Near Makar Dhibar to Dhibar

Schedule XLV—Form No. 134.

BIHAR P.W.D.

E.E. R.W.D. Work Aurangabad DIVISION

Assistant Engineer 3rd DIVISION

R.W.D. Work. Sub-Div. Kutumba

MEASUREMENT BOOK No. 2559

Satendra Mahajan

Agency - Self

Scanned with CamScanner

Certified that this M.B. contain two (one hundred) pages as printed & Stapled and Issued to Sri Baban Ram A.E. Kalyamba.

10.1.20

Executive Engineer
Rural Works Department
Works Division, Aurangaba

10/1/20

[redacted]

Schedule XLV – Form No. 134.

_____ Division.

_____ Sub-Division.

MEASUREMENT BOOK.

2559

221166

Date of first entry _____

Date of last entry _____

निशात. गवर्नमेंट प्रेस, गया।

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
	3rd & Final bill				
NFW -	construction of				road near
	Nahar	Dhibar	to	Dhibar.	
Agency -	Sri Satyendra Narayan Singh.				
Agreement No. - 05 (SBD) / 2020-21					
Date of work start - 08/06/2020					
Date of completion - 07/06/2021					
Date of entry -					
	Measurement.				
(1)	Construction of				
	G.S.B.				
	Widening on curve.				
	4 × 20 × 0.60 × 0.10 =				4.80 m³
(2)	Providing and laying				
	W.B.M. Grade I.				
	4 × 20 × 0.375 × 0.075 =				2.25 m³
(3)	Providing and applying				
	Primer coat (SS-1)				
	13 × 30 × 3.75 =				1462.50 m²
	1 × 10 × 3.75 =				37.50 m²
Widening on curve	4 × 20 × 0.375 =				30.00 m²
					1530.00 m²
(4)	Providing and applying				
	tack coat				
	13 × 30 × 3.75 =				1462.50 m²
	1 × 10 × 3.75 =				37.50 m²
	4 × 20 × 0.375 =				30.00 m²
					1530.00 m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(5)	Providing and laying				
	20 mm. thick Syngasip				
	13	× 30	× 3.75	=	1462.50 sq.
	1	× 10	× 3.75	=	37.50 sq.
	4	× 20	× 0.375	=	30.00 sq.
					1530.00 sq.
(6)	Setting out pillars				
	(i) Benchmark pillar -				1 No.
	(ii) Reference pillar -				2 No.
(7)	Brick masonry work				
	in CM (1:3) in foundation.				
	2	× 6.50 × 0.40 × 0.60		=	3.12 cu.m
(8)	Providing R.C.C. M-20				
	concrete.				
	2	× 6.50 × 1		=	13.00 cu.m
(9)	Plastering with CM				
	(1:4)				
	4	× 6.50 × 0.40		=	15.60 sq.m
	2	× 6.50 × 0.40		=	5.20 sq.m
	4	× 0.40 × 0.60		=	0.96 sq.m
					21.76 sq.m
(10)	Providing and laying				
	R.C.C. pipe of 300 mm.				
	2	× 4 × 2.50		=	20.00 m
(11)	Painting on parapet				
600 mm.	wall.				
Top	2	× 3.60 × 0.40		=	2.88 sq.m
Side	4	× 3.60 × 0.60		=	8.64 sq.m
Front	4	× 0.40 × 0.60		=	0.96 sq.m
1000 mm.	Continuation				
	2	× 2 × 6.15 × 0.40		=	9.84 sq.m
	2	× 4 × 6.15 × 0.60		=	29.52 sq.m
	2	× 4 × 0.40 × 0.60		=	1.92 sq.m
					53.76 sq.m

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(12)	Construction of subgrade				
	in earthen shoulders.				
2 × 13 × 30	×	(1.182 × 0.075 + 1.388 × 0.20)			= 285.64 m³
2 × 1 × 10	×	(1.182 × 0.075 + 1.388 × 0.20)			= 7.325 m³
	(i) Less 1000 m	= 103.72 m³			292.965 m³
	(ii) Less 100 m	= 189.24 m³			
(13)	Construction of granular				
	sub-base with material				
	R/W calculation.				

Chainage.	Fill Area	Mean Area	Dist.	Fill volume.
0	4.214	—	—	—
50	4.930	4.572	50	228.600
100	5.157	5.040	50	252.000
150	5.250	5.125	50	256.25
200	4.960	5.080	50	214.000
250	4.981	4.971	50	228.55
300	4.916	4.948	50	247.40
350	4.822	4.869	50	243.45
400	4.470	4.616	50	230.800
450	3.937	4.174	50	208.700
500	3.752	3.844	50	192.20
550	3.617	3.685	50	184.20
600	3.492	3.515	50	175.75
610	3.461	3.436	10	34.360
		Total.		2698.76 m³
(b)	Deduction.			
	Subgrade & Shoulders		(-)	292.965 m³
	C.S.B.		(-)	251.60 m³
	W.B.M. (Gr-II)		-	174.99 m³
	P.C.C.	5.30	-	128.52 m³
				1850.69 m³

Continuation

(i) For 1000 m Length = 518.19 m³

(ii) For 100 m Length = 1332.38 m³

Sch. XLV-Form No. 13 19

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(14)	R.C.C. M-15 grade				
	Kitchen platform				
	(i) ordinary K.P stone				2 No.
	(ii) 2 wash stone				3 No.
(15)	Providing and fixing				
	Logo of Project				2 No.
(16)	R.C.C. M-15 grade				
	boundary pillar				32 No.
(17)	Providing & fixing				
	Traffic sign.				
	(i) 600 mm equilateral Δ				4 No.
	(ii) 800 × 600 mm rectangular				2 No.
	(iii) 600 × 450 mm rectangular				2 No.
	(iv) 900 mm Side octagon				2 No.
	(v) 600 mm circular				2 No.
(18)	Road marking with				
	hot applied thermoplastic				
	B.T surface.				
	2	13	30	0.10 =	78.00 m²
	2	1	10	0.10 =	2.00 m²
					80.00 m²
(19)	Road marking				
	C.C surface.				
	2	7	30	0.10 =	42.00 m²
(20)	P/fixing of Tree				
	by the road side				40 No.

Sunil Kumar
24/10/2020

25.11.20
AE

Continuation

20

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	ABSTRACT OF COST				
(1)	clearing and grubbing				
	grass land.				
0.43 Hec. vide T&SP-11					
	@ 5133 = 76/Hec =				21988 =0
(2)	Excavation in roadway				
	in soil (Box Cutting)				
56.25 m³ vide T&SP-11					
	@ 74=16/m³ =				4172 =0
(3)	Construction of embankment				
	with suitable material				
	deposited from roadway.				
33.75 m³ vide T&SP-11					
	@ 26=11/m³ =				884 =0
(4)	Dismantling of existing				
	structure like culvert				
	cement-concrete.				
1.80 m³. vide T&SP-12					
	@ 4.84 = 74/m³ =				873 =0
(5)	Dismantling of existing				
	structure like culvert				
	Brick masonry				
51.93 m³ vide T&SP-12					
	@ 231=77/m³ =				12036 =0
(6)	Removing all types				
	of Hyme bitumen upto				
	600 mm.				
22.50 m vide T&SP 12					
	@ 174=78/m =				3933 =0
					Continuation ₹ 43883 =0

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.S.	43883 = U
(7)	Cost in excavation for				
	formation of structure.				
75.26 m³ vide T no BP-12					
	@ 269 = 34/m³				20269 = U
(8)	Providing P.C.C. M-15				
	in open formation				
12.04 m³ vide T no 5 P-12					
	@ 5118 = 39/m³				61625 = U
(9)	Providing P.C.C. M-20				
	in Sub-structure.				
82.65 m³ vide T no P-12					
	@ 5917 = 33/m³				489067 = U
(10)	Providing and laying				
	R.C.C. NP3 H.Pipes of 600 mm dia.				
7.50 m	vide T no P-13				
	@ 1044 = 37/m				7833 = U
(11)	Providing and laying				
	R.C.C. NP3 H.Pipes of 1000 mm dia.				
15.00 m	vide T no P-13				
	@ 3821 = 54/m				57323 = U
(12)	Construction of embankment				
	with material				
	vide T no P-18				
	(i) For 1000 m lead				
518.19 m³	@ Rs. 174 = 94/m³				90652 = U
	(ii) For 100 m lead				
1332.54 m³	@ 131 = 03/m³				174577 = U
				t.	945229 = U

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F.S.		
(13)	Construction of				
	G.I. & B.				
246.95	m²	side		13	
4.80	m²	side		16	
251.75	m²				
Grand Total -	251.60	m²			
	@ 2743 =			₹/m²	= 690315 =
(14)	Providing				
	M 15	grade	P.	III	
172.74	m²	side		13	
2.25	m²	side		16	
174.99	m²	@ 3886 =		₹/m²	= 680137 =
(15)	cement	concrete			
	pavement			30	
128.52	m²	side		13	
	@ 6425 =			₹/m²	= 825840 =
(16)	Providing	and	fixing		
	of	Logo	of	project.	
2	Nos.	side		14	
2	Nos.	side		19	
4	Nos.	@ 9329 =		₹	= 37316 = 00
(17)	Providing	and	applying		
	paint	coat	(SS-1)		
1530.00	m²	side		16	
	@ 45 =			₹/m²	= 69080 =
(18)	Providing	and	applying	of	
	Acrylic	coat			
1530.00	m²	side		16	
	@ 15 =			₹/m²	= 23486 =
					327/403 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
B.F.B.					
(19) Providing and laying of mix seal surfacing.					
1530.00 m² vide TMB p. 17					
@ 208=94/m² —					319678=00
(20) Setting out pillars.					
vide TMB p-17					
(i) Benchmark pillar.					
1 no. @ 4020=00/e —					4020=00
(ii) Reference pillar					
2 nos. @ 1828=95/e —					3658=00
(21) Construction of subgrade and earthen shoulders.					
vide TMB p-18					
(i) lead 1000 m					
103.72 m³ @ 176=58/m³ —					18315=00
(ii) lead 150 m					
189.24 m³ @ 141=17/m³ —					26715=00
~~(22) Brick masonry work~~					
~~C.M. (1:3) = parapet.~~					
~~3.24 m³ vide TMB p. 17~~					
~~@~~					
(22) Providing and laying of R.C.C. pipe of 300 mm.					
20.00 m vide TMB p. 17					
@ 908=36/m —					18167=00
(23) Painting on parapet walls.					
53.76 m² vide TMB p. 17					
@ 97=19/m² —					5225=00

Continuation r. 366718=00

Sch. XLV-Form No. 134 24

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.R.	
(24) R.C.C. M-15 grade					
Kilometer stone.					
vide TNSB P.19					
(i) ordinary Km stone.					
2 Nos. @ 2107=37/e					4216=V
(ii) 200 m stone.					
3 Nos. @ 573=80/e					1721=V
(25) R.C.C. M-15 grade					
boundary pillar.					
32 Nos. vide TNSB P.19					
@ 473=42/e					15149=V
(26) Providing and fixing					
Traffic sign					
vide TNSB P.19					
(i) 600 mm equilateral Δ					
4 Nos. @ 3719=83/e					14879=V
(ii) 800x600 mm rectangular.					
2 Nos. @ 6964=72/e					13929=V
(iii) 600x450 mm rectangular.					
2 Nos @ 4861=53/e					₹ 9723=V
(iv) 900 mm side octagon					
2 Nos. @ 8887=62/e					17775=V
(v) 600 mm circular.					
2 Nos. @ 4991=75/e					9984=V
(27) Road marking paint hot					
applied (B.T. Surface)					
80.00 m² vide TNSB P.19					
@ 735=44/m²					58835=V

Continuation ₹ 381339 2=V

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
B.F.B.					
(28) Road marking					
C.C. surface.					
42.02 m² vide TMB P. 19					
@ 821=29/m² =					34494=00
(29) planting of Tree					
by the road side.					
40 Nos. vide TMB P. 19					
@ 815=26/- — =					32610=00
₹.					3880496=00
Add 12% GST =					465660=00
1% L.cess =					38805=00
₹.					4384961=00
Less 10% (As per agte) (-) ₹					438496=00
₹.					3946465=00
Less previous payment (-) ₹.					3114218=00
₹.					8,32,247=00

Sunil Kumar 22/10/2020 JE

[signature] 3.11.20 A.E

C&P

[signature] 7/11/2020