

MBN0:-3489

Schedule XLV-Form No. 134

PMGS Y KH 4/10/54 3/12/54

3PK 51K8/11 195 DIVISION

8/16/2/8/11/12 SUB-DIVISION

4/10/2/11/54

Measurement Book

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Road:—	Hansrajpur pmhsy to				
	Mampur Hote huge Uttar Gaurak.				
	Skane Tak.				
Length:—	1.200 Km				
Agency:—	SRI Raj Ghushan Singh				
	vill+P.O - mukhera, p.s. Revisgarj (sarm)				
Agreement No:—	-2/ SBD/ 2021-22				
Date of Start:—	28/09/2021				
Date of Completion—	27/09/2022				
Date of entry:—	26/09/2022				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Const of Embankment				E/I	
			R+Y		39.60 cum
(5) H.P. Culvert 600 mm dia					
(i) Earthwork work in excavation				E/I	
H.W -	2	3.900	1.50	1.500	13.455 cum
Below pipe -	1	5.350	1.30	0.365	2.207 "
					15.662 cum
(ii) p/v Mix (pcc) 1:2.5:5 as leveling course in foundation					
H.W -	2	3.900	1.150	0.150	1.35 cum
Below pipe -	1	5.311	1.130	0.250	1.50 "
Less for pipe -	0.250	0.7857	0.8302	0.5849	0.79 "
					2.06 cum
(iii) plain/reinforced cement concrete in substructure					
H.W -	2	3.600	0.700	2.780	14.01 cum
Parapet -	2	3.600	0.400	0.600	1.73 "
Less for pipe -	2	0.7857	0.8302	0.530	0.57 "
					15.17 cum
(iv) p/v and laying R.C.C pipe 150 mm for culverts					
3X 2.50					7.50 m
(v) painting two coats on new concrete surfaces					
outer sides -	2	3.600	3.380		24.34 cum
inner sides -	2	3.600	0.600		4.32 "
Top -	2	3.600	0.400		2.88 "
Ends -	4	0.700	2.780		7.78 "
Ends (parapet) -	4	0.400	0.600		0.96 "
Less -	2	0.7857	0.8302	0.5849	1.08 "
Continuation					39.20 sqm

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) Costs of C.S.B by PIV					
Coarse graded Material					
Profile Correction:-					
1x 3.20x 1.70x 0.250					1.36 Cum
2x 1.50x 0.70x 0.350					0.74 "
2x 1.10x 0.80x 0.150					0.26 "
3x 2.00x 0.90x 0.350					1.89 "
4x 1.80x 0.70x 0.30					1.51 "
3x 1.40x 0.90x 0.250					0.95 "
2x 2.70x 0.80x 0.250					1.08 "
5x 2.00x 0.90x 0.150					1.35 "
8x 1.10x 0.50x 0.150					0.66 "
4x 1.60x 0.90x 0.170					0.86 "
6x 2.50x 1.30x 0.150					2.93 Cum
4x 1.20x 0.70x 0.100					0.34 "
5x 0.90x 0.60x 0.100					0.27 "
7x 1.10x 0.75x 0.150					0.87 "
2x 4x 25.00x 0.525x 0.100					42.00 Cum
2x 2x 25.00x 0.525x 0.100					5.25 "
2x 2x 4x 25.00x 0.375x 0.100					15.00 "
2x 2x 25.00x 0.375x 0.100					3.75 "
4x 4x 25.00x 4.050x 0.100					162.00 "
2x 25.00x 4.050x 0.100					20.25 "
5x 4x 25.00x 4.050x 0.200					405.00 "
Add for curve					
1x 25.00x $\frac{(4.75+3.75-3.75)}{2}$ x 0.100					1.25 Cum
1x 20.00x $\frac{(4.05+9.80-4.05)}{2}$ x 0.100					5.75 "
					675.20 Cum

Continuation Limit 674.49

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) p/r laying, spreading and					
Compacting ^{stone} aggregate - E/F					
11 x 4 x 25.00 x 3.75 x 0.075					309.38 cum
3 x 25.00 x 3.75 x 0.075					21.09 "
1 x 20.00 x 3.75 x 0.075					5.63 "
Add for curve:-					
1 x 25.00 x $\frac{(4.75+3.75)}{2} \times 3.75 \times 0.075$					0.94 cum
1 x 20.00 x $\frac{(3.75+2.80)}{2} \times 3.75 \times 0.075$					4.54 "
					341.58 cum
				Limit	340.88 cum
(8) const. of unreinforced plain					
Concrete pavement					
1 x 25.00 x $\frac{4.75+3.75}{2} \times 0.160$					17.00 cum
1 x 15.00 x $\frac{3.75+3.50}{2} \times 0.160$					8.70 "
1 x 10.00 x $\frac{3.50+3.25}{2} \times 0.160$					5.80 "
4 x 4 x 25.00 x 3.75 x 0.160					60.00 "
4 x 4 x 25.00 x 3.75 x 0.160					60.00 "
					151.50 cum
(9) p/r and applying primer coat					
with SS-1 - E/F					
9 x 4 x 25.00 x 3.75					3375.00 sqm
1 x 25.00 x 3.75					93.75 "
1 x 20.00 x $\frac{3.75+2.80}{2}$					135.50 "
					3604.25 sqm
				Limit	3598.13 sqm
(10) p/r and applying tack coat with					
RS-1 - E/F					
Same Qty as per					
Item (9) Estimation					3598.13 sqm
Qty					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) p/v. laying and rolling of closed graded premix surfacing -- E/H					
		same BtY	as per		
stem (9) page 4					
		BtY	—		35.98.13 sqm
(12) p/v and laying of a reinforced cement concrete pipe dia 300mm					
		2X2.50	—		5.00 M
(13) Boundary pillar					
		BtY	—		14 Nos.
(14) 1000 stone					
		BtY	—		02 No.
(15) 2000 m stone					
		BtY	—		05 Nos
(16) 600mm Circular					
		BtY	—		02 No.
(17) 600mm equilateral Triangle					
		BtY	—		02 No.
(18) 600mm x 450mm rectangular					
		BtY	—		01 No.
(19) p/v and erecting direction and place identification sign board					
		BtY	—		03 Nos
(20) Road Marking with hot applied thermoplastic compound					
		BtY	—		
		2X11X4X25.00 X 0.100	—		220.00 sqm
		2X3X25.00 X 0.100	—		15.00 "
		2X1X20.00 X 0.100	—		4.00 "
					239.00 sqm

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(21) planting of trees by the road sides.					
	2 X 68				96 Nos.
(22) pin and fixing of typical					
informatory sign board					
	8 X 4				03 Nos.
Earthwork Bty sheet					
SL. No.	Chainage in m	Area in m ²	Mean Area in m ²	Distance in m	Volume in m ³
1.	0	1.990			
2.	50	2.294	2.142	50	107.097
3.	100	2.106	2.200	50	109.974
4.	150	2.723	2.414	50	120.717
5.	200	2.388	2.555	50	127.762
6.	250	2.660	2.524	50	126.177
7.	300	2.947	2.803	50	140.163
8.	350	2.203	2.575	50	128.740
9.	400	2.423	2.313	50	115.645
10.	450	2.358	2.391	50	119.535
11.	500	2.230	2.294	50	114.717
12.	550	2.741	2.486	50	124.276
13.	600	2.405	2.573	50	128.631
14.	650	2.079	2.242	50	112.096
15.	700	2.174	2.127	50	106.327
16.	750	2.408	2.291	50	114.557
17.	800	2.575	2.492	50	124.583
18.	850	2.518	2.546	50	127.319
19.	900	2.458	2.488	50	124.398

Continuation

		RTF	353.000 cum
(24)	Consists of	subgrade -	E/I
		RTF	1355.007 cum
Prinl. 26/09/22 JE		Amir Shah 26/09/22 AE	

Continuation

ABSTRACT OF COST

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) P.V. and fixing working benchmark and reference pillar					
1.200 Km vide MB page-1					✓
@ Rs 5959.56/Km					Rs 7151=00
(2) clearing and grubbing Road					
Land - - - E/I					
0.48 Hec vide MB page-1					✓
@ Rs 51133 = ⁷⁴ 76/Hec					Rs 24544=00
(3) Box-culting of existing Road					
- - - E/I					
66.00 Cum vide MB p-1					
@ Rs 126 = 24/Cum					Rs 8332 = 00
(4) Const. of Embankment - E/I					
39.60 Cum vide MB p-2					
@ Rs 88 = 36/Cum					Rs 3499 = 00
(5) Const. of Embankment - -					
- - - E/I					
353.00 Cum vide MB page-7					
@ Rs 184 = 30/Cum					Rs 65058 = 00
(6) Const. of subgrade - E/I					
6+7 1355.007 Cum vide MB p-7					
@ Rs 210 = 88/Cum					Rs 285744 = 00
(7/8) Const. of GSB by P.V. well					
graded coarse aggregates - - E/I					
674.49 Cum vide MB page-3					
@ Rs 3363 = 60/Cum					Rs 2268715 = 00
(8/9) WBM Lvr-3 - P.V. Laying, spreading and Compacting Stone aggregates - E/I					

Continuation

Rs 2663043 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
340.88 cum vide MB page-4					
@ RS 4092 = 06/cum					RS 1394901 = W
(9/10) prime coat - p/v and applying					
prime coat with SS-1 - 2/1					
3598.13 sqm vide MB p-4					
@ RS 45 = 38/sqm					RS 163283 = W
(10/11) p/v and applying tack					
coat with RS-1 - 2/1					
3598.13 sqm vide MB p-4					
@ RS 15 = 61/sqm					RS 56167 = W
(11/12) p/v, laying and rolling of					
close-grained premix surfacing					
3598.13 sqm vide MB p-5					
@ RS 245 = 44/sqm					RS 88313 = W
(12/13) construction of un-reinforced					
plain cement concrete pavement					
157.50 cum vide MB p-5					
@ RS 7659 = 99/cum					RS 1160488 = W
(13/14) p/v and laying of a reinforced					
Cement concrete pipe-duct 300 mm					
S.W.M vide MB page-5					
@ RS 836 = 85/m					RS 9184 = W
(14/15) Boundary pillar					
14 Nos. vide MB page-5					
@ RS 507 = 20/each					RS 7098 = W
(15/16) 10mm stone					
02 No. vide MB page-5					
@ RS 2227 = 76/each					RS 4456 = W
					RS 6336745 = W

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16/17) 200mm stone					
05 Nos. vide MB page-5					
@ Rs 625 = 3125/each					R 3125 = 00
(17/18) 600mm equilateral triangle					
02 Nos. vide MB page-5					
@ Rs 3582 = 7164/each					R 7164 = 00
(18/19) 600mm circular					
02 Nos. vide MB page-5					
@ Rs 4740 = 9480/each					R 9480 = 00
(19/20) planting of trees by the road side					
96.00 Nos. vide MB page-6					
@ Rs 822 = 78937/each					R 78937 = 00
(20/21) 600mm x 450mm rectangular					
01 No. vide MB page-5					
@ Rs 4643 = 4643/each					R 4643 = 00
(21/22) p/v and erecting direction and place identification sign board					
03 Nos. vide MB page-5					
@ Rs 10414 = 31245/each					R 31245 = 00
(22/23) Road Marking with hot applied thermoplastic compound					
239.00 sqm vide MB p-5					
@ Rs 735 = 175770/sqm					R 175770 = 00
(23/23+24) p/v and fixing of typical informal sign board					
02 Nos. vide MB p-6					
@ Rs 9368 = 18736/each					R 18736 = 00
					R 56675220 = 00

Continuation

BFR 6675220=0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(24/27) Earthwork in excavation					
--- E/S					
15.662 cum wide MBP-2					4615=00
15.660					
@ Rs 294=93/cum					Rs 4616=00
(25/28) p/v M15 (pcc 1:2:5:5) as					
Leveling course in found.					
2.05 cum wide MBP-2					
@ Rs 331=04/cum					Rs 10929200
(26/29) plain/reinforced cement					
Concrete in substructure					
15.17 cum wide MBP-2					
@ Rs 5989=95/cum					Rs 90868200
(27/30) p/v and laying Rce					
pipe 4" dia for culvert					
7.50 m wide MBP-2					
@ Rs 3299=66/m					Rs 24747=00
(28/31) painting two coats on					
neop/concrete surface					
39.20 sqm wide MBP-2					
@ Rs 97=9/sqm					Rs 3810=00
					Rs 6810190=00
					6810189=00
Less 0.01% betad					Rs 6809507=00
					6809508=00
Add 12% GST					Rs 817141=00
Add 1% L. cess					Rs 68095=00
seigniorage fee					Rs 76632=00
					Rs 7771375=00
					7771376=00
26/09/22					
7/6					
AE					
C&P					
31/10/22					
B.R.					

Continuation