

प्राप्तिसं.सं.

प्राप्तिसं. 3281

Schedule XIV Form No. 134.

DIVISION

SUB-DIVISION

Measurement Book

प्राप्तिसं. 3281

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.	
M/W:- Construction of Road from					
Hasulahi Bazar Badhammurti					
Sadok to Nahar bandh					
Hote huye Dufan Singh					
ke mukhiya ke tola tak					
Under mmhSY (SC) al-					
Block Jabalpur.					
M/Agency- Sri Tanujay Kumar Singh					
Ass. No - 34/SRD/2020-21					
Date of Start - 16.09.2020					
Date of Completion - 15.09.2021					
Date of Measurement - 09.12.2020					
Items of work:-					
① Plv & Fixing of warning Bench-					
- mark pillar = 1.320 km					
② clearing & grubbing of					
road land:					
$2 \times 10 \times 30.0m \times 1.0m = 600.0m^2$					
$2 \times 10 \times 30.0m \times 1.0m = 600.0m^2$					
$2 \times 10 \times 30.0m \times 1.0m = 600.0m^2$					
$2 \times 10 \times 30.0m \times 1.0m = 600.0m^2$					
$2 \times 4 \times 30.0m \times 1.0m = 240.0m^2$					
Total					$= 2640.0m^2$ $= 0.26 Hect.$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Box cutting - Excavation					
for roadway in soil using					
manual means.					
For B. T. portion					
$2 \times 10 \times 30.04 \times 0.525 \times 0.104 =$					31.50 m^3
$2 \times 10 \times 30.04 \times 0.525 \times 0.104 =$					31.50 m^3
$2 \times 5 \times 30.04 \times 0.525 \times 0.104 =$					15.75 m^3
For C. C. portion					
$2 \times 6 \times 30.04 \times 0.375 \times 0.104 =$					13.50 m^3
$2 \times 1 \times 30.04 \times 0.375 \times 0.104 =$					1.50 m^3
$2 \times 10 \times 30.04 \times 0.375 \times 0.104 =$					22.50 m^3
$2 \times 2 \times 30.04 \times 0.375 \times 0.104 =$					4.50 m^3
$2 \times 1 \times 10.404 \times 0.375 \times 0.104 =$					0.75 m^3
Total =					121.50 m^3

(4) Earthwork Calculation.					
Sl. No	chainage	C/S Area	Mean C/S Area	Dist	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
1	0	0.516	0.258	0.00	0.00
2	50	0.506	0.511	50	25.55
3	100	0.524	0.515	50	25.75
4	150	0.872	0.698	50	34.90
5	200	0.865	0.868	50	43.50
6	250	0.715	0.790	50	39.50
7	300	0.678	0.676	50	34.80
8	350	0.584	0.631	50	31.55
9	400	0.525	0.554	50	27.70
Qty @ 0 =					263.25 m^3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S.No chainage		cls Area	Mean cls Am	Dist	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
			Qty B/F =		263.25 m ³
10	450	0.562	0.543	50	27.15 m ³
11	500	0.612	0.587	50	29.35 m ³
12	550	0.705	0.658	50	32.90 m ³
13	600	0.685	0.695	50	34.75 m ³
14	650	0.580	0.632	50	31.60 m ³
15	700	0.490	0.535	50	26.75 m ³
16	750	0.610	0.550	50	27.50 m ³
17	800	0.712	0.661	50	33.05 m ³
18	850	0.685	0.698	50	34.90 m ³
19	900	0.724	0.704	50	35.70 m ³
20	950	0.682	0.703	50	35.15 m ³
21	1000	0.526	0.604	50	30.20 m ³
22	1050	0.512	0.519	50	25.95 m ³
23	1100	0.490	0.501	50	25.05 m ³
24	1150	0.485	0.487	50	24.35 m ³
25	1200	0.465	0.475	50	23.25 m ³
26	1250	0.562	0.513	50	25.65 m ³
27	1300	0.518	0.540	50	27.10 m ³
28	1320	0.526	0.522	20	26.10 m ³
			Total =		819.60 m ³
			Penyente @ 85% =		696.66 m ³
			Less for earth should be		(-396.17 m ³)
			Net qty of c/w in embankment @ 100 cm =		300.49 m ³

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) Construction of granule					
Sub-base by providing					
Coarse graded material,					
For B.T. portion.					
9m box cutting.					
$2 \times 10 \times 30.00m \times 0.525m \times 0.10m = 31.50m^3$					
$2 \times 10 \times 30.00m \times 0.525m \times 0.10m = 31.50m^3$					
$2 \times 5 \times 30.00m \times 0.525m \times 0.10m = 15.75m^3$					
9m full width,					
$10 \times 30.00m \times 4.050m \times 0.10m = 121.50m^3$					
$10 \times 30.00m \times 4.050m \times 0.10m = 121.50m^3$					
$5 \times 30.00m \times 4.050m \times 0.10m = 60.75m^3$					
for profile correction					
$4 \times 4.00m \times 3.00m \times 0.10m = 4.80m^3$					
$3 \times 2.80m \times 2.50m \times 0.10m = 2.10m^3$					
$5 \times 3.50m \times 2.45m \times 0.10m = 4.23m^3$					
Extra width on H-curve.					
$3 \times 6.00m \times 0.550m \times 0.10m = 1.04m^3$					
$2 \times 5.50m \times 0.600m \times 0.10m = 0.66m^3$					
$4 \times 5.80m \times 0.550m \times 0.10m = 1.22m^3$					
$2 \times 5.20m \times 0.520m \times 0.10m = 0.52m^3$					
For c.c. portion,					
9m box cutting.					
$2 \times 6 \times 30.00m \times 0.375m \times 0.10m = 13.50m^3$					
$2 \times 1 \times 20.00m \times 0.375m \times 0.10m = 1.50m^3$					
$2 \times 10 \times 30.00m \times 0.375m \times 0.10m = 22.50m^3$					

Qty 40 = 434.62m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F =		434.62 m ³
2 x 2 x 30.00 m x 0.375 m x 0.10 m =					4.50 m ³
2 x 1 x 10.00 m x 0.375 m x 0.10 m =					0.75 m ³
In profile correction -					
6 x 2.50 m x 3.00 m x 0.10 m =					4.50 m ³
4 x 3.50 m x 3.00 m x 0.10 m =					4.20 m ³
Extra width at H-curve,					
2 x 6.00 m x 0.580 m x 0.10 m =					0.69 m ³
2 x 5.50 m x 0.525 m x 0.10 m =					0.55 m ³
2 x 5.80 m x 0.550 m x 0.10 m =					0.63 m ³
			Total =		450.44 m ³
			Qty limit =		449.31 m ³

⑥ p/v, laying, spreading & compacting of W.B.P-3

For B.T. Portion,

10 x 30.00 m x 3.75 m x 0.075 m =	84.37 m ³
10 x 30.00 m x 3.75 m x 0.075 m =	84.37 m ³
5 x 30.00 m x 3.75 m x 0.075 m =	42.18 m ³

Extra width at H-curve,

3 x 6.00 m x 0.580 m x 0.075 m =	0.78 m ³
2 x 5.50 m x 0.600 m x 0.075 m =	0.49 m ³
4 x 5.80 m x 0.550 m x 0.075 m =	0.96 m ³
2 x 5.20 m x 0.500 m x 0.075 m =	0.39 m ³

For C.C. Portion,

6 x 30.00 m x 3.75 m x 0.075 m =	50.62 m ³
1 x 20.00 m x 3.75 m x 0.075 m =	5.62 m ³

Qty C/C = 269.78 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty	B/F	$269.78 m^3$
5x	30.00m	3.75m	0.075m		$42.18 m^3$
5x	30.00m	3.75m	0.075m		$42.18 m^3$
2x	30.00m	3.75m	0.075m		$16.87 m^3$
1x	10.00m	3.75m	0.075m		$2.81 m^3$
Extra width at H-curve					
2x	6.00m	0.580m	0.075m		$0.52 m^3$
2x	5.50m	0.50m	0.075m		$0.41 m^3$
2x	5.80m	0.550m	0.075m		$0.47 m^3$
			Total		$375.22 m^3$
			Qty limit		$374.97 m^3$
⑦ Placing					

⑦ Construction of Earthen shoulder with approved material.					
For B.T. portion.					
Sides of G.S.B.					
2x	10x30.00m	0.975m	0.100m		$58.50 m^3$
2x	10x30.00m	0.975m	0.100m		$58.50 m^3$
2x	5x30.00m	0.975m	0.100m		$29.25 m^3$
Sides of W.B.M-3					
2x	10x30.00m	1.125m	0.075m		$50.62 m^3$
2x	10x30.00m	1.125m	0.075m		$50.62 m^3$
2x	5x30.00m	1.125m	0.075m		$25.31 m^3$
For C.C. portion					
Sides of W.B.M					
2x	6x30.00m	0.625m	0.075m		$16.87 m^3$
Qty C.C.					$289.67 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty	B/F =	289.67 m ³
	2 x 8	30.60 m	0.625 m	0.07 m	= 22.50 m ³
Sides of R.C.C					
	2 x 6	30.60 m	0.625 m	0.160 m	= 36.00 m ³
	2 x 8	30.60 m	0.625 m	0.160 m	= 48.00 m ³
	Total =				396.17 m ³
⑧ Plv & lining of typical informatory (mm GSY) Sign board with logo = 01 NO					
⑨ Plv & lining of typical informatory (citizen interface) Sign board with logo = 01 NO					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost.					
<u>1</u> P.V & driving of Benchmarks pillars.					
1.320 kms vide TMBP-1					
(u) Rs 5928 = 87/km				B	78262.00
<u>2</u> Clearing & grubbing of road land.					
0.260 Hect, vide TMBP-1					
(u) Rs 5133 = 76/Hect				B	13,295.00
<u>3</u> Box cutting - Excavation					
3. for roadwork in soil using manual means.					
14.50 m ³ , vide TMBP-2					
(u) Rs 126 = 24/m ³				B	15,338.00
<u>4</u> Construction of embank					
4. - met with al each upto 1000 m.					
300.49 m ³ , vide TMBP-3					
(u) Rs 184 = 30/m ³				B	55380.00
<u>5</u> Construction of granule					
Sub base by manually Coarse graded material.					
449.31 m ³ , vide TMBP-6					
(u) Rs 3195 = 28/m ³				B	14,35,671.00
				40% B	15,27,510.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Bl F, B	15,27,570.20
6					
7. P.V. Lining, Spreading & Compacting of W.B.M-3					
374.97m ³ vide TMBP-7					
① Rs 3901.238/m ³				Rs	14,62,900.00
7 Continuation of earthen shoulder with approved material -					
396.17m ³ vide TMBP-8					
① Rs 210.88/m ³				Rs	83,544.00
8 P.V. & fixing of typical masonry intermediate sign board with logo					
01 NO. vide TMBP-8					
① Rs 9339.54/NO				Rs	9340.00
9 P.V. & fixing of typical masonry Citizen information sign board with logo					
01 NO. vide TMBP-8					
① Rs 9339.54/NO				Rs	9340.00
Less 13.01% (below)					
Adding 12% GST					
Adding 1% Labor cost					
Adding 12% GST					
Net Payable Amount					
(Rupees Thirty four lakh, ninety four thousand, six hundred and seventy six only)					
M/M					
09/12/20 (J.E)					
Continuation					