 758584300					
4) PW and layer P.C.C. M15					
in fd ⁿ etc TB					
18.42 M ³ Qty vide P-③					
@ 5301.79/M ³ — b 9792420					
5) P/R R.C.C. M30 in pile					
Cap etc. do TB					
112.31 M ³ Qty vide P-②					
112.91 M ³ Qty vide P-③					
79.82 M ³ Qty vide P-④					
305.69 M ³ @ 6828.64/M ³ — b 208750220					
6) PW Supply of filler and					
placing H/F S/L concrete					
do TB					
56.72 M ³ NT Qty vide P-③					
8.97 M ³ NT Qty vide P-④					
8.97 M ³ NT Qty vide P-⑤					
6.868 M ³ NT Qty vide P-⑥					
81.549 M ³ NT @ 76759.64/M ³ — b 62596720					
Total b 1611728420					

Continuation

C/O

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Sch. XLV-Form No. 154					
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
B/F 1, 6, 17, 28421					
7) P.W. Construction					
Service road area					
37.5 mt Ø by ndel (9)					
@ 3880.22/m ²					14475820
8) P.W. R.C.C. Substructure					
in Abutment & Pier Slab					
etc. etc.					
54.26 m ³ Ø by ndel (11)					
54.26 m ³ Ø by ndel (12)					
12.58 m ³ Ø by ndel (13)					
112.08 m ³ @ 6881.54/m ³					8400982
9) P.W. Wash holes in Abutment					
Ø by Slab etc.					
192 m ³ Ø by ndel (13)					
@ 132.62/m ³					2547320

10) P.W. Supply fittings and placing 4x50 bar. reinforcement in Sub- structure etc. etc.					
3.445 MT Ø by ndel (6)					
3.01 MT Ø by ndel (6)					
6.456 MT Ø by ndel (12)					
0.778 MT Ø by ndel (13)					
13.698 MT @ 76910.13/MT					10935152
Total					1,81,81,12820

Reduct @ 10% per agreement					181811320
Total					1,63,63,01520
Reduct P.P. (5)					113,37,22420
Total					50,25,74120

26/02/07					
Abd C&P					
Continuation					
5/3/21					