

प्रमाणित किया जाता है कि
भागी पुस्त में नमूने डेट 10/12/19
पुस्त में निम्न श्री बाबू बाल प्रसाद
सहायक अभियंता कार्य उत्तर प्रमण्डल
पकडीदयाल के पदनाम से निर्गत किया
जाता है

18/12/19
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल पकडीदयाल

Schedule XLV Form No.-134

R.W.D PAKARIDAYAL DIVISION
R.W.D PAKARIDAYAL SUB-DIVISION

MEASUREMENT BOOK

764

Name of officer

Date of first entry

Date of last entry

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work :- Proposed High level Rec					
Bridge with Five year Maintenance of.					
Across Sirha Kothi River At - Gudoghat					
Under - Pakhadiyal Block in the District.					
East Champaran. Under - NABARD					
Agency :- M/s Rudra Enterprises at Belbar					
- WS Motihari, East Champaran.					
Agreement No :- 14530/2019-20					
Date of work order :- 06-09-20					
Date of comp :- 05-09-21					

1. Providing Elastomeric					
Beering & Seismic Pad -					
all comp. Job - Nil					
Span - P3-P4					
Pier 3 -	3	63.00	28.00	0.60	45511.20 m ³
Pier 4 -	3	63.00	28.00	0.60	45511.20 m ³
					T- 91022.40 m ³
2. S/c & Placing Hys ber					
Reinfor in Super stru					
Close all comp. Job - Nil					
Span - P3-P4					
Main Girders					
28mm Φ =	12	18.44	4.84	1m	1071.00 kg.
28mm Φ =	12	18.44	4.84	1m	1071.00 kg.
28mm Φ =	6	19.608	4.84	1m	569.42 kg.

Continuation

Sch. XLV-Form No.134

Sch. XLV-Form No. 154						
Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
28mm ϕ	6	18.316	4.84	17	531.90 kg.	
28mm ϕ	6	16.43	4.84	17	477.13 kg.	
28mm ϕ	4	14.59	4.84	17	282.46 kg.	
16mm ϕ	12	17.00	1.58	17	322.32 kg.	
6mm ϕ	60	17.00	0.22	17	224.40 kg.	
10mm ϕ	311	2	3.756	0.62	17	1448.46 kg.
6mm ϕ	58	1.035	0.22	17	13.21 kg.	
6mm ϕ	116	0.758	0.22	17	19.14 kg.	
<u>Cross Girder</u>						
20mm ϕ	6	8.096	2.47	17	120.00 kg.	
20mm ϕ	4	8.284	2.47	17	82.00 kg.	
25mm ϕ	9	8.350	3.86	17	290.00 kg.	
25mm ϕ	3	6.495	3.86	17	75.00 kg.	
25mm ϕ	2	6.495	3.86	17	50.00 kg.	
25mm ϕ	2	8.494	3.86	17	65.00 kg.	
10mm ϕ	66	2	2.786	0.62	17	228.00 kg.
10mm ϕ	28	2	3.586	0.62	17	125.00 kg.
6mm ϕ	24	5.950	0.22	17	31.00 kg.	
6mm ϕ	12	5.25	0.22	17	14.00 kg.	
16mm ϕ	18	3.996	1.58	17	114.00 kg.	
6mm ϕ	12	6.78	0.22	17	18.00 kg.	
6mm ϕ	16	2.93	0.22	17	10.00 kg.	
12mm ϕ	4	2.604	0.89	17	27.00 kg.	
				T	7279.44 kg.	
<u>At 5% Extra for labor</u>						
	Waste			(+)	363.97 kg.	
				T	7643.41 kg.	
				or	7.64 MT	

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Providing floor in super structure all comp					
Job					Est
Main Girder					
$3 \times 17.07 \times 0.300 \times 1.460$					$= 22.43 \text{ m}^3$
Cross Girder					
$3 \times 4.10 \times 0.250 \times 1.460$					$= 4.49 \text{ m}^3$
					T 26.92 m^3
25.3.93					
J.E.					
3. Substituting Filling & Plaster Hydro bar reinforcement in super structure all Comp. Job					Est
Span - P ₁ - P ₄					
Slab					
12 mm ϕ	72	7.252	0.89	$1/4$	465.00 kg
12 mm ϕ	78	5.30	0.89	$1/4$	368.00 kg
12 mm ϕ	74	5.30	0.89	$1/4$	349.00 kg
16 mm ϕ	156	2.325	1.58	$1/4$	573.00 kg
8 mm ϕ	138	1.850	0.395	$1/4$	100.00 kg
8 mm ϕ	24	17.29	0.395	$1/4$	161.00 kg
8 mm ϕ	24	17.262	0.395	$1/4$	162.00 kg
8 mm ϕ	44	17.02	0.395	$1/4$	296.00 kg
8 mm ϕ	16	1.70	0.395	$1/4$	11.00 kg
8 mm ϕ	8	17.02	0.395	$1/4$	53.00 kg

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8.7m P	116	1.656	0.395	1.17	75.00 kg. T 2613.00 kg.
Adap 5.1. Enters laps & Wastage (+)					130.65 kg. T 2743.65 kg.
					or. 2.743 MT
4. Providing Rebar 30 in sup					
or structure all comp. Job					
					or.
Slab.	17.05	8.450	0.24 (Avg)		34.57 T 34.57 m ³
28.4.23					
S.E.					
5. Providing Elastomeric					
Bearing & Seismic Pad					
all comp. Job					or.
Span - P4 - A4					
Pier 4 - 3 x 63.00 x 28.00 x 0.60					45511.20 m ³
Abut. 4 - 3 x 63.00 x 28.00 x 0.60					45511.20 m ³
					T 91022.40 m ³
6. Supplying Fitting & Placing					
HySD bar reinforcement in					
super structure all comp.					
Job					or.

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sisen - P ₄ - A ₁					
Main Girder -					
28 mm ϕ	12	$18.44 \times$	4.84 kg	1 m	$= 1071.00 \text{ kg}$
28 mm ϕ	12	$18.44 \times$	4.84 kg	1 m	$= 1071.00 \text{ kg}$
28 mm ϕ	6	$19.608 \times$	4.84 kg	1 m	$= 569.42 \text{ kg}$
28 mm ϕ	6	$18.316 \times$	4.84 kg	1 m	$= 531.90 \text{ kg}$
28 mm ϕ	6	$16.43 \times$	4.84 kg	1 m	$= 477.13 \text{ kg}$
28 mm ϕ	4	$14.59 \times$	4.84 kg	1 m	$= 282.46 \text{ kg}$
16 mm ϕ	12	$17.0 \times$	1.58 kg	1 m	$= 322.32 \text{ kg}$
6 mm ϕ	60	$17.0 \times$	0.22 kg	1 m	$= 226.40 \text{ kg}$
10 mm ϕ	311	$2 \times 3.756 \times$	0.62 kg	1 m	$= 1448.46 \text{ kg}$
6 mm ϕ	58	$1.035 \times$	0.22 kg	1 m	$= 13.21 \text{ kg}$
6 mm ϕ	116	$0.750 \times$	0.22 kg	1 m	$= 19.14 \text{ kg}$
Cross Girder -					
20 mm ϕ	6	$8.096 \times$	2.47 kg	1 m	$= 120.00 \text{ kg}$
20 mm ϕ	4	$8.284 \times$	2.47 kg	1 m	$= 82.00 \text{ kg}$
25 mm ϕ	9	$8.350 \times$	3.86 kg	1 m	$= 290.00 \text{ kg}$
25 mm ϕ	3	$6.495 \times$	3.86 kg	1 m	$= 75.00 \text{ kg}$
25 mm ϕ	2	$6.495 \times$	3.86 kg	1 m	$= 50.00 \text{ kg}$
25 mm ϕ	2	$8.494 \times$	3.86 kg	1 m	$= 65.00 \text{ kg}$
10 mm ϕ	66	$2 \times 2.786 \times$	0.62 kg	1 m	$= 228.00 \text{ kg}$
10 mm ϕ	28	$2 \times 2.586 \times$	0.62 kg	1 m	$= 125.00 \text{ kg}$
6 mm ϕ	24	$5.950 \times$	0.22 kg	1 m	$= 31.00 \text{ kg}$
6 mm ϕ	12	$5.250 \times$	0.22 kg	1 m	$= 14.00 \text{ kg}$
16 mm ϕ	18	$3.996 \times$	1.58 kg	1 m	$= 114.00 \text{ kg}$
6 mm ϕ	12	$6.78 \times$	0.22 kg	1 m	$= 18.00 \text{ kg}$
6 mm ϕ	16	$2.93 \times$	0.22 kg	1 m	$= 10.00 \text{ kg}$
12 mm ϕ	4	$7.604 \times$	0.89 kg	1 m	$= 27.00 \text{ kg}$
Continuation					$= 7279.44 \text{ kg}$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		516 9 1/2	—	72 7/8	7279.44 kg.
Add 5. Entos for lap & wastage (+)					363.97 kg
					T-7643.41 kg.
					or, 7.643 MT
7. Providing for 730 in					
Super Structure all comp.					
Job				Gr	
Main Girders					
	3	17.07	0.300	1.460	= 22.43 m ³
Cross Girders					
	3	4.10	0.230	1.460	= 4.49 m ³
					T 26.92 m ³
8. Supplying fitting and					
Placing HYSD bar reinforcement in super structure					
all comp. job				Gr	
Span (A ₄ - A ₁)					
Slab					
12 7 7 φ	72	7.252	0.89	17	= 465.00 kg.
12 7 7 φ	78	5.30	0.89	17	= 368.00 kg.
12 7 7 φ	74	5.30	0.89	17	= 349.00 kg.
16 7 7 φ	156	2.325	1.58	17	= 573.00 kg.
8 7 7 φ	138	1.850	0.395	17	= 100.00 kg.
8 7 7 φ	24	17.24	0.395	17	= 161.00 kg.
8 7 7 φ	24	17.262	0.395	17	= 162.00 kg.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
877 ϕ	44	17.02	$\times 0.395$	$\times 17$	$= 296.00 \text{ y}$
877 ϕ	16	$\times 1.70$	$\times 0.395$	$\times 17$	$= 11.00 \text{ y}$
877 ϕ	8	$\times 17.02$	$\times 0.395$	$\times 17$	$= 53.0 \text{ y}$
877 ϕ	116	$\times 1.656$	$\times 0.395$	$\times 17$	$= 75.0 \text{ y}$
					T 2613.00 y.
Add S.M. Extra Laps & Wastage (1)					130.65 y
					T 2743.65 y
					or 2.743 MT
9. Providing Rebar in					
Slab Structure. all Comp.					
Job					218
Slab.		17.05	$\times 8.450$	$\times 0.24$ (Avg)	$= 24.57 \text{ m}^3$
					T 24.57 m^3
28.7.23					
S.E.					
10. Providing rebar in					
abutment & pier all Comp.					
Job					218 34 MT
11. Providing Rebar in					
piling with ground slope all					
Comp. Job					20
2 x 5 x 17.118 = 2.					
		2×5	$\times 17.118$	(Avg)	$= 171.18$
		$2 \times \frac{1}{2} \times 1.95$	(Avg)		$= 15.60$
					T 186.78 y

Continuation

24.8.23.
J.E.

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
12. Providing Area 430 in weaving east with 50/5mm lik all comp. Job — (21)					
Slab -	5	17.118	7.50	0.075	48.14
					T 48.14 m ³
25.9.93 S. E.					
13. Providing Drains spout on per app. drawing — (6)					
	5	6			30 NO
14. Back filling behind abut ment using wall and return wall all comp. Job — (6)					
A2 -	2	2.90	6.350	6.35	116.935
A1 -	1	2.90	6.350	6.35	116.935
					T 233.870 m ³
15. Providing Filter Headers with stone 7 ft x 6 ft x 1 ft as per comp. Job — (4)					
B. Abut.	2	7.55	0.60	6.35	57.531
B. p. wall -	4	2.90	0.60	6.35	44.196
Continuation					T 101.727 m ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16. Paving 100 x 15 ft leveling course below approach slab all comp.					
Job				212	
		2 x 3.50 x 7.55 x 0.15			7.928
					T 7.928 y ³
24.10.23 S.F.					
17. Paving 100 x 30 ft approach slab all comp. Job				212	
		2 x 3.50 x 7.55 x 0.300			15.855
					T 15.855 y ³
25.11.23 S.F.					
18. Paving 100 x 10 ft of a strip seal expansion					
Total all comp. Job				212	
		6 x 0.85 y			53.10
					T 53.10 y ³
19. Const of embankment with app. material from borrow pits				212	
Earthwork quantity sheet					
Sd. No.	Ch.	Area	7 Area	Dist.	Volume
				7	y ³
At side					
1	10.	3.660	0.915	10.00	9.150
2	20	3.282	1.736	10.00	17.355
3	30	34.671	9.489	10.00	94.883

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4	40.0	42.454	19.282	10.00	192.813
5	50.0	48.953	22.852	10.00	228.518
6	60.0	56.974	26.482	10.00	264.818
7	70.0	63.862	30.209	10.00	302.090
8	80.0	66.937	32.700	10.00	326.998
9	90.0	68.449	33.847	10.00	338.465
10	100.0	69.571	34.505	10.00	345.050
11	110.0	64.066	33.410	10.00	334.093
12	120.0	55.228	29.824	10.00	298.235
13	130.0	71.762	31.748	10.00	317.475
14	140.0	78.043	37.452	10.00	374.513
15	150.0	79.355	39.350	10.00	393.495
16	160.0	84.365	40.930	10.00	409.300
17	163.0	85.056	42.356	3.00	127.066
A2 & 2e. -					
18	256.0	93.569	-	-	-
19	260.0	93.565	46.769	4.00	187.074
20	270.0	99.873	48.345	10.00	483.440
21	280.0	94.608	48.621	10.00	486.203
22	290.0	88.574	45.781	10.00	457.805
23	300.0	84.542	43.264	10.00	432.640
24	310.0	78.108	40.663	10.00	406.625
25	320.0	70.677	37.202	10.00	372.018
26	330.0	60.242	32.736	10.00	327.353
27	340.0	46.907	26.788	10.00	267.878
28	350.0	36.646	20.809	10.00	208.888
29	360.0	15.432	13.020	10.00	130.195

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
30.	365.0	0.529	3.991	5.0	19.952
				T	8157.393 ³
24.12.23 J.E.			24.12.23 AE		
20.	E/L in excavation				
	d. fund				
A side	1	50.00	2.22	1.50	166.50
A ₂ side	1	50.00	2.22	1.50	166.50
				T	333.00 ³
2.	Nominal reinforcement in				
	guard wall steel work				
	in g. wall open				
10.77	2	2	16 no	50.7	
			① 0.624	17	1984 kg.
	2	250 no	5.50	7.	
			② 0.624		1705 kg.
				T	3689 kg.
Std	5.1.	Westage &			
	over lab		cr		184.45 kg.
				T	3873.45 kg.
				cr.	3.873 MT
16.1.24 J.E.			16.1.24 AE		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
22.	Const 4. + 5 gnd in				
	the guard wall as per				
	drawing				
A ₁	1 x 50.00 x	$\frac{1.80 + 0.80 + 0.40}{3}$		$\times 3.176$	158.80
A ₂	1 x 50.00 x	$\frac{1.80 + 0.80 + 0.40}{3}$		$\times 3.176$	158.80
					1
					T 317.607 ³
23.	Keep high in guard				
	wall as per drawing -				
A ₁	1 x 34 m				34 m
A ₂	1 x 34 m				34 m
					T 68 m.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/2.0	E/W in excavation for				
	for dth				E/W
	vide. T73-56				
496.76 y ³ @	2.	73.73			1.36626 ~
2/10. S/A & Placing Hysid bar					
	vide. T73-56				
	P. 56				
90.59 MT @	2.	76903.11			2.6966653 ~
2/5.0	Plr board cont in situ				
	735 sq. ft. bill				
	P. 56				
704.25 y ³ @	2.	16803.53			2.11833886 ~
4/4.00	Plr	6mm thick	liner		
	all exp.				
	P. 56				
35.628 y ³ @	2.	89295.81			2.3181431 ~
5/30.0	Const 9. embankment with				
	exp. 70.00 from borrow				
	P. 56				
2425.33 y ³ @	2.	204.02			2.494816 ~
4/100	Pile load test on sigel				
	vertical pile				
	P. 56				
1528.00 MT @	2.	300.00			1.458400 ~
2/11.5	Pile load test on sigel				
	vertical pile lateral				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		P-57			
41.8077 @ Q.	5000.00			L.	209000
9/6.	Dismantling & existing structure				
		P-57			
31.6573 @ Q.	1140.29			L.	360900
9/7.	Sand filling in				
		P-57			
20.7273 @ Q.	455.99			L.	9448
10/8.	Piv Pce 715 in level				
		P-57			
20.7273 @ Q.	6056.52			L.	125491
11/15.	S/A & Placing Hysid				
	bgr reinf & in sub structure				
		P-57			
33.20477 @ Q.	77052.59			L.	2558454
12/9.	Piv Pce 735 in pile				
		P-58			
347.9273 @ Q.	7612.74			L.	2648625
13/11	Piv Pce 430 in Abutment				
	satt & pier shaft				
		P-58			
110.6273 @ Q.	7737.64			L.	855938

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
14/12/01	PIN RCC 430 grade in				
	abut. soft culv & pier				
	soft culv			21	
	P. 58				
102.26 m ³ @ R. 7737.64					G. 791251.20
15/12/01	PIN RCC 430 in abut.				
	soft culv & pier soft				
	cap Hammer Head				
	P. 58				
6.46 m ³ @ R. 7881.06					G. 50912.20
16/12	PIN wamp holes in				
	abut & return wall				
	P. 58				
72 NO @ R. 131.30					L. 9454.20
17/13	S/F & Fining glass to road				
	Beaming & seismic band				
273067.20	P. 59				
91022.40	P. 63				
91022.40	P. 66				
455112.00 m ³ @ R. 0.83					G. 377743.20
18/19.0	S/F & Placing HYSD bar				
	raft at in super vector				
	all cuts			61	
31.149 MT	P. 59				
7.643 MT	P. 64				
2.743 MT	P. 68				
7.643 MT	P. 68				
2.743 MT	P. 69				
51.921 MT					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5.921 MT @ 1.					
Unit 51.87 MT @ 1. 73225.20					4057541.20
19/18 PIV Rec 730 grade 4					
super stone					
184.47 7 ³ P. 59					
26.92 7 ³ P. 65					
34.57 7 ³ P. 66					
26.92 7 ³ P. 68					
34.57 7 ³ P. 69					
307.45 7 ³ 30 @ 1. 8758.75					2680177.20
Admitted 306.00 7 ³					
20/ PIV Rec 730 in selling					
will 8-2-1 stone cut					
P. 69					
186.78 7 ³ @ 1. 2101.05					392434.20
21/ PIV Rec 730 in Wany					
P. 70					
48.14 7 ³ @ 1. 13264.84					638569.20
22/ PIV Orange Spent					
cup					
P. 70					
30 No @ 1. 907.99					
23/ 87 7 ³ @ 1. 747.88					27240.20
23/ PIV filter Media's with					
stone 7.20					
P. 70					
101.727 7 ³ @ 1. 2985.43					1.303708.20

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
24/	Back filling in below				
	about 1/2 in				
	P. 70				
233.87 y ³ @ 747.88				9	174907 ~
25/	Plr Rec 715 g in				
	below 9bb				
	P. 71				
7.928 y ³ @ 6662.72				4.	48065 ~
26/	Plr Rec 730 in				
	app. slab				
	P. 71				
15.855 y ³ @ 9.11350.05				1.	179955 ~
27/	Plr Rec 715 g in				
	Stop set expansion				
	Jost -				
	P. 71				
53.10 y @ 9.12353.31				9.	655961 ~
28/	Conc to 9. embankment				
	with 1/2 in 1/2 in				
	as per graph				
	P. 73				
8151.353 y ³ @ 9.204.02				4.	166304 ~
29/	Plr in excavation				
	at fundn				
	P. 73				
333.0 y ³ @ 9.73.73				1.	24552 ~

Continuation

Continuation. 20

