

560/91221
Sisamra yaddan Tolga To. Mayga Giron
Schedule XLV-Form No. 134
CHAUBE Tolga. (NDB)

2
3821104
DIVISION

461541
SUB-DIVISION

1/2 Rudra Enterprises

MEASUREMENT BOOK

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22/9 23/9 24/9 25/9 26/9

Further Measurement

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of Measurement:	-7.2.2023				
Details of work done:	-				
(1/48) Pronding and applying Primer-coat with bitumen Emulsion (SSI) etc all complete job.					
60 to 452M	1x10.00M	$(7.90+3.75)/2$		=	58.25 M ²
"	14x30.00M	x 3.75M		=	1575.00 M ²
"	1x22.00M	x 3.75M		=	82.50 "
957M to 1341M	12x30.00M	x 3.75M		=	1350.00 "
"	1x24.00M	x 3.75M		=	90.00 "
1456M to 1898M	14x30.00M	x 3.75M		=	1575.00 "
"	1x22.00M	x 3.75M		=	82.50 "
Link	1x10M	$(8.60+3.75)/2$		=	61.75 "
"	4x30.00M	x 3.75M		=	450.00 "
"	1x21.00M	x 3.75M		=	78.75 "
		Total → 5403.75 M ²			
		Limited to 5378.25 M ²			
(2/43) # Construction of Subgrade & Earthen Shoulders etc all complete job.					
B.T. road portion.	15x30.00M	x 7.50M x 0.30M		=	1012.50 M ³
"	12x30.00M	x 7.50M x 0.30M		=	810.00 "
"	1x24.00M	x 7.50M x 0.30M		=	54.00 "
"	14x30.00M	x 7.50M x 0.30M		=	945.00 "
"	1x22.00M	x 7.50M x 0.30M		=	49.50 "
		Total → 2871.00 M ³			
		Limited to 2821.50 M ³			
		7/20/23			
		AD			

Continuation

Further Measurement

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of Measurement:					9.2.2023
Details of work done:					
(49) Providing and applying Tack coat with bitumen Emulsion (RS ₁) etc all complete job.					
00 to 452m	1x	10.00m	(7.90 + 3.75)m		= 58.75m ²
"	14x	30.00m	x 3.75m		= 1575.00 "
"	1x	22.00m	x 3.75m		= 82.50 "
957 to 1341m	12x	30.00m	x 3.75m		= 1350.00 "
"	1x	24.00m	x 3.75m		= 90.00 "
1456 to 1898m	14x	30.00m	x 3.75m		= 1575.00 "
"	1x	22.00m	x 3.75m		= 82.50 "
Link.	1x	10.00m	(8.60 + 3.75)m		= 61.75 "
"	4x	30.00m	x 3.75m		= 450.00 "
"	1x	21.00m	x 3.75m		= 78.75 "
					Total = 5403.75m ²
					Limited to 5378.25m ²
(50) Providing, laying & rolling of close graded premix surface of material of 20mm thickness etc all complete job.					
00 to 452m	1x	10.00m	(7.90 + 3.75)m		= 58.75m ²
"	14x	30.00m	x 3.75m		= 1575.00 "
"	1x	22.00m	x 3.75m		= 82.50 "
957 to 1341m	12x	30.00m	x 3.75m		= 1350.00 "
"	1x	24.00m	x 3.75m		= 90.00 "
					C.O = 3155.75m ²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>(4/43)</u> Construction of Subgrade & Earthen shoulders etc all complete job.					
In place Sides of WBM & PMC & GSB	12	30.00m	2	1.30m	$\times 0.075m = 27.75m^3$
Sides of GSB WBM & CC.	15	30.00m	2	1.49m	$\times 0.20m = 268.20m^3$
"	16	30.00m	2	1.51m	$\times 0.175m = 485.61m^3$ $0.385m$
"	17	25.00m	2	1.51m	$\times 0.385m = 25.29m^3$
Sides of GSB WBM & PMC	12	30.00m	2	1.30m	$\times 0.075m = 70.20m^3$
"	14	24.00m	2	1.285m	$\times 0.075m = 4.66m^3$
"	12	30.00m	2	1.49m	$\times 0.20m = 214.56m^3$
"	14	24.00m	2	1.49m	$\times 0.28m = 14.30m^3$
Sides of GSB WBM & CC.	3	30.00m	2	1.51m	$\times 0.385m = 91.05m^3$
"	17	25.00m	2	1.51m	$\times 0.385m = 25.29m^3$
Sides of GSB WBM & PMC	14	30.00m	2	1.285m	$\times 0.075m = 81.58m^3$
"	14	22.00m	2	1.285m	$\times 0.075m = 4.27m^3$
Sides of GSB	14	30.00m	2	1.49m	$\times 0.20m = 250.32m^3$
"	14	22.00m	2	1.49m	$\times 0.28m = 13.11m^3$
Link. Sides of GSB WBM & PMC	5	30.00m	2	1.25m	$\times 0.075m = 28.12m^3$
"	5	30.00m	2	1.49m	$\times 0.20m = 89.40m^3$
					Total $\Rightarrow 1753.71m^3$
					Qty vide TMB p-19 $\Rightarrow 2824.50m^3$
					Total $\Rightarrow 4575.21m^3$
					Limited to $4468.30m^3$
<u>(5/52)</u> RCC MIS grade km/local stone of standard design as per IRC: 8 etc all complete job.					
ord. km stone					$\rightarrow 3 \times 45$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6/53) Rec MIS grade km) local stone of standard design etc all complete job.					
200 m stone (precast) → 8 Nos.					
(7/54) Painting two coats including Primer coat etc all complete job.					
(Particulars)					
	8 x 6.20 m	1.80 m			55.80 m ²
(8/55) Bonding and applying two coats of water based cement paint to unplastered concrete surface etc all complete job.					
c.c. portion	16 x 30.00 m	2 x 0.10 m			96.00 m ²
Below road Marking	14 x 25.00 m	2 x 0.10 m			5.00 "
"	3 x 30.00 m	2 x 0.10 m			18.00 "
"	14 x 25.00 m	2 x 0.10 m			5.00 "
					Total → 124.00 m ²
(9/56) Bonding and laying of hot-applied thermoplastic compound with reflectorised glass beads etc all complete job.					
B.T Length					
(452 + 384 + 442 + 151) m					
					= 1429 m
B.T Portion Road Marking	47 x 30.00 m	2 x 0.10 m			282.00 m ²
"	1 x 19.00 m	2 x 0.10 m			3.80 "
c.c. portion (505 + 115) m	20 x 30 m	2 x 0.10 m			120.00 "
"	1 x 20 m	2 x 0.10 m			4.00 "
					Total → 409.80 m ² limited to 408 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10/57)	Providing new letters & figures etc all complete job.				→ 220 letters.
(11/58)	Providing & fixing of Typical Messy Informatory Sign Board etc all complete job.				→ 2 Nos.
(12/59)	Providing and fixing of Typical Maintenance Board etc all complete job.				→ 2 Nos.
(13/60)	Providing and fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job.				600 mm equilateral Triangle → 4 Nos.
(14/61)	Providing and fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job.				600 mm Circular → 6 Nos.
(15/62)	Providing & fixing of Retro-reflectorised sign as per IRC: 67 etc all complete job.				600 x 450 mm Rectangular → 2 Nos.
(16/63)	B/F Soling in foundation trenches etc all complete job.				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
H. Wall	4x2	6.45M	1.55M		79.98 M ²
Below Pipe	4x	5.573 5.653	1.53M		34.59 "
				Total	114.57 M ²
				limited to	114.56 M ²

(17/72)

providing cement flooring

1.5 mm thick etc all

complete job.

Top	4x2	6.15M	0.40M		19.68 M ²
Ends	4x4	0.40M	0.60M		3.84 "
Inner Sides	4x2	6.15M	0.60M		29.52 "
				Total	53.04 M ²

(18/45)

Laying brick sole layer on

prepared subgrade etc

all complete job.

C.S. road					
portion	16x	30.00M	2x0.375M		360.00 M ²
"	1x	25.00M	2x0.375M		18.75 "
1347 to 1456	3x30.00M	2x0.375M			67.50 "
	1x25.00M	2x0.375M			18.75 "
				Total	465.00 M ²

Calculation of E/W in fill up

in Road by Graph method

after taking proper levels.

Chainage (M)	C/S area (M ²)	Mean C/S area (M ²)	Dist. (M)	Bdy of fill up (M ³)
00	4.771	—	—	—
50	9.255	7.013	50	350.6573
100	4.764	7.01	50	350.475 "
150	7.405	6.085	50	304.225 "
200	8.819	8.112	50	405.60 "

C.O. → 1410.95 M³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
chainage (m)	C/S area (m ²)	Mean C/S area (m ²)	Dist. (m)		Qty of filling (m ³)
				B.F. →	1410.95 m ³
250	6.368	7.594	50		379.675 "
300	8.071	7.22	50		360.975 "
350	5.463	6.767	50		338.135 "
400	8.227	6.845	50		342.125 "
450	5.376	6.802	50		340.075 "
500	8.70	7.038	50		351.90 "
550	6.683	7.692	50		384.575 "
600	9.129	7.906	50		395.30 "
650	6.214	7.672	50		383.575 "
700	7.881	7.048	50		352.375 "
750	4.543	6.212	50		310.60 "
800	9.586	7.065	50		353.225 "
850	7.16	8.373	50		418.65 "
900	4.791	5.976	50		298.775 "
950	7.442	6.117	50		305.825 "
1000	4.485	5.964	50		298.125 "
1050	3.264	3.875	50		193.725 "
1100	7.378	5.331	50		266.55 "
1150	3.041	5.22	50		260.975 "
1200	1.472	2.257	50		112.825 "
1250	1.553	1.513	50		75.625 "
1300	1.353	1.453	50		72.65 "
1350	1.676	1.515	50		75.725 "
1400	3.354	2.515	50		125.75 "
			C.D. →		8209.07543

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
chainage (M)	CS area (M ²)	mean CS area (M ²)	Dist. (M)		Qty of filling (M ³)
				B.F ³	8209.075 M ³
1450	3.241	3.298	50		164.875 "
1500	5.501	4.371	50		218.55 "
1550	4.325	4.938	50		246.90 "
1600	4.217	4.296	50		214.80 "
1650	4.014	4.116	50		205.775 "
1700	3.937	3.976	50		198.775 "
1750	4.61	4.274	50		213.675 "
1800	5.222	4.916	50		245.80 "
1850	5.151	5.187	50		259.325 "
1900	1.813	3.482	50		174.10 "
1950	2.935	2.374	50		118.70 "
2000	2.818	2.877	50		143.825 "
2040	2.804	2.811	40		112.44 "
Including const → Total →					10726.65 M ³
Deduction :-					
Sub-grade →					4468.30 M ³
Excavation from roadway					29.39 "
Brick edge soling →					58.125 "
G.S. B →					1291.93 "
WBM G.3 →					579.50 "
c.c. Pavement →					375.72 "
Total deduct					6802.965 M ³
Hence Qty of filling =					10726.615 -
					6802.965 = 3923.65 M ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{19}{42}$	Construction of Embankment with material obtained from 1000m lead etc all complete job.				
	Qty wide TMB P-27 $\Rightarrow 3923.65m^3$				
$\frac{20}{64}$	Planting of Trees and their maintenance for one year etc all complete job				
	$\rightarrow 70 \times 10.$				
	9/2/2023 25 19/12/23 AS				

3rd on A/c Bill

ABSTRACT OF COST

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:-	Construction of road from				
	Siswa Yadav tola to Naya gaon				
	Chambe tola under mssy				
Block:-	Paharpur				
Agency:-	M/s Rudra Enterprises				
At P.O.:-	Belwanwa, P.S. - Motihari				
Dist:-	East Champaran.				
Agreement No:-	05 SBD/2021-22				
Date of start:-	04-3-2022				
Time of completion:-	03-03-2023				
ADOC:-	-				
Details of work done:-					
(1/39)	Construction of Reference				
	2 working Bench Mark				
	etc all complete job.				
2.265 km	vide	TMB	P-15		
	@	58/0.71/km	=	13161200	
(2/40)	Construction of Ref. Pillars/				
	Burgies etc all complete				
	job.				
2.265 km	vide	TMB	P-15		
	@	3201 = 23/km	=	7251200	
(3/41)	clearing and grubbing				
	road land etc all comp-				
	lete job.				
0.68 Hec	vide	TMB	P-15		
	@	52970.34/Hec	=	36020200	
	C.O. = 56432200				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				13.17	56,432 = ∞
(4/42) Construction of Embankment with material obtained from 1000m Lead etc all complete job.	3923.65 M ³	vide TMB P-27			
		@ 190.07/M ³		= 16	7,45,768 = ∞
(5/43) Construction of Subgrade and Earthen shoulders etc all complete job.	4468.30 M ³	vide TMB P-22			
		@ 191.76/M ³		= 16	8,56,841 = ∞
(6/44) Excavation for roadway in soil using mechanical means etc all complete job.	29,39 M ³	vide TMB P-15			
		@ 75.57/M ³		= 16	2,221 = ∞
(7/45) Laying bridge soleing layer on prepared subgrade etc all complete job.	465.00 M ²	Vide TMB P-25			
		@ 478.45/M ²		= 16	2,22,479 = ∞
(8/46) Construction of GSB etc all complete job.	1291.93 M ³	vide TMB P-15			
		@ 3136.41/M ³		= 16	40,52,022 = ∞
C-0					59,35,763 = ∞

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. = 1659,35,763 = w
(9/47)					Providing, laying, spreading and compacting stone aggregates of specific sizes to W.B.M.C.3 specification etc. all complete job.
579.50 m ³	38				vide TMB P-15
					@ Rs 3851.88/m ³ = Rs 22,32,164 = w
(10/48)					Providing and applying primer coat etc. all complete job.
5378.25 m ²					vide TMB P-19
					@ Rs 41.09/m ² = Rs 2,20,992 = w
(11/49)					Providing and applying tack coat etc. all complete job.
5378.25 m ²					vide TMB P-20
					@ Rs 14.03/m ² = Rs 75,457 = w
(12/50)					Providing, laying and rolling of close graded premix surfacing material of 20mm thickness etc. all complete job.
5378.25 m ²					vide TMB P-21
					@ Rs 202.61/m ² = Rs 10,89,687 = w
					C.O. = Rs 95,54,063 = w

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F.	695.54063 = ∞
(13/51)	Construction of unreinforced plain cement concrete pavement m/s grade etc all complete job.				
375.72 m ³	Vide	TMB	P-21		
	@	7251.97/m ³		=	27,24,710 = ∞
(14/52)	RCC m/s grade km/local stone of standard design etc all complete job.				
		Ord. km stone			
3 Nos.	Vide	TMB	P-22		
	@	2567.85 Each	=		7,704 = ∞
(15/53)	RCC m/s grade km/local stone of standard design etc all complete job.				
		200 m stone (Precast)			
8 Nos.	Vide	TMB	P-23		
	@	661.67 Each	=		5,293 = ∞
(16/54)	Painting two coats including primer coat etc all complete job.				
55.80 m ²	Vide	TMB	P-23		
	@	101.40/m ²	=		5,658 = ∞
				C.O.	1,22,97,428 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF → 1,22,97,428.20
(17/55)	Providing and applying two coats of water-based cement paint etc all complete job.				
124.00 M ²	vide	TMB	P-23		
		@ Rs 93.20/M ²		= Rs 11,557.00	
(18/56)	Providing and laying of hot applied thermoplastic compound etc all complete job.				
408.00 M ²	vide	TMB	P-23		
		@ Rs 721.95/M ²		= Rs 2,94,556.00	
(19/57)	Printing new letters and figures etc all complete job.				
220 letters.	vide	TMB	P-24		
		@ Rs 0.54/cmt/letters		= Rs 119.00	
(20/58)	Providing & fixing of Typical messy Informatory Sign Board etc all complete job.				
2 Nos.	vide	TMB	P-24		
		@ Rs 13065.75 Each		= Rs 26,132.00	
(21/59)	Prov. & fixing of Typical Maintenance Board etc				
2 Nos.	vide	TMB	P-24		
		@ Rs 13065.75 Each		= Rs 26,132.00	
					C-07 Rs 1,26,55,924.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				$\frac{1}{2} P \times b$	126,55924 =
(22/60)	Prov. & fixing of Retro-reflectorisid sign as per IRC:67 etc all complete job. 600mm Equilateral Triangle				
	4 NOS.	vide TMB	P-24		
				@ Rs 3549.38 Each =	14,198 =
(23/61)	Prov. & fixing of Retro-reflectorisid sign as per IRC:67 etc all complete job. 600mm Circular				
	6 NOS.	vide TMB	P-24		
				@ Rs 4799.01 Each =	28,794 =
(24/62)	Prov. & fixing of Retro-reflectorisid sign as per IRC:67 etc all complete job. 600 x 450 mm Rectangular				
	2 NOS.	vide TMB	P-24		
				@ Rs 4103.98 Each =	8208 =
(25/64)	Planting of Trees & their maintenance for one year etc all comp. job.				
	70 NOS.	vide TMB	P-28		
				@ Rs 844.59 Each =	59,121 =
				C.O =	59,121 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F. = 161,	27,66,245 = ∞
(26/65)					
					spw in excavation for
					foundation of structures
					etc all complete job.
150.48 M ³		vide TMB	P-15		
		@ Rs	279.09/M ³	= Rs	41,997 = ∞
(27/66)					
					sand filling in foundation
					trenches etc all comp-
					lete job.
11.42 M ³		vide TMB	P-16		
		@ Rs	442.50/M ³	= Rs	5053 = ∞
(28/67)					
					Brick flat soling in
					foundation trenches
					etc all complete job.
114.56 M ²		vide TMB	P-25		
		@ Rs	294.05/M ²	= Rs	33686 = ∞
(29/68)					
					Providing fccm/s grade
					in open foundation
					etc all complete job.
24.68 M ³		vide TMB	P-16		
		@ Rs	6308.85/M ³	= Rs	1,55,702 = ∞
(30/69)					
					Brick masonry work
					in cm (1:4) in Head -
					wall etc all comp. job.
106.10 M ³		vide TMB	P-16		
Limit > 106.04 M ³		@ Rs	5777.92/M ³	= Rs	6,12,691 = ∞
					C. 10301, 361, 374 = ∞

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