

Certified that this M.B. contains 100
(one hundred) Puffs by Printers Machine
and issued to Shri Dinesh M. Singh,
A.E. R.Wy. Wary Sub-Div. Nabinagar.

(MA)
5/12/17
Executive Engineer
Rural Works Department
Works Division, Aurangabad

Schedule XLV - Form No. 134.

E.C. B.W.D. - A. Sub. DIVISION.

A. Sub. SUB-DIVISION.

MEASUREMENT BOOK.

212297

Name of officer Shri Dinesh M. Singh, A.E.

Name of the person Shri Dinesh M. Singh, A.E.

Date of first entry _____

Date of last entry _____

विज्ञापन नमूना नं. १००

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 or area
	No.	L.	B.	D.	
					1st on 11th April
1) N/WORK -					Construction of road
					from Narsingpur Tenda path
					to Bahari Bigh under
					MIMSY (SC)
2) Agency -					Ramesh Kumar
					Singh, Singhpur
3) Agreement NO -					50 SB 2021-21
4) Agreement Value Rs.					59,49,202/-
5) Date of start -					8.6.2020
6) Date of completion -					7.8.2024

MEASUREMENT

CD WORK 600mm x 9 feet

28) E/W in excavation 12' and
fence

H.W. $2m \times 3.80m \times 1.15m \times 0.8m = 13.455 m^2$

Black pipe $1m \times 5.35m \times 1.13m \times 0.365m = 2.20 m^2$

$15.66 m^2$

29) Providing mixed levelled concrete
in foundation

H.W. $2m \times 3.80m \times 1.15m \times 0.15m = 1.3455 m^2$

Black pipe $1m \times 5.31m \times 1.13m \times 0.25m = 1.50 m^2$

$2.85 m^2$

30) Plain/Reinforced concrete work
in substructure

H.W. $2m \times 3.60m \times 0.70m \times 2.78 = 14.011 m^3$

Paint - $2m \times 3.60m \times 0.40m \times 0.60 = 1.728 m^2$

Reinforce $2m \times \frac{1}{4} \times (0.83)^2 \times 0.53 m = 0.574 m^2$

$15.17 m^3$

④ 31	Provide and lay 12 inch N.B.	$2 \text{ nos } 2 \text{ nos} = 5.00 \text{ m}$
	CD work 1000 mm dia	
⑤ 28	Excavation to find true L.W.	$2 \text{ nos } 6.45 \text{ m} \times 1.40 \text{ m} \times 1.50 \text{ m} = 27.09 \text{ m}^3$
	Backfill 1 no	$4.85 \text{ m} \times 1.53 \text{ m} \times 0.36 \text{ m} = 2.68 \text{ m}^3$
		29.80 m^3
⑥ 29	Provide 15 cm bedding course in foundation	
	H.W.	$2 \text{ nos } 6.45 \text{ m} \times 1.40 \text{ m} \times 0.15 \text{ m} = 2.70 \text{ m}^3$
	Backfill 1 no	$4.93 \text{ m} \times 1.53 \text{ m} \times 0.25 \text{ m} = 1.88 \text{ m}^3$
		4.60 m^3
⑦ 30	Plan / Reinforced concrete concrete in sub structure	32.26 m^3
	H.W.	$2 \text{ nos } 6.15 \text{ m} \times 0.825 \text{ m} \times 3.18 \text{ m} = 32.26 \text{ m}^3$
	Parapet	$2 \text{ nos } 6.15 \text{ m} \times 0.40 \text{ m} \times 0.60 \text{ m} = 2.95 \text{ m}^3$
	Less for pipe 2 nos	$\frac{\pi}{4} \times (1.23)^2 \times 0.62 \text{ m} = 1.47 \text{ m}^3$
		33.74 m^3
⑧ 31	Provide and lay 12 inch N.B. for culverts	$3 \text{ nos } 2.50 \text{ m} = 7.50 \text{ m}$
	ROAD WORK	
⑨ 1	Setting out Pillar Benchmark	1 nos
⑩ 2	Setting out Reference Pillar	3 nos
⑪ 3	Clear & Grubbing Road Land	$2 \text{ nos } 2 \text{ nos } 22 \text{ nos } 3 \text{ nos} = 4620 \text{ m}^2$
		0.462 Hec.

0.462 тгс.

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

⑫
④ Excavation for road way
in Soil Box cutting

Beside of Bes for provision
of Rigid Road.

2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 30mx	0.375m	X	0.10m	= 2.25m ³
2 nap 10mx	0.375m	X	0.10m	= 0.75m ³

Middle Gali

1 nap 14.30mx 0.75mx 0.10m = 1.07m³

1 nap 11.40mx 0.80mx 0.10m = 0.91m³

1 nap 6.00mx 0.75mx 0.10m = 0.45m³

1 nap 8.30mx 0.75mx 0.10m = 0.62m³

1 nap 7.60mx 1.30mx 0.90m
2 X 0.10m = 0.77m³

1 nap 17.60mx 0.90m + 1.10m
2 X 0.10m = 1.76m³

1 nap 26.20mx 0.90mx 0.10m = 2.36m³

Towards House of Langay Singh

1 nap 12.10mx 0.80mx 1.20m
2 X 0.10m = 1.21m³

1 nap 9.60mx 0.30mx 0.10m = 0.29m³

1 nap 10.10mx 1.00m + 0.30m
2 X 0.10m = 0.66m³

1 nap 5.70mx 0.60m + 0.30m
2 X 0.10m = 0.23m³

26.83m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(13) Construction of Sub grade and earthen shoulder					
B.T. Road Main Road					
11m x 5m x $\frac{4.85m + 4.00m}{2} \times 0.30m$					$= 6.64m^3$
11m x 3m x $4.00m \times 0.30m$					$= 3.60m^3$
11m x 3m x $4.00m \times 0.30m$					$= 3.60m^3$
11m x 15.50m x $4.00m \times 0.30m$					$= 18.60m^3$
11m x 14.80m x $\frac{3.50m + 3.40m}{2} \times 0.30m$					$= 16.65m^3$
11m x 17.80m x $\frac{3.40m + 3.25m}{2} \times 0.30m$					$= 18.02m^3$
Towards Bala Nadi					
11m x 5.10m x $\frac{4.90m + 4.10m}{2} \times 0.30m$					$= 6.75m^3$
11m x 8.50m x $\frac{4.10m + 3.60m}{2} \times 0.30m$					$= 9.82m^3$
11m x 10.70m x $\frac{3.60m + 3.25m}{2} \times 0.30m$					$= 11.80m^3$
11m x 12.70m x $\frac{3.75m + 3.40m}{2} \times 0.30m$					$= 13.62m^3$
11m x 9.70m x $\frac{3.40m + 3.80m}{2} \times 0.30m$					$= 10.48m^3$
11m x 5.60m x $\frac{3.80m + 3.60m}{2} \times 0.30m$					$= 6.22m^3$
					190.60m³

(14) Granular Subbase & Wheel graded material					
G.S.B. in side slopes in rigid portion					
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
2m x 30m x $0.375m \times 0.10m$					$= 2.25m^3$
					11.25m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			81A		11.25m ³
2 nx 30m		0.325m	x 0.10m		= 2.25"
2 nx 30m		0.325m	x 0.10m		= 2.25"
2 nx 10m		0.325m	x 0.10m		= 0.75"
Middle Gate					
1 nx 14.30m		0.75m	x 0.10m		= 1.07"
1 nx 11.40m		0.80m	x 0.10m		= 0.91"
1 nx 6.00m		0.75m	x 0.10m		= 0.45"
1 nx 8.30m		0.75m	x 0.10m		= 0.62"
1 nx 7.00m		1.30 + 0.90	x 0.10m		= 0.77"
		2			
1 nx 17.60m		0.90m	x 0.10m		= 1.76"
1 nx 26.20m		0.90m	x 0.10m		= 2.36"
Toward House of Samfay S/SL					
1 nx 12.10m		1.80 + 1.20	x 0.10m		= 1.82"
		2			
1 nx 9.60m		0.30m	x 0.10m		= 0.29"
1 nx 10.10m		1.00 + 0.30	x 0.10m		= 0.66"
		2			
1 nx 5.70m		0.60 + 0.30	x 0.10m		= 0.26"
		2			
Profile Correction					
6.70m		2.80m	0.15m		= 2.81"
7.10m		2.75m	0.15m		= 2.93"
8.40m		2.60m	0.20m		= 4.37"
5.80m		2.70m	0.15m		= 2.39"
4.75m		2.55m	0.20m		= 2.42"
7.30m		2.75m	0.10m		= 2.60"
5.00m		2.80m	0.10m		= 1.40"
Continuation					45.79m ³

Sch. XLV-Form No. 134 *Part* **645.79m³**

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Charge 0 - 113.10 m Main Road</u>					
1 m x 5.00 m x 4.85 m x 4.00 m				0.20 m	4.43 m ³
1 m x 3.00 m x 4.00 m x 0.20 m					24.00
1 m x 3.00 m x 4.00 m x 0.20 m					24.00
1 m x 15.50 m x 4.00 m x 0.20 m					12.40
1 m x 14.80 m x $\frac{3.50 + 3.10}{2}$ x 0.20 m					11.10
1 m x 17.80 m x $\frac{3.10 + 3.75}{2}$ x 0.20 m					12.62
<u>Towards Bela Nadi</u>					
1 m x 5.00 m x $\frac{4.90 + 4.10}{2}$ x 0.20 m					4.40
1 m x 8.50 m x $\frac{4.10 + 3.60}{2}$ x 0.20 m					6.55
1 m x 10.70 m x $\frac{3.60 + 3.75}{2}$ x 0.20 m					7.86
1 m x 12.70 m x $\frac{3.75 + 3.40}{2}$ x 0.20 m					9.08
1 m x 9.20 m x $\frac{3.40 + 3.80}{2}$ x 0.20 m					6.98
1 m x 5.60 m x $\frac{3.80 + 3.60}{2}$ x 0.20 m					4.14
					173.35

15 providing laying spreading
10 and compacting stone aggregate
within 3

<u>Charge 0 - 113.10 m Main Road</u>					
1 m x 5.00 m x $\frac{4.50 + 4.00}{2}$ x 0.075 m					
1 m x 3.00 m x 4.00 m x 0.075 m					
1 m x 3.00 m x 4.00 m					
<u>Charge 0 - 113.10 m Main Road</u>					
1 m x 5.00 m x 3.75 m x 0.075 m					1.41
1 m x 3.00 m x 3.75 m x 0.075 m					8.44
1 m x 3.00 m x 3.75 m x 0.075 m					8.44
1 m x 15.50 m x 3.75 m x 0.075 m					4.36

Continuation

22.65 m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			Avg 22.65m		
11 x 14.80m x 3.50 + 3.50				$\times 0.075m$	3.61 m ³
			2		
11 x 17.80m x 3.50 + 3.75m				$\times 0.075m$	4.50 m ³
			2		
Towards Balu Nadi					
11 x 9.00m x 3.75m				$\times 0.075m$	1.41 m ³
11 x 8.50m x 3.75 + 3.60				$\times 0.075m$	2.34 m ³
			2		2.95
11 x 10.70m x 3.60 + 3.75m				$\times 0.075m$	2.75
			2		
11 x 12.70m x 3.75m + 3.40m				$\times 0.075m$	3.41
			2		
11 x 9.70m x 3.40 + 3.75m				$\times 0.075m$	2.60
			2		
11 x 5.60m x 3.75 + 3.60m				$\times 0.075m$	1.54
			2		

Rec Portion (Main Gali)

10.30m x 2.70m + 2.50m				$\times 0.075m$	1.82 m ³
			2		
6.50m x 2.60m + 2.80m				$\times 0.075m$	1.32 m ³
			2		
10.80m x 3.75m				$\times 0.075m$	3.04 m ³
5.10m x 4.20m				$\times 0.075m$	1.61 m ³
2.10m x 4.30m				$\times 0.075m$	0.68 m ³
1.50m x 4.30m				$\times 0.075m$	0.48 m ³
3.50m x 3.80m				$\times 0.075m$	1.00 m ³
8.40m x 4.30 + 3.80m				$\times 0.075m$	2.55 m ³
			2		
3.80m x 3.80m				$\times 0.075m$	1.08 m ³
12.50m x 3.70 + 4.05m				$\times 0.075m$	3.63 m ³
			2		
8.90m x 4.05 + 3.85m				$\times 0.075m$	2.64 m ³
			2		
17.75m x 3.85 + 3.50m				$\times 0.075m$	5.09 m ³
			2		
5.40m x 3.90 + 4.20m				$\times 0.075m$	1.64 m ³
			2		
18.00m x 3.75m				$\times 0.075m$	5.06 m ³
			2		

Continuation

76.65 m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					Area $76.65 m^3$
15.20mx	3.75mx	0.075m			$= 4.28''$
9.40mx	3.75mx	0.075m			$= 2.64''$
1.00mx	5.40mx	0.075m			$= 0.41''$
Toward Lali Gali					
14.20mx	3.75mx	0.075m			$= 4.02''$
11.40mx	$\frac{3.80+3.60}{2}$	0.075m			$= 3.16''$
6.00mx	3.75mx	0.075m			$= 1.69''$
8.30mx	3.75mx	0.075m			$= 2.33''$
7.10mx	$\frac{4.30+3.90}{2}$	0.075m			$= 2.18''$
17.60mx	$\frac{3.90+4.10}{2}$	0.075m			$= 5.21''$
26.20mx	3.90mx	0.075m			$= 7.66''$
Toward House of Sanyal					
12.10mx	$\frac{4.80+4.20}{2}$	0.075m			$= 4.11''$
9.60mx	3.30mx	0.075m			$= 2.38''$
10.10mx	$\frac{4.10+3.30}{2}$	0.075m			$= 2.76''$
5.70mx	$\frac{3.60+3.30}{2}$	0.075m			$= 1.47''$
5.30mx	$\frac{3.40+2.50}{2}$	0.075m			$= 1.09''$
6.20mx	1.90mx	0.075m			$= 0.88''$
6.70mx	3.40mx	0.075m			$= 1.71''$
3.10mx	1.60mx	0.075m			$= 0.37''$
Toward Mander					
16.55mx	$\frac{3.70+4.40}{2}$	0.075m			$= 5.62''$
18.50mx	$\frac{3.40+3.25}{2}$	0.075m			$= 4.96''$
18.50mx	$\frac{3.40+3.25}{2}$	0.075m			$= 4.96''$
3.10mx	4.70mx	0.075m			$= 1.09''$
3.10mx	0.50mx	0.075m			$= 0.12''$
6.75mx	3.50mx	0.075m			$= 1.77''$
Continuation					142.92m ²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		1212			142.92 m ³
		6.75 m	3.50 m	0.075 m	= 1.77 "
		6.75 m	3.40 m	0.075 m	= 1.72 "
		7.30 m	1.55 m	0.075 m	= 0.85 "
		4.50 m	2.45 m	0.075 m	= 0.83 "
		Main gate 113.10 m on wall			
		22.80 m	3.75 m	0.075 m	= 6.41 m ³
		5.80 m	2.90 m	0.075 m	= 1.26 "
		29.30 m	3.10 + 3.70 + 3.75 + 3.50		
			4		
			X 0.075 m		= 7.72 "
		Towards House of Shamshe Mahla			
		8.80 m	3.60 m	0.075 m	= 2.38 "
		15.70 m	1.80 m	0.075 m	= 2.12 "
		6.20 m	1.70 m	0.075 m	= 0.79 "
		7.40 m	1.35 m	0.075 m	= 0.75 "
		8.10 m	1.80 m	0.075 m	= 1.09 "
		10.20 m	3.20 m	0.075 m	= 2.48 "
Nali Portion		14.80 m	3.10 + 2.60	0.075 m	= 3.11 "
		18.10 m	3.10 + 3.80	0.075 m	= 4.62 "
		8.10 m	3.85 + 4.10	0.075 m	= 2.41 "
					183.20 m ³
		Deduct Nali Portion			
		10.20 + 14.80 + 18.10 + 8.10			
		= 51.20 m	0.75 m	0.075 m	= 2.88 "
					180.32 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

16 Construction of 4m. Reinforced
14 Plain Cement Concrete
Pavement (Mangali)

$$10.30m \times \frac{2.70 + 2.40}{2} \times 0.16m = 3.87m^2$$

$$6.50m \times \frac{2.60 + 2.80}{2} \times 0.16 = 2.81m^2$$

$$10.80m \times \frac{3.80 + 3.75}{2} \times 0.16m = 6.52m^2$$

$$5.10m \times 4.20m \times 0.16m = 3.43m^2$$

$$2.10m \times 4.30m \times 0.16 = 1.44m^2$$

$$1.50m \times 4.30m \times 0.16 = 1.03m^2$$

$$3.50m \times 3.80m \times 0.16 = 2.13m^2$$

$$8.40m \times \frac{4.30 + 3.80}{2} \times 0.16 = 5.44m^2$$

$$3.80m \times 3.80m \times 0.16 = 2.31m^2$$

$$12.50m \times \frac{3.70 + 4.05}{2} \times 0.16m = 7.75m^2$$

$$8.90m \times \frac{4.05 + 3.85}{2} \times 0.16 = 5.62m^2$$

$$17.75m \times \frac{3.85 + 3.80}{2} \times 0.16 = 11.00m^2$$

$$5.40m \times \frac{3.90 + 4.20}{2} \times 0.16m = 3.50m^2$$

$$18.00m \times 3.75m \times 0.16m = 10.80m^2$$

$$15.20m \times 3.75m \times 0.16m = 9.12m^2$$

$$9.40m \times 3.75m \times 0.16m = 5.64m^2$$

$$1.00m \times 5.40m \times 0.16 = 0.86m^2$$

Bichali Gali

$$14.30m \times 3.75m \times 0.16m = 8.58m^2$$

$$11.40m \times \frac{3.80 + 3.60}{2} \times 0.16m = 6.75m^2$$

$$6.00m \times 3.75m \times 0.16m = 3.60m^2$$

$$8.30m \times 3.75m \times 0.16m = 4.98m^2$$

$$7.10m \times \frac{4.30 + 3.90}{2} \times 0.16m = 4.66m^2$$

$$17.60m \times \frac{3.90 + 4.00}{2} \times 0.16m = 11.12m^2$$

$$26.20m \times 3.90m \times 0.16m = 16.35m^2$$

Continuation

139.31m²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

121F 129.31m³

Tower of stone of Sanyal Singh

12.10m x 6.80m x 4.20m $\times 0.16m = 8.71''$

9.60m x 3.20m x 0.16m = 5.07''

10.10m x 6.10m x 3.30m $\times 0.16m = 5.90''$

5.70m x 3.60m x 3.30m $\times 0.16m = 3.15''$

5.30m x 3.10m x 2.50m $\times 0.16m = 2.33''$

6.20m x 1.90m x 0.16m = 1.88''

6.70m x 3.40m x 0.16m = 3.64''

3.10m x 1.60m x 0.16m = 0.79''

Tower of stone of Sanyal Singh

8.80m x 3.60m x 0.16m = 5.07''

15.70m x 1.80m x 0.16m = 4.52''

6.20m x 1.70m x 0.16m = 1.69''

7.40m x 1.35m x 0.16m = 1.60''

8.10m x 1.80m x 0.16m = 2.33''

Nakshatra

10.20m x 3.20m x 0.16m = 5.22''

14.80m x 3.40m x 2.60m $\times 0.16m = 6.63''$

18.10m x 3.10m x 3.80m $\times 0.16m = 9.85''$

8.10m x 3.85m x 4.10m $\times 0.16m = 5.15''$

212.84m³

17 Provisional and final of
18 of MMGSX Project = 22.25

29/10/20
DE

29/10/20
A.E

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

Abstract of cost

(1/28) Earth excavation in foundation trenches

15.66 m³ qty vide 96m (1) of 1e (1)

29.80 m³ qty vide 96m (2) of 1e (2)

45.46 m³ @ 5260 = 59/m³ 11846 = 00

(2/29) Provide m.s. of levelled concrete in foundation

2.85 m³ qty vide 96m (2) of 1e (1)

4.60 m³ qty vide 96m (2) of 1e (2)

7.45 m³

@ 5249 = 13/m³ 39106 = 00

(3/30) Plaster reinforced cement concrete in sub structure

15.17 m³ qty vide 96m (3) of 1e (1)

33.74 m³ qty vide 96m (2) of 1e (2)

48.91 m³

@ 6103 = 68/m³ 298531 = 00

(4/31) Provide 900 dia 15 R.C.C. pipe 1413 H.A.

(A) 5.00 m qty vide 96m (4) of 1e (2)

@ 1057 = 07/m - 5285 = 00

(A) 7.50 m qty vide 96m (8) of 1e (2)

@ 3853 = 47/m - 28901 = 00

(5/1) Set 700 dia pillar bench mark 1000 qty vide 96m (9) of 1e (2)

@ 4009.37/col - 4009 = 00

(6/2) Set 700 dia fence post 1/2 3000 qty vide 96m (10) of 1e (2)

@ 1828 = 87/col - 5478 = 00

393156 = 00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BM 393156=0
(7/3) Excavation ready in soft Box cutting					
(7/3) Clearing brush road					
①. 4621 m ³ qty vide 96m (11) Page 2					
					@ 494967/m ³ → 22867=0
(8/4) Excavation ready in soft Box cutting					
26.83 m ³ qty vide 96m (12) Page 3					
					@ 26206/m ³ → 699=0
(9/8) Construction of subgrade and earthen shoulder					
190.60 m ³ qty vide 96m (13) Page 4					
					@ 176247/m ³ → 33635=0
(10/9) Granular sub base with well graded material					
173.35 m ³ qty vide 96m (14) Page 5					
					@ 274172/m ³ → 475277=0
(11/10) Providing, Jacking, spreading and compacting stone of size 100mm-3					
180.32 m ³ qty vide 96m (15) Page 9					
					@ 33994=19/m ³ → 720232=0
(12/14) Construction of Reinforced plain concrete curb & kerb					
212.84 m ³ qty vide 96m (16) Page 11					
					@ 6600269/m ³ → 1404891=
					3050757=0

Continuation

