

Mmhsy/sc

MIBNO:-3595

Schedule XLV-Form No. 134

ਸਾਹਿਬਜੀਤ ਸਿੰਘ ਦੀ ਸੇਵਾ ਵਿੱਚ ਸੇਵਾ ਵਿੱਚ ਨਿਯੁਕਤੀ

DIVISION

Sany Kumar Singh

SUB-DIVISION

Tsugbur

3595

MEASUREMENT BOOK

Name of work -
Situation of work -
Agency by which work is executed -
Date of measurement -
No. and date of agreement.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st an-final Bill of					
Construction work					
1/A - Sanjiv Kumar Singh					
1/W - Construction of Road with Maintenance					
from Grama Siswa Harijan Tola Se					
Uttar kherwa khar Tak					
Date of Sst - 13/02/2021					
Date of Completion - 12/03/2022					
Below - 15.01					

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
②/② Clearing & Grubbing Road land including uprooting wild vegetation do-do all complete job.					
	2x	23x	30.04x	3.5 =	4830.0m ²
	2x	1x	21.04x	3.50 =	147.0m ²
					4977.0m ²
					⇒ 0.4977 Hec

④/④ Excavation for road					
In 1st do-do all complete job.					
Qty Beside of BES of Rigid Pavement - 15.45m ³					
2x 7 Nos x 30.04 x 0.375 x 0.1 =					157.50m ³
2x 1 Nos x 15.04 x 0.375 x 0.1 =					1.125m ³
Qty of BES for flexible road.					

	2x	16 Nos x	30.04 x	0.525 x 0.10 =	50.40m ³
	2x	1 Nos x	6.04 x	0.525 x 0.10 =	0.62m ³
					67.91m ³

⑤/⑤ Construction of GSB by P.V.					
Well graded material do-do all complete job.					
GSB in widening					
	2x	16x	30.04 x	0.525 x 0.10 =	50.40
	2x	1x	6.04 x	0.525 x 0.10 =	0.63
for profile correction					
	2x	2.5x	2.10 x	0.10 =	1.05
	10x	1.50 x	1.20 x	0.10 =	1.80
	5x	2.70 x	1.80 x	0.10 =	2.43
	8x	2.80 x	1.90 x	0.10 =	4.26

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
				Bf-	60.57
8 X	2.90	2.20			4.64
				x 0.10 =	6.05
GS Bin full width					
16 X 30.04	4.05				194.40 H ³
1 X 10.04	4.05				4.04
				x 0.10 =	2.64 H ³
					263.65 H ³
9 P/L, laying, spreading & compacting KRM G-3 material do-do all complete job.					
14 X	3.75				3.94
35 X	(3.90 + 4.0)				10.27
				x 0.075 =	

30.04	x	$\frac{4.0 + 3.8}{2}$			x 0.075 = 8.78
30.04	x	$\frac{3.8 + 4.0}{2}$			x 0.075 = 8.78
30.04	x	$\frac{4.0 + 3.9}{2}$			x 0.075 = 8.89
30.04	x	$\frac{3.9 + 3.8}{2}$			x 0.075 = 8.66
30.04	x	$\frac{3.8 + 4.0}{2}$			x 0.075 = 8.78
30.04	x	$\frac{4.0 + 4.0}{2}$			x 0.075 = 9.0
30.04	x	$\frac{4.0 + 3.8}{2}$			x 0.075 = 8.78
30.04	x	$\frac{3.8 + 3.75}{2}$			x 0.075 = 8.49
30.04	x	$\frac{3.75 + 3.75}{2}$			x 0.075 = 8.44

Continuation

92.91

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
			BF	—	92.31
		$30.04 \times \frac{3.75 + 3.90}{2}$		$\times 0.075$	$= 8.61$
		$30.04 \times \frac{3.70 + 3.80}{2}$		$\times 0.075$	$= 8.66$
		$30.04 \times \frac{3.80 + 3.90}{2}$		$\times 0.075$	$= 8.66$
		$30.04 \times \frac{3.90 + 3.80}{2}$		$\times 0.075$	$= 8.66$
		$30.04 \times \frac{3.8 + 3.8}{2}$		$\times 0.075$	$= 8.55$
		$21 \times \frac{3.8 + 3.8}{2}$		$\times 0.075$	$= 5.98$
					<u>142.03 m²</u>

(7/10)

P/v and Applying primer
coat with Bitumen Emulsion
(SS-1) on prepared surface
etc.

	14×3.75	$=$	52.50
	$35.04 \times \left(\frac{3.7 + 4.0}{2} \right)$	$=$	138.25
	$30.04 \times \left(\frac{4.0 + 3.8}{2} \right)$	$=$	117.04 ^L
	$30.04 \times \left(\frac{3.8 + 4.0}{2} \right)$	$=$	117.04 ^L
	$30.04 \times \left(\frac{4.0 + 3.90}{2} \right)$	$=$	118.50
	$30.04 \times \left(\frac{3.90 + 3.8}{2} \right)$	$=$	115.50
	$30.04 \times \left(\frac{3.8 + 4.0}{2} \right)$	$=$	117.0

Continuation

$$30.07 \times \left(\frac{3.80 + 3.80}{2} \right) = 114.0$$

$$21.07 \times \left(\frac{3.8 + 3.80}{2} \right) = 79.80$$

$$1893.55 \text{ m}^2$$

Q. No. VTMB P. No. - 5

-	1873.5542
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2/2 p/v. laying & rolling of
close-graded premix
surfacing material of 20mm
thickness done all complete.

Continuation

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
			B.F -		
	30.04	$\frac{3.70 + 4.0}{2}$		$\times 0.075 =$	8.66
	30.62	$\frac{4.0 + 3.90}{2}$		$\times 0.075 =$	8.88
	30.04	$\frac{3.70 + 3.80}{2}$		$\times 0.075 =$	8.66
	21.04			$\times 3.75 \times 0.075 =$	5.90
					63.92 m ³
			Limit		63.91 m ³
12/ Construction of Un-reinforced					
Pcc pavement of M-30 grade					
do do all complete job.					
	20.4	$\frac{5.3 + 3.90 + 3.8}{3}$		$\times 0.160 =$	13.87 m ³

	30.04	$\frac{3.80 + 3.8}{2}$		$\times 0.160 =$	18.24 m ³
	30.04	$\frac{3.8 + 3.70}{2}$		$\times 0.160 =$	18.0 m ³
	30.04	$\frac{3.70 + 3.70}{2}$		$\times 0.160 =$	17.76 m ³
	30.04	$\frac{3.7 + 4.0}{2}$		$\times 0.160 =$	18.48 m ³
	30.04	$\frac{4.0 + 3.90}{2}$		$\times 0.160 =$	18.96 m ³
	30.04	$\frac{3.90 + 3.80}{2}$		$\times 0.160 =$	18.48 m ³
	21.04			$\times 3.75 \times 0.160 =$	12.60
					136.39
			Limit		136.35 m ³

Continuation

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Particulars	Details of actual mensuro				Contents of area
	No.	L.	B.	D.	
(12/4) Construction of Sub-grade and earthen shoulder etc. all complete job.					
(A) In flexible Road					
Sides of GSB					
					$2 \times 16 \times 30.04 \times 1.388 \times 0.20 = 266.50$
					$2 \times 1 \times 10.04 \times 1.388 \times 0.20 = 5.55$
Sides of K.B.M.					
					$2 \times 16 \times 30.04 \times 1.181 \times 0.075 = 85.63$
					$2 \times 1 \times 10.04 \times 1.181 \times 0.075 = 1.77$
					358.85
(B) In Rigid Road					
Sides of GSB					
					$2 \times 7 \times 30.04 \times 0.625 \times 0.10 = 26.25$
					$2 \times 1 \times 11.04 \times 0.625 \times 0.10 = 1.38$
Sides of K.B.M.					
					$2 \times 7 \times 30.04 \times 0.625 \times 0.075 = 19.69$
					$2 \times 1 \times 11.04 \times 0.625 \times 0.075 = 1.03$
Sides of C.C. Road					
					$2 \times 7 \times 30.04 \times 0.625 \times 0.160 = 42.0$
					$2 \times 11.04 \times 0.625 \times 0.160 = 2.20$
					92.55
Total Qty = A + B					
					$= 358.85 + 92.55$
					$= 451.40 \text{ m}^3$

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(14/16) Rec 4-15 grade kilometer stone etc					
	1x1.0 Nos =	1.0 Nos			
(15/17) Rec 4-15 grade 200m stone etc					
	1x3.0 Nos =	3.0 Nos			
(16/18) P/c and fixing of 600mm circular etc.					
	1x4.0 Nos =	4.0 Nos			
(17/19) P/c and fixing of 600mm equilateral triangles etc					
	1x2.0 Nos =	2.0 Nos			
(18/20) P/c and fixing of 600mm x 450mm rectangular do-do all complete job.					
	1x2.0 Nos =	2.0 Nos			
(19/21) P/c and laying of hot applied thermoplastic compound do-do all complete job.					
on Rigid Portion					
2x 7x30.04 x 0.10 =					42.0
2x 1x11.04 x 0.10 =					2.20
At flexible Portion					
2x 6x30.04 x 0.10 =					36.04
2x 4x10.04 x 0.10 =					2.0
					142.2042

Continuation

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
24/	Construction of Embankment				
	Went with material obtained from borrow				
	Pits etc do do till complete				
	Job.				
Sl. No.	Chain	Area	Mean Area	Length	Qty
1	0	1.948			
2	50	2.157	2.052	50	102.607
3	100	1.985	2.071	50	103.544
4	150	2.529	2.257	50	112.853
5	200	2.234	2.382	50	119.087
6	250	2.795	2.715	50	125.743
7	300	2.75	2.872	50	143.624
8	350	2.232	2.591	50	129.534
9	400	2.468	2.35	50	117.488
10	450	2.406	2.437	50	121.833
11	500	2.277	2.341	50	117.059
12	550	2.765	2.521	50	126.035
13	600	2.439	2.602	50	130.097
14	650	2.144	2.291	50	114.574
15	700	2.224	2.184	50	109.202
16	711	2.456	2.34	11	25.735
					1699.043
<u>Deduction</u>					
①	Subgrade (TMB P. No. ⑧) =				450.41
①①	SB (TMB P. No. ③) + TMB P. No. ④				
	= 263.65 + 23.79 =				287.44

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
(1) P/S fixing of working bench mark Pillar of N ₂ Per km etc					
Qty VTMB P. No - (1)					
0.711 km @ 3691 = 732 $\frac{7}{km}$ - 2625=00					
(2) Reference Pillar etc. etc					
VTMB P. No - (1) - 0.711 km					
@ 1706 = 32 $\frac{2}{km}$ - 1213=00					
(3) clearing & grubbing Road and including uprooting wild veg etc. tion do do all complete job.					
Qty VTMB P. No - (2)					
0.4072 km @ 51153 = 76 $\frac{7}{km}$ - 25449=00					
(4) Excavation for roadway in soil do do all complete job.					
Qty VTMB P. No - (2)					
67.91 m ³ @ 74 = 16 $\frac{2}{m^3}$ - 5036=00					
(5) construction of Embankment with material obtained from borrow pit for 100m lead etc.					
Qty VTMB P. No - (12)					
114.70 m ³ @ 175.22 $\frac{2}{m^3}$ - 20133=00					
(6) Construction of embankment with material obtained from borrow pit for 100m lead etc.					
Qty VTMB P. No - (12)					
465.10 m ³ @ 141 = 14 $\frac{2}{m^3}$ - 65644=00					

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
7) Construction of sub-grade					
of earthen & rubble do do all					
complete job Qty VTM B P.No-					
⑧ 451.40 m ³ @					
176 = 86 m ³ —					79835=00
8) Construction of COSB by P.V. well					
graded material do do all complete job					
Qty VTM B P.No - (3)					
263.65 m ³ @ 31.52 = 71 m ³ —					831212=00
9) P.V. laying, spreading & compacting					
WBM-C-3 material do do all					
complete job Qty VTM B					
P.No - (4) - 142.03 m ³ @					
3832 = 42 m ³ —					544315=00
10) P.V. and Applying Primer Coat					
with Bitumen Emulsion (SS-1) etc					
Qty VTM B P.No - (5)					
1893.55 m ² @ 44 = 75 m ² —					84736=00
11) P.V. and Applying Tack Coat with					
Bitumen Emulsion (SS-1) etc					
Qty VTM B P.No - (5) - 1893.55 m ²					
@ 15 = 22 m ² —					28820=00
12) P.V. laying & rolling of dense-					
graded premix surfacing of					
20mm thickness etc					
Qty VTM B P.No - (6) -					
1893.55 m ² @ 234 = 50 m ² —					444037=00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(13/13) Construction of G.B. by P.V.					
Wall graded material do-do					
all complete job. Qty					
VTMB P.No - (6) - 23.79 M ³					
@ 3152 = 71 M ³					75003 = 00
(14/14) P.V. laying & spreading & compacting W.B.M-6-3 material do-do all complete job.					
Qty VTMB P.No - (7)					
63.91 M ³ @ 3832 = 42 M ³					244930 = 00
(15/15) Construction of Un-reinforced PCC floorment of M-30 grade do-do all complete job.					
Qty VTMB P.No - (7)					
136 = 35 M ³ @ 7207 = 63 M ³					382760 = 00
(16/16) Rec M-15 grade KM stone etc. Qty VTMB P.No - (9) - 1.0 Nos @					
2286 = 01 M ³					2286 = 00
(17/17) Rec M-15 grade 200mm stone etc. Qty VTMB P.No - (2)					
3.0 Nos @ 607 = 74 M ³					1823 = 00
(18/18) P.V. & fixing of 600mm Circular etc. Qty VTMB P.No - (4) - 4.0 Nos					
@ 4958 = 02 M ³					19832 = 00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(19/19) P/V & fixing 900mm equilateral triangle etc.					
Dtp VTM B P.No - (9)					
2.0117 @ 5455 = 752					10912 = 00
(20/20) P/V & fixing 600mm x 450mm rectangular etc. Dtp					
VTMB P.No - (9)					
2.0115 @ 4827 = 832					9656 = 00
(21/21) P/V and lagging of hot applied thermoplastic compound do-do all complete job					
Dtp VTM B P.No - (9)					
142.20 m ² @ 735 = 44					104580 = 00
(22/22) Planting of trees by the road side do-do all complete job.					
Dtp VTM B P.No - (10) 50.0117					
@ 819 = 92					40996 = 00
(23/23) P/V and lagging of RCC pipe duct 300mm dia etc.					
Dtp VTM B P.No - (10)					
20.011 @ 807 = 15					16143 = 00
(24/24) P/V and erecting direction & place do-do all complete job.					
Dtp VTM B P.No - (10)					
1.0115 @ 3166 = 67					3167 = 00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
(25/5) R and fixing of typical MMSY information sign board do-do all complete job - Qty VTMB P.No - (10) 6.0 m ² @ 10920=087 — 65520=00 3710667=00 Add 12% for GST — 445280=00 Add 1% for LC — 37107=00 Add SF — 39960=00 4233019=00 Less as per Agreement 15.0% below = 635375=00 3597639=00 X 08/04/24 JE N 08/04/24 alp 08/04/24 EE					