

MMGSY (SC) MBNo- 3544
Schedule XLV-Form No. 134

Goram Sasna me Raj Kumar Sah
ke Ghar se Brahmsfhan ~~Division~~ k

Conf - Santoshi singh SUB-DIVISION

MEASUREMENT BOOK

अष्टम १५५२

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W - Construction of Road with Maintenance from Gram Sacha Me Rai Kumar Shah Ke Ghar Se Badh kushan Toty Tak.					
Name of Agency - Santoshi Singh.					
Date of Start - 28.05.2020					
Date of Completion - 27.05.2021					
Date of Actual Completion - On progress					
Below = 0.10%					

	<u>Measurement</u>	
(D)	Pv and fixing of working Bench Mark Pillar etc.	
	$\Delta \times 1.0\text{ NT} = 1.0\text{ NT}$	
(2/2)	Reference pillar	
	$1 \times 4.0\text{ NT} = 4.0\text{ NT}$	
(5/3)	Cleaning & Grubbing Road land Including uprooting wild vegetation. etc.	
	$2 \times 36 \times 30.00 \times 3.5 = 7560$	
	$2 \times 1 \times 20.00 \times 3.5 = 140$	
	770042	

Continuation of $\frac{7,700}{10,000}$ (12/5/12)

$$\Rightarrow 0.77 \text{ Hec}$$

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(4/4) Dismantling of existing structures, like culverts etc					
		$2 \times 6.15 \times \left(\frac{1.4 + 0.85}{2} \right) \times 1.5 =$			20.76
		$2 \times 6.15 \times \left(\frac{0.85 + 0.40}{2} \right) \times 1.4 =$			10.76
		$2 \times 6.15 \times 0.4 \times 0.60 =$			2.95
					34.47
(5/5) Dismantling of existing structures like culverts etc					

	$2 \times 6.15 \times 1.50 \times 0.075 =$	1.38 M ³
	Limit	- 1.20 M ³

(6/6) Removing of all types of Hume pipe & stacking etc.		
	$2 \times 2 \times 2.50 =$	10.0 M

(7/7) Box Cutting		
Beside of BES for flexible Road		
	$2 \times 20 \times 30.04 \times 0.525 \times 0.10 =$	63.0
Beside of BES for Rigid Road		
	$2 \times 16 \times 30.04 \times 0.375 \times 0.10 =$	36.0

Continuation

$$2 \times 1 \times 20.04 \times 0.375 \times 0.10 = 1.50$$

$$\underline{100.50 \text{ M}^3}$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>In widening</u>					
	2	19.04	1.22	0.10	4.64 ⁹
	2	11.04	0.562	0.10	1.24 0.62 ²
<u>Ch to 30 to 300</u>					
	2	9	30.04	0.525	28.35 14.18 [✓]
	2	16.04	0.692	0.10	2.21
	2	15.04	0.675	0.10	2.03
<u>Sub</u>	2	29.04	0.525	0.10	3.05
	2	30.04	0.525	0.10	3.15
	2	30.04	0.425	0.10	2.55
	2	30.04	0.325	0.10	1.95
	2	30.04	0.338	0.10	2.03
	2	3.04	0.405	0.10	0.24
	2	20.04			
	2	20.04	0.375	0.10	1.50
	2	20.04	0.333	0.10	1.33
	2	30.04	0.333	0.10	2.0
	2	21.04	0.267	0.10	1.12
	2	21.04	0.291	0.10	1.22
	2	9.04	1.869	0.10	3.36
					61.977 ^⑥
<u>In Profile correction</u>					
	15	2.5	2.0	0.10	9.38
	10	1.10	0.6	0.1	0.66
<u>Continuation</u>					
	12	1.0	0.3	0.10	0.36
					10.40 ^⑥

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
G.S.B. in full width					
$19 \times \left(\frac{8 + 4.10 + 4.2}{3} \right) \times 0.10 =$					10.32 M^3
$11 \times \left(\frac{4.2 + 3.9}{2} \right) \times 0.10 =$					4.46 M^3
$9 \times 30.04 \times 4.05 \times 0.10 =$					109.35 M^3
$16 \times \left(\frac{3.75 + 5.10 + 4.2}{3} \right) \times 0.10 =$					4.01
$15 \times \left(\frac{4.30 + 4.40 + 3.85}{3} \right) \times 0.10 =$					6.27
$29 \times 4.05 \times 0.10 =$					11.75
$30 \times 4.05 \times 0.10 =$					12.15
$30 \times \left(\frac{4.05 + 3.80}{2} \right) \times 0.10 =$					11.78
$30 \times \left(\frac{3.80 + 3.80}{2} \right) \times 0.10 =$					11.40
$30 \times \left(\frac{3.80 + 3.85}{2} \right) \times 0.10 =$					11.48
$3 \times \left(\frac{3.85 + 4.05}{2} \right) \times 0.10 =$					1.19
$20 \times \frac{3.70 + 3.8 + 3.75}{3} \times 0.10 =$					7.50
$20 \times \left(\frac{3.60 + 3.60 + 3.80}{3} \right) \times 0.10 =$					7.31
$30 \times \left(\frac{3.80 + 3.90 + 3.30}{3} \right) \times 0.10 =$					11.01

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
21x	3.30	3.60	3.70		$\times 0.10 = 7.41$
	3				
21x	3.70	3.50	3.55		$\times 0.10 = 7.52$
	3				
9x	3.55	3.60	6.30	13.50	$\times 0.10 = 6.07$
	4				
					244.01 m^3
					— (C)
Total Qty = (A) + (B) + (C)					
= 61.97 + 10.40					
+ 244.01 = 316.38 m ³					

11/2 P/V. Laying & spreading
and compacting KIBH-63
material do to all complete job

$$19 \times \frac{(8 + 4.10 + 4.2)}{3} = 109.23$$

$$11 \times \frac{4.2 + 3.70}{2} = 44.55$$

$$30.04 \times \frac{(3.90 + 3.90)}{2} = 117.0$$

$$30.04 \times \frac{(3.90 + 3.75)}{2} = 114.75$$

$$30.04 \times \frac{(3.75 + 3.60)}{2} = 110.25$$

$$30.04 \times \frac{(3.6 + 3.75)}{2} = 110.25$$

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$20 \times \left(\frac{3.7 + 3.8 + 3.75}{3} \right) = 75.07^3$					
$20 \times \left(\frac{3.60 + 3.60 + 3.80}{3} \right) = 73.33$					
$30 \times \left(\frac{3.8 + 3.30 + 3.30}{3} \right) = 110.0$					
$21 \times \left(\frac{3.30 + 3.60 + 3.70}{3} \right) = 74.20$					
$21 \times \left(\frac{3.70 + 3.50 + 3.55}{3} \right) = 75.25$					
$9 \times \left(\frac{3.55 + 3.60 + 6.3 + 13.50}{4} \right) = 60.64$					
					2322.31 m ²

				(A)
Net Qty =	2322.31	10.075		
Unit =	170.44	m ³		
(12/29)	E/W in excavation for			
	foundation of structures etc			
	H.W -	2x6.45x1.40x1.50 =	27.09	
	Flow pipe -	1x4.85x1.53x0.365 =	2.708	
				29.798
				29.80 m ³
(12/30)	P/V M-15 (PCC 1:2:5; 5) as			
	levelling course etc			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
HW- $2 \times 6.450 \times 1.40 \times 0.150 =$					2.709
Below Pipe- $1 \times 4.931 \times 1.53 \times 0.25 =$					1.886
Less for pipe- $5 \times (1.23)^2 \times 0.25 \times 5.496 =$					$\ominus 1.633$
					<u>2.9614³</u>
 (14/31) Brick Masonry work in CM (1:4) in Head wall etc.					
HW- $2 \times 6.15 \times (1.3 + 0.350) \times 2.58 =$					26.181
Parapet- $2 \times 6.15 \times 0.40 \times 1.20 =$					5.904
Less for Pipe- $2 \times \frac{5}{8} \times (1.23)^2 \times 0.622 =$					$\ominus 1.478$
					<u>30.6074³</u>

(15/32) P/L and laying Rec Pipe NP-3
for culverts on first class
bedding etc.

$$3 \times 2.5 = 7.50 \text{ M}$$

(16/33) Plastering with CM (1:4)
on Brick work in
Sub-structures etc.

$$\text{Outer Sides} - 2 \times 6.15 \times 3.70 = 46.494$$

$$\text{Inner Sides} - 2 \times 6.150 \times 0.60 = 7.38$$

$$\text{Top} - 2 \times 6.150 \times 0.40 = 4.92$$

$$\text{Ends} - 2 \times 2 \times 0.825 \times 2.58 = 8.514$$

$$\text{Less} - 2 \times 2 \times 0.40 \times 1.20 = 1.920$$

$$\text{Less} - 2 \times \frac{5}{8} \times (1.23)^2 = \ominus 2.377$$

Continuation

$$\underline{66.8512}$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
(1) P.V. and fixing of working bench-					
mark pillars 1 nos. Qty					
VTMB P.No - (1) - 1.0 NT					
@	3883	= 27	$\frac{2}{100}$	—	3883=00
(2) Reference pillars					
Qty VTMB P.No - (1)					
4.0 Nos @ 1788.94 $\frac{2}{100}$					7156 20
(3) Clearing & Grubbing Road					
land including uprooting					
wild vegetation etc.					
Qty VTMB P.No - (1)					
— 0.77 Hec @					
49174 = 86 $\frac{2}{100}$ Hec					37865=00
(4) Dismantling of existing					
structures, like					
culverts etc.					
Qty VTMB P.No - (2)					
34.47 M ³ @					
227 = 35 $\frac{2}{100}$ M ³					7837=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7/5) Dismantling of existing structures like Culvert etc. Qty VTMB P. No. (2) 1.2 m ³ @ 470 = 565 = 50					
(7/6) Removing all types of House pipe etc. Qty VTMB P. No. (2) 10.0 m @ 168 = 1680 = 0					
(7/7) Box cutting etc. Qty VTMB P. No. (2)					
		100.50 m ³ @			
		81 = 18 2/3 m ³ —			8159 = 0
(8/8) Construction of embankment with material obtained from borrow pit for 1000 m lead etc. Qty VTMB P. No. (5) 776.25 m ³ @ 187 = 473 — 145520					
(9/9) Construction of embankment with material obtained from borrow pit for 100 m lead etc.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty VTMBS P.No- (3)					
	911.25 M ³	@ 151 = 897 $\frac{M^3}{m^2}$			138410=00
(10/10) Construction of sub-grade and earthen shoulder etc					
Qty VTMBS P.No- (10)					
	336.00 M ³	@ 230 = 792 $\frac{M^3}{m^2}$			77545=00
(11/11) Construction of G.S.B by P.V well graded material etc					
Qty VTMBS P.No- (6)					
	316.38 M ³	@			
	3115 = 403 $\frac{M^3}{m^2}$				985650=00
(12/12) P.V., laying spreading and compacting WBM-GS material do-do all complete					
Qty VTMBS P.No- (8)					
	170.44 M ³	@			
	4446 = 88 $\frac{M^3}{m^2}$				757926=00
(13/29) E/W excavation for foundation of structures etc					
Qty VTMBS P.No-					
(8)- 29.798 M ³	@				
	250 = 89 $\frac{M^3}{m^2}$				7714=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14/30) P/V concrete for plain concrete in open foundation.					
Qty VTM B P.No. - (9)					
2.96 M^3 @ 5722 = 17127					16939.00
(17/31) B.M.K. in cm (1:4) in head well complete job.					
Qty VTM B P.No. - (9)					
30.607 M^3 @ 5713 = 17504.70					17504.70
(16/32) P/V and Laying Rec pipe NP-3 for culvert on site					
Qty VTM B P.No. - (9)					
7.5M @ 4078 = 30588.00					30588.00
(7/33) Plastering with CM (1:4) on B.W. in sub-structure.					
Qty VTM B P.No. - (9)					
66.8 M^2 @ 164 = 10968.00					10968.00
(18/34) P/V 1.50MM cement punning including curing etc.					
Qty VTM B P.No. - (10)					
14.22 M^2 @ 48 = 683.00					683.00
					244139.00
Less on for Agreement 0.10% below					24414.00
					241725.00

Sumed
28/08/23
JE

Continuation
28/08/23
AE

c4p
28/08/23
EE