

ગાંધી વૃક્ષ રોડ ને સંગ્રહ

## Shedule XLV Form No. 134.

*Executive Engineer*

R.W.D (W), Division

A.R. ~~W.D~~

DIVISION

ARWAL

SUB-DIVISION

699

Measurement Book

पूमागित विज्ज जाता है। इस भाषी पुस्तिका  
 में मशीन द्वारा कुल 100 (सा) पृष्ठ हैं  
 इस शी सुन्दर सिद्ध मशीन द्वारा लिखित  
 अक्षरों को निम्नलिखित विज्ज जाता है।

Sch. XLV-Form No. 134

## NOTES

REFERENCE TO P.W.A CODE CHRI VII  
 Paras 39 & 81

- 1.
2. In recording detailed measurements, the following general instruction should be carefully observed:
  - [a] Subject to such subsidiary orders as may be laid down by the local Government detailed measurement should be recorded only by Executive or Assistant Engineer or by Executive subordinate in-charge of work to whom measurement book have been supplied to the Executive Engineer for the purpose:
  - [b] All measurements should be neatly taken down in a measurement book Form 23, issued for the purpose in where else.
  - [c] Each set of measurement should commence with entries stating—
    - [i] In the case of bills for work done :—
      - (a) Full name of work as given in estimate.
      - (b) Situation of work (c) Name of contractor.
      - (c) Number and date of his agreement, and
      - (d) Date of measurement.
    - [ii] In the case of bills for supply of materials :—
      - [a] Name of supplier, [b] number and date of his agreement for order, [c] purpose of supply in one of the following forms applicable to the case—
      - [i] "Stock" [ii] "Purchase for direct issue to [here entry full name of work as given to estimate]
      - [iii] "Purchases" or [here enter full name of work as given in estimate]

\_\_\_\_\_ Issued to contractor \_\_\_\_\_  
 \_\_\_\_\_ on \_\_\_\_\_ and

- [d] Date of measurements and should end with the dated initials of the officer marking the measurement, (See all paragraph 24)  
 A suitable abstract should than be prepared which/ Should collect in the case of measurements for work done the total quantities of each district item of work relating to each sanctioned Sub-head.
- [e] As all payment for work suppliers based on the quantities recorded in the measurement book it is incumbent upon the person taking the measurements to record the quantities clearly and accurately. If measurements are taken in connection with a running contract account on which work has been previously measured he is further responsible (1) that reference to the last set of measurement is recorded and (2) that if the entire job or contract has been completed the fact is recorded prominently just above his initials.
- [f] Entries should be record continuously in the measurement book No. blank pages may be left and no page be turn out. any page left blank in adventerly must be cancelled by diagonal lines, The cancellation being attested, See also paragraph 335 or the public Work Department Code.
- [g] No entry may be erased, of a mistake is made it should be correct (and deleted) by the responsible officer in the manner prescribed in paragraph 335 of the Public



1st of bill

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 work -					
Road to Saidpur road.					
Agency -					
M/s. Mac Kamakhy					
Construction & co.					
Date of start -					
22-09-2020					
Date of completion -					
21.06.2021					
Date of measurement -					
14.08.2021					

(1) Clearing and grubbing

road Land - as per T/S

$$4 \times 2 \times 30.00m \times 1.00m = 240.00m^3$$

$$6 \times 2 \times 30.00m \times 1.00m = 360.00m^3$$

$$3 \times 2 \times 30.00m \times 1.00m = 180.00m^3$$

$$7 \times 2 \times 30.00m \times 1.00m = 420.00m^3$$

$$9 \times 2 \times 30.00m \times 1.00m = 540.00m^3$$

$$1740.00m^3$$

$$0.1740m^3$$

(2) Construction of granular

Sub-base by providing

well graded material

$$5 \times 6.00m \times 0.75m \times 0.10m = 2.25m^3$$

$$2 \times 5.00m \times 1.18m \times 0.10m = 1.18m^3$$

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 x 6.00m x 1.48m x 0.14m					3.552m <sup>3</sup>
7 x 9.00m x 1.08m x 0.10m					6.80m <sup>3</sup>
8 x 5.00m x 0.180m x 0.100m					0.72m <sup>3</sup>
5 x 4.00m x 0.48m x 0.100m					0.96m <sup>3</sup>
6 x 6.00m x 1.28m x 0.100m					4.61m <sup>3</sup>
5 x 3.00m x 1.48m x 0.100m					2.28m <sup>3</sup>
					22.28m <sup>3</sup>

(3) providing, laying, spreading and compacting Stone

Aggregates WBM-II

5 x 5.00m x 0.58m x 0.075m					1.088m <sup>3</sup>
2 x 6.00m x 0.98m x 0.075m					0.882m <sup>3</sup>

4 x 4.00m x 1.28m x 0.075m					1.536m <sup>3</sup>
5 x 4.00m x 0.68m x 0.075m					1.020m <sup>3</sup>
4 x 6.00m x 2.88m x 0.075m					5.184m <sup>3</sup>
3 x 4.00m x 1.80m x 0.075m					1.62m <sup>3</sup>
5 x 5.00m x 0.28m x 0.075m					0.525m <sup>3</sup>
6 x 6.00m x 1.08m x 0.075m					2.916m <sup>3</sup>
3 x 4.00m x 1.28m x 0.075m					1.152m <sup>3</sup>
4 x 6.00m x 0.98m x 0.075m					1.764m <sup>3</sup>
					12.16m <sup>3</sup>

(4) providing, laying, spreading and compacting Stone Aggregates WBM-III

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 x 22.00m x 2.20m x 0.075m					37.25m <sup>2</sup>
4 x 3.00m x 1.20m x 0.075m					1.08m <sup>2</sup>
7 x 4.00m x 2.40m x 0.075m					5.04m <sup>2</sup>
6 x 5.00m x 1.60m x 0.075m					3.60m <sup>2</sup>
2 x 7.00m x 2.10m x 0.075m					2.205m <sup>2</sup>
1 x 17.00m x 2.30m x 0.075m					2.975m <sup>2</sup>
					<u>52.82m<sup>2</sup></u>

(5) providing and applying

prime coat with bitumen

emulsion (SS-1)

$$10 \times 22.00\text{m} \times 2.20\text{m} = 506\text{m}^2$$

$$4 \times 3.00\text{m} \times 1.20\text{m} = 14.40\text{m}^2$$

$$7 \times 4.00\text{m} \times 2.40\text{m} = 67.20\text{m}^2$$

$$6 \times 5.00\text{m} \times 1.60\text{m} = 48\text{m}^2$$

$$2 \times 7.00\text{m} \times 2.10\text{m} = 29.40\text{m}^2$$

$$1 \times 17.00\text{m} \times 2.30\text{m} = 39.10\text{m}^2$$

Add for extra widening

$$\text{on curve} = 7.10\text{m}^2$$

$$\underline{711.20\text{m}^2}$$

(6) providing and applying

tack coat with bitumen

emulsion (RS-1)

Continuation



## Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x3.00m x 3.00m					9.00m <sup>2</sup>
3x30.00m x 3.7+4.20					355.50m <sup>2</sup>
1x30.00m x 3.4+3.8					108.00m <sup>2</sup>
1x20.00m x 3.80m					76.00m <sup>2</sup>
1x20.00m x 3.8+3.4					111.40m <sup>2</sup>
2x30.00m x 3.75m					225.00m <sup>2</sup>
1x25.00m x 3.75m					93.75m <sup>2</sup>
1x18.00m x 3.75+4.2					72.45m <sup>2</sup>
13x30.00m x 3.75m					1462.50m <sup>2</sup>
1x13.00m x 3.75m					48.75m <sup>2</sup>
1x16.00m x 3.75+4					62.00m <sup>2</sup>
1x20.00m x 3.75m					112.50m <sup>2</sup>
4x20.00m x 3.75m					450.00m <sup>2</sup>
1x2.5m x 3.75m					9.375m <sup>2</sup>
1x20.5m x 9.3+3.75					133.76m <sup>2</sup>
10x22.00m x 2.30m					506.00m <sup>2</sup>
4x3.00m x 1.20m					14.40m <sup>2</sup>
7x4.00m x 4.40m					87.20m <sup>2</sup>
6x5.00m x 1.60m					48.00m <sup>2</sup>
2x7.00m x 2.10m					29.40m <sup>2</sup>
1x17.00m x 2.30m					34.10m <sup>2</sup>
2x7.00m x 2.10m					29.40m <sup>2</sup>
3x7.00m x 2.20m					44.10m <sup>2</sup>
4x8.00m x 2.30m					73.60m <sup>2</sup>
10x12.00m x 2.40m					288.00m <sup>2</sup>
11x9.00m x 2.10m					207.90m <sup>2</sup>
10x6.00m x 1.90m					114.00m <sup>2</sup>
Continuation					4790.41m <sup>2</sup>

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) providing Laying and rolling of close-graded premix Surfacing material of 20mm					
	10	22.40m	2.30m		506.00m <sup>2</sup>
	4	3.00m	1.20m		14.40m <sup>2</sup>
	7	4.00m	2.40m		67.20m <sup>2</sup>
	6	5.00m	1.60m		48.00m <sup>2</sup>
	2	7.00m	2.10m		29.40m <sup>2</sup>
	1	17.00m	2.30m		39.10m <sup>2</sup>
	1	20.00m	2.30m		46.00m <sup>2</sup>
	2	18.00m	2.50m		90.00m <sup>2</sup>
	4	12.00m	2.60m		124.80m <sup>2</sup>
	2	15.00m	2.70m		81.00m <sup>2</sup>
	5	13.00m	2.40m		156.00m <sup>2</sup>
	10	7.00m	2.20m		154.00m <sup>2</sup>
					<del>154.00m<sup>2</sup></del>
					1348.90m <sup>2</sup>

(8) providing and Laying Semi dense bituminous concrete (F.D.B.C)					
	1	3.00	2.00	0.025m	0.225m <sup>3</sup>
	3	30.00m	$\frac{3.20+4.20}{2}$	0.025m	8.89m <sup>3</sup>
	1	30.00m	$\frac{3.40+3.80}{2}$	0.025m	2.70m <sup>3</sup>
	1	20.00m	2.80m	0.015m	1.90m <sup>3</sup>
	1	30.00m	$\frac{3.80+3.60}{2}$	0.025m	2.775m <sup>3</sup>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x30.00m x 3.75m x 0.25m					5.63m <sup>3</sup>
1x25.00m x 3.75m x 0.25m					2.34m <sup>3</sup>
1x18.00m x $\frac{3.75+4.3}{2}$ x 0.25m					1.81m <sup>3</sup>
13x30.00m x 3.75m x 0.25m					36.56m <sup>3</sup>
1x30.00m x 3.75m x 0.25m					2.22m <sup>3</sup>
1x13.00m x 3.75m x 0.25m					1.28m <sup>3</sup>
1x16.00m x $\frac{3.75+4}{2}$ x 0.25m					1.55m <sup>3</sup>
1x30.00m x 3.75m x 0.25m					4.36m <sup>3</sup>
4x30.00m x 3.75m x 0.25m					11.25m <sup>3</sup>
1x2.5m x 3.75m x 0.25m					0.233m <sup>3</sup>
1x20.50m x $\frac{9.3+3.25}{2}$ x 0.25m					3.34m <sup>3</sup>
					84.783

(9) Construction of sub					
grade and earthen					
Shoulder with approved					
2x2x30.00m x 1.125 x 0.30m					40.50m <sup>3</sup>
2x4x30.00m x 1.125 x 0.30m					81.00m <sup>3</sup>
2x1x25.00m x 2.00m x 0.30m					30.00m <sup>3</sup>
2x8x30.00m x 1.125m x 0.30m					162m <sup>3</sup>
2x2x30.00m x 1.50m x 0.20m					54m <sup>3</sup>
2x3x30.00m x 1.125m x 0.30m					60.75m <sup>3</sup>
2x2x30.00m x 1.70m x 0.20m					61.20m <sup>3</sup>
1x2x30.00m x 1.125m x 0.20m					10.25m <sup>3</sup>
1x2x30.00m x $\frac{1.7+1.8}{2}$ x 0.20m					31.50m <sup>3</sup>
2x3x30.00m x 1.125m x 0.30m					60.75m <sup>3</sup>
					601.95m <sup>3</sup>

Continuation



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) kilometre stone					
km - 1 x 2					2 No
(11) kilometre stone					
2.5 m stone					
1 x 3					3 Nos
(12) providing and fixing					
of typical masonry					
ferry dory sign board					
with logo					
1 x 3					3 Nos
(13) providing and					
fixing of retro-reflect					
orised cautionary					
beam equilateral					
triangle					
1 x 6					6 Nos
(14) providing and fixing					
of retro-reflect					
orised cautionary beams					
rectangular					
1 x 4					4 Nos

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) providing and fixing of rebar reinforced concrete rectangular					
		1 x 4			4 Nos
(16) planting of trees and maintenance for one year					
		70/10			0.5 Nos

(17) providing and laying of hot applied thermoplastic compound					
		2 x 10 x 30 cm x 0.1 cm			60 m
		2 x 12 x 20 cm x 0.1 cm			72 m
		2 x 6 cm x 20 cm x 0.1 cm			36 m
					168 m

(18) Reinforced Cement Concrete m/s grade boundary pillars					
		1 x 11			11 Nos

Continuation

14/06/21  
JEA.E.  
16/06/21



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F			1359560 =
(6) providing and applying primer coat with bitumen emulsion (SS-1)					
711.20 m <sup>2</sup> - V.T.M.B.P. (3)					
@ 44.69/m <sup>2</sup>					31784 =
(7) providing and applying tack coat with bitumen emulsion (RS-1)					
4790.41 m <sup>2</sup> - V.T.M.B.P. (4)					
@ 15.20/m <sup>2</sup>					72814 =
(8) providing, laying and rolling of close-graded premix surfacing materials					
1348.90 m <sup>2</sup> - V.T.M.B.P. (5)					
@ 197.21/m <sup>2</sup>					266017 =
(9) providing and laying semi dense bituminous concrete					
84.783 m <sup>3</sup> - V.T.M.B.P. (6)					
@ 9960.24 m <sup>3</sup>					844456 =
					1574631 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F			1574631=
(10/11) Kilometre stone					
K.M Stone					
2 Nos - V.T.M.B.P (7)					
@ Rs 1883.32/each					3766=
(11/12) Kilometre stone					
200m Stone					
3 Nos - V.T.M.B.P (7)					
@ Rs 535.06/each					1605=
(12/13) providing and fixing of typical masonry					
masonry sign board					
with logo					
3 Nos - V.T.M.B.P (7)					
@ Rs 8842.04/each					26526=
(13/14) providing and fixing of retro-reflectorised					
cautionary beam equilateral					
6 Nos - V.T.M.B.P (7)					
@ Rs 2967.55/each					17805=
(14/15) providing and fixing of retro-reflectorised					
cautionary beam circular					

Continuation

1624333=



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B.F. ———					1624333
4 Nos - V.T.M.B.P. - (7)					
@ 13075.48/each					12302
(15/16) providing and fixing of retro-reflectored cautionary boundary marking rectangular					
4 Nos - V.T.M.B.P. - (8)					
@ 2967.85/each					11871.0
(16/17) Reinforced Cement concrete m-15 grade boundary pillars.					
11 Nos - V.T.M.B.P. - (8)					
@ 479.77/each					5277
(17/18) planting of trees and their maintenance for one year planting					
35 Nos - V.T.M.B.P. - (8)					
@ 818.84/each					28659
(18) Road marking with Hot Applied Thermoplastic compound with Reflectored					
168.00 m <sup>2</sup> - V.T.M.B.P. - (8)					

Continuation

131636204

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	←		61636204=
		@ 6725.44/m <sup>2</sup>	←		6123554=
					61759758=
less 12.21% below open					
Agreement					61214866=
					61544892=
Add G.S.T					61211170=
					61756062=
Add Labour cess					617597=
					61773659=
					14108121

JE

16/06/24  
 A.E

Continuation