

શ્રી MR-3054 અસામાન્ય કાર્યો સમાવેશ
જેમાં R E O વર્ગ

Schedule XLV Form No. 134.

Agreement No. 52MRD/2020-21,

DIVISION

SUB-DIVISION

Executive Engineer
RWD Works Division
Bhavnagar

Measurement Book

Madan Kumar Singh.

(338)

Valued MB.
2422472

प्रमाणित किया जाता है कि इस मापीयुक्त
में कुल 100 (एक सौ) पृष्ठ मशीन
द्वारा कीकित हैं एवं श्री सुधीर कुमार
सहायक अभियंता, ग्रामीण कार्य विभाग,
कार्य प्रमाणन परियोजना के मासिक
निर्गत किया जाता है।

Executive Engineer
W D Works Division
08/10/2020

Sch. XLV-Form No. 134

DIVISION

SUB-DIVISION

MEASUREMENT BOOK

No. 338

Name of Officer _____

Date of first entry _____

Date of last entry _____

Volume of MB.
3422472

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.	
	1st on final Bill				
Name of work:-	Kohnouli Gopatti To				
Bhu li REo Road.					
Agency:-	Madankumar Singh				
Package No:-					
Agreement No:-	52 MBD/ 2020				
Date of Start:-	18.05.2020				
Date of Completion:-	17.02.2021				

of MB.
422472

Record Measurement:-	17.11.20				
Date of Measurement:-	17.11.20				
(1/1) clearing and Grubbing					
Road land as per specification					
and direction of E/I.					
2x 770m x 1.0 = 1540m ²					
	= 0.15 Hect				
(2/3) Construction of drainage sub-					
base by providing well graded					
material as per specification					
E/I.					
38x 2.5x 1.35x 0.175 = 22.44m ³					
7x 4.0x 1.5x 0.175 = 7.35m ³					
	= 29.79m ³				
	Limit 29.67m ³				

Skeema Continuation
17/11/20
J.E

Sliv
17/11/20
J.E

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Measurement:-	21.11.20				
Date of Measurement:-	21.11.20				
(1/4) WBM Gr-02					
Providing, laying, spreading					
and compacting Stone aggregates.					
do - - - do - - - E/I.					
37x	2.5x	1.35x	0.075	= 9.36 m ³	
22x	3.5x	2.26x	0.075	= 12.70 m ³	
29x	3.7x	1.0x	0.075	= 8.09 m ³	
				= 30.01 m ³	
			Limit =	28.50 m ³	
Skema	21/11/20		Shiv	21/11/20	
AE			AE		

Record Measurement:-	27.11.20				
Date of Measurement:-	27.11.20				
(1/5) WBM Gr-03					
Providing and laying spreading					
and compacting stone aggregates.					
do - - - do - - - E/I.					
35x	5.72x	2.0x	0.075	= 23.03 m ³	
12x	5.50x	1.65x	0.075	= 28.16 m ³	
				= 38.19 m ³	
			Limit =	34.24 m ³	
Skema	27/11/20		Shiv	27/11/20	
AE			AE		

Continuation

Sch. XLV-Form No. 134

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

Record Measurement: - 19.01.21

Date of Measurement: -

(1/6) providing and applying primer coat with bitumen emulsion (SS-1).

44 Nos $\times$ 3.2 $\times$ 1.75 = 246.4 m²

38 Nos $\times$ 3.9 $\times$ 1.5 = 222.3 m²

= 468.7 m²

Limit = 456.53 m²

(2/7) providing and applying tack coat with bitumen

emulsion do - - - -

do - - - -

E/I.

44 Nos $\times$ 3.2 $\times$ 1.75 = 246.4 m²

38 Nos $\times$ 3.9 $\times$ 1.5 = 222.3 m²

= 468.7 m²

Limit = 456.53 m²

Sup. & part: -

(3/8) patch work over WBM using Mix-seal surface with waste plastic for bituminous

Existing C.C. Pavement. do - - -

do - - - E/I.

44 Nos $\times$ 3.2 $\times$ 1.75 = 246.4 m²

38 Nos $\times$ 3.9 $\times$ 1.5 = 222.3 m²

= 468.7 m²

Limit = 456.53 m²

Continuation

$\frac{5}{10}$	Semi-Dense Bituminous Concrete:-		
	providing and laying semi-dense		
	bituminous concrete with 100-120 TPH		
	batch type as per specification and		
	direction of E/I.		
	SDBC Qty = $\frac{2887.5 \text{ m}^2}{2232.225} \times 0.025 = 72.19 \text{ m}^2$		
$\frac{6}{12}$	(ii) Ker. stone.		68.43 m^2
	1 x 2 = 2.0 Nos.		
$\frac{7}{13}$	(ii) 20 cm stone.		
	1 x 3 = 3 Nos.		
$\frac{8}{15}$	Providing and fixing of factors -		
	reflectorised cautionary.		
	1 x 4 = 4.0 Nos.		

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
(9/16) 600m circular.				
		1x2 = 2.0 Nos.		
(10/17) 600mm x 450mm rectangular.				
		1x2 = 2.0 Nos.		
(11/18) Boundary pillars/Guard				
(11/21) Road Marking with hot applied thermoplastic compound - do -				
do - - - E/I.				
		2x $\frac{320.00}{770} \times 0.10 = 146.00$		154m ²
(12/22) Construction of sub-grade and earthen shoulder with approved materials - do -				

$$\text{do - - - E/I. R.H.S} = 1 \times 161.7 \text{ m}^3 = 161.7 \text{ m}^3$$

L.H.S Side:-

$$10 \times 30 \text{ m} \times 0.70 \times 0.30 = 63 \text{ m}^3$$

$$10 \times 30 \text{ m} \times 0.70 \times 0.30 = 63 \text{ m}^3$$

$$5 \times 30 \text{ m} \times 0.70 \times 0.30 = 31.5 \text{ m}^3$$

$$1 \times 20 \text{ m} \times 0.70 \times 0.30 = 4.2 \text{ m}^3$$

$$\text{Same qty. R.H.S} = 161.7 \text{ m}^3 \times 2 = 323.40 \text{ m}^3$$

(13/22) providing and fixing of typical MMSy
informatory sign board.

(14/20) Planting of trees by the roadside
1x22 = 2 Nos.
1x39 = 39 Nos.

Sumat
19/10/19
ALF

15.01.21
J.E

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
Name of work: -	Kobrouli Gajpati To				
Bhuli R. E.O Road					
Package No: -	M/R 2019-2020 B&S and				
	67 Under-3054 M/R Scheme				
Agreement No: -	52 MBD/2020-2021				
Estimated cost: -					
Date of start: -	18.05.2020				
Date of completion: -	17.02.2021				
Date of entry: -	19.01.2021				

① clearing and Grubbing Road					
land do - - - - - E/I.					
Qty. vide TMB P. No - ①					
item No - ① 0.15 Hect					
② 4949.670 Hect - - - - - R, 7424200					
② Construction of sub-grade and					
earthen shoulder with approved					
materials.					
Qty. vide TMB P. No - ⑤					
item No - ② 323.40 m ³					
③ 176.75 m ³ - - - - - R, 57,160200					
③ Construction of Granular sub-base					
by providing well-graded material					
Qty. vide TMB P. No - ①					
item No - ③ 23.57 m ³					
④ 2154.29 m ³ - - - - - R, 63,917200					

Continuation Cro 1,28,501200

Sch. XLV-Form No. 134 ^{1,28,501=00}

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ WBM Gr-II 1-					
providing and laying W.B.M Gr-II					
with stone materials					
Qty. vide TMB P.No- ⑥2					
item No- ⑥4 28.50m ³					
@ 3890.89/m ³				P,	110,890200
⑤ WBM Gr- III 1-					
providing and laying W.B.M					
Gr-III with stone materials.					
Qty. vide TMB P.No- ⑥2					
item No- ⑥5 34.24m ³					
@ 3591.49/m ³				P,	1,22970200
⑥ Providing and applying					

tack-coat.

Qty. vide TMB P.No- ⑥3

item No- ⑥6 456.53m³41.40/m²

18900200

@ 14.64/m²

P, 6409200

⑦ Providing and applying

tack-coat.

Qty. vide TMB P.No- ⑥3

item No- ⑥7 456.73m³@ 14.64/m²

P, 6409=00

Total Rs 23,87,170200

Sch. XLV-Form No. 134 ^{1,28,501=00}

Continuation C.O. 3,87,170200

Sch. XLV-Form No. 134 B.P. 12,70,714²⁰⁰ 3,87,170²⁰⁰

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Patch work over WBM using Mix-seal surface with waste plastic cc pavement.					
Qty. vide TMB P.No. ⑥③					
Item No. ⑥⑧	456	53 m ²			94419 ²⁰⁰
@ 206.82/m ²				R,	34413 ²⁰⁰ kw
⑨ providing and applying tack coat.					
Qty. vide TMB P.No. ⑥④					
Item No. ⑥⑨	288	7.50 m ²			
@ 11.77/m ²				R,	33985 ⁰⁰
⑩ Semi-Dense Bituminous concrete.					

Qty. vide TMB P.No. ⑥④					
Item No. ⑦⑩	68	43 m ³			
@ 10357.83/m ³				R,	747731 ²⁰⁰
⑪ Kim Stone:					
Qty. vide TMB P.No. ⑥④					
Item No. ⑦⑫ (i) 2.0 H.0.1					
@ 2465.15/each				R,	4930 ²⁰⁰
⑫ (i) Kim Stone 2.0 m stone.					
Qty. vide TMB P.No. ⑥④					
Item No. ⑦⑬ (i) 3.0 H.0.1					
@ 659.83/each				R,	1979 ²⁰⁰
				Total	RS 21270.714 ²⁰⁰

Continuation C.O. 12,70,714²⁰⁰

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) Providing and fixing of retro-reflectORIZED Traffic singles.					
Qty vide TMBP No. - (64)					
item No. - (15) 4.0 Nos					
@ 3738.19/each					R. 14,956200
(14) 600mm circular					
Qty vide TMBP No. - (65)					
item No. - (16) 2.0 Nos					
@ 3838.54/each					R. 76,77200
(15) 600mm x 450mm rectangular					
Qty vide TMBP No. - (65)					
item No. - (17) 2.0 Nos					
@ 3709.42/each					R. 74,18200
(16) Boundary Pillar/Guard post					
Qty vide TMBP No. - (65)					
item No. - (18) 0.0					
@ 0.0/each					R. 0.00000
(17) Road marking with hot applied thermoplastic compound.					
Qty vide TMBP No. - (65)					
item No. - (61) 154.0m ² 146.0m ²					
@ 735.40/m ²					R. 1,13,25720
					Total 214,1401620
Sch. XLV-Form No. 134					C.O. 14,14,016200

17
20 planting of trees and by the Road side
Qty. vide TMB P. No. (03)
Item No. (20) 39 Hrs
@ 800.30 each
R, 31,212.00
10

Sch. XLV-Form No. 134 B.P. 14, 14, 016200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18 providing and fixing 1080 typical informatory sign Board					
Qty. vide TMB P. No. (05)					
Item No. (22) 2.0 Hrs					
@ 950 6.69 each					R, 19 013.20
					Total 214 33 029.20 Rs 14,64,191.20
Less for 2.11% below					- 30,895.20
					Total 214 33 029.20 Rs 14,33,296.00
Add 1% Labour cess					(+) 14,332.96
Add 12% GST					(+) 1,720.18
Rs 2 14,47,679.20 + GST 1,73,721.20					Total 2 16,21,400.40
Rs 2 16,21,400.40					
Skema					
19/10/21					

Material Statement			
① Earth	323.40 m ³ @ 23.78 m ³	R, 7690.20	
② S.M 26.5mm to 9.5mm	10.384 m ³ @ 550.83 m ³	R, 57198.20	
S.M mate 19.5mm to 2.36mm	7.417 m ³ @ 411.33 m ³	R, 3051.20	
Local Sand	11.868 m ³ @ 116.85 m ³	R, 1387.20	
③ S.M 63mm to 45mm - Gr-II	34.58 m ³ @ 427.69 m ³	R, 14790.20	
Moosam Gavel	8.36 m ³ @ 345.52 m ³	R, 2889.20	
④ S.M 53mm to 22.4mm - Gr-I	41.544 m ³ @ 458.22 m ³	R, 19036.20	
Stone screening	8.217 m ³ @ 345.52 m ³	R, 2839.20	
⑤ Emulsion SS-1	0.388 MT		
⑥ Emulsion RS-1	0.896 MT		
⑦ Bitumen S50	9.197 MT		

Continuation

Continuation