

Sch. XLV - Form No. 134

Executive Engineer DIVISION
R.W.D - D94d-
79901
Assistant Engineer SUB-DIVISION
C90h

Measurement Book

No.

Name of Officer _____

Date of first entry _____

Date of last entry _____

PAGE

Davidnagar (A. bad)

PAGE

Est on A/c Bill

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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 Work:- House of					
Chandip Yadav tolas					
Name of Agency:- Sharan B					
Sunny Construction					
Pt. Ul. Aurangabad					
Agreement No:- 24 SBD/2020-2021					
Date of Commencement - 10/02/2021					
Date of Completion - 09/02/2022					
Date of Measurement - 26/04/2022					
Work done details					
(1) Providing & Fixing					
of working benchm.					
ark Pillars					
Qty 2 Nos					
Reference Pillars					
Qty 6 Nos					
(2) clearing and grubbing					
Road land etc do-do-					
all Comp.					
$2 \times 10 \times 30 \times 3.50 = 2100 m^2$					
$2 \times 15 \times 30 \times 3.50 = 3150 m^2$					
$2 \times 12 \times 30 \times 3.50 = 2520 m^2$					
$2 \times 10 \times 30 \times 3.50 = 2100 m^2$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2 x 4	30	3.50		840 m ²
	2 x 1	5	3.50		35 m ²
					10745 m ²
					= 1.07 Hec.
(3/5)	Construction of embankment with app. rolled material etc. do-do-all comp. E/w calculation as per graph				
CH (cm)	cls Area	Mean cls length	Quantity		
	m ²	Area	m	m ³	
0	0.758				
50	1.668	1.213	50	60.650	
100	1.565	1.617	50	80.825	
150	2.101	1.833	50	91.650	
200	1.702	1.902	50	95.075	
250	2.010	1.856	50	92.800	
300	0.633	1.324	50	66.200	
350	1.840	1.239	50	61.950	
400	1.842	1.841	50	92.050	
450	0.980	1.411	50	70.550	
500	1.928	1.454	50	72.700	
550	1.150	1.539	50	76.950	
600	1.682	1.416	50	70.800	
650	1.502	1.592	50	79.600	
700	1.942	1.722	50	86.100	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
Ch of Area		Mean	Length		Quantity
(m)	m ²	m	m		m ³
750	1.502	1.422	50		86.100
800	0.960	1.231	50		61.550
850	1.446	1.228	50		61.400
900	1.250	1.343	50		68.650
950	0.860	1.055	50		52.750
1000	1.070	0.975	50		48.750
1050	1.393	1.492	50		74.575
1100	1.358	1.626	50		81.275
1150	1.784	1.546	50		77.300
1200	1.415	1.575	50		78.725
1250	0.968	1.192	50		59.575
1300	0.835	0.902	50		45.075
1350	2.018	1.427	50		71.325
1400	1.285	1.652	50		82.575
1450	0.915	1.100	50		55.000
1500	0.660	0.788	50		39.375
1550	1.130	0.920	50		46.000
1600	1.108	1.144	50		57.200
1635	0.798	0.953	25		33.355
				E/W	2278.45 m ³
		Lead up to 100m			
		2278.45 m ³ x 14.35%			
		= 326.96 m ³			
(7)		Lead up to 100m			
		2278.45 m ³ x 85.65%			
		= 1951.49 m ³			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{5}{4}$)	Construction of sub-grade and earthen shoulders etc do do - all comp. sub				
		$12 \times 30 \times \frac{6.82 + 7.72}{2} \times 0.300 = 785.16$			
			2		
		$15 \times 30 \times \frac{6.82 + 7.72}{2} \times 0.300 = 981.45$			
			2		
Sum		$9 \times 30 \times \frac{6.82 + 7.72}{2} \times 0.300 = 588.90$			
			2		
		$4 \times 30 \times \frac{6.82 + 7.72}{2} \times 0.300 = 261.72$			
			2		
					2617.20 m
		Lead up to 100m			
		$2617.20 \text{ m}^3 \times 30\%$			
		$= 785.16 \text{ m}^3$			
($\frac{6}{8}$)		Lead up to 100m			
		$2617.20 \text{ m}^3 \times 70\%$			
		$= 1832.04 \text{ m}^3$			
($\frac{7}{3}$)	Box cutting : Excavation for roadway etc do do - all comp.				
		$2 \times 1 \times 30 \times 0.625 \times 0.100 = 3.75 \text{ m}^3$			
		$2 \times 1 \times 20 \times 0.625 \times 0.100 = 2.50 \text{ m}^3$			
					6.25 m ³
($\frac{8}{4}$)	Construction of embankment with material				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
obtained from Roadway					
Cutting etc do-do-all comp.					
60.1 of 6.25 m ³					
= 3.75 m ³					
($\frac{9}{9}$) Construction of gran-					
ular sub-base etc do-					
do-all comp.					
5 x 30 x 4.05 x 0.200 = 121.50 m ³					
3 x 30 x 4.05 x 0.200 = 72.90 m ³					
7 x 30 x 4.05 x 0.200 = 170.10 m ³					
5 x 30 x 4.05 x 0.200 = 121.50 m ³					
8 x 30 x 4.05 x 0.200 = 194.40 m ³					
2 x 30 x 4.05 x 0.200 = 48.60 m ³					
3 x 30 x 4.05 x 0.200 = 72.90 m ³					
5 x 30 x 4.05 x 0.200 = 121.50 m ³					
2 x 30 x 4.05 x 0.200 = 48.60 m ³					
					972.00 m ³
Extra widening on curve					
0+8 x 24 x 0.200 = 19.20 m ³					
2					991.20 m ³
($\frac{10}{9}$) Construction of granu-					
lar sub-base etc do-					
do-all comp.					
(Per Portion)					
5 x 30 x 3.75 x 0.100 = 56.25 m ³					
2 x 30 x 3.75 x 0.100 = 22.50 m ³					
3 x 30 x 3.75 x 0.100 = 33.75 m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$2 \times 30 \times 3.75 \times 0.100$			$= 22.50 \text{ m}^3$
		$1 \times 25 \times 3.75 \times 0.100$			$= 9.37 \text{ m}^3$
		$2 \times 30 \times 0.625 \times 0.100$			$= 3.75 \text{ m}^3$
		$2 \times 20 \times 0.625 \times 0.100$			$= 2.50 \text{ m}^3$
		$1 \times 7 \times 2.75 \times 0.100$			$= 1.92 \text{ m}^3$
					152.54 m^3
		extra widening on curve			
	0+8	$\times 7 \times 0.100$			$= 2.80 \text{ m}^3$
	2				155.34 m^3
		Hume Pipe Culvert			
		1 x 600 mm dia 6 No.			
		$(\frac{11}{24})$ Earthwork in excav.			
		- alter etc do-do-ay			
		- Comp.			
	H.W	$6 \times 2 \times 3.90 \times 1.15 \times 1.50$			$= 80.73 \text{ m}^3$
	Below pipe	$6 \times 1 \times 5.35 \times 1.13 \times 0.365$			$= 13.23 \text{ m}^3$
					93.96 m^3
		$(\frac{12}{25})$ Providing concrete for			
		plain reinforced etc			
		do-do-ay Comp.			
	H.W	$6 \times 2 \times 3.90 \times 1.5 \times 0.150$			$= 8.07 \text{ m}^3$
	Below pipe	$6 \times 1 \times 5.31 \times 1.13 \times 0.250$			$= 9.00 \text{ m}^3$
					17.07 m^3
		$(\frac{13}{28})$ Providing and laying			
		R.C.C pipe 18" for			
		Culverts etc do-do-ay			
		Comp.			

Continuation

Material Statement

E/W = 4895.69 m³

Stone chins = 1197.9 m³

Coarse Sand = 323.78 m³

Signed
 (26/04/2021)



Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Providing & Fixing of working benchmarks					
2 Nos (vide TMBP-1)					
	@ Rs	3490 = 97			Rs 6381 = 94
Reference Pillars					
6 Nos (vide TMBP-1)					
	@ Rs	1588 = 29			Rs 9529 = 44
(2) Clearing and grubbing Road land etc do do - all Comp.					
1.07 Hrs (vide TMBP-2)					
	@ Rs	52966 = 72			Rs 56674 = 39
(3) Construction of embankment with approved materials etc do do - all Comp.					
Lead up to 100 m					
326.96 m ³ (vide TMBP-3)					
	@ Rs	142 = 26			Rs 46513 = 32
(4) Lead up to 100 m					
1951.49 m ³ (vide TMBP-3)					
	@ Rs	187 = 92			Rs 366724 = 100
(5) Construction of Subgrade and earthen shoulder etc do do - all Comp.					
Lead up to 100 m					
785.16 m ³ (vide TMBP-4)					
	@ Rs	189 = 56			Rs 148834 = 92

Continuation

Rs 6,35,258 = 31

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{6}{9}$)	Lead up to 100 m				
1932.04 m ³ (vide TMBP-4)					
	@ Rs 154=29				Rs 2,82,665=49
($\frac{7}{3}$)	Box Cutting & Excavation for road way etc do do				
	all comp.				
6.25 m ³ (vide TMBP-4)					
	@ Rs 74=23				Rs 463=93
($\frac{8}{4}$)	Construction of emb.				
	- onement with mat -				
	- end etc do do all				
	Comp.				
3.75 m ³ (vide TMBP-5)					
	@ Rs 26=17				Rs 98=13
($\frac{9}{7}$)	Construction of gran-				
	ular sub-base etc do				
	do all comp.				
991.20 m ³ (vide TMBP-5)					
155.34 m ³ (vide TMBP-6)					
1146.54 m ³ @ Rs 1900=38					Rs 21,78,861=6
($\frac{10}{24}$)	Earthwork in excavat-				
	- in etc do do all comp.				
93.96 m ³ (vide TMBP-6)					
@ Rs 279=09					Rs 26273=29
($\frac{11}{25}$)	Providing concrete for				
	plain reinforced etc				
	do do all comp.				
					Rs 31,73,540=49

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17.07 m ³ (VME-TMBP-6)					
@ R ₃	4183 = 13			R ₃	71406 = 02
($\frac{12}{28}$) Providing and laying					
Rec pipe N ₃ for culvert					
etc do-do-all Comp.					
45 Rm (VME-TMBP-7)					
@ R ₃	2181 = 05			R ₃	98147 = 2
($\frac{13}{26}$) plain reinforced co-					
ment concrete in					
Substructure etc do-					
do-all Comp.					
90.98 m ³ (VME-TMBP-7)					
@ R ₃	4892 = 59			R ₃	445127 =
				R ₃	37,38,252 = 6
Add 12% G.S.T				R ₃	4,48,590 = 0
1% L. cess				R ₃	37382 = 0
S. F.				R ₃	44485 = 0
				R ₃	42,68,709 = 0
Below 0.05%				R ₃ +	2134 = 0
				R ₃	42,66,575 = 00
CSP 26/04/2022					
14/9/22					
James					
26/04/2022					
26/04/2022					
26					