Name of work – Karigidhi Yadav Tola To Karigidhi ~~Chalaoji~~ Mahadalit Tola

MMGSY (SC)

Shedule XLV Form No. 134.

Agency – Sri Sarwan Kr. Singh

Executive Engineer
R.W.D. Works Division
Rajauli

DIVISION

Sirdala

SUB-DIVISION

Measurement Book

M.B. NO 1040

Name of work :
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 measurements relating to each work.)

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1st on A/C Bill				
Name of work:-	Construction of road from Karigidhi yadav tola to Karigidhi Mahadalit tola under MMGSY.				
Agency:-	Sri Bhagwan ka Singh vill- Amsi, P.O. Sohaipur, P.S. Mufassil, Gaya.				
Agr. No.	62/SBD/MMGSY/2020-21.				
Date of commencement	25.9.2020				
Date of completion as per agr.	24.9.21.				
Date of entry:-	5.4.21.				
It No. 1/1	Providing and fixing working Benchmark ---- do ch. apte				2 Nos.
It No. 2/2.	Providing and fixing reference pillar ---- do ch. Nh				5 Nos.
It No. 3/3.	Clearing and grubbing road land				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	----- tech. spec.				
	43x	30.0	x2.00	=	2580.0m²
	1x	20.0	x2.00	=	40.0m²
	4x	30.00	x2.00	=	240.0m²
	1x	20.0	x2.00	=	40.0m²
					2900.0m²
					=0.29H
It No. 4/16.	Providing and fixing typical MMGSY Board ... tech. spec.				2 Nos

[signature] 5.4.21 [signature] 05/04/21 A.E.

Particulars	No.	L.	B.	D.	Contents of area
It No. 5/26.	E/W excavation for structure ----- tech. spec.				
600 mm dia pipe - 4 Nos					
	4x2x	3.90	x1.15	x1.50	= 53.82
	4x1x	5.35	x1.13	x0.365	= 8.83
1000 mm dia pipe - 1 No.					
	1x2x	6.45	x1.40	x1.50	= 27.09
	1x1x	4.85	x1.53	x0.365	= 2.71
					92.45m³
It No. 6/27.	Providing PCC M15 in foundⁿ ---- ---. tech. spec.				

Continuation

Sch. XLV Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
600 mm dia HPC.					
	4x2x	2.90 x	1.15 x	0.15 =	5.38 m³
	4x1x	5.31 x	1.13 x	0.25 =	6.00 m³
1000 mm dia HPC.					
	1x2x	6.45 x	1.40 x	0.15 =	2.71 m³
	1x1x	4.93 x	1.53 x	0.25 =	1.89 m³
					15.98 m³
It No. 7/28. Providing PCC M20 in Substructure ---- Sch. ...					
600 mm dia H.P. culvert:-					
	4x2x	3.60 x	0.70 x	2.78 =	56.04 m³
	4x2x	3.60 x	0.40 x	0.60 =	6.91 m³
					62.95 m³
Less for pipe	4x2x	$\frac{\pi}{4}$ x (0.83)²	x 0.53 =		(-) 2.30 m³
					60.65 m³
1000 mm dia HP culvert:-					
	1x2x	6.15 x	0.825 x	3.18 =	32.27 m³
	1x2x	6.15 x	0.40 x	0.60 =	2.95 m³
Less for pipe	1x2x	$\frac{\pi}{4}$ x (1.23)²	x 0.622 =		(-) 1.48 m³
					94.39 m³
It No. 8/30,31	Providing and laying RCC NP3 Hume pipe -- 1				

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(i) 600mm dia:-					
	4×3×2.50m			=	30.0m
(ii) 1000mm dia:-					
	1×3×2.50m			=	7.50m

I.No. 9/4.5. Construction of embankment ---

Chainage (m) | C/S Area (m²) | Mean C/S Area (m²) | Length (m) | Qty (m³)

Chainage (m)	C/S Area (m²)	Mean C/S Area (m²)	Length (m)	Qty (m³)
0 -	0		—	—
100 -	1.08	-	0.54×100.0	= 54.00
200 -	1.12	-	1.10×100.0	= 110.00
300 -	1.22	-	1.17×100.0	= 117.00
400 -	1.16	-	1.19×100.0	= 119.00
500 -	1.20	-	1.18×100.0	= 118.00
600 -	1.18	-	1.19×100.0	= 119.00
700 -	1.22	-	1.20×100.0	= 120.00
800 -	1.06	-	1.14×100.0	= 114.00
900 -	1.04	-	1.05×100.0	= 105.00
1000 -	1.02	-	1.03×100.0	= 103.00
1100 -	1.04	-	1.03×100.0	= 103.00
1200 -	0.98	-	1.01×100.0	= 101.00
1300 -	0.86	-	0.92×100.0	= 92.00
				1375.00 m³

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Co of area
Link:-				BT	1375.00m³
0 -	0.82	-	0.93	x100.0 =	93.00
100 -	1.04	-	0.93	x100.0 =	93.00
140 -	1.02	-	1.03	x40.0 =	41.20
					1509.20m³

(i) For 1000m lead:

0.19 x 1509.20 m³ = 286.75 m³

(ii) For 100m lead:

0.81 x 1509.20 m³ = 1222.45 m³

Sd/- 12.5.21 JE   Sd/- 12/5/21 A.E.

I No. 10/6. Construction of Subgrade ---- Mech. Ap.

For BT Surface

No.	L.	B.	D.	Qty
23	x30.00	x6.00	x0.30	= 1242.00
1	x20.00	x6.00	x0.30	= 36.00
4	x30.00	x6.00	x0.30	= 216.00
1	x20.00	x6.00	x0.30	= 36.00

For rigid Surface

No.	L.	B.	D.	Qty
18	x30.00	x4.50	x0.30	= 729.00
				2259.00m³

Sd/- 5.6.21 JE   Sd/- 5/06/21 A.E.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Sl No. 11/7	Construction of granular Subbase ------ tech spec.				
	20 x 30.00 x 4.05 x 0.20 =				486.00
	4 x 30.0 x 4.05 x 0.20 =				97.20
	18 x 30.0 x 3.75 x 0.10 =				202.50
					$785.70 m^3$
Add 1% for extra widening at curve A)					$7.86 m^3$
					$793.56 m^3$
(signature) 20.6.21		20/08/21 A.B.			

Material Statement

(i) E/W = 376820 3768.20 m^3
(ii) GSB Material = 666.54 m^3
(iii) Sand :- 355.45 m^3
(iv) Stone chips = 139.54 m^3

S.F.

(i) Earth = 3768.20 m^3 @ 34.78/m^3	Rs	131058.-
(ii) GSB = 793.56 m^3 @ 462.86/m^3	Rs	367307.-
(iii) Pcc M15 = 15.98 m^3 @ 527.00/m^3	Rs	8421.-
(iv) Pcc M20 = 94.39 m^3 @ 536.00/m^3	Rs	50593.-
	Rs	557379.-
10% S.F. =	Rs	55738/-

(signature) 20.6.21

20/08/21 A.B.

Continuation

Form No. [illegible]

Particulars	Details of actual measurement (No. / L. / B. / D.)	Contents of area
	Abstract of Cost	
It No. 1/1	Providing and fixing working Benchmark ... ... As	
	Vide M.B.P. 1	
2 Nos @ Rs 4038=77 each Rs		8078=00
It No. 2/2.	Providing and fixing Reference pillar ... ... Tech	
	Vide M.B.P. 1	
5 Nos @ Rs 1824=92 each Rs		9125=00
It No. 3/3.	Clearing and grubbing road land ... ... tech. spec.	
	Vide M.B.P. 2	
0.29 H @ Rs 51133=76/H Rs		14829=00
It No 4/4,5.	Construction of embankment ... ... tech. spec.	
	Vide M.B.P. 5.	
(i) For 1000m lead.		
286.75 m³ @ Rs 188=05/m³ Rs		53923=00
(ii) For 100 m lead.		
1222.45 m³ @ Rs 142=17/m³ Rs		173796=00

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
It No 5/6. Construction of Subgrade ---- tech. spec. V.T.M.B.P. 5.					
2259.00 m³ @ Rs 189.89/m³ Rs					428962--
It No. 6/7. Construction of granular Subbase ---- tech. sp. VT.M.B.P. 3.					
793.54 m³ @ Rs 1794.32/m³ Rs					1423885-
It No. 7/16. Providing and fixing typical MMGSY Board -- etc V.T.M.B.P. 2					
2 Nos @ Rs 9320.10 each Rs					18640=00
It No. 8/26. E/W excavation for structure --- ---- tech. sp. V.T.M.B.P 2					
92.45 m³ @ Rs 294.73/m³ Rs					27248=00
It No. 9/27 Providing PCC M15 in foundⁿ -- etc V.T.M. B.P 3					
15.98 m³ @ Rs 4421.84/m³ Rs					70661=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
It No 10/28.	Providing PCC M20 in Substructure ---- etc all V.T.M.B.P. 3				
94.39 m³ @ Rs 5153-12 / m³					Rs 486403-00
It No. 11/30, 31.	Providing and Laying RCC NP3 Pipe ----- etc V.T.M.B.P 4				
(i) 600 mm dia Pipe					
30.0 M @ Rs 1055-18 / m					Rs 31655=
(ii) 1000 mm dia pipe					
7.50 m @ Rs 3555-72 / m					Rs 26668-00
					Rs 2773873-00
Add	12% GST (+)				Rs 332865-00
Add	1% L.C. (+)				Rs 27739-00
	S.F (+)				Rs 55738-00
					Rs 3190215-00
Less	21.60 % as bargain @				Rs 689086-00
					Rs 2501129-00

[signature] 20.6.21 SO [signature] 21/6/21 A.E

Continuation