प्रमाणित किया जाता है कि मापी पुस्त मे मशीन टंकीत 100 पृष्ठ है जिसे सहायक - अभियन्ता R.W.D मधुबन के पदनाम से निर्गत किया गया है।

15.7.23

Executive Engineer
RWD Works Division
Pakaridayal

15.7.23

Sch. XLV - Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 1393

Name_____

_____

Date of first entry_____

Date of last entry_____

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	3rd on A/c Bill.				
N/w:→	Const. of road and C.D				
	works from NH-104 Shiv				
	Mandir to Bandh under				
	MMGSY (NDB Brick)				
Agency:→	M/s Shivam Kumar				
	AT- Chhota Bariyarpur				
	Motihari, Chhatauni.				
Agreement no:→	12 SBD/2023-24				
D.O.S→	04.07.2023				
D.O.C→	03.07.2024				
D.O.M→	15.03.2024 to 03.06.2024				
1.) P/F working bench mark -do- all					
comp. job.					
Qty vide	TMB P-03, item-10			→	1.25 KM.
2.) P/F reference pillar -do- all comp. job.					
Qty vide	TMB P-03, item-11			→	1.25 KM.
3.) Clearing and grubbing road land					
-do- all comp. job.					
Qty vide	TMB P-03, item-12			→	0.50 Ha.
4.) Dismantling of existing str.					
-do- all comp. job.					
Qty vide	TMB P-02, item-06			→	34.66 M^3
5.) Dismantling of C.C str. -do- all comp. job.					
Qty vide	TMB P-02, item→07			→	1.20 M^3

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
6.) Dismantling of Cement concrete					
Pavements -do- all comp. job.					
Qty vide	THB	P-02,	item-08 →		24.60 M³
7.) Removing all type H.P -do- all comp. job.					
Qty. vide	THB	P-03,	item-09 →		10.00 M.
8.) Excavation for roadway					
-do- all comp. job.					
2X	5X	30X	0.525X	0.100	= 15.75 M³
2X	5X	30X	0.525X	0.100	= 15.75 "
2X	3X	30X	0.525X	0.100	= 9.45 "
2X	1X	10X	0.525X	0.100	= 1.05 "
2X	2X	30X	0.375X	0.100	= 4.50 "
2X	1X	5X	0.375X	0.100	= 0.38 "
2X	5X	30X	0.375X	0.100	= 11.25 "
2X	1X	30X	0.375X	0.100	= 2.25 "
2X	1X	25X	0.375X	0.100	= 1.87 "
					62.25 M³
9.) consⁿ of G.B					
-do- all comp. job.					
	2X	30X	4.05X	0.200	= 48.60 M³
	1X	27X	4.05X	0.200	= 21.87 "
		6X	4.05X	0.200	= 4.86 "
					75.33 M³
Qty vide	THB	P-07,	item-17 →		530.02 M³
					605.35 M³

Continuation

limit - 600.24 M³

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10.) constn. of WBM Gr-III					
-do- all comp. job.					
	2x	30x	3.75x	0.075	= 16.87 m³
	1x	27x	3.75x	0.075	= 7.59 "
					24.46 m³
Qty vide TMB P-8, item-18 →					292.74 m³
					237.20 m³
for PCC.					
Qty vide TMB P-8, item-18 →					77.37 m³
		24/03/24 J.E			25/3/24 AE
11.) constn. of subgrade & farther shoulder -do- all comp. job.					
	2x	5x	30x	0.625 x 0.160	= 30.00 m³
	2x	4x	30x	0.625 x 0.160	= 24.00 "
					54.00 m³
Qty vide TMB P-06, item-16 →					1333.31 m³
					1387.31 m³
		10/04/24			10/4/24 AE
12.) constn. of PCC -do- all comp. job.					
Qty vide TMB P-16, item-01 →					165.124 m³

Continuation

Sch. XLV-Form No.134 27

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13) consts. of Embankment with Material obtained from borrow Pits from E/W Quantity sheet:-					
CH	Area	Mean area		Dist.	volume
0	2.190	—	—	—	—
50	3.219	2.705		50	135.225 cm
100	2.582	2.901		50	145.025 "
150	3.359	2.971		50	148.525 "
200	2.248	2.804		50	140.175 "
250	2.847	2.548		50	127.375 "
265	3.456	3.152		15	47.273 "
300	0.00	0.00		35	0.00 "
350	0.00	0.00		50	0.00 "
400	0.00	0.00		50	0.00 "
420	1.071	0.00		20	0.00 "
450	1.230	1.151		30	34.515 "
500	1.040	1.135		50	56.750 "
550	3.700	2.370		50	118.500 "
600	4.113	3.907		50	195.325 "
650	1.010	2.562		50	128.075 "
700	1.055	1.033		50	51.625 "
750	1.094	1.075		50	53.725 "
800	1.183	1.139		50	56.925 "
850	0.00	0.00		50	0.00 "
890	3.771	0.00		40	0.00 "
		C.O			1439.038 cm³

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
CH	Area	Mean	area	Dist	volume
			B.F	=	1439.038 m^3
900	3.944	3.858		10	38.575 "
950	6.030	4.987		50	249.350 "
1000	5.202	5.616		50	280.800 "
1050	5.438	5.320		50	266.000 "
1100	6.119	5.779		50	288.925 "
1150	5.945	6.032		50	301.600 "
1200	6.760	6.353		50	317.625 "
1250	6.339	6.550		50	327.475 "
					3509.388 m^3
Deduction.					
GSB				→	600.244 m^3
WBM Gr-III				→	237.20 "
				→	77.37 "
Sub-grade				→	1387.31 "
PCC				→	165.124 " +162.000
					2467.244 m^3
Net E/W Qty.					
3509.388 − 2467.244 =					1042.144 m^3
13(A) → const^n of Embankment					
lead up to 1000m			-do-		all
comp. job.				→	302.224 m^3
13(B) → const^n of Embankment lead					
up to 100m			-do-		all
comp. job.				→	739.924 m^3

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
14.) Providing and applying					
Primer coat -do- all comp. job.					
	12x	$(9.80+\frac{3.75}{2})$ =			81.30 M³
		5x	30x	3.75 =	562.50 "
		5x	30x	3.75 =	562.50 "
		1x	23x	3.75 =	86.25 "
	15x	$(\frac{3.75+6.50+3.75}{3})$ =			69.99 "
		4x	30x	3.75 =	450.00 "
		1x	15x	3.75 =	56.25 "
		5x	30x	3.75 =	562.50 "
		3x	30x	3.75 =	337.50 "
	10x	$(\frac{10.00+3.75}{2})$ =			68.75 "
		2x	30x	3.75 =	225.00 "
		1x	27x	3.75 =	101.25 "
					3163.79 M³
	22/04/24 J.E			22/04/24 AE	
15.) Providing and applying back coat -do- all comp. job.					
	12x	$(9.80+\frac{3.75}{2})$ =			81.30 M³
		5x	30x	3.75 =	562.50 "
		5x	30x	3.75 =	562.50 "
		1x	23x	3.75 =	86.25 "
	15x	$(\frac{3.75+6.50+3.75}{3})$ =			69.99 "
			C.O		1362.54 M³

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F	—	=	1362.54 M³
		4 ×	30 ×	3.75 =	450.00 "
		1 ×	15 ×	3.75 =	56.25 "
		5 ×	30 ×	3.75 =	562.50 "
		3 ×	30 ×	3.75 =	337.50 "
	10 ×	$\left(\frac{10.00+3.75}{2}\right)$		=	68.75 "
		2 ×	30 ×	3.75 =	225.00 "
		1 ×	27 ×	3.75 =	101.25 "
					3163.79 M³
	23/04/24 J.E			23/4/24 AE	

16.) Providing, laying and rolling 20mm thick MSS - do - all comp. job.

	12 ×	$\left(\frac{9.80+3.75}{2}\right)$		=	81.30 M³
		5 ×	30 ×	3.75 =	562.50 "
		5 ×	30 ×	3.75 =	562.50 "
		1 ×	23 ×	3.75 =	86.25 "
	15 ×	$\left(\frac{3.75+6.50+3.75}{3}\right)$		=	69.99 "
		4 ×	30 ×	3.75 =	450.00 "
		1 ×	15 ×	3.75 =	56.25 "
		5 ×	30 ×	3.75 =	562.50 "
		3 ×	30 ×	3.75 =	337.50 "
	10 ×	$\left(\frac{10.00+3.75}{2}\right)$		=	68.75 "
		2 ×	30 ×	3.75 =	225.00 "
			C.O	— =	3062.54 M³

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.F	=	3062.54 M³
		1X	27X	3.75=	101.25 "
					3163.79 M³
	25/04/24 J.E			25/4/24 AE	
17.) Laying brick soling layer -do- all comp. job.					
	2X	5X	30X	0.500=	150.00 M²
	2X	3X	30X	0.500=	90.00 "
	2X	1X	5X	0.500=	5.00 "
	2X	5X	30X	0.375=	112.50 "
	2X	4X	30X	0.375=	90.00 "
					447.50 M²
	02/05/24 J.E			2/5/24 AE	
18.) P/F KM stone -do- all comp. job.					
				→	1.00 no.
19.) P/F 1000m stone -do- all comp. job.					
				→	6.00 nos.
20.) P/F Boundary pillar -do- all comp. job.				→	80.00 nos.
21.) P/F 600 mm Circular -do- all comp. job				→	8.00 nos.

Continuation

Sch. XLV-Form No.134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
22.) P/F 900 mm equilateral triangle					
—do— all comp. job. →					6.00 nos.
23.) P/F 600 mm x 450 mm rectangular					
—do— all comp. job. →					6.00 nos.
24.) Cable duct Across the road					
—do— all comp. job.					
		5x	7.50	=	37.50 RM
	15/05/24 J.E				15/5/24 AE
25.) Road marking with hot Applied thermoplastic compound					
—do— all comp. job.					
	2x	10x	30x	0.100 =	60.00 M²
	2x	10x	30x	0.100 =	60.00 "
	2x	10x	30x	0.100 =	60.00 "
	2x	10x	30x	0.100 =	60.00 "
	2x	1x	30x	0.100 =	6.00 "
	2x	1x	20x	0.100 =	4.00 "
		15x	3.75x	0.25 =	14.06 "
					264.06 M²
26.) Rumble strips on Bituminous Surface —do— all comp. job.					
		15x	3.75x	0.25 =	14.06 M²
		20/05/24 J.E			20/5/24 AE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
27.) Planting of trees and their Maintenance for one year -do- all comp. job. →					74.00 nos.
28.) Providing and fixing Direction and place identification signs -do- all comp. job. →					1.00 no.
29.) P/F of typical MMGSY informatory sign board with logo -do- all comp. job. →					5.00 nos
30.) E/W in Excavation for foundn of str -do- all comp. job. Qty. vide THB P-01, item-01 →					59.60 M^3
31.) Providing PCC M-15 in foundn -do- all comp. job. Qty. vide THB P-02, item-02 →					5.92 M^3
32.) Providing and laying RCC pipe NP-3 -do- all comp job. Qty. vide THB P-02, item-03 →					15.00 M
33.) PCC - M-20 in Sub-str. -do- all comp. job. Qty. vide THB P-02, item-04 →					61.20 M^3
34.) Painting two coats on new concrete surface -do- all comp. job. Qty vide THB P-02, item-05 →					84.38 M^2
35.) B/W in cement mortar (1:3) in parapet -do- all comp. job.					

Sch. XLV-Form No.134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x	5.00x	0.40x	0.60=	2.40 M³
36.> Providing PCC in coping					
-do- all comp. job.					
			2x	5.00=	10.00 M.
37.> Plastering with C.M (1:4)					
-do- all comp. job.					
		4x	5.00x	0.60=	12.00 M²
		2x	5.00x	0.40=	4.00 "
		4x	0.40x	0.60=	0.96 "
					16.96 M²
	03/06/24 J.E				

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
ABSTRACT OF COST.					
1/01 P/F bench mark					
—do— all comp. job.					
1.25 KM	vide	TMB	P-24		
@Rs. 4874.61/KM				Rs.	6093=00
2/02 P/F reference pillar					
—do— all comp. job.					
1.25 KM	vide	TMB	P-24		
@Rs. 2278.56/KM				Rs.	2848=00
3/03 Clearing and grubbing road land —do— all comp.					
0.50 Ha	vide	TMB	P-24		
@Rs. 72,697.86/Ha				Rs.	36,348=00
4/04 Dismantling of existing str					
—do— all comp. job.					
34.66 M^3	vide	TMB	P-24		
@Rs 314.04/M^3				Rs.	10,884=00
5/05 Dismantling of C.C str.					
—do— all comp. job.					
1.20 M^3	vide	TMB	P-24		
@Rs. 652.07/M^3				Rs.	782=00
6/06 Dismantling of cement concrete pavement —do— all comp. job.					
24.60 M^3	vide	TMB	P-25		
@Rs. 1780.01/M^3				Rs.	43,788=00

Continuation

C.O— Rs = 1,00,743=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F	—	Rs 1,00,743=00	
7/07 > Removing all type H.P					
—do— all comp. job					
10.00 M	vide	TMB	P-25		
@Rs. 251.23/M		—	—	Rs.	2512=00
8/08 > Excavation for roadway					
—do— all comp. job					
62.25 M^3	vide	TMB	P-25		
@Rs. 103.85/M^3		—	—	Rs.	6,464=00
9/2+17 > const^n. of GSB					
—do— all comp. job.					
600.24 M^3	vide	TMB	P-25		
@Rs. 3541.89/M^3		—	—	Rs. 21,25,984=00	
10/13+18 > const^n. of WBM Gr-III					
—do— all comp. job.					
237.20 M^3	vide	TMB	P-26		
@Rs. 4957.80/M^3		—	—	Rs. 11,75,990=00	
77.37 M^3	vide	TMB	P-26		
@Rs. 4557.80/M^3		—	—	Rs. 3,52,636=00	
11/11 > const^n. of Subgrade					
—do— all comp job.					
1387.31 M^3	vide	TMB	P-26		
@Rs. 264.23/M^3		—	—	Rs. 3,66,568=00	
12/19 > const^n. of PCC —do— all comp.					
165.124 M^3	vide	TMB	P-26		
@Rs. 9469.96/M^3		—	—	Rs 15,63,718=00	

Continuation
C.O — Rs. 56,94,615=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F	—	—	Rs. 56	94,615=00
13(A)/09 > constn. of embankment lead up to 1000m -do- all comp. job.					
302.224 M^3 vide TMB P-28					
@Rs. 258.52/M^3	—	—		Rs. 78	8,130=00
13(B)/10 > constn. of embankment lead up to 1000m -do- all comp. job.					
739.924 M^3 vide TMB P-28					
@Rs. 175.01/M^3	—	—		Rs. 1,	29,493=00
14/14 > P/A Primer coat -do- all comp. job.					
3163.794 M^2 vide TMB P-29					
@Rs. 60.00/M^2	—	—		Rs. 1,	89,828=00
15/15 > P/A Tack coat -do- all comp. job.					
3163.794 M^2 vide TMB P-30					
@Rs. 20.64/M^2	—	—		Rs.	65,301=00
16/16 > Providing, laying & rolling 20mm thick MS -do- all comp. job.					
3163.794 M^2 vide TMB P-31					
@Rs. 290.46/M^2	—	—		Rs. 9,	18,954=00
	C.O	—	—	Rs. 70,	76,321=00

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F	—	—	Rs.	70,76,321=00
17/20 Laying brick soling					
—do— all comp. job.					
447.50 M^2	vide	THB	P-31		
@Rs. 524.11/M^2		—	—	Rs.	2,34,539=00
18/21 P/F KM stone —do— all comp.					
1.00 no.	vide	THB	P-31		
@Rs. 3096.10 each		—	—	Rs.	3096=00
19/22 P/F 20mm stone —do— all comp.					
6.00 nos.	vide	THB	P-31		
@Rs. 858.83 each		—	—	Rs.	5152=00
20/23 P/F Boundary pillar					
—do— all comp. job.					
80.00 nos.	vide	THB	P-31		
@Rs. 676.38 each		—	—	Rs.	54,110=00
21/24 P/F 800mm circular					
—do— all comp. job.					
8.00 nos.	vide	THB	P-31		
@Rs. 5919.03 each		—	—	Rs.	47,352=00
22/25 P/F 900mm equilateral triangle —do— all comp. job.					
6.00 nos.	vide	THB	P-32		
@Rs. 6766.12 each		—	—	Rs.	40,596=00
23/26 P/F 600mm x 450mm rectangular					
—do— all comp. job.					
6.00 nos.	vide	THB	P-32		
@Rs. 5774.10 each		—	—	Rs.	34,644=00

Continuation

C.O — Rs. 74,95,810=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F			Rs. 74,	95,810=00
24/31 → Cable duct across the road -do- all comp.					
37.50RM	vide	TMB	P-32		
@Rs. 995.61/RM				Rs.	37,335=00
25/27+29 → Road marking with hot applied thermoplastic compound -do- all comp.					
264.06 M²	vide	TMB	P-32		
@Rs. 825.75/M²				Rs. 2,	18,047=00
26/28 → Rumble strips on bituminous surface -do- all comp. job.					
14.06 M²	vide	TMB	P-32		
@Rs. 290.46/M²				Rs.	4084=00
27/30 → Planting of trees and their maint^n for one year -do- all comp.					
74.00 nos.	vide	TMB	P-33		
@Rs. 1230.09 each				Rs.	91,026=00
28/32 → P/F direction & place identification signs -do- all comp. job.					
1.00 no.	vide	TMB	P-33		
@Rs. 14454.88 each				Rs.	14,454=00
	C.O			Rs. 78,	60,756=00

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F			Rs.	78,60,756=00
29/33 > P/F of typical MMGSY					
informatory sign board					
with Logo - do - all comp.					
5.00 nos	vide	TMB	P-33		
@Rs. 12075.73 each				Rs.	60,378=00
30/34 > E/W in excavation					
for foundn of str - do -					
all comp. job.					
59.60 M³	vide	TMB	P-33		
@Rs. 383.28/M³				Rs.	22843=00
31/35 > Providing PCC M-15					
in foundn - do - all comp.					
5.92 M³	vide	TMB	P-33		
@Rs. 7558.05/M³				Rs.	44,743=00
32/36 > Providing and laying					
RCC pipe - do - all comp.					
15.00 M	vide	TMB	P-33		
@Rs. 7635.25/M				Rs.	1,14,528=00
33/38 > PCC M-20 in sub-str.					
- do - all comp. job.					
61.20 M³	vide	TMB	P-33		
@Rs. 8977.83/M³				Rs.	5,49,443=00
	C.O			Rs.	86,52,691=00

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F		Rs.	86,52,691=00	
34/37 > Painting two coats on new concrete surface					
—do— all comp. job.					
84.38 m^2	vide	TMB	P-33		
@Rs. 127.28/m^2			Rs.		10,739=00
38/39 > B/w in cement Mortar (1:3) —do— all comp. job.					
2.40 m^3	vide	TMB	P-34		
@Rs 7301.08/m^3			Rs.		17,522=00
36/40 > Providing PCC in Coping					
—do— all comp. job.					
10.00 m	vide	TMB	P-34		
@Rs. 588.49/m			Rs.		5,884=00
37/41 > Plastering with c.m (1:4)					
—do— all comp. job.					
16.96 m^2	vide	TMB	P-34		
@Rs. 242.55/m^2			Rs.		4113=00
			Rs.	86,	90,949=00
Add @1% labour cess			Rs.		86,910=00
Add @18% GST			Rs.	15,	64,371=00
Lump sum fee			Rs.	1,	31,515=00
			Rs.	1,04,	73,745=00
less 0.49% below			(-) Rs.		51,321=00
C/O			Rs.	1,04,	22,424=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F		Rs.	1,04,	22,424=00
less Previous Payment			(-) Rs.	74,	87,739=00
			Rs.	29,	34,685=00
	03/06/24 J.E			3/6/24 AE	

Seign fee.

1.) constn. of Embankment -do- all comp. job.

1042.14 M³ x 35.01 = Rs. 36,485.32

@10% — Rs. 3649=00

2.) constn. of Subgrade -do- all comp. job.

1387.31 M³ x @Rs. 35.01 = Rs. 48,569.72

@10% — Rs. 4857=00

3.) GSB

600.24 M³ x @Rs. 829.05 = Rs. 497628.97

@10% — Rs. 49,763=00

C.O — Rs. 58,269=00

Continuation