

MMWSY (GEN) S023 to Nawgondh-0.559 km

Ag. NO - 18 SB D / 2020 - 2021

Schedule XLV-Form No. 134

Sherigat

Name of Agency - Sonu Kumar DIVISION

Aras

SUB-DIVISION

1199

Measurement Book

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st item A					
2nd 4th Mangach					
2nd 4th Final Bill					

Name of the work: Const. of Road 4
 Old work 2023 to Mangach.
 under M.H.S. scheme.

Agency: Sri Sanu Kumar

Agreement No: 18/530/2020/21

dt of Comm: 19-05-2020

dt of Comp: 18-02-2020

dt of work 10-3-2020 to 04-21,
 14-4-21

Measurement & below:

(uptodate measurement)

item No (18) Construction of granular sub-
 by providing well graded material...

0 to 15.0 1x1 15.0 7.50 x 3.75
 $2 \times 0.10 = 8.43 \text{ cum}$

15.0 to 20.0 3x1 30.0 3.75 0.10 = 33.75 "

1x1 15.0 3.75 0.10 = 5.62 "

20.0 to 36.30 to 40.80 3x1 15.0 3.75 0.10 = 16.87 "

Continuation

Total 64.67 cum

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Bf =	64.67 Cum
120.0 to 363.0					
Rigid mtr	1x1	17.0	4.10 + 3.90		
			2×0.10		= 6.80 "
137 to 363.0	7x1	30.0	4.05	0.20	= 170.10 "
Flexible mtr	1x1	16.0	4.05 + 3.80		
			2×0.20		= 12.56 "
				Total =	254.13 Cum

Item No (20) provide for drying spreading and Compactly Stone Mch with...					
0 to 15.0	1x1	15.0	6.70 + 3.75		
			2×0.075		= 5.87 Cum
15.0 to 120.0	3x1	30.0	3.75	0.075	= 25.31 "
	1x1	15.0	3.75	0.075	= 4.21 "
Link 363.0 to 408.0	3x1	15.0	3.75	0.075	= 12.65 "
120.0 to 363.0	1x1	17.0	4.10 + 3.65		
			2×0.075		= 4.94 "
	7x1	30.0	3.65	0.075	= 57.48 "
	1x1	16.0	3.65 + 3.20		
			2×0.075		= 4.11 "
				Total =	114.57 Cum

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
item No (25) <u>Control of reinforcement</u>					
<u>Concrete prevent - - -</u>					
0 to 15.0					
	1x1	15.0	$\frac{6.50+3.25}{2}$	$\times 0.16 = 12.30$	
15.0 to 30.0	3x1	30.0	3.25	$0.16 = 54.0$	Cum.
	1x1	15.0	3.25	$0.16 = 9.0$	
line 36.0 to					
408.0	3x1	15.0	3.25	$0.16 = 27.0$	
Ch. 120.0 to					
137.0m	1x1	17.0	$\frac{4.10+3.65}{2}$	$\times 0.16 = 10.54$	
				Total =	112.84
					Cum
				112.84	
Ch. 10.3 to 20.4					
J.E.					
item No (21) <u>Priming and Applying Primer Coat</u>					
<u>with Bitumen Emulsion 18% - - -</u>					
137.0 to 210.0					
347.0	2x1	30.0	3.60	$= 216.0$	Sq
	1x1	30.0	$\frac{3.60+3.25}{2}$	$= 110.25$	
	2x1	30.0	3.25	$= 225.0$	
347.0 to 363.0	2x1	30.0	$\frac{3.25+3.50}{2}$	$= 217.50$	
363.0 to 410.0	1x1	16.0	$\frac{3.50+3.40}{2}$	$= 55.20$	

Continuation

Total = 823.95 Sqm

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (22) Supply & Applying Tare coat 1st 1/4th side of main Embankment Rs. 1. - -					
Area side this M.B. per No (22)					
of Prime coat =					823.9552
				Total =	823.9552
Item No (23) Supply & Rally of Close graded premix Gravel - -					
Area side this M.B. Tare coat					
Qty of application =					823.9552
				Total =	823.9552

Description

(1) Supplying fitting & laying H.T.D. line ..

8 mm pipe	1 x 180	x 1.60 m	x 0.39 kg/m	= 112.32 kg
	1 x 287	x 2.10 m	x 0.39 kg/m	= 235.05 "
	1 x 106	x 2.50	x 0.39 kg/m	= 103.35 "
15 mm pipe	1 x 5	x 30.0	x 0.62 kg/m	= 111.60 "
	1 x 12	x 30.0	x 0.62 kg/m	= 186.00 "
	1 x 12	x 30.0	x 0.62 kg/m	= 193.44 "
			Total =	

Minor

10 mm pipe	1 x 688	x 0.70	x 0.62 kg/m	= 298.59 kg
10 mm drain	1 x 5	x (30.0 + 30.0 + 260)	x 0.62 kg/m	= 266.60 "

Continuation

Total = 1506.95 kg

Add 5% for cutting & loss

(+ 75.34 kg)

Total = 1582.29 kg

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Drain Work</u>					
(1) Supplying fitting & laying 475 Dhr.					
Ring 8mm ϕ	1x225	x1.60	x0.39 kg/m	=	140.40 kg
	1x300	x1.80	x0.39 kg/m	=	210.60 "
	1x105	x2.05	x0.39 kg/m	=	83.94 "
	1x298	x2.40	x0.39 kg/m	=	278.92 "
	3x5	15.0	x0.39 kg/m	=	87.75 "
	2x5	30.0	0.39 kg/m	=	117.0 "
	2x6	30.0	0.39 kg/m	=	140.40 "
	1x8	21.0	0.39 kg/m	=	65.52 "
<u>In Cover</u>	1x930	x0.70	x0.39 kg/m	=	253.89 "
	1x2x10				
	4x6x1	30.0	0.39 kg/m	=	280.80 "
	4x1x1	6.0	0.39 kg/m	=	9.36 "
	Total =				1668.58 kg
	Sg 1.66 MT				
	Lft 1.62 MT				
Chd 08-04-2019					
J.E.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (1) Primary Gate for plain / Rebar Concrete in open foundation.					
	6x1	30.0	0.20	0.10	= 8.40 Cum
	1x1	6.0	0.20	0.10	= 0.42 ..
Wall —	2x2	30.0	0.50	0.125	= 7.50 ..
	2x3	30.0	$\frac{0.50+0.80}{2}$	$\times 0.125$	= 14.62 ..
	2x1	20.0	$\times 0.80$	0.125	= 4.0 ..
	2x1	16.0	$\frac{0.80+1.10}{2}$	$\times 0.125$	= 3.80 ..
Corner {	6x1	30.0	0.70	0.075	= 9.45 ..
	1x1	6.0	0.70	0.075	= 0.31 ..
Total =					48.50 Cum
Lfd to					40.50 Cum
Item No (1) R.C.C Mid grade K.M. Steel curdy K.M. Steel.					
	1x 2 No's				= 2 No's
					TOT = 2 No's
(iii) 200mm steel					
	1x 2 No's				= 2 No's
					TOT = 2 No's
Item No (2) primary & secondary for M.H.K.					
	1x 3 No's				= 3 No's
					TOT = 3 No's

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Item No (2)</u>	R.C.C. Measuring tape				
	1x	11 No's			11 No's
				Total	11 No's
<u>Item No (3)</u>	Brick & Laying of Retaining Wall				
	Li) 600mm C.C. Wall				
	1x	4 No's			4 No's
				Total	4 No's
	Lii) 600mm C.C. Wall of Triangle				
	1x	6 No's			6 No's
				Total	6 No's
<u>Item No (3)</u>	600x400mm Rectangular				
	1x	4 No's			4 No's
				Total	4 No's
<u>Item No (3)</u>	900mm Octagonal				
	1x	2 No's			2 No's
				Total	2 No's
<u>Item No (4)</u>	Brick & Laying of Lat				
	Applied Lat Applied Thermoplastic				
<u>1330 to 363.0</u>	7x2	30.0	0.10		= 42.00sqm
	1x2	16.0	0.10		= 3.20sqm
				Total	= 45.20sqm

[illegible]

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

Uptodate Statement

(1) E/101 → 2370.50 Cum

Cm STONE METAL: — 367.0 Cum

Cm STONE Chipp: — 158.0 Cum

Cm STONE Screening: — 28.0 Cum

Cm Coarse Sand: — 68.0 Cum

Cm local Sand: — 98.0 Cum

Lvii) Bitumen Emulsion S.S. 1 - 701.0 kg

Vide Invoice No FSI/037/2021-22 dt 7⁰¹/₂₁

Qty = 1400.0 kg.

(vii) Bitumen Emulsion S.S. 1 - 227.0 kg

Vide Invoice No FSI/037/2021-22 dt 7⁰¹/₂₁

Qty = 400.0 kg

(ix) Bitumen S.S. 1 - 1441.0 kg

Vide Invoice No 202258698000167 dt 05/04/21

Vide Invoice No 202258698000077 dt 03/04/21

(x) Waste plaster - 126.0 kg Qty = 2.496 M³

Vide Invoice No FSI/037/2021-22 dt 7⁰¹/₂₁

of Fundament Bitumen put Ld Qty 221.0 kg

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
Item No (1) Cost of Bench Mark					
(i) Cost of Reference along B.M.					
Qty vide the M.B. pres No (6)					
0.400 KM @ Rs 3684.07/KM					Rs 1474:-
Item No (2) Cost of Reference pits					
Qty vide the M.B. pres No (6)					
0.400 KM @ Rs 3684.07/KM					Rs 1474:-
Item No (3) Clay & grubby of Road bed					
included up to 12 mld.					
Qty vide the M.B. pres No (6)					
0.278 MC @ Rs 49530.51/MC					Rs 13770:-
Item No (4) Cost of embankment					
Approved Materials up to 100.0 m					
Qty vide the M.B. pres No (9)					
411.92 Cum @ Rs 181.87/Cum					Rs 74825:-
Item No (5) Cost of embankment					
Approved Materials up to 100.0 m					
Qty vide the M.B. pres No (9)					
959.99 Cum @ Rs 139.74/Cum					Rs 134149:-

Continuation

C.O.Rs 226344:-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Bf = 15	226344 =
it No (13) Construction of subgrade to earth shoulders - - -					
834.98 Cum Qty vide the H.B page No (11)					
164.61 Cum ——— do ———				(18)	
999.09 Cum @ Rs 18351/Cum — Rs 183343 =					
it No (14) Construction of granular subbase by providing 4" all grade 2.					
Qty vide the H.B page No (14)				(15)	
254.13 Cum @ Rs 1909.87/Cum Rs 485360 =					
it No (15) Provide, laying, spreading and compacting stone chert 1 1/2" - - -					
Qty vide the H.B page No (11)					
114.57 Cum @ Rs 2892.67/Cum Rs 331413 =					
it No (21) Provide & applying Prime Coat with Bitumen Emulsion - - -					
Qty vide the H.B page No (12)					
823.95 SQM @ Rs 41.68/SQM - Rs 34342 =					
it No (22) Provide & applying Tack Coat with Bitumen Emulsion - - -					
Qty vide the H.B page No (12)					
823.95 SQM @ Rs 14.31/SQM - Rs 11791 =					

Continuation

C.O.Rs 1272593 =

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					Q.F. Rs 1272573=0
Item (23) Privately designed hall & close graded ground					
Qty wide H.B. per No (12)					
823.95 cum @ Rs 176.92/cum Rs 145773=0					
Item (24) Control of underflow					
Cement concrete pump - - -					
Qty wide H.B. per No (12)					
110.86 Cum @ Rs 5883.68/cum Rs 648146=0					
Drainage					
Item (25) Privately (Calc for plan/Ref)					
Cement concrete pump - - -					
Qty wide H.B. per No (12)					
40.50 Cum @ Rs 5487.59/cum Rs 222247=0					
Item (26) Supply of fitting & pipe H.B.					
Qty wide H.B. per No (15)					
1.62 MT @ Rs 58,348.92/MT Rs 9524=0					
Item (27) Supply of Cut Gate for N.B.					
300 mm dia - - -					
Qty wide H.B. per No (12)					
20.0 cum @ Rs 692.19/cum Rs 13843=0					
Continuation					C.O. Rs 2397126=0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Barite</u>					AF = R 239126 =
<u>It is (13) R.C. (115) grade of steel</u>					
(i) ordinary steel.					
Qty vide this H.B. per lb (16)					
2 No's @ R 295216/cch					R 4914 =
(ii) 200m steel.					
Qty vide this H.B. per lb (16)					
2 No's @ R 656.28/cch					R 1314 =
<u>It is (14) Reinforced Cement (like M₁₀ grade)</u>					
Qty vide this H.B. per lb (12)					
11 No's @ R 529.68/cch					R 5826 =
<u>It is (15) primary & heavy of type of</u>					
M.H. 457 Duly sign...					
Qty vide this H.B. per lb (16)					
6000000					
3 No's @ R 116903/cch					R 33507 =
<u>It is (16) Retro Reflector. primary</u>					
& heavy of Retro Ref. Condy...					
Qty vide this H.B. per lb (12)					
(i) 60 mm dia. Circular					
4 No's @ R 4844.39/No's					R 19372 =

Continuation

C.O/R 2462064 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$Cf = Rs 2462064 \sim$
(ii) 600m equivalent P Type.					
6 No's @ Rs 3618.67/each - Rs					21712 $\sim$
(19) 600 x 450m Rectyler					
4 No's @ Rs 4709.52/each - Rs					18838 $\sim$
(viii) 900m Rectyler					
2 No's @ Rs 8400.29/each - Rs					16801 $\sim$
1 No (9) Boundary Surveying Lot A/plot					
Thermoplastic Compound -					
Qty vide this H.B. page (17)					
45.20 sqm @ Rs 736.00/sqm - Rs					33267 $\sim$
1 No (15) Boundary Surveying Lot A/plot					
Thermoplastic Compound -					
(In Reg'd. Pub)					
Qty vide this H.B. page (18)					
36.0 sqm @ Rs 748.00/sqm - Rs					26928 $\sim$
					$Total = Rs 2579610 \sim$
ded. 10% for Agent					(-) 2,57,961 $\sim$

Continuation

C.O.Rs 2,32,16,49 $\sim$

J.E