M.M.G.57 N.D.B.BR.R.P-576-

Schedule XLV From No. 134.
BIHAR P. W.D.

M.B.N. 1758/23-24

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमण्डल DIVISION
नरकटियागंज
SUB-DIVISION

MEASUREMENT BOOK

1758

2nd & Final Bill

31

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Name of work - Const of road from Trimuhani Ghat to Narkatia.					
Agency - Sri Arbind Kr Singh					
Agreement no - 32/2023-24					
Date of start - 05.02.2024					
Date of Completion - 04.02.2025					
Record Entry					
1/(11) P/F & applying Prime Coat with emulsion					
25-1 — do —					
	18 x	30.00 x	3.25 =		2025.00
	16 x	30.00 x	3.25 =		1800.00
	1 x	13.00 x	(5.25+3.25)/2 =		76.00
	1 x	14.00 x	(6.15+3.25)/2 =		69.30
	12 x	30.00 x	3.25 =		1350.00
	7 x	30.00 x	3.25 =		787.50
	1 x	17.00 x	(6.25+3.25)/2 =		85.00
	1 x	13.00 x	(9.95+3.25)/2 =		56.55
			Total =		6249.35 m²
Sd/- 25/5/2024 J.E.					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Revised Entry					
for providing and applying primer coat on bituminous surface					
— do —					
some quantity taken from item No - 1/11 vide page - 31		—			6249.35 m²
(2/15) for laying rolling of close graded Mix premix surface — do —					
some quantity taken from item 4/11 vide page - 31		—			6249.35 m²

No. 2875/ 2024 E1

Revised Entry					
(1/8) for cost of subgrade & earthen shoulder					
2 x 28 x 30.00 x 1.93 x 0.30 = 446.88					
2 x 27 x 30.00 x 1.32 x 0.20 = 427.68					
2 x 55 x 30.00 x 1.20 x 0.075 = 297.00					
2 x 7 x 30.00 x 1.20 x 0.10 = 50.40					
2 x 1 x 28.00 x 1.20 x 0.10 = 6.72					
2 x 7 x 30.00 x 1.05 x 0.075 = 33.08					
2 x 1 x 28.00 x 1.05 x 0.075 = 4.41					
				Total =	1266.17 m²
(2/15) for laying primer coat on rolling layer on					

Continuation

Sch. XLV-Form No. 134

Particulars	No.	L	B	D	Contents of area
	-do-				
	2x	7x	30.00	x0.50 =	210.00
	2x	1x	28.00	x0.50 =	28.00
				Total =	238.00 m^2
3/(50)	P/o laying of hot applied thermoplastic compound -do-				
	2x	28	x30.00	x0.10 =	168.00
	2x	27	x30.00	x0.10 =	162.00
				Total =	330.00 m^2
4/(51)	P/o laying of hot applied thermoplastic				
	compound -do-				
	2	x7	x30.00	x0.10 =	42.00
	2	x1	x28.00	x0.10 =	5.60
				Total =	47.60 m^2
5/(52)	P/o rumble strips with MSS carpet.				
	2	x15	x3.75	x0.25 =	28.125 m^2
6/(53)	P/o rumble strips with glass beads,				
	2	x15	x3.75	x0.125 =	28.125 m^2
7/(37)	P/o laying 300 mm dia H.P.C. pipe				
	3	x3	x2.50	m =	22.50 m

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 (54)	Fig. R.C.C. M-15 grade ordinary RCC stone				02 Nos
9 (55)	Fig. R.C.C. M-15 grade foot path stone				08 Nos
10 (56)	Fig. R.C.C. M-15 grade boundary pillows -do-				28 Nos
11 (57)	Fig & fixing marble sign board				02 Nos
12 (58)	Fig & fixing marble maint. board				01 Nos
13 (58)	Fig & fixing marble logo board				01 Nos.
14 (58)	Fig & fixing 600 MM triangle board				16 Nos
15 (58)	Fig & fixing 900 MM side & logo board				02 Nos
16 (58)	Fig & fixing 600 MM circular board				04 Nos
17 (59)	Fig & fixing 600 x 400 MM rectangular board				04 Nos
18 (54)	Plumbing at street fire manifold -do-				83 Nos.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Earthwork Quantity				
Ch.	D	Avg	Mean Avg		volume
0	0	1.572	—		—
50	50	1.430	1.501		75.050
100	50	1.752	1.591		79.550
150	50	1.639	1.696		84.725
200	50	1.522	1.581		79.025
238	38	1.522	1.522		57.836
250	12	4.850	3.186		37.632
300	50	4.289	4.520		225.975
350	50	4.048	4.169		208.425
400	50	4.572	4.310		215.500
450	50	4.857	4.715		235.725
500	50	3.726	4.392		219.575
550	50	3.965	3.946		197.275
600	50	4.319	4.142		207.100
650	50	4.141	4.230		211.500
700	50	4.383	4.262		213.100
750	50	4.480	4.432		221.575
800	50	5.778	5.129		256.450
850	50	4.935	5.357		267.825
900	50	5.074	5.005		250.225
950	50	5.061	5.068		253.375
1000	50	3.906	4.484		224.175
1050	50	4.997	4.452		222.575
1100	50	4.892	4.945		247.225
1150	50	5.126	5.009		250.425
1200	50	4.938	5.032		251.575
1250	50	4.033	4.486		224.275
1300	50	4.443	4.238		211.900

Continuation

Sch. XLV-Form No. 134

Particulars		Details of actual measurement				Contents of area
		No.	L.	B.	D.	
1350	50	4.193		4.108		215.400
1400	50	5.033		4.978		249.900
1450	50	4.082		4.755		242.250
1500	50	4.281		4.184		208.200
1550	50	4.308		4.285		214.825
1600	50	4.198		4.252		212.650
1650	50	4.631		4.415		220.225
1700	50	4.282		4.899		234.950
1750	50	4.201		4.489		224.200
1800	50	4.785		4.493		224.650
1850	50	4.676		4.231		236.525
1883	33	4.350		4.512		131.494
				Total:-		7890.812 m³

Less Crust Thickness

(i)	GSB -	1315.19 m³
(ii)	WBM GR-III	536.31 m³
(iii)	P.C.C -	144.20 m³
(iv)	Subgrade -	4551.98 m³
(v)	Box culvert -	40.85 m³
	Total:-	6588.53 m³

Net earth work quantity

= 7890.812 m³ - 6588.53 m³

= 1302.282 m³

(b) Const of embankment

lead up to 1000 m length

80% of 1302.282 m³

= 1041.83 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2/(7) Const. of embankment load upto 100 M length — Ds —					
Quty. of 1902.282 m³ = 260.46 m³					
30/5/24				30/5/24	

Abstract of cost

(1) Cost of Leveling benchmark — Ds —
1.888 KM vide Page - (23)
@ Rs 5533.73/KM — Rs 10448

2/(7) Const. of reference pillars — Ds —
1.888 KM vide Page. (23)
@ Rs 2579.41/KM — Rs 4870

3/(3) clearing & grubbing of 2000/sqm —
0.566 Hect vide Page. (23)
@ Rs 72697.86/Hect — Rs. 41142

56465

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(4) Excavation for roadway by mixing					
40.85 m³ vide Page (23)					
@ 179.66/m³			—	Rs	7339
(5) Const of embankment load from box cutting					
28.60 m³ vide Page (23)					
@ 69.45/m³			—	Rs	1986
(6) Const of embankment load up to 100 m lengths					
1041.83 m³ vide Page (35)					
@ 259.90/m³			—	Rs	270772
(7) Const of embankment load up to 100 m lengths					
260.46 m³ vide Page (37)					
@ 184.51/m³			—	Rs	48057
(8) Const of subgrade					
3285.81 m² vide Page (24)					
1266.17 m² vide Page (32)					
4551.98 m²					
@ 263.44/m²			—	Rs	1199124
(9) Const of G.S.B by well graded material.					
1315.19 m³ vide Page (24)					
@ 4366.96/m³			—	Rs	5743382

Continuation

7327185

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
10/(10) S/L laying spreading & compacting WMM					
— do —					
536.31 m³ vide page (30)					
@ 5703.70/m³			—	Rs	3059050
11/(11) P/L & applying prime coat emulsion SS-1					
6249.35 m² vide page (31)					
@ 59.83/m²			—	Rs	374911
12/(12) P/L & applying tack coat emulsion RS-1					
6249.35 m² vide page (32)					
@ 20.56/m²			—	Rs	128487
13/(13) P/L laying of close graded mixed surface					
6249.35 m² vide page (32)					
@ 305.97/m²			—	Rs	1912114
14/(14) S/L concrete of unreinforced P.C.C M-30 grade — do —					
144.20 m³ vide page (24)					
@ 9994.27/m³			—	Rs	1441174
15/(15) S/L laying brick soling layer on subgrade					
238.00 m² vide page (33)					
@ 483.31/m²			—	Rs	115028
16/(16) Earth work in excavation in foundation — do —					
111.54 m³ vide page (23)					
@ 410.66/m³			Continuation	Rs	45805

14403084

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
8) P/L P.C.C. M-10 in foundation -do-					
7.90 m³ vide page (26)					
@ 914.70/m³ ——— Rs					7226/-
16/(18) P/L R.C.C. M-15 grade in foundation -do-					
33.27 m³ vide page (25)					
@ 8699.80/m³ ——— Rs					289442
17/(19) P/L R.C.C. M-15 grade in substructure —					
20.06 m³ vide page (25)					
@ 8990.89/m³ ——— Rs					180357
20/(22) Supplying fitting placing HYSD bar -do-					
0.393 MT vide page (25)					
@ 89705.86/MT ——— Rs					35254
21/(21) Backfilling behind abutment -do-					
18.51 m³ vide page (25)					
@ 957.11/m³ ——— Rs.					17707
22/(22) P/L weep hole in abutment -do-					
32 Nos vide page (26)					
@ 157.38/each ——— Rs					5036
22/(23) P/L R.C.C. M-25 in substructure -do-					
9.97 m³ vide page (26)					
@ 10211.94/m³ ——— Rs					102017

Continuation

15/05/48

Sch. XLV-Form No. 134

Particulars	No.	L.	B.	D.	Contents of area
24/(27) P/L supplying fitting & placing HYSD for					
1.179 MT vide Page-(26)					
@ 85715.85/MT				Rs	101059
25/(28) P/L laying filter media — do —					
17.984 m³ vide Page-(26)					
@ 4785.53/m³				Rs	95634
26/(28) P/L Drainage spouts — do —					
04 No vide Page-(26)					
@ 854.55/each				Rs	3418
27/(29) P/L R.C.C M-25 grade in super structure —					
4.09 m³ vide Page-(26)					
@ 11041.23/m³				Rs	45159
28/(30) P/L Const of R.C.C railings — do —					
5.00 M vide Page-(26)					
@ 6671.40/M				Rs	33357
29/(30) Earthwork in excavation for foundation — do —					
55.99 m³ vide Page-(27)					
@ 383.28/m³				Rs	21460
30/(31) P/L P.C.C M-10 in foundation — do —					
5.34 m³ vide Page-(27)					
@ 8809.54/m³				Rs	47043

Continuation

15452278

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
33)	P/r R.C.C M-15 Grade				
	in foundation				
49.02 m³	mode	Page (27)			
@ 8363.43/m³			—	Rs	409925
32/35)	P/r laying down M-15				
	R/c R.C.C Pipe				
15.00 M	mode	Page (27)			
@ 7603.90/M			—	Rs	114119
29/34)	P/r P.C.C M-20				
	Grade in foundation				
5.22 m³	mode	Page (27)			
@ 9108.53/m³			—	Rs	47547

34/33)	P/r	Brick filling behind			
		abutment — do —			
66.77 m³	mode	Page (28)			
@ 906.29/m³			—	Rs	60513
35/36)	Brick masonry work				
	in foundation — do —				
5.96 m³	mode	Page (28)			
@ 7012.96/m³			—	Rs	41792
31/37)	Plastering with cement				
	on brick work —				
66.60 m²	mode	Page (28)			
@ 250.16/m²			—	Rs	16611
					1614280

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
32 (33) Plr & fixing Guide Post — do —					
16 Nos mode Page (28)					
@ 225.55/each				Lt	11609
33 (34) Plr laying 300 mm dia RCC Pipe — do —					
22.50 M mode Page (23)					
@ 914.94/M				Lt	20586
34 (35) Plr RCC mr15 grade					
melestone KM stone —					
02 Nos mode Page (34)					
@ 3429.25/each				Lt	6858
35 (41) Plr RCC mr15 grade					
200 M & KM stone —					
08 Nos mode Page (34)					
@ 929.56/each				Lt	7436
41 (42) Plr RCC mr15 grade					
boundary Pillars —					
28 Nos mode Page (34)					
@ 225.55/each				Lt	20315
42 (43) Plr & fixing mmbsy					
sign board —					
02 Nos mode Page (34)					
@ 15571.04/each				Lt	31142
					1624088

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
43) Supply & fixing main board — Do —					
01 No. wide Page 34					
@ Rs. 15537.24/each				— Lt	15537
44/45) Supply & fixing main box Logo board — Do —					
01 No. wide Page. 34					
@ Rs 15537.24/each				— Lt	15537
45/47) Supply & fixing 600 MM diagonal board —					
16 No. wide Page 34					
@ Rs 4799.24/each				— Lt	76796
46/47) Supply & fixing 900 MM wide octagon board					
02 Nos — wide Page — 34					
@ Rs 10689.53/each				— Lt	21379
47/48) Supply & fixing 600 MM circular board —					
04 No. wide Page 34					
@ Rs 6155.28/each				— Lt	24621
48/49) Supply & fixing 600×450 MM rectangular board — Do —					
04 No. wide Page 34					
@ Rs 6100.98/each				— Lt	24404

Continuation

16419131

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
47 (50) P/F & laying hot applied thermoplastic compound					
390.00 m² wide Page (29)					
@ 838.91/m²				— @	327240
50 (51) P/F laying hot applied thermoplastic compound					
47.60 m² wide Page (33)					
@ 937.22/m²				— @	44614
5 (52) P/F Rumble strips					
4" M35 compact					
28.125 m² wide Page (33)					
@ 305.92/m²				— @	8605

52 (53) P/F Rumble strips				
4" thick glass beads				
28.125 M² wide Page (33)				
@ 838.91/m²			— @	23594
53 (54) Planning at dress & roadside — do —				
83 nos wide Page (34)				
@ 1303.83/each			— @	1082178
				Rs. 16881002
Add 15% P/L				@ 2532150
Add 6.00% I/C				@ 168810
Add 2% P/C				@ 252088
				Rs. 20340480
Less 18.23% below				Rs(-) 3708070
				@ 16632410
Less Premium	Payment			Rs(-) 1302648
				Rs. 36102762

Continuation

Mi 7 30/5/2024 J.C.

30/05/24 AE