

Name of road - Paveti Bass Bigha Road to  
Chodhary Bhanda (Muzr, Aonkarsh  
N.O.B)

## Schedule XLV-Form No. 134

10/SBD/23-24

M/S Ambay Construction

DIVISION

Ramchandri - 19001

SUB-DIVISION

# Measurement Book

1346

# 1st on A/c

1.

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of road! -	Pavari	6033			
Bigha	RCD	Touch to Khadamp			
Khanapara	(MMSA, Awarash, NDB)				
Name of Agent! -	M/S Ambay				
	Construction				
Agg No! -	10-SBD	12324			
Packaged No! -	NDB-BRRP2-25-				
	Masgarhi				
Date of start -	15/12/2023				
Date of completion -	14/12/2024				

Agg Value -	Constr - 280,61,273 =	₹
Maina -	7,03,012 =	₹
Rate of agreement -	0.11 % bldg	₹

## Record Measurement

- ① Setting out work complete  
with control of Bench Mark  
& reference pillar

0.800 Km

- ② clearing & grubbing grass  
Removed of rubble.

$$2 \times 700 \text{ m} \times 3.00 = 4200 \text{ m}^2$$

i.e 0.42 Hectare.

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Excavation for road work in soil.					
	1 x 25.00 x 2.00 x 0.100 =				5.00m <sup>3</sup>
	1 x 25.00 x 2.50 x 0.100 =				6.25m <sup>3</sup>
	1 x 20.00 x 3.00 x 0.100 =				6.00m <sup>3</sup>
	1 x 16.00 x 2.00 x 0.125 =				4.00m <sup>3</sup>
	1 x 25.00 x 2.50 x 0.15 =				9.37m <sup>3</sup>
	1 x 25.00 x 2.20 x 0.100 =				5.50m <sup>3</sup>
	1 x 25.00 x 2.50 x 0.100 =				6.25m <sup>3</sup>
	1 x 25.00 x 2.00 x 0.075 =				3.75m <sup>3</sup>
					46.12m <sup>3</sup>
					ie 46.12m <sup>3</sup>
(4) Removal of unstratified soil with disposal up to loamy					
	2 x 20.00 m x 20.00 m x 0.100 m =				400.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.050 m =				200.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.025 m =				100.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.010 m =				40.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.005 m =				20.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.002 m =				4.00m <sup>3</sup>
	2 x 20.00 m x 20.00 m x 0.001 m =				2.00m <sup>3</sup>
(5) Concrete of embankment with deposited soil.					
	Qty = 80% of item (3)				
	= 36.90m <sup>3</sup>				
(6) LD 1 x 1000 qd BTP - 2 Ncl. Blw in excavation for foundation of structure.					
	H/Wall = 2 x 6.45 + 1.61 = 1.55				32.19m <sup>3</sup>
	Below pipe = 1 x 4.48 x 1.53 x 0.365 = 2.47m <sup>3</sup>				
					34.66m <sup>3</sup>
	Qty for 2 Nos culvert				
	= 2 x 34.66m <sup>3</sup> = 69.32m <sup>3</sup>				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					65.32 m <sup>3</sup>
for pipe duct					
300mm dia. 3 x 6.00 ft 0.60 x 1.00 = 10.80					
					80.12 m <sup>3</sup>
					ie 80.12 m <sup>3</sup>
⑦ P/M for M-15 in founders					
length of H.P. W/Wall - 2	6.45	1.61	0.20	= 4.15 m <sup>3</sup>	
Below pipe - 1	5.40	1.53	0.25	= 2.07 m <sup>3</sup>	
Less for pipe					6.29 m <sup>3</sup>
for 2N - duct - 2 x 6.22 = 12.44 m <sup>3</sup>					
					ie 12.44 m <sup>3</sup>
⑧ Laying Type (B)					
b cataloging					
for duct pipe					
3 x 10.0 x 0.6 x 0.25 = 4.50 m <sup>3</sup>					
					ie 4.50 m <sup>3</sup>
⑨ P/M & laying NP3 300 mm dia H.P.					
mm dia H.P.					
3 x 10.0 x 30.0 m					
⑩ P/M & laying 1000 mm dia H.P. pipe					
2 x 3 x 7.50 m + 15.0 m					
					ie 15.0 m
⑪ Date					
					20/12/23
					AE

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑪ Purple m-15m stream					
W/wall -	2	6.15	(1.46+0.40)		
				2	3.18 = 36.38 m
Pavement	2	6.15	0.40	0.60	2.95 m
Length for pipe	2	$\frac{2 \times 11}{4}$	$(1.23)^2$	$0.805 + (-) 1.91$	
					37.42 m
Qty for 2 Nos culvert					
	2	2	37.42		
				2	74.82 m
⑫ Content of embankment					
etc-all comp					
Chaining	Area	Mean Area	Distr		Volume
(m)	(m <sup>2</sup> )	(m <sup>2</sup> )	(m)		(m <sup>3</sup> )
0	1.216				
50	0.603	0.910	50	-	44.475
100	0.455	0.529	50	-	26.450
150	0.384	0.720	50	-	35.975
200	0.959	0.972	50	-	48.575
250	0.989	0.974	50	-	48.700
300	0.937	0.963	50	-	48.150
350	1.077	1.007	50	-	50.350
400	0.847	0.362	50	-	48.100
450	1.025	0.736	50	-	46.800
500	1.006	1.016	50	-	50.775
550	0.942	0.974	50	-	48.700
600	1.001	0.972	50	-	48.575
650	1.450	1.246	50	-	62.275
700	1.333	1.442	50	-	72.075
740	1.298	1.346	50	-	53.820

Continuation

734.795  
m<sup>3</sup>i.e 734.80 m<sup>3</sup>

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) 150 m long					
avg - 80 ft. of 734.80 m <sup>2</sup>					
	2	587.84 m <sup>2</sup>			

$$\text{b) } 1000 \text{ m lead} \\ = 20\% \text{ of } 734.80 \\ = 146.96 \text{ m}^3$$

<del>12/12/23</del>	<del>30/12/2023</del>	<del>AE</del>
30/12/2023	AEC	30/12/2023 AEC

Combination of subgrade & earthwork to be calculated					
Subgrade -	10	30.00	7.70	0.300	87.69 m <sup>3</sup>
	10	30.00	7.70	0.300	87.69 m <sup>3</sup>
	3	30.00	7.70	0.300	207.38
	1	10.00	7.70	0.300	23.10
					1617.00 m <sup>3</sup>
	10	1617.00 m <sup>3</sup>	3		

~~0000~~  
78/01/2029

~~2011~~  
8/11/24  
AE

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Content of 63B L. & B.					
B.T portion	LD	30m	4.05	0.20	243 m <sup>2</sup>
	TD	30m	4.05	0.200	243.00
					486.00
					ie 486.00 m <sup>2</sup>
					m <sup>2</sup>

(15) Content of eastern plot					
	2420 x 30 m x 1.325 x 0.20				318.00 m <sup>2</sup>
					ie 318.00 m <sup>2</sup>
					m <sup>2</sup>

ABSTRACT OF COST

(1) Setting out work carried out with Content of Bench mark & reference pillar.	By name TMB P/I item ①	0.800 cum (2) x 17736.00 /cum = 14189 =
(2) clearing grass & removing of rubbish.	By name TMB P/I item ①	0.421 tot (2) x 19930.80 /tot = 8371 =
		₹ 22560 =

Continuation

Particulars	No.	L.	B.	D.	of area B
					N 22560/-
(3) Excavation for roadwork Qty vide TMB P/2 item (3)					
46.12 m <sup>3</sup> @ D 103.96 /m <sup>3</sup> => 4795/-					
(4) Removal of unpayable soil with truck up to 1000 m <sup>3</sup>					
Qty vide TMB P/2 item (4)					
9.22 m <sup>3</sup> @ D 103.96 /m <sup>3</sup> => 959/-					
(5) construction of embankment with deposited soil					
Qty vide TMB P/2 item (5)					
36.90 m <sup>3</sup> @ D 83.71 /m <sup>3</sup> => 3089/-					
(6) construction of embankment upto toe of bank					
Qty vide TMB P/5 item (12)(a)					
587.84 m <sup>3</sup> @ D 217.07 /m <sup>3</sup> => 127602/-					
(7) construction of embankment upto 1550 m level					
Qty vide TMB P/5 item (12)(b)					
146.96 m <sup>3</sup> @ D 217.75 /m <sup>3</sup> => 39354/-					

Continuation

N 198359/-

Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
(8) Counter of embankment					198352
at upto 1000 m 12 a/f					
Qty visit TMB P/S item (13)					1617.00
or = P/G item (13)					318.00
					1935.00
					43
					CB 438.03 m <sup>3</sup> $\Rightarrow$ 8475882
(9) Counter of A.S.B W.I					
Qty visit TMB P/G item (14)					
486.00 m <sup>3</sup> CB 2783.93 m <sup>3</sup> $\Rightarrow$ 1353019 =					
(10) Enclosed construction					
Qty visit TMB P/B item (6)					80.12 m <sup>3</sup>
					CB 398.02 m <sup>3</sup> $\Rightarrow$ 319372
(11) P/V P.C.M - 15 (1:2:5:5)					
31 m formula = 348444					
Qty visit TMB P/B item (7)					
12.44 m <sup>3</sup> CB 6355.02 m <sup>3</sup> $\Rightarrow$ 790562					
(12) P/V type B' bedding					
32					
Qty visit TMB P/S item (8)					
4.50 m CB 575.25 m $\Rightarrow$ 2589 =					
(13) P/V A.P.B 300# duct pipe					
33					
Qty visit TMB P/S item (9)					
30.0 m CB 345.81 m $\Rightarrow$ 28374 =					
15.0 m CB 803043 m $\Rightarrow$ 121492 =					

Continuation

12634040 =  
+ 2540922 =

Particulars	Details of actual measurement				Contents of area <del>131</del>
	No.	L.	B.	D.	
					2634040=

(14)	Plin & laying 1000mm dia				2540922:
35	188'				

15.00m	138009.421m <sup>3</sup>	1,21492=

(15)	Plin p.c.e M-15 in Substr.			
35				

879 m <sup>3</sup> in 35B P 4 item (11)			
74.82 m <sup>3</sup>	136937.961m <sup>3</sup>	5235872	
		31860012	

1 f. Lab class	~8	318602	
18 f. Ch-35	~3	5734802	
		3791841	

Signatory Test

Item (6) 587.84 x 35.25 x 0.10 = 2072 m <sup>3</sup>		
Item (7) 146.36 x 35.25 x 0.10 = 518 m <sup>3</sup>		
Item (8) 1935.00 x 35.25 x 0.10 = 682 m <sup>3</sup>		
Item (9) 486.00 x 370.25 x 0.10 = 42294=		
Item (11) 12.44 x 1216.67 x 0.10 = 15142		
Item (15) 74.82 x 1216.67 x 0.10 = 9103=		
		3860012

Waste 0.11% for below	232	4246=
		3855773=

6000		
14/01/2024		
AT 5C		
2024		
14/01/24		
CAL		XE

Continuation  
100%