

प्रमाणित किया जाता है कि इस
मापी उत्तर में कुल 100 पत्रों
मुद्रित हैं जो महात्मा जवाहर
लाल नेहरू की स्मृति में लिखे गए हैं

V. Singh
26/10/23
Executive Engineer
Rural Works Department
Works Division Raxaul
Singh
26.10.23

Sch. XLV - Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 1162

Name of Officer _____

Date of first entry _____

Date of last entry _____

1 st on A/c 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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work	LO28 to Kachhariya Tola				
	Darga.				
Agency	Harshvardham Const.				
Agreement No	06/MSD/2023-24				
Date of work start	19.10.23				
Date of completion					
Actual Date of completion	18.12.23				
	work Done				

① Clearing & grubbing road land - - - - -					
	2x70	30.00	2.00	=	8400.00
	2x3	30.00	2.00	=	360.00
	2x1	10.00	2.00	=	40.00
					8800.00m ²
				or	0.880 Ha

② Granular subbase with well graded material (GISB br-1) - - - - -					
	1x	7.00	2.00	0.100	= 1.400
	1x	6.00	1.50	0.100	= 0.900
	1x	5.00	1.60	0.100	= 0.800
	1x	8.00	1.40	0.100	= 1.120

c/o - 4.220m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x	5.00x	1.20x	0.100	= 0.600
	1x	7.00x	1.10x	0.100	= 0.770
	1x	8.00x	1.30x	0.100	= 1.040
	1x	5.00x	1.40x	0.100	= 0.700
	1x	6.00x	1.50x	0.100	= 0.900
	1x	7.00x	2.10x	0.100	= 1.470
	1x	5.00x	2.10x	0.100	= 1.050
	1x	4.00x	1.80x	0.100	= 0.720
	1x	6.00x	2.40x	0.100	= 1.440
	1x	5.00x	1.60x	0.100	= 0.800
	1x	6.00x	2.00x	0.100	= 1.200
	1x	8.00x	2.30x	0.100	= 1.840
	1x	4.00x	2.50x	0.100	= 1.000
	1x	7.00x	2.30x	0.100	= 1.610
	1x	5.00x	2.20x	0.100	= 1.100
	1x	8.00x	1.80x	0.100	= 1.440
	1x	6.00x	2.00x	0.100	= 1.200
	1x	5.00x	2.10x	0.100	= 1.050
	1x	6.00x	2.20x	0.100	= 1.320
	1x	5.00x	2.30x	0.100	= 1.150
	1x	9.00x	2.50x	0.100	= 2.250
	1x	8.00x	2.30x	0.100	= 1.840
	1x	9.00x	2.00x	0.100	= 1.800
	1x	8.00x	2.10x	0.100	= 1.680
	1x	9.00x	1.70x	0.100	= 1.530
	2x	10.00x	1.80x	0.100	= 3.600
	2x	11.00x	2.00x	0.100	= 4.400

40 - 43.72 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	12.00X	2.10X	0.100	= 2.520
	2X	8.00X	1.70X	0.100	= 2.720
	1X	9.00X	1.70X	0.100	= 1.530
	1X	10.00X	1.80X	0.100	= 1.80
	2X	11.00X	2.00X	0.100	= 4.400
	1X	12.00X	2.10X	0.100	= 2.520
	1X	15.00X	1.70X	0.100	= 2.550
	2X	8.00X	1.80X	0.100	= 2.880
	1X	11.00X	1.60X	0.100	= 1.760
	1X	12.00X	1.40X	0.100	= 1.680
	2X	14.00X	1.30X	0.100	= 3.640
	3X	10.00X	1.50X	0.100	= 4.500
	2X	9.00X	1.60X	0.100	= 2.880
	1X	11.00X	1.70X	0.100	= 1.870
	2X	13.00X	2.30X	0.100	= 5.980
	3X	11.00X	2.30X	0.100	= 7.590
	2X	12.00X	2.00X	0.100	= 4.800
	1X	10.00X	2.60X	0.100	= 2.600
	1X	8.00X	1.80X	0.100	= 1.440
	1X	12.00X	2.20X	0.100	= 2.640
	2X	13.00X	2.00X	0.100	= 5.200
	3X	15.00X	2.00X	0.100	= 9.000
	2X	17.00X	2.20X	0.100	= 7.480
	2X	8.00X	2.20X	0.100	= 3.520
	1X	11.00X	1.80X	0.100	= 1.980
	1X	12.00X	2.00X	0.100	= 2.400
	1X	10.00X	2.10X	0.100	= 2.100

C/F - 137.70 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	15.00X	2.20X	0.100 =	3.300
	1X	10.00X	2.30X	0.100 =	2.300
	1X	12.00X	2.50X	0.100 =	3.00
	1X	9.00X	2.30X	0.100 =	2.070
	1X	11.00X	2.00X	0.100 =	2.200
	1X	9.00X	2.10X	0.100 =	1.890
					152.460 m ³
By 31.10.23 B.F.					

③ Water bound macadam with stone screening (WBM m³)

	1X	7.00X	2.10	=	14.70
	1X	6.00X	1.60	=	9.60
	1X	5.00X	1.70	=	8.50
	1X	8.00X	1.50	=	12.00
	1X	5.00X	1.30	=	6.50
	1X	7.00X	1.20	=	8.40
	1X	8.00X	1.40	=	11.20
	1X	5.00X	1.50	=	7.50
	1X	6.00X	1.60	=	9.60
	1X	7.00X	2.20	=	15.40
	1X	5.00X	2.20	=	11.00
	1X	4.00X	1.90	=	7.60
	1X	6.00X	2.50	=	15.00
	1X	5.00X	1.70	=	8.50
	1X	6.00X	2.10	=	12.60
	1X	8.00X	2.40	=	19.20

C/O - 177.30 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	4.00X	2.60	=	10.40
	1X	7.00X	2.40	=	16.80
	1X	5.00X	2.30	=	11.50
	1X	8.00X	1.90	=	15.20
	1X	6.00X	2.10	=	12.60
	1X	5.00X	2.20	=	11.00
	1X	6.00X	2.30	=	13.80
	1X	5.00X	2.40	=	12.00
	1X	9.00X	2.60	=	23.40
	1X	8.00X	2.40	=	19.20
	1X	9.00X	2.10	=	18.90
	1X	8.00X	2.20	=	17.60
	1X	9.00X	1.80	=	16.20
	2X	10.00X	1.90	=	38.00
	2X	11.00X	2.10	=	46.20
	1X	12.00X	2.20	=	26.40
	2X	8.00X	1.80	=	28.80
	1X	9.00X	1.80	=	16.20
	1X	10.00X	1.90	=	19.00
	2X	11.00X	2.10	=	46.20
	1X	12.00X	2.20	=	26.40
	1X	15.00X	1.80	=	27.00
	2X	8.00X	1.90	=	30.40
	1X	11.00X	1.70	=	18.70
	1X	12.00X	1.50	=	18.00
	2X	14.00X	1.40	=	39.20
	3X	10.00X	1.60	=	48.00

40-804.40m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2X	9.00X	1.70	=	30.60
	1X	11.00X	1.80	=	19.80
	2X	13.00X	2.40	=	62.40
	3X	11.00X	2.40	=	79.20
	2X	12.00X	2.10	=	50.40
	1X	10.00X	2.70	=	27.00
	1X	8.00X	1.90	=	15.20
	1X	12.00X	2.30	=	27.60
	2X	13.00X	2.10	=	54.60
	3X	15.00X	2.10	=	94.50
	2X	17.00X	2.30	=	78.20
	2X	8.00X	2.30	=	36.80
	1X	11.00X	1.90	=	20.90
	1X	12.00X	2.10	=	25.20
	1X	10.00X	2.20	=	22.00
	1X	15.00X	2.30	=	34.50
	1X	10.00X	2.40	=	24.00
	1X	12.00X	2.60	=	31.20
	1X	9.00X	2.40	=	21.60
	1X	11.00X	2.10	=	23.10
	1X	9.00X	2.20	=	19.80
	1X	11.00X	2.00	=	22.00
	1X	13.00X	1.60	=	20.80
	1X	14.00X	1.70	=	23.80
	1X	16.00X	1.90	=	30.40
	1X	12.00X	2.00	=	24.00
	1X	15.00X	2.20	=	33.00

C/O - 1757.00 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	10.00	2.10	=	21.00
	1X	17.00	1.40	=	23.80
	1X	16.00	1.80	=	28.80
	1X	12.00	1.90	=	22.80
	1X	14.00	1.60	=	22.40
	1X	13.00	2.00	=	26.00
	1X	16.00	2.20	=	35.20
	1X	15.00	1.80	=	27.00
	1X	12.00	2.10	=	25.20
	1X	14.00	1.90	=	26.60
	1X	17.00	2.10	=	35.70
	1X	13.00	2.20	=	28.60
	1X	11.00	2.10	=	23.10
	1X	14.00	2.20	=	30.80
	1X	12.00	2.30	=	27.60
	1X	13.00	2.40	=	31.20
	1X	14.00	2.60	=	36.40
	1X	12.00	2.10	=	25.20
	1X	15.00	2.00	=	30.00
	1X	13.00	1.90	=	24.70
	1X	12.00	2.30	=	27.60
	1X	15.00	2.60	=	39.00
	1X	16.00	2.40	=	38.40
	1X	14.00	2.50	=	35.00
	1X	15.00	1.80	=	27.00
	1X	12.00	2.00	=	24.00
	1X	16.00	1.90	=	30.40

40 - 2530.50 m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x	8.00x	2.10	=	16.80
	1x	9.00x	2.30	=	20.70
	1x	14.00x	1.80	=	25.20
	1x	17.00x	2.40	=	40.80
	1x	12.00x	1.60	=	19.20
					2653.20 m ²
				(a) 0.075 =	198.99 m ³

④ P/v & applying prime coat
with B.E. (SS-1)

Area same as Vide TMB WB m²

P - ⑧ = 2653.20 m²

⑤ P/v & applying tack coat
with B.E. (RS-1)

Area same as Vide TMB prime

coat P - ⑧ = 2653.20 m²

Add extra work -

	1x	5.00x	2.00	=	10.80
	1x	8.00x	1.80	=	10.00
	1x	6.00x	1.70	=	10.20
	1x	5.00x	1.40	=	7.00
	1x	3.00x	1.50	=	4.50
	1x	5.00x	1.30	=	6.50
	1x	6.00x	1.50	=	9.00
	1x	4.00x	1.70	=	6.80
	1x	6.00x	1.40	=	8.40

CO = 2726.40 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x	7.00x	1.50	=	10.50
	1x	6.00x	1.20	=	7.20
	1x	5.00x	1.90	=	9.50
					2753.60m

⑥ Patch work over work using
MSS

Area same as vide TMB

Tack coat A - ⑨ = 2753.60m

⑦ P/V & applying tack coat with
B.E. (RS-1)

	1x	30.00x	$\frac{4.90+3.80}{2}$	=	130.50
	1x	30.00x	$\frac{3.80+4.00}{2}$	=	117.00
	1x	5.00x	$\frac{4.00+4.05}{2}$	=	20.125
	1x	15.00x	$\frac{3.75+3.50}{2}$	=	54.375
	1x	15.00x	$\frac{3.50+3.25}{2}$	=	50.625
	1x	15.00x	$\frac{3.25+4.70}{2}$	=	59.625
	1x	15.00x	$\frac{4.70+3.60}{2}$	=	62.25
	1x	15.00x	$\frac{3.60+3.60}{2}$	=	54.00
	1x	15.00x	$\frac{3.60+3.45}{2}$	=	52.875
	1x	15.00x	$\frac{3.45+3.45}{2}$	=	51.75
	1x	15.00x	$\frac{3.45+4.25}{2}$	=	57.75
	1x	15.00x	$\frac{4.25+3.25}{2}$	=	56.25
	1x	15.00x	$\frac{3.25+3.00}{2}$	=	46.875
	1x	15.00x	$\frac{3.00+3.80}{2}$	=	51.00
	1x	15.00x	$\frac{3.80+3.50}{2}$	=	54.75

40 - 919.75m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	15.00X	$\frac{3.50+3.25}{2}$		50.625
	1X	15.00X	$\frac{3.25+3.10}{2}$		47.625
	1X	15.00X	$\frac{4.25+3.00}{2}$		54.375
	6X	15.00X	3.00		270.00
	1X	15.00X	$\frac{3.00+3.20}{2}$		46.50
	1X	15.00X	$\frac{3.20+3.30}{2}$		48.75
	1X	15.00X	$\frac{3.30+3.50}{2}$		51.00
	1X	30.00X	$\frac{3.50+3.75}{2}$		108.75
	10X	30.00X	3.75		1125.00
	10X	30.00X	3.75		1125.00
	6X	30.00X	3.75		675.00
	1X	19.00X	$\frac{3.75+4.50}{2}$		78.375
	1X	11.00X	$\frac{4.50+3.75}{2}$		45.375
	1X	30.00X	3.75		112.50
	1X	25.00X	$\frac{3.75+4.25}{2}$		100.00
	1X	18.00X	$\frac{4.25+4.30}{2}$		76.95
	1X	17.00X	$\frac{4.30+3.75}{2}$		68.425
	3X	30.00X	3.75		337.50
	1X	15.00X	$\frac{3.75+8.50}{2}$		91.875
	10X	15.00X	$\frac{8.50+3.75}{2}$		91.875
	10X	30.00X	3.75		1125.00
	3X	30.00X	3.75		337.50
	1X	30.00X	$\frac{3.75+7.45}{2}$		168.00
	1X	5.00X	$\frac{7.45+8.45}{2}$		39.75
					7195.50 sq

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Pl & laying semi dense Bituminous concrete (SDBC) -----					
Qty Vial TMB Tack coat					
P — (10)				=	7195.50
			@ 0.025 =		179.888 m ³
⑨ Dry lean cement concrete (DLCC) -----					
	3x	2.50x	1.05x	0.075 =	0.591
	7x	4.00x	1.50x	0.075 =	3.150
	5x	5.00x	2.50x	0.075 =	4.688
					8.429 m ³
⑩ Cement concrete pavement (M-30) -----					
	1x	15.00x	$\frac{6.00+3.60}{2}$	$\times 0.160 =$	11.520
	1x	15.00x	$\frac{3.60+5.00}{2}$	$\times 0.160 =$	10.320
	1x	15.00x	$\frac{5.00+3.60}{2}$	$\times 0.160 =$	10.320
	2x	15.00x	3.60x	0.160 =	17.280
	1x	15.00x	$\frac{3.60+4.00}{2}$	$\times 0.160 =$	9.120
	1x	10.00x	$\frac{4.00+5.40}{2}$	$\times 0.160 =$	7.520
	1x	15.00x	$\frac{4.40+3.90}{2}$	$\times 0.160 =$	9.960
	1x	15.00x	$\frac{3.90+3.75}{2}$	$\times 0.160 =$	9.180
	1x	10.00x	$\frac{3.75+3.75}{2}$	$\times 0.160 =$	6.00
	1x	15.00x	$\frac{4.00+3.50}{2}$	$\times 0.160 =$	9.00
	1x	15.00x	$\frac{3.50+3.15}{2}$	$\times 0.160 =$	7.980
	1x	15.00x	$\frac{3.15+3.50}{2}$	$\times 0.160 =$	7.980
Total —					116.180 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1X	15.00X	$\frac{3.50+3.25}{2}$	X0.160	= 8.10
	1X	15.00X	$\frac{3.25+3.75}{2}$	X0.160	= 8.40
	1X	15.00X	3.75	X0.160	= 9.00
	1X	15.00X	$\frac{3.75+3.45}{2}$	X0.160	= 8.880
	1X	15.00X	$\frac{3.65+3.40}{2}$	X0.160	= 8.460
	1X	15.00X	$\frac{3.40+3.75}{2}$	X0.160	= 8.580
	1X	15.00X	$\frac{3.75+3.45}{2}$	X0.160	= 8.640
	1X	10.00X	$\frac{3.45+3.75}{2}$	X0.160	= 5.76
					182.100 m ³
				Limit -	181.80 m ³

⑪ KM Stone - - - -

1X 3.00 Nos = 3.00 Nos

⑫ 200 m stone - - - -

1X 9.00 Nos = 9.00 Nos

⑬ Direction & place identification

Sign board - - - -

2X 1.20 X 0.80 = 1.92 m²

⑭ P/v & Fixing of 600 mm equla

teral triangle - - - -

1X 12.00 Nos = 12.00 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) P/v & fixing of 600 mm circular					
	1X	8.00	Nos	=	8.00 Nos
(16) P/v & fixing of 600 mm x 450 mm rectangular					
	1X	4.00	Nos	=	4.00 Nos
(17) Boundary pillars					
	1X	16.00	Nos	=	16.00 Nos
(18) Planting of tree & their maintenance					
	1X	95.00	Nos	=	95.00 Nos
(19) P/v & fixing of typical informative sign board with logo					
	1X	2.00	Nos	=	2.00 Nos
(20) Const of subgrade & earthen shoulder					
	1X	3X	30.00X0.600X0.300	=	16.20
	2X	2X	30.00X1.00X0.300	=	36.00
	1X	1X	30.00X0.600X0.300	=	5.40
	1X	7X	30.00X0.600X0.300	=	37.80
	1X	5X	30.00X0.600X0.300	=	27.00
	2X	5X	30.00X $\frac{1.20+1.00}{2}$ X0.300	=	99.00

∴ = 221.40 sq

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x5x	30.00x	$\frac{1.20+1.05}{2}$	x0.300	2 101.25
	2x4x	30.00x	$\frac{1.3+1.20}{2}$	x0.300	2 990.00
	2x1x	50.00x	$\frac{1.25+1.15}{2}$	x0.300	2 3.600
					1316.25 m ³

(21) Road marking for BT Road ---

2x60x	30.00x	0.100	=	360.00
2x3x	30.00x	0.100	=	18.00
2x1	10.00x	0.100	2	2.00
				380.00 m ²

(21) Road marking for PCC Road ---

2x10x	30.00x	30.00	=	60.00 m ²
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By
18.12.23
S.B.

Checked
18/12/23
RE

Abstract of cost

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Clearing & grubbing road land					
0.88 Ha	Vide TMB Page - ①				
	@Rs 72697.86/Ha = Rs 63974.00				
② Const. of subgrade & earthen shoulder					
1316.25 m ³	Vide TMB Page (Rp)				
	@Rs 263.33/m ³ = Rs 346608.00				
③ Granular sub base with well graded material (BSB)					
152.46 m ³	Vide TMB Page ④				
	@Rs 4719.14/m ³ = Rs 719480.00				
④ Water bound macadam with stone screening (WBM) (or-3)					
198.99 m ³	Vide TMB Page - ⑤				
	@Rs 5344.46/m ³ = Rs 1063494.00				
⑤ P/F & applying prime coat with B.E. (SS-1)					
2653.20 m ²	Vide TMB Page - ⑥				
	@Rs 60.58/m ² = Rs 160731.00				
⑥ Patch work over WBM using M.S.S					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2753.60 m ² Vide TMB Page ③					
@ Rs 291.87/m ² = Rs					803693.00
⑦ Pl & applying tack coat with B.E. (RS-1)					
2753.60 m ² Vide TMB Page ③					
7195.50 m ² Vide TMB Page ⑩					
9949.10 m ² @ Rs 20.00/m ² = Rs					206941.00
⑧ Pl & laying semi dense bituminous concrete (SDBC)					
179.888 m ³ Vide TMB Page ④					
@ Rs 14673.67/m ³ = Rs					263967.00
⑨ Dry lean cement concrete (DLCC) (M-15)					
8.429 m ³ Vide TMB Page ⑪					
@ Rs 8709.59/m ³ = Rs					73413.00
⑩ Cement concrete pavement (M-30)					
181.80 m ³ Vide TMB Page ⑫					
@ Rs 10169.46/m ³ = Rs					1848808.00
⑪ KM stone					
3.00 Nos Vide TMB Page ⑫					
@ Rs 3253.17/No = Rs					9760.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑫ 200m stone					
9.00 Nos Vide TMB Page ⑫					
@Rs 746.57/No = Rs 6719.00					
⑬ Direction & place identification signs board					
1.92 m ² Vide TMB Page ⑫					
@Rs 1544.16					
15422.16/m ² = Rs 29611.00					
⑭ P/V & fixing of 600mm equilateral triangle					
12.00 Nos Vide TMB Page ⑫					
@Rs 4726.68/No = Rs 56720.00					
⑮ P/V & fixing of 600mm circular					
8.00 Nos Vide TMB Page ⑬					
@Rs 4606.60/No = Rs 36853.00					
⑯ P/V & fixing of 600mm X 450mm rectangular					
4.00 Nos Vide TMB Page ⑬					
@Rs 4461.43/No = Rs 17846.00					
⑰ Boundary pillars					
16.00 Nos Vide TMB Page ⑬					
@Rs 714.00/No = Rs 10381.00					

14 $\frac{6}{2}$ 24 - 21680 47

Material Statement

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Earth -	1326.25	m ³			
② cement -	65.948	MT			
③ coarse sand -	144.40	m ³			
④ Aggregate -	926.992	m ³			
⑤ B.B. (SS-1) -	2.255	MT			
⑥ B.B. (RS1) -	2.726	MT			
⑦ Bitumen (S90) -	25.578	MT			

Supply of Bitumen (S90) (EEL^{DO}No-1385)

① HPCL

22.11.23	9002737707			6.148
11.11.23	9002555590			22.652
				28.80MT
				25.578MT
			Balance -	3.222MT

Supply of BE RS-10 First choice (EEL^{DO}No-1385)

22.11.23	FY23-24 FCE152			3.20
				2.726
			Balance -	0.474MT

Supply of BE SS-1 (EEL^{DO}N-1385)

22.11.23	FY23-24 FCE152			3.00
				2.255
				0.745MT

By
18/12/23
S.E.

Shishu
18/12/23
AE.

Chiranjeev
18/12/23

Continuation

1st on Ape Bill

Bill-71680472

Tax 109343120

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Sch. XLV-Form No. 134

T. Bill- 607461620

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Memo of Payment
					57-SD-35840320
					24-JT-12149320
					14-CUT-6074720
					14-SWT 6074720
820867200					Royalty- 65541200
					Steel 71681200
					14-CUTS 82252200
					Cheque-63 47183200
					Unross- 7168047200
					Parred for B 7168047200

Seventy one lac sixty eight thousand forty seven only.

12/2/20

100
12/2

Executive Engineer
Rural Works Department
Works Division, Raichur

12-2-20