प्रमाणित किया जाता है कि मापी
पुस्त मे समाहित कुल 100 पृष्ठ है जिसे
सहायक अभियंता ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल पताही के पदनाम से
निर्गत किया जाता है।

21.12.23
Executive Engineer
RWD Works Division
Pakridayal
(क) 21.12.23

R. W. D PAKRIDAYAL DIVISION
R. W. D PATAHI SUB-DIVISION

MEASUREMENT BOOK

1430

Name of officer ____________________

____

Date of first entry ____________________

Date of last entry ____________________

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	4th on A/c Bill.				
N/W:→	constn. of H.L Bridge 2n nankar of Parsauni Kapoor Panchayat to Mankarwa Phenhara road. State Scheme-4515. (NABARD)				
Agency:→	M/s uttar Bihar constn comp. c/o- Sanjay Kumar. Sport club road. Chhatauni, P/o Tiharé, East Champaran.				
Agreement no:→	21 SBD/2023-24				
D.O.S →	20.12.2023				
D.O.C →	19.12.2025				
D.O.M →	19.05.2024 to 25/11/24				
1:>	S/F and placing HYSD bar				
	Sub-str -do- all comp. jrb.				
	Ab-A2 - Cap				
16mm ϕ,	16	8.35	@1.58 Kg/M		=211.088 Kg
	57	11.244	@1.58 Kg/M		=1012.635 "
Dist wall & Bracket.					
12mm ϕ,	57	3.867	@0.89 Kg/M		= 196.173 "
	57	3.567	@0.89 Kg/M		= 180.954 "
10mm ϕ,	16	9.350	@0.62 Kg/M		= 92.752 "
	16	9.350	@0.62 Kg/M		= 92.752 "
	30	2.040	@0.62 Kg/M		= 37.944 "
16mm ϕ,	2	9.350	@1.58 Kg/M		= 29.546 "
12mm ϕ,	59	2.790	@0.89 Kg/M		= 146.503 "
	5	9.350	@0.89 Kg/M		= 41.607 "

Continuation 2041.954 Kg
or, 2.041 M.T

Sch. XLV-Form No.134 52

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2.) P/r and laying RCC M-30 grade in					
Φ6, cap and Dirtwall and Bracket					
—do— all comp. job.					
Shaft cap —	1 ×	8.45 ×	1.790 ×	0.800 =	12.104 m^3
Dirtwall →	1 ×	8.45 ×	0.400 ×	2.267 =	7.66 "
B. Rectangular →	1 ×	7.25 ×	0.300 ×	0.450 =	0.98 "
B. trapezoidal →	1 ×	7.25 ×	0.300 ×	0.150 =	0.33 "
Return wall →	2 ×	2.91 ×	2.692 ×	0.600 =	9.40 "
					30.474 m^3
3.) S/f and Placing HYSD bar					
Sub-str— do — all comp. job.					
Pier - P_2 - cap.					
25 mm Φ,	44 ×	9.500 ×	@3.85	kg/m =	1609.30 kg
20 mm Φ,	18 ×	9.810 ×	@2.47	kg/m =	436.153 kg
16 mm Φ,	14 ×	14.330 ×	@1.58	kg/m =	316.980 "
	48 ×	12.730 ×	@1.58	kg/m =	965.443 "
	6 ×	14.010 ×	@1.58	kg/m =	132.815 "
20 mm Φ,	8 ×	20.820 ×	@2.47	kg/m =	411.403 "
12 mm Φ,	12 ×	15.500 ×	@0.89	kg/m =	165.540 "
25 mm Φ,	8 ×	2.530 ×	@3.85	kg/m =	77.924 "
					4115.558 kg
					or, 4.116 M.T
4.) P/r and laying RCC M-30 grade					
in pier shaft Cap — do — all					
comp. job.					

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Pier – P_2					
P.S.C Rectangular	1 ×	7.80 ×	2.610 ×	1.00 =	20.364 m^3
Trapezoidal-					
1 ×	$\frac{(7.80 \times 2.61) + (1.80 \times 1.80)}{2}$			× 0.800 =	9.44 "
					29.804 m^3
5.) S/F and Placing HYSD bar in Sub-str- do- all comp. Job.					
Pier-Pt-Cap.					
25 mm ϕ,	44 ×	9.500 ×	@ 3.85 kg/M =		1609.30
20 mm ϕ,	18 ×	9.810 ×	@ 2.47 kg/M =		436.153 K
16 mm ϕ,	14 ×	14.330 ×	@ 1.58 kg/M =		316.980 "
	48 ×	12.730 ×	@ 1.58 kg/M =		965.443 "
	6 ×	14.010 ×	@ 1.58 kg/M =		132.815 "
20 mm ϕ,	8 ×	20.820 ×	@ 2.47 kg/M =		411.403 "
12 mm ϕ,	12 ×	15.500 ×	@ 0.89 kg/M =		165.540 "
25 mm ϕ,	8 ×	2.530 ×	@ 3.85 kg/M =		77.924 "
					4115.558 K
				Or,	4.116 K
6.) P/V and laying RCC M-30 grade					
P.S.C Rectangular					
	1 ×	7.80 ×	2.610 ×	1.00 =	20.364
Trapezoidal.					
1 ×	$\frac{(7.80 + 2.61) + (1.80 \times 1.80)}{2}$			× 0.800 =	9.44 "
					29.804 m^3

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
7.) S/F and placing HYSD bar					
in Sub-str- do- all comp. job.					
Ab-A1-Cap.					
16mm ϕ,	16x	8.350x	@1.58 kg/M =		211.088kg
	57x	11.244x	@1.58 kg/M =		1012.635"
Dirtwall & Bracket					
12mm ϕ,	57x	3.867x	@0.89 kg/M =		196.173"
	57x	3.567x	@0.89 kg/M =		180.954"
10mm ϕ,	16x	8.350x	@0.62 kg/M =		82.830"
	16x	9.350x	@0.62 kg/M =		92.752"
	30x	2.040x	@0.62 kg/M =		37.944"
16mm ϕ.	2x	9.350x	@1.58 kg/M =		29.546"
12mm ϕ,	59x	2.790x	@0.89 kg/M =		146.503"
	5x	9.350x	@0.89 kg/M =		41.607"
					2032.032kg
					or, 2.032M.T
8.) P/v and laying RCC M-30 grade in					
AB, cap, and Dirtwall and Bracket					
-do- all comp. job.					
Shaft cap →	1x	8.45x	1.790x	0.800 =	12.107 M^3
Dirt wall →	1x	8.45x	0.400x	2.267 =	7.66 "
B. Rectangular →	1x	7.25x	0.300x	0.450 =	0.98 "
B. Trapezoidal →	1x	7.25x	0.300x	0.150 =	0.33 "
Return wall →	2x	2.91x	2.692x	0.600 =	9.40 "
					30.47 M^3

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
9.) S/F and placing HYSD bar in					
Sub-str. -do- all comp. job.					
Ab-A2 - Pedestal.					
16mm ϕ,	3X	2.370X	@1.58 kg/M		= 11.233kg.
	3X	2.370X	@1.58 kg/M		= 11.233 kg
8mm ϕ,	6X	18.842X	@0.40kg/M		= 45.220 kg.
	8X	5.182X	@0.40kg/M		= 16.582 kg
					84.268 kg
					or, 0.084 mg.
10.) P/V and laying RCC M-30 grade in					
Ab-A2 Pedestal -do- all comp. job.					
	3X	0.87X	0.87X	0.250	= 0.567M^3
11.) S/F and placing HYSD bar in					
Sub-str -do- all comp. job.					
Pier-P2 = Pedestal.					
16mm ϕ,	36X	2.77X	@1.58 kg/M		= 157.557kg
	36X	2.77X	@1.58 kg/M		= 157.557kg.
8mm ϕ,	24X	39.542X	@0.40kg/M		= 379.603kg
	8X	5.182X	@0.40 kg/M		= 16.582 kg
					711.299kg
					or, 0.711M.T
12.) P/V and laying RCC M-30 grade in					
Pier-P2 Pedestal -do- all comp. job.					
	6X	0.87X	0.87X	0.250	= 1.135M^3

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
13.) S/F and Placing HYSD bar					
RB_1 & RB_2 -do- all comp. job.					
~~Ab~~ - A_2					
16 mm ϕ,	8 ×	2.49 ×	@1.58 kg/M =		31.473 kg.
32 mm ϕ,	8 ×	2.79 ×	@6.31 kg/M =		140.839 "
12 mm ϕ,	24 ×	3.98 ×	@0.89 kg/M =		85.012 "
12 mm ϕ,	24 ×	3.98 ×	@0.89 kg/M =		85.012 "
8 mm ϕ,	4 ×	23.514 ×	@0.40 kg/M =		37.622 "
25 mm ϕ,	15 ×	3.107 ×	@3.85 kg/M =		179.429 "
	15 ×	2.807 ×	@3.85 kg/M =		162.104 "
12 mm ϕ,	15 ×	4.980 ×	@0.89 kg/M =		66.483 "
	18 ×	4.570 ×	@0.89 kg/M =		73.211 "
8 mm ϕ,	3 ×	8.649 ×	@0.40 kg/M =		10.378 "
					871.563 kg
					or, 0.8724 T
14.) S/F and laying RCC M-30 grade in RB_1 and RB_2 for ~~Ab~~ - A_2 -do- all comp. job.					
RB_1 →	2 ×	0.80 ×	0.80 ×	1.05 =	$1.344\ M^3$
RB_2 →	3 ×	0.70 ×	0.37 ×	1.05 =	0.815 "
					$2.159\ M^3$
15.) S/F and Placing HYSD bar in RB_1 and RB_2 - Pier - P_2 -do- all comp. job.					

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
16 mm ϕ,	16 ×	3.44 ×	@1.58	kg/M =	86.963 kg
32 mm ϕ,	16 ×	2.94 ×	@6.31	kg/M =	296.822 "
12 mm ϕ,	24 ×	3.98 ×	@0.89	kg/M =	85.012 "
	24 ×	3.98 ×	@0.89	kg/M =	85.012 "
8 mm ϕ,	8 ×	23.514 ×	@0.40	kg/M =	75.244 "
32 mm ϕ,	20 ×	5.205 ×	@6.31	kg/M =	656.871 "
12 mm ϕ,	20 ×	6.820 ×	@0.89	kg/M =	121.396 "
	32 ×	4.865 ×	@0.89	kg/M =	138.555 "
8 mm ϕ,	8 ×	8.649 ×	@0.40	kg/M =	27.676 "
					1573.551 kg
					Or, 1.5744 T

16.) P/v and laying RCC M-30 in RB1 & RB2 Pier-P2 -do- all comp. job.

RB1 -	4 ×	0.800 ×	0.800 ×	1.050 =	2.688 kg
RB2 -	3 ×	0.740 ×	0.635 ×	1.050 =	1.480 "
					4.168 kg

17.) P/v and laying Elastomeric Bearing A1-A2 -do- all comp. job.

~~RB1 → 2 × 35.00 × 35.00 × 6.00 =~~

~~RB2 → 3 × 35.00 × 35.00 × 6.00 = 14700.00 cm³~~

RB1 - 2 × 35.00 × 35.00 × 6.00 = 14700.00 cm³

RB2 - 3 × 35.00 × 35.00 × 6.00 = 22050.00 "

36,750.00 cm³

18.) P/v and laying Elastomeric Bearing Pier-P2 -do- all comp. job.

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
RB_1 →	2×	35.00	× 35.00	× 6.00 = 14700.00 cm^3	
RB_2 →	3×	35.00	× 35.00	× 6.00 = 22050.00 "	
				36750.00 cm^3	

19.) P/V and laying POT-PTFE Bearing Ab-A_2 -do- all comp. job.

3× 250.00 = 750.00 T

20.) P/V and laying POT-PTFE Bearing. Pier-P_2 -do- all comp. job.

3× 250.00 = 750.00 T.

Comp 20/10/24 J.E

21.) S/F and Placing HYSD bar in Ab-A_2 to P_2 Main Girders and cross Girders in super-str- -do- all comp job.

Main girders.

28 mm ϕ →	18×	20.460 × @4.83 kg/M =	1778.79 kg
	10×	20.460 × @4.83 kg/M =	988.22 kg
	6×	21.928 × @4.83 kg/M =	635.47 "
	4×	20.162 × @4.83 kg/M =	389.53 "
	4×	17.862 × @4.83 kg/M =	345.09 "
	4×	15.404 × @4.83 kg/M =	297.61 "
	4×	12.944 × @4.83 kg/M =	250.07 "
	2×	21.770 × @4.83 kg/M =	210.29 "
		C.O =	4895.07 kg

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.F = 4895.07 kg		
	2×	19.162 × 4.83 kg/M = 185.10 "			
	2×	15.704 × 4.83 kg/M = 151.70 "			
16mm ϕ,	6×	19.240 × 1.58 kg/M = 182.39 "			
	6×	19.260 × 1.58 kg/M = 182.58 "			
6mm ϕ,	66×	19.260 × 0.22 kg/M = 279.65 "			
	6×	19.270 × 0.22 kg/M = 25.43 "			
10mm ϕ,	146×	8.312 × 0.62 kg/M = 752.40 "			
	36×	8.560 × 0.62 kg/M = 191.06 "			
	195×	1.558 × 0.62 kg/M = 188.36 "			
	83×	8.328 × 0.62 kg/M = 428.55 "			
	18×	8.576 × 0.62 kg/M = 95.71 "			
6mm ϕ,	65×	1.035 × 0.22 kg/M = 14.80 "			
	130×	0.750 × 0.22 kg/M = 21.45 "			
	12×	7.740 × 0.22 kg/M = 20.43 "			
Cross Girder					
16mm ϕ,	8×	3.646 × 1.58 kg/M =			46.08 "
12mm ϕ	4×	5.438 × 0.89 kg/M =			19.35 "
20mm ϕ,	6×	6.38 × 2.47 kg/M =			94.55 "
	6×	6.38 × 2.47 kg/M =			94.55 "
12mm ϕ,	4×	7.544 × 0.89 kg/M =			26.85 "
	4×	7.588 × 0.89 kg/M =			27.01 "
20mm ϕ,	4×	8.135 × 2.47 kg/M =			80.37 "
16mm ϕ,	8×	7.00 × 1.58 kg/M =			88.48 "
12mm ϕ,	20×	5.518 × 0.89 kg/M =			98.22 "
20mm ϕ,	6×	7.00 × 2.47 kg/M =			103.74 "
10mm ϕ,	24×	2.936 × 0.62 kg/M =			43.68 "
10mm ϕ,	44×	5.572 × 0.62 kg/M =			152.00 "

Continuation

C.O = 8489.56 kg

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.F=	8489.56 kg	
6mm ϕ,	24x	5.25x	0.22kg/M=	27.720kg	
	16x	2.93x	0.22kg/M=	10.314 "	
				8527.794kg	
				or, 8.528 M.T	
	Comp 26/10/24 J.E				
22.) P/L and laying RCC of-30 grade in Main girder and cross girder -Do- all comp. Job.					
	3 x	18.750x	0.300 x 1.875=		31.640M³
	4x	5.800m	0.950x 1.275=		7.395 "
					39.035M³
	Comp 02/11/24 J.E				
23.) S/F and Placing HYSD bar in Deck slab and railing -Do- all comp. Job.					
12mm ϕ,	81x	7.252x	0.89kg/M=		522.797kg
Chk 10-11-24 AE	88x	5.300x	0.89kg/M=		415.096 "
	84x	5.300x	0.89 kg/M=		396.228 "
16mm ϕ,	176x	2.325x	1.58 kg/M=		646.536 "
8mm ϕ,	156x	1.850x	0.40 kg/M=		115.440 "
	22x	19.600x	0.40kg/M =		172.480 "
			C.O=		2268.577kg

Sch. XLV-Form No.134 61

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.F =	2268.577 kg.	
Check	24×	19.512 × 0.40 kg/M =		187.315 "	
	24×	19.270 × 0.40 kg/M =		184.992 "	
	10×	19.270 × 0.40 kg/M =		77.080 "	
	10×	19.270 × 0.40 kg/M =		77.080 "	
	16×	7.700 × 0.40 kg/M =		49.280 "	
	8×	19.270 × 0.40 kg/M =		61.664 "	
	130×	1.656 × 0.40 kg/M =		86.112 "	
				2992.20 kg	
				or, 2.992 M.T.	

18/11/24 J.E

18/11/24 AE

24.> P/L and laying RCC M-30 grade in Deck Slab and railing -do- all comp. job.

1×	18.750 × 8.45 ×	(0.130 + 0.255 + 0.130) / 3		=	27.204
2×	18.750 × 0.425 × 0.225 =				3.59 "
					30.794

25/11/24 J.E

25-11-24 AE

Continuation

Sch. XLV-Form No.134 62

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	ABSTRACT OF COST.				
1/1) E/w in Excavation for foundn -do- all comp. job.					
531.47 M³ vide THB P-46					
@Rs. 205.54/M³					Rs. 1,09,238=00
2/2) P/V Service road etc -do- all comp. job.					
60.87 M³ vide THB P-46					
@Rs. 4378.01/M					Rs. 2,66,489=00
3/28) consth. of Embankment with approved Material -do- all comp. job.					
581.25 M³ vide THB P-46					
@Rs. 211.3=/M³					Rs 1,22,847=00
4/30) P/V and laying H.P NP3 -do- all comp. job.					
45.00 M vide THB P-46					
@Rs. 8142.10/M					Rs. 3,66,395=00
5/29) consth of G&B -do- all comp. job.					
28.12 M³ vide THB P-46					
@Rs. 4001.96/M³					Rs 1,12,535=00
6/8) S/F and placing HYSD bar in foundn -do- all comp. job.					
84.63 M.T vide T.M.B P-46					
@Rs. 77933.36/MT					Rs. 65,95,500=00
		C.O		Rs.	75,73,004=00

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F	—		Rs. 75,73,004=00
7/3	P/v steel liners				
	-do- all comp. job.				
	24.150 MT vide THB P-47				
	@Rs. 106707.85/MT	—			Rs. 25,76,995=00
8/4	Bored cast-in-situ				
	M-35 -do- all comp. job.				
	584.00 M vide THB P-47				
	@Rs 18,506.1/M	—			Rs. 1,08,07,568=00
9/05	Dismantling of RCC				
	Pile head -do- all				
	comp. job.				
	18.996 M^3 vide THB P-47				
	@Rs. 1588.07/M^3	—			Rs. 30,183=00
10/06	P/v and laying PCC M15				
	in levelling course				
	-do- all comp. job.				
	34.990 M^3 vide THB P-47				
	@Rs 7807.07/M^3	—			Rs. 2,73,169=00
11/07	P/v and laying RCC M35				
	in pile cap -do- all				
	comp. job				
	385.56 M^3 vide THB P-48				
	@Rs. 9188.95/M^3	—			Rs. 35,42,892=00
12/13	S/F and Placing HYSD				
	bar in Sub-Str.				
	-do- all comp. jobs.				
		C.O	—		Rs. 2,48,03,811=00

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F	———	Rs 2,48,03,811=00		
11.072 M.T	vide	TMB	P-48		
2.041 M.T	vide	TMB	P-51		
4.116 M.T	"	"	P-52		
4.116 M.T	"	"	P-53		
2.032 M.T	"	"	P-54		
0.084 M.T	"	"	P-55		
0.711 M.T	"	"	P-55		
0.872 M.T	"	"	P-56		
1.574 M.T	"	"	P-57		
26.618 M.T					
@Rs. 78,155.23/M.T		———		Rs. 20,80,336=0	
13/09> providing RCC M-30 grade in Sub-str-do-all comp. job.					
39.09 M³	vide	TMB	P-48		
30.47 "	"	"	P-52		
29.80 "	"	"	P-53		
29.80 "	"	"	P-53		
30.47 "	"	"	P-54		
0.567 "	"	"	P-55		
1.135 "	"	"	P-55		
2.159 "	"	"	P-56		
4.168 "	"	"	P-57		
167.659 M³					
@Rs. 9511.15/M³		———		Rs. 15,94,630=0	
C.O		———		Rs. 2,84,78,777=00	

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F	—	—	Rs. 2,84,78,777=00	
14/31(a) Pile load test for initial and routine load test —do- all comp. job-					
720.000 MT	vide TMB		P-48		
@Rs. 300.00/MT	—	—	—	Rs. 2,16,000=00	
15/31(b) Pile load test for Lateral load test —do- all comp. job.					
24.00 MT	vide TMB		P-49		
@Rs. 5000.00/MT	—	—	—	Rs. 1,20,000=00	
16/10 P/v and Laying Elastomeric Bearing —do- all comp. job.					
36,760=00	vide TMB		P-57		
36,750.00	"	"	P-58		
73,500.00 cm³					
@Rs. 1.00/cm³	—	—	—	Rs. 73,500=00	
17/11 P/v and fixing POT-PTFE Bearing -do- all comp. job.					
750.00 t	vide TMB		P-56		
750.00 t	"	"	P-58		
1500.00 t					
@Rs. 204.00/t	—	—	—	Rs. 3,06,000=00	
18/17 S/f and Placing HYSD bar in super-str. —do- all comp. job.					
	C.O	—	—	Rs. 2,91,94,277=00	

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F	—	—	Rs 2,91,94,277=00	
8.528 M.T	vide	TNB	P-60		
2.992 M.T	"	"	P-61		
11.520 M.T					
@Rs 78,376.94/M.T	—	—	—	Rs. 9,02,902=00	
19/16) P/V RCC M30 grade in super-structure- all comp. job.					
39.0351 M^3	vide	TNB	P-60		
30.7900 M^3	"	"	P-61		
69.8251 M^3					
@Rs. 10534.30/M^3	—	—	—	Rs. 7,35,557=00	
				Rs 3,08,32,736=00	
Add @1% labour cess	—	—	—	Rs.	3,08,327=00
Add @18% GST	—	—	—	Rs.	55,49,892=00
Add Seigo	—	—	—	Rs.	1,76,133=00
				Rs 3,68,67,088=00	
less 0.11% below (-)	—	—	—	Rs.	40,554=00
				Rs 3,68,26,534=00	
less Previous Payment (-)	—	—	—	Rs.	3,15,10,271=00
				Rs. 53,16,263=00	

25-11-24
J.E

25-11-24
A.E

Continuation