

Agency Ship Parima Kiang

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Subs. No. 105

17.11.54

Baran Dandapgar Rd. to

Baran P. V. D.

17.11.54

Baran P. V. D. with Agency Book

Divided

Baran

Divided

Baran P. V. D. Book

No. 2840

Certified That This M.B. Contain (100)
Pages By Printing Machine And Issued
To Sri. Yashwantrao Yadav A.E.- R.W.D
Work Sub-Div. BARUN

Yash
10/7/20

Executive Engineer
Road Works Division, at
Work Division, Aurangabad
10/7/20

Schedule RLW - Form No. 134.

E.E. A. E. DIVISION.

A.E. BARUN SUB-DIVISION.

MEASUREMENT BOOK.

211563

2840

Name of officer

Sri Yashwantrao Yadav A.E.

BARUN

Date of first entry

Date of last entry

विशेष नमूने के तहत, नमूने :

Est B/A/C Bill

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.	Est	B/A/C Bill	

Name of work - Construction of Road from Baran chand Nagar Road to Maheta.

Name of Agency - Parmakant Singh. at village. Traini chur, Aurangabad.

Agreement No - 23 SBD/20-21.

Date of Work start - 20-7-20

Date of Comp. - 19-07-21

Agreement Rate - 10%.

Below of B.O.C.

Agreement Value - 10954.8320 of Part-A

Date of measurement:

08-12-2020

① Bench mark pillar

Qty = 2.0 Nos.

② Reference pillar

Qty = 6.0 Nos.

③ Clearing & grubbing

Road land including

$$2 \times 6.10 \times 30.0 \times 3.50 = 1260.0 \text{ m}^2$$

$$2 \times 1.20 \times 19.0 \times 3.50 = 133.0 \text{ m}^2$$

$$2 \times 1.10 \times 30.0 \times 2.45 = 2277.0 \text{ m}^2$$

$$2 \times 1.20 \times 27.0 \times 3.40 = 183.60 \text{ m}^2$$

$$2 \times 1.9 \times 30.0 \times 3.50 = 399.0 \text{ m}^2$$

Continuation

$$10 \text{ Qty} = 78486.0 \text{ m}^2$$

$$BF = Qty = 784.36 \text{ cm}^2$$

Sch. XLV-Form No. 134 2

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
2 x 1 No x 11.0 x 3.40					$= 74.80 \text{ m}^2$
2 x 5 No x 30.0 x 2.60					$= 780.00 \text{ m}^2$
2 x 1 No x 26.0 x 2.60					$= 135.20 \text{ m}^2$
2 x 1 No x 23.0 x 1.60					$= 73.60 \text{ m}^2$
2 x 7 No x ^{30.0} 30.0 x 3.50					$= 1470 \text{ m}^2$
					$= 10377.20 \text{ m}^2$

$$\text{Qty} = 1.0377 \text{ Hec.}$$

<4> Providing & Fixing
logs of project.

$$Qty = 2.0 \text{ Nos.}$$

Rate
Rs. 2.20
per log.

Date of measurement
12-12-20

<1> dismantling of existing

Structure-like p.c.
less than 60mm
3 nos 3.50 x 1.14 x 0.15 = 1.80 m³

60mm to 90mm
1 No x 3.50 x 1.54 x 0.15 = 0.81 m³

above 90mm
1 No x 6.0 x 5.0 x 0.15 = 4.50 m³

$$\text{Total} = 7.11 \text{ m}^3$$

② Dismantling of existing

Structure like - Stone/brick

760mm
3 nos 2 x 4.20 x 0.825 x 2.50 = 51.99 m³

60mm to 90mm
1 No x 2 x 6.20 x 0.825 x 3.00 = 30.69 m³

<90mm
1 No x 3.0 x 5.0 x 0.825 x 2.0 = 37.13 m³

Continuation

$$\text{Qty Total} = 119.81 \text{ m}^3$$

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
③ Dismantling of existing structure like - R.C.C.				
		$1 \times 6.0 \times 5.0 \times 0.20 = 9.10 \text{ m}^3$		
		$2 \times 6.0 \times 0.20 \times 0.30 = 1.08 \text{ m}^3$		
			$= 10.08 \text{ m}^3$	

④ Dismantling of existing

Structure like - H.P.C. less than 600 mm.

$$3 \times 10 \times 2.50 = 22.50 \text{ m}$$

⑤ Dismantling of existing

Structure - 600 mm to 900 mm

$$1 \times 5.0 = 5.0 \text{ m}$$

Round
12.50

⑥ Planting of Tree

22

Date of measurement - 15.12.20

Sch. XLV-Form No. 134

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

Construction of H.P.C.

600mm of CH-200m.

(1) Earthwork in excavation

in foundation. - 00 - - -

$$H.W. = 2 \times \frac{(3.9 + 4.0)}{2} \times 1.150 \times 1.50 = 12.62 m^3$$

Below Pipe

$$= 1 \times 5.350 \times 1.150 \times 0.865 = 2.207 m^3$$

$$= 15.83 m^3$$

(2) Providing M15 (p.c.c.)

(1:2:5:5) as leveling cum

$$H.W. = 2 \times 3.90 \times 1.150 \times 0.150 = 1.345 m^3$$

Below pipe.

$$1 \times 5.311 \times 1.150 \times 0.200 = 1.20 m^3$$

$$2.545 m^3$$

Range
15.12.20
Jt.

Date of measurement
18.12.20

(3) P.C.C M20 in Substructure

- - 00 - - 00 - -

H.W.

$$2 \times \frac{(3.70 + 3.90)}{2} \times \frac{(1.0 + 0.40)}{2} \times 2.78 = 14.789 m^3$$

$$\text{pumped} = 2 \times \frac{(3.70 + 3.90)}{2} \times 0.40 \times 0.60 = 1.824 m^3$$

Less for pipe

$$2 \times \frac{\pi}{4} \times (0.830)^2 \times 0.530 = 0.574 m^3$$

$$= 16.039 m^3$$

Continuation

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

(4) Providing and laying R.C.
pipe - N.P-3, for culvert crossing
 $3 \times 2.50 = 7.50 \text{ m}$

Ranjan
18-12-20
9/11

Date of measurement - 20-12-20

Construction of H.P.C
- 600 mm dia H-720 m

① Earth work in
excavation in foundation

H.W - $2 \times 3.90 \times 1.150 \times 1.150 = 10.455 \text{ m}^3$

$1 \times 5.350 \times 1.130 \times 0.365 = 2.207 \text{ m}^3$
 $= 15.66 \text{ m}^3$

② Providing M15 R.C.

as leveling courses

H.W - $2 \times 3.90 \times 1.15 \times 0.150 = 1.345 \text{ m}^3$

$1 \times 5.311 \times 1.130 \times 0.250 = 1.50 \text{ m}^3$
 $= 2.850 \text{ m}^3$

Ranjan
20-12-20
9/11

Date of measurement
24-12-20

③ R.C. in Substructure

H.W - $2 \times 3.65 \times (1.40 + 0.40) \times 2.780 = 14.20 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = 14.20 m^2$
Parapet		$2 \times 3.65 \times 0.40 \times 0.60$			$= 1.752 m^3$
less for pipe		$- 2 \times \frac{\pi}{4} \times (0.830)^2 \times 0.530$			$= 0.574 m^3$
					$= 15.37 m^3$

④ Providing and laying
N.P. 3 for culvert
600mm.
 $3 \times 2.50 = 7.50 m$

Revised
24.12.20
JRC

Date of receipt 23.12.20

Construction of H.P.C.
- 600mm. at CH-800m.
(Double Row.)

① Earth work in excavation.
for foundation. - Out

$$H.P.C. = 2 \times \frac{(7.60 + 7.70)}{2} \times 1.150 \times 1.50 = 26.392 m^3$$

Below pipe.

$$2 \times 5.311 \times 1.130 \times 0.250 = 2.932 m^3$$

③ P.C.C. M10 in leveling
(course in foundation)

$$2 \times 7.60 \times \frac{(1.00 + 0.40)}{2} \times 0.100 = 1.040 m^3$$

$$2 \times 7.60 \times 1.150 \times 0.150 = 2.622 m^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Below Pipe-					$B \times L = 2.622 m^3$
2 Nos 5.211		1.130	0.210		$= 2.40 m^3$
					$= 5.022 m^3$

Ready
28-12-20
Jt

Date of measurement

05-01-2021

③ P.C.C M20 in substructure.

— 200 —

$$H.W. = 2 \times 7.30 \times (1.0 + 0.40) \times 2.760$$

$$= 28.411 m^3$$

$$Porepet = 2 \times 7.30 \times 0.40 \times 0.60 = 3.504 m^3$$

(less for pipe)

$$2 \times 2 \times \frac{\pi}{4} \times (0.830)^2 \times 0.520 = 1.148 m^3$$

$$= 30.767 m^3$$

④ Providing & laying R.C.C
N.P-3 pipe for H.P.C.C.

$$2 \times 3 \times 2.50 \times 15.0 m$$

Ready
05-01-2021
Jt

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

Date of measurement

7-01-21

① Box cutting - Excavation for.

Road way in Soil. - 20m

(H- 0.10 to 150.0m)

$$2 \times 5 \text{ No} \times 30.0 \times 0.525 \times 0.100 = 5.75 \text{ m}^3$$

(H- 200m to 400m)

$$2 \times 6 \text{ No} \times 30.0 \times 0.525 \times 0.100 = 18.90 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 30.0 \times 0.525 \times 0.100 = 2.10 \text{ m}^3$$

(H- 400m to 550m)

$$2 \times 5 \text{ No} \times 30.0 \times 0.375 \times 0.175 = 19.6875$$

$$\text{Total} = 56.437 \text{ m}^3$$

② Construction of Embankment
with approved material.

60% of excavated (4+)

$$56.437 \times 60\% = 33.86 \text{ m}^3$$

Rough

07-01-21

Jr

Date of measurement

15-01-21

① Construction of subgrade
and further shoulder.

- - - - -

(H- 550m to 1560m)

$$1 \times 33 \text{ No} \times 30.0 \times \frac{(7.70 + 6.50)}{2} \times 0.300 = 2108.70 \text{ m}^3$$

$$1 \times 20.0 \times \frac{(7.70 + 6.50)}{2} \times 0.300 = 42.60 \text{ m}^3$$

Continuation

$$\text{Total} = 2151.30 \text{ m}^3$$

Rough
15-01-21
Jr

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Date of measurement					
25-01-2021					

① In-s-B- with well graded materials.

CH- 00.0 to 150m

$$2 \times 9 \text{ No} \times 30.0 \times 0.525 \times 1.00 = 19.25 \text{ m}^3$$

CH- 200m to 400m

$$2 \times 6 \text{ No} \times 30.0 \times 0.525 \times 0.100 = 18.90 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 20.0 \times 0.525 \times 0.100 = 2.10 \text{ m}^3$$

CH- 400m to 550m (c.c. Pavement)

$$2 \times 5 \text{ No} \times 30.0 \times 0.375 \times 0.100 = 11.25 \text{ m}^3$$

Overall layer 0.100 to 150m

$$2 \times 5 \text{ No} \times 30.0 \times 4.05 \times 0.100 = 60.75 \text{ m}^3$$

CH- 200m to 400 (overall)

$$2 \times 6 \text{ No} \times 30.0 \times 9.05 \times 0.100 = 16.20 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 20.0 \times 9.05 \times 0.100 = 16.20 \text{ m}^3$$

CH- 550m to 1560m

$$1 \times 33 \text{ No} \times 30.0 \times 4.05 \times 0.200 = 801.90 \text{ m}^3$$

$$1 \times 20.0 \times 4.05 \times 0.200 = 16.20 \text{ m}^3$$

Extra for Pot Repair & Refill

Correction

$$12 \text{ No} \times 4.00 \times 1.50 \times 1.60 \times 0.200 = 2.30 \text{ m}^3$$

$$3 \text{ No} \times 4.10 \times 2.10 \times 0.100 = 2.583 \text{ m}^3$$

$$6 \text{ No} \times 3.10 \times 1.10 \times 0.075 = 1.534 \text{ m}^3$$

$$5 \text{ No} \times 2.80 \times 1.65 \times 0.150 = 3.465 \text{ m}^3$$

$$8 \text{ No} \times 5.10 \times 2.10 \times 0.075 = 6.426 \text{ m}^3$$

$$3 \text{ No} \times 2.20 \times 1.10 \times 0.200 = 1.452 \text{ m}^3$$

$$4 \text{ No} \times 3.80 \times 2.75 \times 0.150 = 6.27 \text{ m}^3$$

$$5 \text{ No} \times 4.10 \times 3.10 \times 0.100 = 6.355 \text{ m}^3$$

$$3 \text{ No} \times 3.80 \times 1.80 \times 0.150 = 3.078 \text{ m}^3$$

Continuation

$$\text{Total} = 1049.413 \text{ m}^3$$

Range
25-01-21
J.E.

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

Date of measurement

13-02-21

- ① L.B.M. Providing,
laying, spreading and
compacting stone

CH - 00.00 to 150.00 m

$$5 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 42.1875 \text{ m}^3$$

CH - 200.00 to 400.00 m

$$6 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 50.625 \text{ m}^3$$

$$1 \text{ No} \times 20.0 \times 3.75 \times 0.075 = 5.625 \text{ m}^3$$

CH - 660.00 to 1560.00 m

$$30 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 253.125 \text{ m}^3$$

$$\text{Total} = 351.4375 \text{ m}^3$$

Ranjit

13-02-21

J.S. Bhu.

Date of measurement

18-02-21

- ① Construction of subgrade
Earthen shoulder

Adjacent to L.S.D (in BT)

$$2 \times 6 \text{ No} \times 30.0 \times \frac{(1.5 + 1.20)}{2} \times 0.200 = 97.20 \text{ m}^3$$

$$2 \times 16 \text{ No} \times 30.0 \times \frac{(1.50 + 1.20)}{2} \times 0.200 = 299.2 \text{ m}^3$$

$$2 \times 14 \text{ No} \times 30.0 \times \frac{(1.60 + 1.30)}{2} \times 0.200 = 243.6 \text{ m}^3$$

Continuation

$$\text{Total} = 600.0 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$Bf = p + y = 600.10 \text{ m}^3$
					$11 \text{ Nos} \times 30.0 \times \frac{(1.50 + 1.30)}{2} \times 0.200$
					$= 92.40 \text{ m}^3$
Adjacent to LBSM ha's:					
					CH - B60 An 1560.
					$2 \times 30 \text{ Nos} \times 30.0 \times \frac{(1.20 + 1.10)}{2} \times 0.075$
					$= 155.25 \text{ m}^3$
					Total = 847.65 m ³

Rain

18.02.21
J.E.

Actual measurement -					
20.03.21					
(4+5) Construction of Embankment with approved materials. - do - do - do -					
As per graph.					
Ch. in M	C/S Area	Avg. Area	L	Volume.	
0.00	3.1250 3.250	—	—	—	
50.0	3.150	3.22	50	161.0 m ³	
100.0	3.165	3.157	50	157.875 m ³	
150.0	2.420	2.792	50	139.625 m ³	
200.0	4.100	3.260	50	163.0 m ³	
250.0	2.985	3.542	50	177.125 m ³	
300.0	2.990	2.987	50	149.375 m ³	
350.0	3.120	3.055	50	152.75 m ³	

Continuation

= 1100.75 m³

Sch. XLV-Form No. 134

$$\Delta f = f_{Ay} = 1100.75 \text{ Hz}$$

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
C/H- (m)	C/S (Area at)	Avg. Area (m ²)	L (m)	Volume (m ³)
400.0	3.320	3.22	50	161.0 m ³
450.0	3.152	3.236	50	161.80 m ³
500.0	2.185	2.668	50	133.425 m ³
550.0	2.815	2.50	50	125.0 m ³
600.0	2.100	2.457	50	122.875 m ³
650.0	1.382	1.741	50	87.05 m ³
700.00	4.132	2.757	50	137.85 m ³
750.00	4.162	4.147	50	207.35 m ³
800.00	3.930	4.046	50	202.30 m ³
850.0	2.856	3.393	50	169.65 m ³
900.00	3.626	3.241	50	162.05 m ³
950.00	3.723	3.674	50	183.725 m ³
1000.00	4.110	3.916	50	195.825 m ³

1050.0	4.130	4.120	50	206.0 m ³
1100.0	4.150	4.14	50	207.0 m ³
1150.0	3.650	3.90	50	195.0 m ³
1200.0	3.839	3.244	50	162.225 m ³
1250.0	3.785	3.312	50	165.60 m ³
1300.0	3.921	3.853	50	192.65 m ²
1350.0	3.950	3.435	50	171.67 m ³
1400.0	2.821	2.885	50	144.275 m ³
1450.0	2.612	2.716	50	135.825 m ³
1500.0	2.192	2.402	50	120.10 m ³
1550.0	2.165	2.177	60	130.62 m ³
1600.0				
			<u>Total</u>	<u>= 4981.715 m³</u>

Reduction of $\frac{1}{2}$

$$\textcircled{1} \text{ WBM } \text{mm} = 351.462 \text{ m}^3$$

② $4.5 \times 10^3 \text{ m}^3 = 1049.413 \text{ m}^3$

(3) Subgrade = Continuation = 2598.95 m^3

(*) Embankment height = 33.66 m

$$\Delta \rho_{\text{PM}} = 948.03 \text{ m}^3$$

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

$$Of = 944 = 948.03 m^3$$

$$\textcircled{1/4} \text{ Embankment for (room lead)} \\ = 337.93 m^3$$

$$\textcircled{1/5} \text{ Embankment for (room lead)} \\ = 610.10 m^3$$

Ramp
20-08-21
J. S. M.

Date of measurement
07-09-21

Construction of Box Culvert
2 X 4m X 3m

① Earth work in excavation
for foundation - - -

Box Culvert -
1 No X 10.20 X 6.0 X 0.75 = 46.35 m³

Return wall -
4 No X 5.90 X 3.90 X 1.80 = 140.90 m³
Total = 186.90 m³

② P. & C M10 for leveling
course - - -

Box - 1 X 9.20 X 6.0 X 0.10 = 5.52 m³

Return wall -
4 No X 4.90 X 2.90 X 0.20 = 11.36 m³

Continuation

Total = 16.85 m³

= 16.85 m³

Ramp
07-09-21
J. S. M.

Date of measurement
15-08-2021

Sch. XLV-Form No. 134

14

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

(9/39) Supplying, fitting and placing HYSD bars in foundation.

1. ~~W~~ off-wall -

main bar - 12mm ϕ - 150 c/c.

$2 \times 63 \text{ No} \times 2.20 = 415.8 \text{ m}$

@ 0.89 kg/m = 370.062 kg

Dist bar V/S E D/S

10mm ϕ - 200mm c/c -

$17 \text{ No} \times 2 \times 2 \times 9.25 = 629 \text{ m}$

@ 0.62 kg/m = 389.98 kg

= 760.042

= 0.760 MT

For foundation qty = 0.580 MT.

and Rest qty for substructure = 0.180 MT.

(9/43) Supplying, fitting and placing HYSD bars

in substructure

Bottom slab:

P.T.O

Continuation

Bottom Slab. 8 coal.

15

Sch. XLV-Form No.

Particulars	Details of actual measurement	Contents of area	diag	Details	length
main bed in bottom			10		9.370
Dist bed in Top			12		9.370
Dist bed in Top			10		6.12
Dist bed in bottom			10		6.12
Hummin bottom			8		1.35
Hummin wall			12		3.82
outers wall			16	1410 + 3620 + 1410	6.44
middle wall			16	1410 + 3620 + 1410	6.44
Dist. bed			10		5.92
Top humin			8		1.55
cl bed in bottom			16		3.22
cl bed in Top			16		2.47

Nos	Total length	W/mtr	Qty
41	384.0	0.62	238.0 kg
41	384.0	0.89	39.1.26 kg
2x28	281.52	0.62	174.54 kg
2x23	281.52	0.62	174.54 kg
2x2x40	248.0	0.39	96.72 kg
2x40	305.60	0.89	271.98 kg
2x41	528.08	1.58	834.36 kg
2x41	528.08	1.58	834.36 kg
2x41	528.08	1.58	834.36 kg
3x2x16	568.32	0.62	352.85 kg
2x2x41	254.20	0.59	99.13 kg
2x41x3	202.54	0.58	125.57 kg
2x41	202.54	0.62	125.57 kg
Total =			3960.566 kg

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

$Bf = \phi ty = 3960 \cdot 50 \text{ kg}$
 Say $\phi ty = 3960 \text{ MT}$
 $\phi ty \text{ vide Tmb P-14} = 0.180 \text{ mT}$
 $\text{Rammy} = 4.14 \text{ MT}$
 15.04.21
 J.E.

Date of measurement
 25/04/21

(1/38) Providing concrete
 for plain R.C. in
 open foundations
 cut off wall

$$2 \text{ No} \times 9.25 \times 0.300 \times 1.50 = 8.33 \text{ m}^3$$

Return wall

1st layer

$$4 \text{ No} \times 4.80 \times \frac{(2.40 + 2.30)}{2} \times 0.200 = 9.024 \text{ m}^3$$

2nd layer

$$4 \text{ No} \times 4.80 \times \frac{(2.30 + 2.290)}{2} \times 0.200 = 8.945 \text{ m}^3$$

3rd layer

$$4 \text{ No} \times 4.80 \times \frac{(2.290 + 2.190)}{2} \times 0.200 = 8.670 \text{ m}^3$$

4th layer

$$4 \text{ No} \times 4.80 \times \frac{(2.190 + 2.0)}{2} \times 0.200 = 16.08 \text{ m}^3$$

5th layer

$$4 \text{ No} \times 4.80 \times \frac{(2.0 + 1.800)}{2} \times 0.40 = 14.592 \text{ m}^3$$

$$4 \text{ No} \times 4.80 \times \frac{(1.8 + 1.70)}{2} \times 0.20 = 6.74 \text{ m}^3$$

$$\text{Total } \phi ty = 68.874 \text{ m}^3$$

Rammy
 25.04.21
 J.E.

Continuation
 Say limit $\phi ty = 71.09 \text{ m}^3$

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

Date of measurement

02-05-2021

(1) R.C.C. in Substructure
moor grade of concrete

Return wall

$$4 \text{ Nos} \times 4.80 \times \frac{(1.70 + 0.40)}{2} \times 2.90$$

$$= 58.464 \text{ m}^3$$

$$\text{Say limit } 17 = 53.77 \text{ m}^3$$

(2) Providing weephole
in Brick masonry / stone

$$\phi / \text{ft} = 60 \text{ Nos}$$

(2) R.C.C. in M.P.S

Grade of concrete in

Substructure -

Bottom slab -

$$1 \text{ No} \times 9.30 \times 6.0 \times 0.350 = 19.53 \text{ m}^3$$

Side wall

$$2 \times 6.0 \times 3.0 \times 0.450 = 16.20 \text{ m}^3$$

middle wall

$$1 \text{ No} \times 6.0 \times 3.0 \times 0.350 = 6.30 \text{ m}^3$$

$$\text{Total} = 41.98 \text{ m}^3$$

(2) Back Filling behind
abutment wing wall.

and Return Wall

Behind Abutment -

$$2 \times 4.80 \times 5.30 \times 0.200 = 10.176 \text{ m}^3$$

Continuation

Ramya
02-05-2021
JTL

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

Date of measur

12-06-2021

(47) supplying fitting 1450

8mm reinforcement

in Super structure

Top slab.

main bar in Bottom - 16mm ϕ - 150%

$$41N \times 9.37 = 384.17m$$

$$@ 1.58 kg/m = 606.98kg$$

main bar in Top - 12 ϕ - 150%

$$41N \times 9.370 = 384.17m$$

$$@ 0.89 kg/m = 341.91kg$$

dist. bar in Top - 10 ϕ

$$2 \times 24 \times 6.12 = 295.68m$$

$$@ 0.62 kg/m = 183.36kg$$

dist bar in bottom - 10 ϕ

$$2 \times 24 \times 5.92 = 298.69m$$

$$@ 0.62 kg/m = 184.18kg$$

Kerb - 12 ϕ bar.

$$2 \times 4N \times 9.370 = 74.96m$$

$$@ 0.89 kg/m = 66.71kg$$

Ring bar - 8mm ϕ

$$2 \times 63 \times 1.30 = 163.80m$$

$$@ 0.39 kg/m = 63.88kg$$

for lap bar - 26 ϕ

$$20 \times 800 = 16.0m$$

$$@ 1.58 kg/m = 25.0kg$$

for lap - 12 ϕ

$$22 \times 0.75 = 16.50m$$

$$@ 0.89 kg/m = 14.68kg$$

Continuation

Total = 1492.704kg

Ranjan
12-06-21
J.R.

Supply = 1.492 MT

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

BF = Qty = 1.992 MT.

Ramp

12-06-2021

JRC

Date of measurement

27-06-2021

1/46

Providing & laying

R.C.C. in Super Structure

--- --- --- --- ---

Box Culvert

1 No x 9.30 x 6.10 x 0.350 = 19.85 m³

Hamch

5 No x 6.0 x 1/2 x 2.10 x 0.20 = 0.96 m³

Kerb

2 x 9.30 x 0.40 x 0.250 = 1.86 m³

= 22.67 m³

Soil limit Qty = 21.78 m³

2/46

Parapet Construction

R.C.C. in Super Structure

--- --- --- --- ---

2 No x 9.50 x 0.60 x 0.40 = 4.56 m³

3/50

Drainage Spout

Complete --- --- ---

Qty = 6.0 Nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(4) Providing & laying					
(5) Cement concrete					
Wearing course 120 mm					
grade 1:2:4					
$1.10 \times 9.30 \times 5.20 \times 0.075 = 3.61$					m ²
(5) Planting of tree					
(2) q/t = 135.0 nos					
Ramp					
27.06.2021					
J.B.					

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

ABSTRACT OF COST.

① Graveling & fixing of
existing bench mark.

Qty white tms P-2 = 2.0 No.

$$C.R. = 3800.17 / \text{each} = R. = 7600 = \infty$$

② Reference pillar.

Qty white tms P-1 = 6.0 No.

$$C.R. = 1719.66 / \text{each} = R. = 10318 = \infty$$

③ Clearing & leveling
Road

Qty white tms P-2
= 1.0377 Hec

$$C.R. = 51183.76 / \text{Hec} = R. = 53061 = \infty$$

④ Boxcutting - Excavation

for road way

Qty white tms P-8 = 56.437 m³

$$C.R. = 74.16 / \text{m}^3 = R. = 4185 = \infty$$

⑤ Construction of Embank

ment with material obtain

from road way of 6.0%

Qty white tms P-8 = 83.86 m³

$$C.R. = 26.11 / \text{m}^3 = R. = 884 = \infty$$

⑥ Construction of Embankment

with material obtain from

barrow pits

(100 m broad)

Qty white tms P-8 = 610.10 m³

$$C.R. = 131.03 / \text{m}^3 = R. = 79941 = \infty$$

$$C.R. = 155,989 = \infty$$

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

$$BS = PS = 1,55,939 = \infty$$

(7) Construction of Embankment with approved material - ∞ -
for - (1000 m lead)

$$\text{Qty wide rms } P-18 = 327.93 \text{ m}^3$$

$$@ PS = 174.94 / \text{m}^3 = PS = 59,117 = \infty$$

(8) Construction of subgrade

& Earthen shoulder -

(for - 1000 m lead)

$$\text{Qty wide rms } P-9 = 215.30 \text{ m}^3$$

$$\text{Qty wide rms } P-11 = 847.65 \text{ m}^3$$

$$@ PS = 176.58 / \text{m}^3 = PS = 1,49,678 = \infty$$

(9) Construction of subgrade

& Earthen shoulder -

for - (1000 m lead) -

$$\text{Qty wide rms } P-8 = 215.30 \text{ m}^3$$

$$@ PS = 141.17 / \text{m}^3 = PS = 3,03,699 = \infty$$

(10) W.S.B. with well

graded material - ∞

$$\text{Qty wide rms } P-9 = 1049.41 \text{ m}^3$$

$$@ PS = 2400.23 / \text{m}^3 = PS = 2,51,883 = \infty$$

(11) W.B.M. m-3. Provision

laying & spreading & comp.

- Chg. - ∞ - ∞

$$\text{Qty wide rms } P-10 = 851.46 \text{ m}^3$$

$$@ PS = 3695.70 / \text{m}^3 = PS = 12,98,898 = \infty$$

$$(\text{Total } PS) = 44,86,214 = \infty$$

Continuation

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

$$Bf = PS = 44,86,214 \text{ cu}$$

(12/19) Providing & fixing
log of basket -

$$\text{Qty. wire Tms P-2.0} \\ = 2.0 \text{ No.}$$

$$\text{@ PS} = 9207.24 / \text{each PS} = 18414.20$$

(13/29) Planting of Tree.
by the Road side.

$$\text{Qty. wire Tms P-2.0}$$

$$= 135 \text{ only}$$

$$\text{@ PS} = 815.26 / \text{each} = 110,060.20$$

(14/53) Dismantling of Existing
Structure like c-c.

$$\text{Qty. wire Tms P-2} = 7.11 \text{ m}$$

$$\text{@ PS} = 484.74 / \text{m}^3 = \text{PS} = 3446 \text{ cu}$$

(15/54) Dismantling of Existing
R-c-c.

$$\text{Qty. wire Tms P-2} = 10.08 \text{ m}$$

$$\text{@ PS} = 1093.44 / \text{m}^3 = \text{PS} = 11021 \text{ cu}$$

(16/55) Dismantling of Existing
Structure like Cement

$$\text{Mortar} -$$

$$\text{Qty. wire Tms P-2} = 119.81$$

$$\text{@ PS} = 231.77 / \text{m}^3 = \text{PS} = 27768 \text{ cu}$$

(17/51) Removing Pipe up
to ground.

$$\text{Qty. wire Tms P-3} = 22.50 \text{ m}$$

$$\text{@ PS} = 174.78 / \text{m} = \text{PS} = 3933 \text{ cu}$$

Continuation

$$\text{Total PS} = 46,60,856 \text{ cu}$$

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

$$B.f = RS = 4660.856 = \infty$$

18
57

Removing Pipe up
to 60mm to 100mm
- - - - -

$$\text{Qty wide Tm} P-3 = 5.0 \text{ m}$$

$$\text{RS} = 286.34 / \text{m} = RS = 1182 = \infty$$

19
31

Earthwork in excavation.

for foundation - - - - -

$$\text{Qty wide Tm} P-4 = 15.88 \text{ m}^3$$

$$\text{Qty wide Tm} P-5 = 15.66 \text{ m}^3$$

$$\text{Qty wide Tm} P-6 = 29.392 \text{ m}^3$$

$$= 60.882 \text{ m}^3$$

$$\text{RS} = 269.32 / \text{m}^3 = RS = 16,397 = \infty$$

20
32

Providing M.S.P.C

(1:2:5) - - - - -

$$\text{Qty wide Tm} P-4 = 2.545 \text{ m}^3$$

$$\text{Qty wide Tm} P-5 = 2.85 \text{ m}^3$$

$$\text{Qty wide Tm} P-7 = 5.022 \text{ m}^3$$

$$= 10.417 \text{ m}^3$$

$$\text{RS} = 4634.80 / \text{m}^3 = RS = 48280 = \infty$$

21
33

P.C.M in P.C.C

substructure - - - - -

$$\text{Qty wide Tm} P-4 = 16.039 \text{ m}^3$$

$$\text{Qty wide Tm} P-6 = 15.87 \text{ m}^3$$

$$\text{Qty wide Tm} P-7 = 30.767 \text{ m}^3$$

$$= 62.176 \text{ m}^3$$

$$\text{Qty limit Qty} = 60.68 \text{ m}^3$$

$$\text{RS} = 5426.40 / \text{m}^3 = RS = 329274 = \infty$$

$$\text{RS} = 5055.989 = \infty$$

Continuation

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

$$3 \text{ ft} = 1 \text{ m} = 5055.989 = 0$$

22/34 Providing & laying

R.C.C. N.P. 2 PIPE - 600mm

Qty wide + mm P-4 = 7.50m

Qty wide + mm P-5 = 7.50m

Qty wide + mm P-7 = 15.0m

= 30.0m

$$@ \text{RS} = 927.00/\text{m} = \text{RS} = 2781.02 = 0$$

Culvert 2.4 x 3m

23/36 Earth work in excavation

for foundation

Qty wide + mm P-13 = 186.0m³

$$@ \text{RS} = 269.32/\text{m}^3 = \text{RS} = 50093 = 0$$

24/37 Providing P.C.C. M15

gravel in foundation

Qty wide + mm P-13 = 1685m³

$$@ \text{RS} = 4634.80/\text{m}^3 = \text{RS} = 78096 = 0$$

25/38 Providing P.C.C.

M20 in Substructure

Qty wide + mm P-16 = 71.03m³

$$@ \text{RS} = 5236.30/\text{m}^3 = \text{RS} = 372249 = 0$$

26/39 Supplying Fitting &

placing HYSD bar

Qty wide + mm P-14 = 0.580MT.

$$@ \text{RS} = 45559.62/\text{MT} = \text{RS} = 26425 = 0$$

27/40 P.C.C. M20 in Sub-

structure - 2.4 x 3m

Qty wide + mm P-17 = 53.77m³

$$@ \text{RS} = 5426.40/\text{m}^3 = \text{RS} = 291778 = 0$$

Continuation

$$\text{C.O.R.S.} = 590244.02 = 0$$

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

$$B \times P = 59.02 \times 440 = 26008.8$$

28/41 Providing weep hole
in Bm.

$$Q \text{ of wire mesh } P-17 = 60.0 \text{ m}^2$$

$$@ RS = 108.50/\text{Each} = RS = 6510.00$$

29/42 R.C.C in sub structure
M25 grade of concrete.

$$Q \text{ of wire mesh } P-17 = 41.93 \text{ m}^2$$

$$@ RS = 6010.30/\text{m}^2 = RS = 252012.00$$

30/43 Supplying fitting
and placing HYSD

$$Q \text{ of wire mesh } P-16 = 4.14 \text{ m}^2$$

$$@ RS = 45700.61/\text{m}^2 = 189201.00$$

31/44 Backfilling behind
Abutment

$$Q \text{ of wire mesh } P-17 = 10.12 \text{ m}^2$$

$$@ RS = 702.46/\text{m}^2 = RS = 7144.20$$

32/45 Providing & laying

R.C.C M30 grade
in super structure

$$Q \text{ of wire mesh } P-19 = 21.78 \text{ m}^2$$

$$@ RS = 6551.05/\text{m}^2 = RS = 142682.00$$

33/47 Supplying fitting and
placing HYSD Bm.

$$Q \text{ of wire mesh } P-18 = 1.992 \text{ m}^2$$

$$@ RS = 46750.41/\text{m}^2 = 83777.00$$

$$RS = 83777.00$$

$$10. RS = 6499.989 = 6500.00$$

Continuation

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

Rs = Rs = 64,99,989 = 00.

38
47 Supplying fitting &
Placing HYSD bar
in super-structure -

Qty 1 mile T.M.P. 18 = 1.492 mt

@ Rs = 46750.41 / mt = 69752 = 00

34
48 Parapet const. P.C.C

Qty 1 mile T.M.P. 19 = 4.56 m3

@ Rs = 5426.40 / m3 = 24744 = 00

35
50 Drainage Spout
Complete -

Qty 1 mile T.M.P. 19 = 610

@ Rs = 403.09 / each = 2419 = 00

36
51 Providing & laying
Cement concrete Bedding

Courses -

Qty 1 mile T.M.P. 20 = 3.61 m3

@ Rs = 10655.53 / m3 = 38466 = 00

37
52 Total Rs = 66,35,370 = 00

Add 12% W.S.T = 7962442 = 00

Add 1% L.C = 66,354 = 00

= 74,97,968 = 00

Less 10% below (-) = 7,49,797 = 00

Net Rs = 67,48,171 = 00

Ranvijay
02.08.2021
Jt

02.08.21
9/7/21

Sch. XLV-Form No. 134

28

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

Materials STATEMENT.(1) Stone masonry - 1306.76 m^3 (2) Course sand - 525.54 m^3 (3) Stone dust - 158.157 m^3 (4) Stone chips - 291.21 m^3

Ramprasad
02-07-2021
J.E.