M. B. No 1453

Schedule XLV-Form No. 134

R.W.D PAKRIDAYAL DIVISION

R.W.D PHENHARA SUB-DIVISION

Purvi Champaran Jila Antargat Phenhara Prakhand Kakraniya Matharwa to Naurangiya Ghat

Measurement Book

Braj Bihari Singh

प्रमाणित किया जाता है
कि मापी पुल में मशीन संकीर्ण
100 फुट है जिसे सहायक -
अभियन्ता/ग्रामीण कार्य विभाग
कार्य अवर प्रगंडल फेफहारा के
पदनाम से निर्गत किया गया
है।

20.9.24
Executive Engineer
RWD Works Division
Pakridayal
20.9.24

Sch. XLV - Form No. 134

R.W.D PAKRIDAYA DIVISION

R.W.D PHEHARA SUB-DIVISION

Measurement Book

No.

1453

Name _____

_____

Date of first entry _____

Date of last entry _____

Record Entry

Name of Work- 1

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 No.	L.	B.	D.	Contents of area
Work —	Const	of	road		from
	Kakarahiya	Matharwa			
	to Maurangia	Ghat —			
	Under	Phenhara			Block
	in	Purvi	Champaran		Distt.
Agency —	Braj	Bihari	Singh		
	At — Khode	Nagar			
	Po —	Hema Bazar			
	Ps —	Chhatauni, Harihari			
	Distt —	East champaran			
Agreement No —	04	S.B.D/2024-25			
Date of	Start —	18.09.2024			
Date of	Completion	— 17.09.2025			
Date of	M.Bs —	28.09.24			
1/3	clearing & grubbing of				
	road land - area cft. fi				
	2 X	4	X 30.00	X 2.00	= 480.00 m2
	2 X	4	X 30.0	X 2.00	= 480.00 "
	2 X	4	X 30.0	X 2.00	= 480.00 "
	2 X	4	X 30.0	X 2.00	= 480.00 "
	2 X	4	X 30.0	X 2.00	= 480.00 "
	2 X	4	X 30.0	X 2.00	= 480.00 "

Continuation

2880.00 m2

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F	880.00 m²
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 4	X 30.00	X 2.00		= 480.00 "
2	X 1	X 20.00	X 2.00		= 80.00 "
					9200.00 m²
		=	0.92	Hect	
2/33	E/W. in Excavation				
in	foundation	...	as per	[illegible]	
Box culvert	6 Nos. X 2 m X 2 m.				
	6 X 1	X 3.50	X 7.50	X 0.65	= 102.37 m³
	6 X 4	X 2.40	X 3.88	X 1.80	= 402.27 "
					504.64 m³
3/34	Providing	P.C.C. (1:2.5:5)			
in	foundation.	...	as per	[illegible]	
6	X 1	X 2.50	X 7.50	X 0.10	= 11.25 m³
6	X 4	X 2.40	X 2.88	X 0.20	= 33.17 "

Continuation

44.42 m³

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
4/35	Providing Plain cement concrete (1:2:4) in open foundation - as per [illegible]				
6 ×	4 ×	2.00 ×	2.47 ×	0.200	= 23.71 m³
6 ×	4 ×	2.00 ×	2.375 ×	0.20	= 22.80 "
6 ×	4 ×	2.00 ×	2.27 ×	0.200	= 21.79 "
6 ×	4 ×	2.00 ×	2.17 ×	0.200	= 20.83 "
6 ×	4 ×	2.00 ×	2.07 ×	0.200	= 19.87 "
6 ×	4 ×	2.00 ×	1.97 ×	0.200	= 18.91 "
6 ×	4 ×	2.00 ×	1.87 ×	0.200	= 17.95 "
6 ×	4 ×	2.00 ×	1.77 ×	0.200	= 16.99 "
					162.85 m³
5/38	Providing plain/reinforced cement concrete (1:2:4) in slab structure as per [illegible]				
6 ×	1 ×	7.50 ×	2.50 ×	0.250	= 28.12 m³
6 ×	2 ×	7.50 ×	2.00 ×	0.250	= 45.00 "
6 ×	4 ×	2.00 ×	1.01 ×	1.78	= 86.29 "
6 ×	4 ×	2.00 ×	1.00 ×	0.075	= 3.60 "
					163.01 m³
6/39	Providing weep holes - as per Co. ft				
	6 × 30 Nos = 180 nos.				

Continuation

Sch. XLV-Form No.134 4

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7/44	S/R/F H4S2 bar				
	- do - c/f fib.				
12mm ∅ :	100 X 2.50 = 250.0 m				
	@ 0.89 kg/m = 222.50 kg				
10mm ∅ =	25 X 7.50 = 187.50 m				
	@ 0.625 kg/m = 116.25 kg				
8mm (tal)	= 20 X 2.50 = 50.00 m				
	10 X 7.50 = 75.00 m				
			125.00 m		
	@ 0.42 kg/m = 52.50 kg				
Chair 12mm =	30 X 2.50 = 75.00 m				
	@ 0.89 kg/m = 66.75 kg				
				458.00 Kg	
total steel = 458.00 Kg					
	= 0.458 MT for 1 culvert				
Hence for 6 No. =	6 X 0.458 MT				
	= 2.748 M.T				
8/43	Providing R.C.C. (M25)				
	in deck slab - -				
	- do - c/f fib.				
	6 X 1 X 7.50 X 2.50 X 0.250 = 28.12 m³				
	6 X 4 X 7.50 X 0.011 = 1.98 "				
	6 X 2 X 2.50 X 0.25 X 0.300 = 2.25 "				
					32.35 m³
9/41	Providing Back filling				
	- do - c/f fib.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6×	2 ×	6.70 ×	2.4 ×	0.20	= 32.16 m³
6+	2 ×	5.76 ×	2.4 ×	1.78	= 246.06 m³
					278.22 m³
Deduct for pillar mode					
=	~~6 × 15.50~~ =				
6+	2 ×	5.76 ×	0.60 ×	1.70	= 70.50 m³
6×	4 ×	1.40 ×	0.60 ×	2.01	= 40.52 "
					111.02 m³
Total qty. = (278.22 − 111.02) m³					
= 167.20 m³					
10/42 Providing & lay. laterite material − any					
cert. Job					
6×	2 ×	5.76 ×	0.60 ×	1.70	= 70.50 m³
6+	4 ×	1.40 ×	0.60 ×	2.01 =	40.52 "
					111.02 m³
11/45 Providing R.C.C. M25 railing − cum 4-J					
6+	2 × 2.50 m = 30.00 m.				
Sd/- 28/09/24		Sd/- 28/9/24 AE			
J.E, Phentosa					

Continuation

Ist on A/c Bill

Sch. XLV-Form No.134 6

Particulars	Details of actual measurement				Contents
	No.	L.	B.	D.	of area
Work — Const of road from Kakaradig					
Mathiwrat Maunagira Ghat					
under Phenhara Block in					
Purvi Champaran Distt.					
Agency — Braj Bihari Singh					
At — Khoda Rajpur					
P.O. — Heera Bazar					
P.S. — Chhatauni Motihari					
East Champaran.					
Agreement No — 04 SBD/2024-25					
Date of start — 18.09.2024					
Date of completion — 17.09.2025					
Date of H — 18.10.24					
H.P. Culvert					
1/33 E/W. in excavation in					
fdn. — as cp. fd					
	2×	6.45	×1.40	×1.50	= 27.09 m³
	1	×4.85	×1.53	×0.365	= 2.70 "
					29.79 m³
2/34 Providing P.C.C (1:2.5:5)					
in fdn. as cp. fd					
	2×	6.45	×1.40	×0.150	= 2.70 m³
	1×	4.93	×1.53	×0.250	= 1.88 "
Less for Pipe					4.58 m³
	1×	5.49	×(1.23)²	×0.250×0.78	= 1.63 m³
					2.95 m³

Continuation

Sch. XLV-Form No.134 7

Particulars	No.	L.	B.	D.	Contents of area
3/38	Providing plain/ reinforced				
	cement concrete (M 20)				
	in slab-staircase ...				
	complete job				
	~~2× 6.15 × 0.95~~				
	2×	6.15 ×	(0.95+0.70)/2 ×	2.58 =	26.18 m³
	2×	6.15 ×	0.400 ×	0.600 =	2.95 "
					29.13 m³
Less pipe					
	2 2×	(1.42)² ×	0.785 ×	0.622 =	1.48 "
					27.65 m³
4/36	Providing & laying R.C.C.				
	Hume pipe of 1000 mm				
	... complete job.				
	3 ×	2.50 =	7.50 m		
5/7	Excavation for road-				
	wings ... complete job.				
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 m³
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 "
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 "
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 "
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 "
	2×	4 ×	30.00 ×	0.375 ×	0.100 = 9.00 "
	2×	2 ×	30.00 ×	0.375 ×	0.100 = 4.50 "
					58.50 m³
6/16	Const of granular				
	sub-base ... complete job				

Continuation

Sch. XLV-Form No.134 8

Particulars	Details of actual measurement				Contents
	No.	L.	B.	D.	of area
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 m3
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 "
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 "
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 "
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 "
2 x	4 x	30.00 x	0.375 x	0.100 =	9.00 "
2 x	2 x	30.00 x	0.375 x	0.100 =	4.50 "
Portico Constr. & Staircase landing	1 x	12.00 x	2.50 x	0.100 =	3.00 "
	1 x	4.00 x	3.00 x	0.100 =	1.20 "
	1 x	11.00 x	3.00 x	0.100 =	~~1.68~~ 3.30 "
	1 x	6.00 x	2.80 x	0.100 =	1.68 "
	1 x	15.00 x	2.90 x	0.100 =	4.35 "
		/	/		
	1 x	10.00 x	3.50 x	0.100 =	3.50 "
	1 x	20.00 x	2.40 x	0.100 =	4.80 "
	1 x	9.00 x	2.00 x	0.100 =	1.80 "
	1 x	22.00 x	2.50 x	0.100 =	5.50 "
					87.63 m3
7/10	Const. of slab gr. &				
	Earthen shallow —			—	
	—	end	cft	plb	
5	x 30.00 x	7.00 x		0.300 =	315.00 m3
5	x 30.00 x	6.90 x		0.300 =	310.50 "
5	x 30.00 x	6.88 x		0.300 =	309.60 "
5	x 30.00 x	7.25 x		0.300 =	326.25 "
5	x 30.00 x	7.30 x		0.300 =	328.50 "
5	x 30.00 x	6.18 x		0.300 =	278.10 "

Continuation

1867.95 m3

Sch. XLV-Form No.134 9

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B F	1867.95 m³
5	30.0	7.10	0.30	=	319.50
5	30.0	7.30	0.30	=	328.50
5	30.0	6.40	0.30	=	288.00
5	30.0	6.80	0.30	=	306.00
1	20.0	7.0	0.30	=	42.00
				3	1151.95 m³
8/11	Const of				
	3	30.0	4.05	0.20	= 72.90 m³
	1	25.0	$\frac{4.05+6.0}{2}$	0.20	= 25.12
	2	30.0	4.05	0.20	= 48.60
	1	20.0	$\frac{4.05+6.5}{2}$	0.20	= 21.10
	3	30.0	4.05	0.20	= 72.90
	1	30.0	$\frac{4.05+5.5}{2}$	0.20	= 28.65
	2	30.0	4.05	0.20	= 48.60
	1	25.0	$\frac{4.05+6.5}{2}$	0.20	= 26.37
	3	30.0	4.05	0.20	= 72.90
	4	30.0	4.05	0.20	= 97.20
	1	30.0	$\frac{4.05+5.0}{2}$	0.20	= 30.15
	2	30.0	4.05	0.20	= 48.60
	1	20.0	$\frac{4.05+5.9}{2}$	0.20	= 19.90
	4	30.0	4.05	0.20	= 97.20
	5	30.0	4.05	0.20	= 121.50
	1	25.0	$\frac{4.0+6.10}{2}$	0.20	= 25.37
	4	30.0	4.05	0.20	= 97.20

Continuation.. 954.26 m³

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				BF	954.26 m³
	2 X	30.0 X	4.05 X	0.20 =	48.60 Y
	1 X	30.0 X	(4.05+6.5)/2 X	0.20 =	31.65 Y
	2 X	30.0 X	4.05 X	0.20 =	48.60 Y
	1 X	15.0 X	4.05 X	0.20 =	12.15 Y
	1 X	30.0 X	(4.05+6.5)/2 X	0.20 =	31.65 Y
					1126.91 m³
9/9	Const. of Embankment with approved material - out of pit.				
Bund (?) form					
Chainage		C/s Area	Mean Area	Length	Qty.
0.00		0.505	—	—	—
50.0		2.441	1.473	50.0	73.650
100.00		2.382	2.412	50.0	120.575
150.00		2.840	2.611	50.0	130.550
200.0		2.968	2.904	50.0	145.200
250.0		3.182	3.075	50.0	153.750
300.0		2.137	2.660	50.0	132.975
350.00		0.247	1.992	50.00	59.600
400.0		0.143	0.195	50.00	9.750
450.0		0.137	0.140	50.00	7.000
500.00		0.203	0.170	50.0	8.500
550.0		0.131	0.167	50.0	8.350
600.00		0.212	0.172	50.0	8.575
650.0		0.174	0.193	50.0	9.650
700.0		0.135	0.155	50.0	7.725
750.0		0.208	0.172	50.0	8.575

Continuation

884.375 m³

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				BP	
800·00		0.187	0.198	50·00	9.875
850·00		0.120	0.154	50·00	7.675
900·00		0.165	0.143	50·00	7.125
950·00		0.134	0.150	50·00	7.475
1000·00		0.325	0.230	50·00	11.475
1050·00		0.165	0.245	50·00	12.250
1100·00		3.028	1.597	50·00	79.825
1150·00		3.357	3.193	50·00	159.625
1200·00		2.965	3.161	50·00	158.050
1250·00		3.801	3.383	50·00	169.150
1300·00		3.586	3.694	50·00	184.675
1350·00		3.422	3.504	50·00	175.200
1400·00		2.886	3.154	50·00	157.700
1450·00		3.579	3.233	50·00	161.625
1500·00		3.703	3.641	50·00	182.050
1550·00		2.965	3.334	50·00	166.700
1600·00		3.115	3.040	50·00	152.000
1650·00		3.566	3.341	50·00	167.025
1700·00		3.374	3.450	50·00	172.500
1750·00		3.538	3.426	50·00	171.800
1800·00		3.272	3.405	50·00	170.250
1850·00		3.470	3.371	50·00	168.550
1900·00		3.451	3.461	50·00	173.025
1950·00		4.014	3.733	50·00	186.625
2000·00		4.716	4.365	50·00	218.250
2050·00		4184	4.450	50·00	222.500

Continuation → 4337.475 m

Sch. XLV-Form No.134 12

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				BR	4337.45 m³
2100.00		5.672	4.728	50.00	246.400
2150.00		5.195	5.434	50.00	271.675
2200.00		4.106	4.651	50.00	232.525
2250.00		3.489	3.798	50.00	189.875
2300.00		2.468	2.979	50.00	148.925
					5426.85 m³

18/10/24 JE Phulera

18/10/24 AE

Abstract of cost

Sch. XLV-Form No.134 13

Particulars	No.	L.	B.	D.	Contents of area
1/3 Clearing & grubbing ... and ... cft.					
T.M.B/P-2 = 0.92 Hect					
@ ₹75573.34/Hect					₹69,527 rs
2/33 E/W in Excavation in fdn. ... cft.					
T.M.B/P-2 = 504.64 m³					
T.M.B/P-6 = 29.79 m³					
534.43 m³					
@ ₹398.62/m³					₹2,13,034 rs
3/34 Providing P.C.C. (1:2.5:5) in fdn. ... cft.					
T.M.B/P-2 = 44.42 m³					
T.M.B/P-6 = 2.95 "					
47.37 m³					
@ ₹7767.08/m³					₹3,67,927 rs
4/35 Providing R.C.C. (1:2:4) in open fdn. ... cft.					
T.M.B/P-3 = 162.85 m³					
@ ₹8497.89/m³					₹13,83,881 rs
5/38 Providing plinth/... cont. (1:2:4) ... cft.					
T.M.B/P-3 = 163.01 m³					
T.M.B/P-7 = 27.65 m³					
190.66 m³					

Continuation

@ ₹9198.72/m³ → ₹17,53,828 rs

₹37,88,197 rs

Sch. XLV-Form No.134 15

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F	55,98953-00
12/36 Providing Recon Hum-					
pipe - ... C/P P					
T.H.B/P - 7 = 7.50 M					
	@ 7960.35/Rm				59,703-00
13/7 Excavation for road					
ways - ... C/P P					
T.H.B/P - 7 = 58.50 m3					
	@ 103.96/m3				6082-00
14/16 Const. of granular sub-					
base ... C/P P					
T.H.B/P - 8 = 87.63 m3					
	@ 3711.03/m3				3,25,198-00
15/10 Const. of sub grade &					
shoulder ... C/P P					
T.H.B/P - 9 = 3151.95 m3					
	@ 263.13/m3				8,29,373-00
16/11 Const. of granular sub-					
base ... C/P P					
T.H.B/P - 10 = 1126.91 m3					
	@ 3711.03/m3				41,81,977-00
17/9 Const. of Embankment -					
... C/P P					
T.H.B/P - 12 = 5426.825 m3					
	@ 176.16/m3				9,55,989-00

Continuation

C/o 1,19,57,295-00

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F 3,1	19,57,295=00
Adding					
(1) G.S.T @ 18%					2,52,313=00
(2) L-cess @ 1%					1,19,573=00
(3) Safeguard fee					
		P—	17—		1,85,694=00
				1,44	14,875=00
Less					
for Agreement 0.05 % below				(-)	7207=00
				1	44,07,668=00
			= 1,44,07,668=00		
18/10/2024			18/10/2024		
JE, Phaloora.				AE	

Continuation