Satchamdi Const. Pvt. Ltd.

Rafiya Rd. to Mumshi Bigha (M.D.H.S.Y.)

Schedule XLV—Form No. 134.)

BIHAR P.W.D.

E.E. R.W.D. WORKA. BAD DIVISION

Assistant Engineer 3rd DIVISION

WORK Sub DIVISION - BARUN

MEASUREMENT BOOK.

2592

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10/7/2020

Executive Engineer
Rural Works Department
Works Division, Aurangabad
10/7/20

Schedule XLV – Form No. 134.

E.E. R.W.D A.BAD DIVISION.

Assistant Engineer SUB-DIVISION.

R.W.D WORK Sub Div- Barun

MEASUREMENT BOOK.

2592

512207

Sri Krishan Kr. Yadvendra A.E.
BARUN

Date of first entry —————

Date of last entry —————

नि.प्रा. सरकारि प्रेस, गया ।

MMGY-SX

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	
Test & RTC Bill.					
Name of work - Const. of Road from Rahua Road to Munshi-bigha.					
Name of Agency - Satchandi Const. Pvt. Ltd. Aurangabad.					
Agreement No - 132 SBD/20-21					
Head. MMGSY (SC)					
Agreement Rate - 10% below of B.O.Q. Rate					
Agreement Amt - Rs 1 /-					
Date of work started - 20.03.2021					
Date of Completion - 19.08.2021					
~~Date of measurement~~ 29-11-20					
1/1 Setting out pillar.					
Benchmark pillar -					
Qty = 2.0 Nos.					
2/2 Reference pillar -					
Qty = 7.0 Nos.					
3/3 Clearing & Grubbing					
Road land - 10 m.					
CH - 0.00 to 650 m.					
20.0 × 30.0 × 6.90 = 4140.0 m²					
Continuation					
1 No × 30.0 × 5.60 = 168.0 m²					
1 No × 20.0 × 5.80 = 116.0 m²					
Total Qty = 4424.0 m²					

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Sch. XLV-Form No. 134 2

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Qty = 4412.0 m2					
CH- 650 to 985 m.					
6 No x 30.0 x 7.0 =					1260.0 m2
5 No x 30.0 x 4.80 =					720.0 m2
1 No x 5.0 x 4.80 =					24.0 m2
CH- 985.0 m to 1850 m.					
8 No x 30.0 x 7.10 =					1704.0 m2
1 No x 25.0 x 7.10 =					177.50 m2
10 No x 30.0 x 7.0 =					2100.0 m2
10 No x 30.0 x 6.95 =					2085.0 m2
Total Qty =					12494.50 m2
3 m Qty =					1.249 [illegible]
(4) Providing & Fixing logo of Project :					
Qty = 2.0 Nos.					
[signature] 20-11-2020 J.E					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Date of measurement: 26-11-20					
(1) Dismantling existing Structure.					
Single Row 600mm to 900mm dia.					
Brickmasonry - 3 Nos x 2 x 4.0 x (1.0+0.40)/2 x 2.90 = 35.28 m³					
P.C.C - 3 Nos x 2 x 4.10 x 1.0 x 0.150 =					
= 8 Nos x 2 x 4.10 x 1.0 x 0.150 = 3.60 m³					
Hume pipe					
3 x 2 Nos x 0.50 = 15.0 m					
P.C.C below H.P.					
3 Nos x 3.20 x 1.10 x 0.150 = 1.81 m³					
For double Row 600mm to 900mm dia					
Brickmasonry					
1 x 2 Nos x 3.30 x (0.90+0.50)/2 x 1.90 = 8.778 m³					
P.C.C - 1 Nos x 2 Nos x 3.30 x 0.90 x 0.150 = 0.891 m³					
Hume pipe - 1 Nos x 3.0 x 2.50 = 7.50 m.					
P.C.C below H.P					
1 Nos x 5.30 x 1.0 x 0.125 = 6.625 m³					
For dismantling of slab culvert.					
R.C.C - 1 x 5.0 x 2.0 x 0.300 = 3.0 m³					
cum - 2 x 5.0 x 0.40 x 0.300 = 1.20 m³					
Brickmasonry					
2 Nos x 5.0 x (1.30+0.40)/2 x 2.90 = 24.65 m³					
P.C.C in Steel slab:					
1 Nos x 5.0 x 2.0 x 0.150 = 1.50 m³					

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
① Total dismantling of					
B/W — = 68.708 m3					
② P.C.C — 13.89 m3					
Say limit of 1/y : 5.70 m3					
③ R.C.C — 4.20 m3					
Say limited 1/y : 3.36 m3					
④ Hume pipe 22.50 m					
Ramya 26/11/20 Dt					

Date of measurement 02.12.20

Construction of H.P.C — 600mm ф at ch - 75m.

1st RABC

① Earth work in excavation for foundation. — —

H.W.

2 No × 3.90 × 1.20 × 1.50 = 14.04 m3

Below H.P.

1 No × 5.350 × 1.130 × 1.0 = 6.045 m3

= 20.04 m3

② Providing & fixing M15 P.C.C (1:2.5:5) in leveling course

2 × 3.90 × 1.20 × 0.150 = 1.40 m3

1 No × 5.350 × 1.130 × 0.15 = 0.906 m3

Continuation = 2.306 m3

Sch. XLV-Form No. 1345

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

(3) P.C.C. M20 in Sub-structure -do- up to formation level.

HWL- $2 \times 3.70 \times \frac{(1.0+0.55)}{2} \times 1.30 = 7.455 m^3$

Ramesh
02-12-20
J.E

Date of measurement
7-12-20

(1) P.C.C. M20 in Substructure -do- GL to R.L.

$2 No \times 3.70 \times \frac{(0.55+0.50)}{2} \times 1.40 = 5.428 m^3$

Parapet-

$2 \times 8.70 \times \frac{(0.50+0.45)}{2} \times 0.600 = 1.098 m^3$

Less For pipe.

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

$= 6.854 m^3$

Ramesh
06-12-20
J.E

06.12.20
AM

(2) Providing & laying R.C.C. M.B.3 H.P.C. to coping.

$\cdot 3 \times 2.50 = 7.50 m$

Ramesh
07-12-20
JE

Continuation

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Sch. XLV-Form No. 134 6

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Date of measurement 3.12.20					
2nd H.P.C. 600mm dia. at CH-210m					
(1) Earthwork excavation for foundation					
2 x 3.90 x 1.15 x 1.50 = 13.455m³					
below H.P.C.					
1 No x 5.360 x 1.130 x 1.10 = 6.66m³					
					= 20.11 m³
(2) Providing R.C.C M15 in leveling course					
— do —					
2 x 3.90 x 1.150 x 0.150 = 1.345m³					
1 No x 5.360 x 1.130 x 0.250 = 1.497 m³					
					2.850m³
(3) Providing M20 R.C.C in sub structure upto G.L					
H.W- 2 x 3.75 x (1.0+0.60)/2 x 1.30					
					= 7.60m³
Roofing of office J.E.					
Date of measurement.					
2nd H.P.C. 13.12.20					
(1) Providing & laying R.C.C NP2 pipe 600mm dia.					
3 x 2.50 = 7.50 m.					

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(2) P.C.C M20 in Substructure. in upto top of R.L.					
$2 \times 3.75 \times \frac{(0.60+0.90)}{2} \times 1.430$					$= 5.362\ m^3$
Ret: from pedestal					
$2 \times 3.75 \times 0.40 \times 0.60$					$= 1.80\ m^3$
Less for pipes					
$2 \times \pi \times (0.338)^2 \times 0.580 - 0.574 m^3$					
					$= 6.588\ m^3$
Revised 13-12-20 J.E.					
Date of measurement 14-12-20					
3rd R.A.B. Recommd. at R.L. 3.10					
(1) Earth work in excavation for foundation -					
$2 \times 3.90 \times 1.15 \times 1.50$					$= 13.455 m^3$
Below Pipe - $1 \times 5.350 \times 1.10 \times 0.90$					$= 6.37 m^3$
					$= 19.755 m^3$
(2) Providing P.C.C (1:2:5:8) as leveling course in foundation					
$2 \times 3.90 \times 1.15 \times 0.150$					$= 1.34\ m^3$
$1 \times 5.39 \times 1 \times 0.250$					$= 1.50\ m^3$
					$= 2.85 m^3$

Continuation

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Sch. XLV-Form No. 134 8

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(9) Providing M20 in					
Substructure ...					
... up to ...					
H.W. - $2 \times 3.75 \times \frac{(1.0 + 0.70)}{2} \times 1.30$					
					$= 8.287 m^3$
8					
Ramji 14-12-20 J.E					
Date of measurement					
3rd H.P.C 18-12-20					
(7) Providing and laying					
R.C.C pipe NP-3 for					
H.P.C —					
3 Nos × 2.50 = 7.50 m					
(2) Providing M20 in					
Substructure ... Att					
... to R.L					
$2 \times 3.75 \times \frac{(0.70 + 0.40)}{2} \times 1.40 =$					
					$= 5.775 m^3$
Parapet.					
$2 \times 3.75 \times 0.40 \times 0.60 = 1.80 m^3$					
Less for pipe -					
$2 \times \frac{\pi}{4} \times (0.380)^2 \times 0.530 = 0.[illegible] m^3$ (−)					
					$= 7.001 m^3$
Ramji 18-12-20 J.E					

Continuation

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Sch. XLV-Form No. 134 9

Particulars	Details of actual measurement No	L	B	D	Contents of area
Date of measurement 19-12-20					
9nth H.P.C box at Ch 1-520m.					
(1) Earthwork in excavation for foundation of Storm water drain @ 1' H.Wl - 2		3.90	1.20	1.50	= 19.01 m³
Below Pipe - 1		5.30	1.20	0.80	= 5.088 m³
					= 19.128 m³
(2) Providing M15 P.C.C (1:2.5:5) Leveling Coat.					
2	3.90	1.20	0.150		= 1.404 m³
1	5.30	1.20	0.95		= 1.59 m³
					= 2.994 m³
(3) Providing M20 P.C.C in substructure. Up to GL					
203.70	(1.0 + 0.75)/2		1.30		= 8.417 m³
Rough 19-12-20					19.12.20
Date of measurement 22-12-20					
(4) Providing & Fixing R.C.C - NP.3 Pipe -					
Qty =	3	1	3.50		= 7.50 m

Continuation

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Sch. XLV-Form No. 134

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

(2) Providing P.C.C M20 in substructure - Abut upto R.L

2×3.70×(0.75+0.40)/2×1.430 = 6.08m³

Parapet

2×3.70×0.40×0.60 = 1.776m³

less for HPC
2×π/4×(0.830)²×0.530 = 0.574m³
= 7.282m³

Rammanj 23-12-20 JrE

5th HPS Date of measurement 23.12.20
Const. of HPC becoming at CH-800m

(1) Earth work in excavation for foundation of structure
— Do — Do — Do

H.W. 2×3.90×1.150×1.50 = 13.455m³

Below pipe -
1×5.30×1.130×0.650 = 3.89m³
= 3.85m³
= 17.34m³
= 5.93m³

(2) Providing M15 P.C.C (1:2:5:15) in leveling course.

H.W - 2×3.90×1.150×0.150 = 1.345m³
Below pipe 1×5.30×1.130×0.250 = 1.50m³
= 2.395m³

Continuation

Rammanj 23-12-20 JrE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Date of measurement 26-12-20					
(1) Providing M20 in Substructure ... upto WL					
H.W.L. 2 × 3.75 × (1.0 + 0.70)/2 × 1.30 = 8.28 m3					
Ramesh 26-12-20 D.E.					
Date of measurement 30-12-20					
(1) Providing M20 in Substructure ...					
LWL to R.L					
H.W.L. 2 No. × 3.750 × (0.70 + 0.40)/2 × 1.430 = 5.898 m3					
Parapet – 2 × 3.75 × 0.40 × 0.60 = 1.60 m3					
Less for pipe – 2 × π/4 × (0.830)² × 0.530 = 0.574 m3					
= 7.124 m3					
Ramesh 30-12-20 D.E.					30.12.20 AE

Continuation

Date of measurement
02-01-21

12

Sch. XLV-Form No. 134

Particulars	No.	L	B	D	Contents of area
Const. of H.P.C - 1000mm ϕ (H-1.25m) 6th HO H.P.C					
① Earth work in excavation for foundation ...					
H.W:	2	6.50	1.40	1.50	= 27.30 m^3
Below pipe					
	1 No	4.850	1.530	1.10	= 8.16 m^3
				Total =	35.462 m^3
② Providing M15 (1:2:5) for leveling course ...					
H.W	2	6.50	1.40	0.150	= 2.73 m^3
	1 No	4.85	1.530	0.200	= 1.484 m^3
					4.214 m^3
③ Providing P.C.C M20 in sub structure up to LSL					
1 No × 6.10 × (1.0 + 0.75)/2 × 1.30	1 No	6.10	(1.0+0.75)/2	1.30	= 6.938 m^3
1 No × 6.15 × (1.0 + 0.85)/2 × 1.30	1 No	6.15	(1.0+0.85)/2	1.30	= 7.39 m^3
					= 14.33 m^3
Ranjan 02-01-2021 DrE					
Date of measurement 05-01-21					
① Providing RCC M20 in Substructure ... LSL to RL					
1 No × 6.10 × (0.75 + 0.40)/2 × 1.80	1 No	6.10	(0.75+0.40)/2	1.80	= 6.313 m^3

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B	D	
					Of = 9+) = 6.313m3
R.S. 1No x 6.15 x (0.85+0.110)/2 x 1.8 = 6.918m3					
				=	13.2312 m3
Parapet 1No x 6.10 x 0.40 x 0.60 = 1.464m3					
1No x 6.15 x 0.40 x 0.60 = 1.476m3					
less for pipe -					
2 x π/4 x (1.230)² x 0.685 (-) 1.478m3					
					= 19.696m3
(2) Providing & fixing logo of Project ...					
(3) Providing & laying R.C.C NP-3 for H.P. - 1000 mm ϕ.					
3 No x 2.50 = 7.50m.					
Ramji 05.01.21 JE					

Continuation

Date of measurment
07.01.21

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Const. of R.C.C Box Culvert = 2.0 x 2.0 m					
(1) Earth work in excavation for foundation - c.c. Box.					
1 No x	6.10	x 3.70	x 0.70	= 15.799 m³	
Cutoff wall.					
2 No x	3.50	x 1.30	x 1.80	= 16.38 m³	
Return wall.					
4 No x	3.50	x 3.45	x 1.80	= 86.94 m³	
				= 119.119 m3	
			Sub-total :	111.71 m³	
(2) Supplying, fitting and placing 4 MS Bars in cut-off wall 10mm ϕ					
2 x 8	x 2.70	= 43.20 m			
@ 0.62 kg/m	=			26.7841 kg	
1 No x	3 x 3.20	= 41.60 m			
@ 0.62 kg/m	=			25.792 kg	
				52.576 kg	

Ramya
07.01.21

Date of measurt.
09.1.21

(1) P.C.C M15 for leveling course - 1:2:4

Box culvert - 1 x 6.0 x 2.50 x 0.10 = 1.50 m³

Return wall - 4 No x 3.32 x 2.420 x 0.20 = 6.420 m³

= 7.92 m³

Continuation

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

(2) P.C.C.-M20 in P.C.C. for foundation ...

Cut-off-wall-

2 No x 2.50 x 0.300 x 1.50 = 2.25 m³

Ramji
09.1.21
J.E

Date of measurement
12.01.21

(1) Supplying fitting and placing HYSD bar ...

In substructure

Bottom slab-

10mm ϕ main bar - 120 c/c -

2 x 51 x 2.72 x 0.62 = 172.0 kg.

10 ϕ Dist bar 200 mm c/c

2 x 13 x 6.22 x 0.62 = 100.0 kg

Haunch - 150 mm c/c - 10 mm ϕ

2 x 41 No x 1.15 x 0.62 = 58.47 kg.

Clip - 10 mm ϕ 150 c/c

2 x 41 No x 1.42 x 0.62 = 72.20 kg

Wall - outer - 12 mm ϕ 120 c/c

2 x 51 No x 3.83 x 0.89 = 347.69 kg

Inner wall - 10 ϕ - 150 c/c.

2 x 41 No x 2.72 x 0.62 = 138.29 kg

Dist bar 10 mm ϕ

2 x 2 x 11 x 6.070 x 0.62 = 165.59 kg

= 1054.51 kg

Continuation

= 1.054 MT

Say limit = 1.01 MT

Ramji
12.1.21
J.E

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Date of measurement.					
(1) P.C.C M20 in sub foundation.					
-structure - DO - 3a					
Return wall.					
4 No x (2.92 + 1.35) x 1.80 =					
4 No x 2.92 x (2.07 + 1.35) x 1.60 / 2					= 31.395 m3
	Ram 16-01-21 J.E				16/01/21
	Date of measurement 26.01.21				
(1) P.C.C- M20 in sub.					
- structure - DO - m					
Return walls					
4 No x (1.35 + 4.40)/2 x 2.92 x 1.75					= 17.88 m3
		Say (net)			= 16.25 m3
(2) R.C.C in Sub Structure					
M25 - DO - 10 -					
Bottom slab					
1 No x 6.0 x 2.50 x 0.250					= 3.75 m3
Side wall					
2 No x 6.0 x 2.0 x 0.250					= 6.0 m3
Haunch - 4 No x 6.0 x 1/2 x 0.100 x 0.200 =					= 0.27 m3
		Total			= 10.020 m3

Continuation

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(3) Filter media - Providing & laying filter media - - - do - - B. - -					
Behind box -					
	2 ×	4.60 ×	0.510 ×	1.70	= 7.976 m3
Behind Return wall -					
	4 ×	2.30 ×	0.400 ×	1.80	= 6.624 m3
					= 14.60 m3
(4) Back filling					
	2 ×	2.92 ×	5.20 ×	0.200	= 6.07 m3
	2 ×	2.92 ×	4.50 ×	1.70	= 44.67 m3
					50.746 m3
Deduct filter media					(-) = 14.60 m3
					= 36.146 m3
					Say limit qty: 39.25 m3
Ramu 26-01-21 JE					
					Date Found: 30-01-21
(1) Supplying, fitting & placing HYSD bar in Super structure.					
Slab: bottom bar - 12mm ϕ @ 100 c/c					
	51 No. ×	2.72 ×	0.89		= 123.46 kg
Top bar 10mm ϕ 140 c/c					
	43 No. ×	2.72 ×	0.62		= 72.52 kg
Dist. bar - 10mm ϕ 90 c/c					
	2 × 13 No. ×	6.22 ×	0.62		= 100.27 kg
					= 296.25 kg

Continuation

Sch. XLV-Form No. 134 18

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			Bf = 9 Φ =		296.25 kg.
Haunch – 10 Φ. 15 = Mm c/c					
	2×41 No.	× 1.15	× 0.62	=	58.47 kg.
clip. [illegible] – 10 Φ –					
	2×41 No.	× 1.42	× 0.62	=	72.20 kg
		Total [illegible] =			426.92 kg
			=		0.426 MT.
Qty	Supplied [illegible]		=		0.390 MT.
	Ramji 30-01-21 JE			[signature] 30-01-21	
	Date of measurement 20-02-2021				
(1) Providing & laying R.C.C concrete in super structure – [illegible]					
Box Culvert – Top Slab.	1 No.	× 6.10	× 2.50	× 0.250	= 3.812 m³
Kerb	1 No.	× 9.0	× 0.40	× 0.60	
(2) Parapet – const of parapet – [illegible]					
L/S	1 No.	× 9.0	× 0.40	× 0.60	= 2.16 m³
R/S	1 No.	× 9.05	× 0.40	× 0.60	= 2.172 m³
					= 4.332 m³
			Say qty		= 4.0 m³

Continuation

Sch. XLV-Form No. 134 19

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

(3) Providing weepholes.
in Bridges - @ Rs
Qty = 30.0 Nos.

(4) Drainage Spout
Complete as -
Qty = 4.0 Nos.

Ramp
300 = 3d
D.L

7th No. Date of measurt
22-02-21
Const. of H.P.C - 600 mm.
at ch - 1.60 km.

(1) Earth work in excavation
for foundation -
H.Ab - 2No x 3.90 x 1.15 x 1.50 = 13.45 m3
Before H.P.
1No x 5.35 x 1.13 x 1.0 = 6.04 m3
Total = 19.495 m3

(2) Providing, M15 P.C.C. as
leveling Course -
upto GL:
2 x 3.90 x (1.0 + 0.75)/2 x 1.30 = } Ramp
1No x 3.30 x 1.15 x 0.250 = }
2 x 3.90 x 1.15 x 0.150 = 1.345 m3
1No x 5.35 x 1.13 x 0.250 = 1.50 m3
2.94 5m

Continuation

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Sch. XLV-Form No. 134

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

(3) Providing R.C.C
M30 in substructure
-- Do -- Do --
up to G.L.

$2 \times 3.75 \times \frac{(1.0 + 0.75)}{2} \times 1.30 = 8.531 m^3$

Ranjit
22-02-21
J.E

Date of measurement
25.02.21

(1) Providing M20 R.C.C
in sub structure
upto GL to RL
$2 \times 3.75 \times \frac{(0.075 + 0.40)}{2} \times 1.45 = 6.166 m^3$

Parapet -
$2 \times 3.75 \times 0.40 \times 0.60 = 1.80 m^3$
less for pipe -
$2 \times \frac{\pi}{4} \times (0.830)^2 + (0.530)^2 = 0.574 m^3$
$= 7.392 m^3$

(2) Providing and laying
R.C.C NP3 HP R.C.
600mm ϕ -- Do --
3 No × 2.50 = 7.50 m.

Ranjit
24.02.21
J.E

25/2/21
AV

Continuation

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
Date of measurement. 28-02-21					
① Box cutting - Excavation for Roadway in Soil: - CH- 650m to 985m.					
2 x 1 x 10 x 30.0 x 6.375 x 0.100 = 24.75m³					
2 x 1 x 10 x 5.0 x 0.375 x 0.100 = 0.375m³					
					= 25.125 m³
② Construction of Embankment for Formation - Qty = 25.125 x 60% = 15.075m³					
③ Const. of Subgrade & Earthen shoulder - CH- 0.00 to 650 m.					
20 Nos x 30.0 x (7.50+7.0)/2 x 0.300					= 1305.0m³
1 Nos x 30.0 x (7.10+6.80)/2 x 0.300					= 62.55m³
1 Nos x 30.0 x (7.0+6.80)/2 x 0.300					= 41.40m³
CH. 985m to 1850m					
8 Nos x 30.0 x (7.50+7.0)/2 x 0.300					= 522.0m³
1 Nos x 25.0 x (7.40+7.10)/2 x 0.300					= 54.375m³
10 Nos x 30.0 x (7.60+6.90)/2 x 0.300					= 652.50m³
10 Nos x 30.0 x (7.50+7.0)/2 x 0.300					= 652.50m³
Continuation					
Rough 28.02.21 Total					3290.325 m³

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22

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Date of measurement					
15-03-21					
(1) C/o G.S.B. (cons) of G.S.B with well graded of materials.					
— Do —					
CH – 0.00 to 650m					
1No × 13.0 × (6.10 + 4.05)/2 × 0.200					= 13.195 m^3
20No × 30.0 × 4.05 × 0.200 = 486.00 m^3					
1No × 7.0 × 4.05 × 0.200 = 5.67 m^3					
1No × 30.0 × 4.05 × 0.200 = 24.30 m^3					
CH – 985 m to 1450 m.					
15No × 30.0 × 4.05 × 0.200 = 364.50 m^3					
1No × 15.0 × (4.05 + 6.0)/2 × 0.200					= 15.075 m^3
1480m to 1850m.					
1No × 20.0 × (6.0 + 6.70 + 4.05)/2 × 0.200					= 21.53 m^3
2No × 30.0 × 4.05 × 0.200 = 48.60 m^3					
~~1No ×~~ 4 × 30.0 × 4.05 × 0.200 = 97.20 m^3					
1No × 19.0 × (4.05 + 5.80 + 4.05)/3 × 0.200					= 17.609 m^3 = 12.97 m^3
5No × 50.0 × 4.05 × 0.200 = 121.50 m^3					
1No × 6.0 × 4.05 × 0.200 = 4.86 m^3					
CH – 650m to 985m.					
2 × 1No × 30.0 × 0.375 × 0.100 = 12.375 m^3					
2 × 1No × 5.0 × 0.375 × 0.100 = 0.375 m^3					
Extra for Profile Correct					
1No × 4.10 × 1.50 × 0.150 = 0.9225 m^3					

Continuation

Carried qty = 1204.47 m^3

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
	Bf = (P+Y) =				1204.77m3
3No.x	2.10x	1.20x	0.075		= 0.567m3
4Nox	1.15x	0.90x	0.150		= 0.621m3
5Nox	4.10x	2.10x	0.250		= 10.762m3
3Nox	5.15x	2.15x	0.200		= 6.57m3
4Nox	7.10x	1.90x	0.200		= 10.792m3
3Nox	4.80x	2.10x	0.100		= 3.024m3
6Nox	6.25x	1.85x	0.125		= 8.671m3
3Nox	2.10x	1.20x	0.150		= 1.135m3
7Nox	3.80x	1.90x	0.150		= 5.98m3
4Nox	8.10x	2.15x	0.150		= 10.44m3
2Nox	5.70x	1.95x	0.200		= 4.446m3
	Total				= 1267.776m3

Rang
15.03.21
JE

15/3/21
AE

Date of measurement 08.04.21

1) WBM Gr. 3. - Providing laying, spreading and comp. - Chg - 00 - 7 m -

CH - 0.00 to 650m.

1Nox 15.0x (6.10+3.75)/2 x0.075 = 4.60m3

20Nox 30.0x 3.75x 0.075 = 168.75m3

1Nox 7.0x 3.75x 0.075 = 1.968m3

1Nox 30.0x 3.75x 0.075 = 8.437m3

CH. 985 to 1450m

15Nox 30.0 x 3.75 x 0.075 = 126.56m3

1Nox 15.0x (3.75+6.0)/2 x0.075 = 5.48m3

Continuation

C.O. (T+Y) = 315.995m3

Bf = Qty = 315.995 m3

2i

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
CH-1460 to 1860m					
1No x 20.0 x (6.0+6.10+3.75)/3 x 0.075					= 7.924 m3
2No x 30.0 x 3.75 x 0.075					= 16.875 m3
Curve 1No x 14.0 x (3.75+5.80+3.75)/2 x 0.075					= 4.654 m3
4No x 30.0 x 3.75 x 0.075					= 33.75 m3
Curve 1No x 16.0 x (3.75+5.90+3.75)/3 x 0.075					= 5.359 m3
4No x 30.0 x 3.75 x 0.075					= 33.75 m3
1No x 20.0 x 3.75 x 0.075					= 5.652 m3
CH 650m to 985m					
11No x 30.0 x 3.75 x 0.075					= 92.812 m3
1No x 5.0 x 3.75 x 0.075					= 1.406 m3
Total Qty =					518.177 m3

Ramya
08-04-21
JE

[signature]
08.04.21
AN

Continuation

Date of measurement
25-04-2[illegible]

Sch. XLV-Form No. 134

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

(1) Construction of Subgrade & Earthen Shoulder - - Do -

Adjacent to In.S.B in (BT Portion)

CH - 0.0m to 650 mm

2×20 No×30.0×(1.5+1.20)/2 ×0.200 = ~~4.86 cm³~~ = 324 m³

2×1 No×30.0×(1.5+1.1)/2 ×0.200 = ~~23.40~~ 15.60 m³

2×1 No×20.0×(1.5+1.10)/2 ×0.200 = ~~15.60~~ 10.40 m³

CH - 985 m to 1850 m.

×3 No×30.0×(1.5+1.2)/2 ×0.200 = ~~168~~ 129.0 m³

2×1 No×25.0×(1.5+1.2)/2 ×0.200 = 13.50 m³

2×10 No×30.0×(1.5+1.20)/2 ×0.200 = ~~243.0~~ 162.0 m³

2×10 No×30.0×(1.6+1.2)/2 ×0.200 = ~~252.0~~ 168 m³

Adjacent of W.B.M. work:

CH. 0.0m to 650 m

2×20 No×30.0×(1.20+1.0)/2 ×0.075 = 99.0 m³

2×1 No×30.0×(1.10+1.0)/2 ×0.075 = 4.725 m³

2×1 No×20.0×(1.10+1.0)/2 ×0.075 = 3.15 m³

CH - 985 m to 1850 m.

2×8 No×30.0×(1.2+1.0)/2 ×0.075 = 39.60 m³

2×1 No×25.0×(1.20+1.0)/2 ×0.075 = 4.125 m³

Co. Qty = 973.10 m³ ~~358.10 m³~~

BF = 973.10
1352.10 m3

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
2 x 10 Nos	30.0		(1.20+1.0)/2	1.075	= 49.50 m3
2 x 10 Nos	30.0		(1.20+1.0)/2	1.075	= 219.50 m3
	Total Qty = 1452.10 m3				
	Total Qty = 1072.10 m3				

Rough
25.0 4.2
S.L.

Date of measure
13.06.21

Construction of Embankment with materials obtain from borrow pit as a graph

Ch.	C/S Area	Avg Area	L	Volume
0.00	4.304	—	00	—
50.0	4.120	4.212	50	210.60 m3
100.0	4.130	4.125	50	206.25 m3
150.0	4.510	4.320	50	216.0 m3
200.0	4.612	4.561	50	228.05 m3
250.0	4.110	4.361	50	218.05 m3
300.0	4.225	4.167	50	208.375 m3
350.0	4.325	4.275	50	213.75 m3
400.0	4.730	4.527	50	226.375 m3
450.0	4.281	4.505	50	225.275 m3
500.0	4.110	4.393	50	219.65 m3
550.0	4.800	4.455	50	222.75 m3

Continuation
= 2395.12 m3

Scanned with CamScanner

B/F = Qty : 2395.1m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
CH-	C/S	AVG		L	Volume
600.0	4.	1.120	4.146	50	223.0m³
650.0	4.	1.115	4.117	50	205.87m³
700.0	4.	1.172	4.143	50	207.175m³
750.0	2.	1.152	3.162	50	158.10m³
800.0	1.	795	1.975	50	98.675m³
850.0	1.	890	1.842	50	92.125m³
900.0	2.	650	2.27	50	113.50m³
950.0	2.	980	2.815	50	140.75m³
1000.0	4.	895	3.937	50	196.875m³
1050.0	4.	312	4.60	50	230.175m³
1100.0	5.	110	4.711	50	235.55m³
1150.0	5.	625	5.367	50	268.37m³
1200.0	4.	310	4.967	50	248.375m³
1250.0	4.	215	4.262	50	213.125m³
1300	4.	198	4.206	50	210.325m³
1350.0	4.	625	4.411	50	220.575m³
1400.0	4.	795	4.68	50	234.0m³
1450.0	4.	308	4.571	50	228.075m³
1500.0	4.	925	4.616	50	230.82m³
1550.0	4.	315	4.62	50	232.0m³
1600.0	4.	100	4.20	50	210.375m³
1650.0	3.	925	4.01	50	200.62m³
1700.0	3.	675	3.80	50	190.0m³
1750.0	3.	415	3.545	50	177.25m³
1800.0	4.	185	3.80	50	190.0m³
1850.00	3.	885	4.035	50	201.75m³

Total Qty = 7963.378 m3

upto [illegible] m3

Deduction Qty –

Continuation

(1) Subgrade – 4362.425 m³

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(2) L·S·B =					1267.776m³
(3) h Brn Cx-3 =					518.177m³
(4) Box cutting =					15.075m³
Net qty =					1799.925m³
(6) Embankment for 100m lead) = qty =					933.10m³
(7) Embankment for 100m lead) = qty =					866.825m³
Ramp (1:8.04) =					15.744m³

Continuation

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
ABSTRUCT of Cost.					
(1/1) Seding out pillars.					
Bench mark pillar —					
Qty vide TMB P-1 = 2.0					
@ Rs = 3831.25/Each = Rs					7662=00
(2/2) Reference pillar.					
Qty vide TMB P-1 = 7.0					
@ Rs = 1733.34/Each = Rs					12133=00
~~(3/3) Box cutting - Excavation of Road way in Soil — Do — Do —~~					
~~Qty vide TMB P~~					
(3/3) Clearing & Grubbing Road land — Do —					
Qty vide TMB P-2 = 1.249 Hec.					
@ Rs = 51133.76/Hec = Rs					63866=00
(4/4) Box cutting - Excavation of Road way in Soil — Do — Do — Do.					
Qty vide TMB P-21 = 25.25 m3					
@ Rs = 74.16/m^3 = Rs =					1863=00
(5/5) Const. of Embankment 60% of Box Cutting					
Qty vide TMB P-21 = 15.073 m3					
@ Rs = 26.11/m^3 = Rs =					394=00
		Total Rs =			85918=00

Continuation

Sch. XLV-Form No. 134 30

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

B/F = RS = 35918=00

(6/6) Construction of Embank-ment. with materials. for (1000m lead)

Qty wide TMB P-28 = 938.10m3

@ RS = 174.04/m3 = RS = 1,63,236=00

(7/2) Const. of Embankment with material obtain borrow pit for (1000m lead) - do - ——

Qty wide TMB P-28 = 866.825m3

@ RS = 131.03/m3 = RS = 1,13,580=00

(8/8) W.G.B. with well graded materials.

- do - —

Qty wide TMB P-23 = 1267.226m3

@ RS = 2326.93 /m3 = RS = 2950,026=00

(9/9) Const. of Subgrade and Earthen Shoulder

- do - do -

Qty wide TMB P-21 = 3290.325m3

Qty wide TMB P-26 = 1072.10m3

= 4362.425m3

@ RS = 176.58/m3 = RS = 7,70317=00

(10/10) WBM Gr-3, Providing laying & spreading - do - do -

Qty wide TMB P-24 = 518.127m3

@ RS = 3487.32 /m3 = RS = 1807049=00

Continuation

C.RS = 58,90126=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
B/F = RS = 58,70,126=00					
(11) Providing & Fixing Scope of Promoent.					
Qty wide TMB P-2 = 2.0					
@RS = 9199.90/each = RS = 18,399=00					
(12) Dismantling of existing Structure like P.c.c					
~~Qty wide TMB P-3 = 3.69m3~~					
~~Qty wide TMB P-3 = 1.184m3~~ Rate					
~~Qty wide TMB P-3 =~~					
Qty wide TMB P-4 = 5.70m3					
@RS = 484.74/m3 = RS = 2763=00					
(13) Dismantling of existing Structure Brickwork.					
Qty wide TMB P-4 = 68.778m3					
@RS = 231.77/m3 = RS = 15924=00					
(14) Dismantling of existing Structure like R.C.C					
Qty wide TMB P-4 = 3.36m3					
@RS = 1093.44/m3 = RS = 3674=00					
(15) Dismantling of existing Structure like H.P.					
Qty wide TMB P-4 = 22.50m					
@RS = 236.34/m = RS = 5318=00					
(16) ~~Construction of Humehh.~~ Earth work in Excavation for foundation					

Continuation

C/O RS = 59,36,204=00

P.T.O.

Sch. XLV-Form No. 134 32

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		BF-RS = 59,36,204=00			
(16) Earth work in excavation for foundation - - -					
Qty vide TMB P-4				= 20.04m3	
Qty vide TMB P-6				= 20.11m3	
Qty vide TMB P-7				= 19.795m3	
Qty vide TMB P-8				= 19.428m3	
Qty vide TMB P-10				= 17.34m3	
Qty vide TMB P-12				= 35.462m3	
Qty vide TMB P-19				= 19.495m3	
			Total	= 151.39m3	
		See limit qty		= 123.76 m3	
@RS = 269.32/m3 = RS =					33,331=00
(17) P.C.C M15 in 80' leveling course - - for F.P.C -					
Qty vide TMB P-4				= 2.306m3	
Qty vide TMB P-6				= 2.850m3	
Qty vide TMB P-7				= 2.850m3	
Qty vide TMB P-9				= 2.994m3	
Qty vide TMB P-10				= 2.395m3	
Qty vide TMB P-12				= 4.214m3	
Qty vide TMB P-19				= 2.945m3	
				= 20.554m3	
@RS = 4605.66/m3 = RS =					94,665=00
		C.o RS = 60,64,200=00			

Continuation

P.T.O

∴ Bf = Rs. 60,64,200=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
(18) P.C.C M20 in Sub-Structure.					
Qty wise Tmp-4 = 7.45m3					
Qty wise Tmp-5 = 6.854m3					
Qty wise Tmp-6 = 7.80m3					
Qty wise Tmp-7 = 6.588m3					
Qty wise Tmp-8 = 3.28m3					
Qty wise Tmp-8 = 7.001m3					
Qty wise Tmp-9 = 8.417m3					
Qty wise Tmp-10 = 7.282m3					
Qty wise Tmp-11 = 7.124m3					
Qty wise Tmp-11 = 8.28m3					
Qty wise Tmp-12 = 14.33m3					
Qty wise Tmp-15 = 13.696m3					
Qty wise Tmp-20 = 8.531m3					
Qty wise Tmp-20 = 7.392m3					
Total = 125.025m3					
Say/Limit = 124.76m3					
@Rs = 5383.45/m3 = Rs = 6,71,639=00					
(19) Providing & laying R.C.C NP-3 Pipe - 600mm dia.					
Qty wise Tmp-5 = 7.50m					
Qty wise Tmp-7 = 7.50m					
Qty wise Tmp-8 = 7.50m					
Qty wise Tmp-10 = 7.50m					
Qty wise Tmp-11 = 7.50m					
Qty wise Tmp-20 = 7.50m					
= 45.0m					
@Rs = 968.38/m = Rs = 43127=00					
C/F Rs = 67,78,966=00					

Continuation

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∴ B/F = RS = 67,78,966=00
36

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(20) Providing & laying R.C.C NP3 pipe - 1000mm ϕ ...					
Qty vide TMS P-13 = 7.5 m					
@ RS = 3608.58 /m = RS = 27,064=00					
(21) Earth work in excavation in foundation up to 3.0 depth ...					
Qty vide TMS P-14 = 111.71 m³					
@ RS = 269.32 /m³ = RS = 30,086=00					
(22) Providing P.C.C M15 (1:2.5:5) for leveling course ...					
Qty vide TMS P-14 = 7.92 m³					
@ RS = 4605.66 /m³ = RS = 36,477=00					
(23) Providing P.C.C M20 in open foundation ...					
Qty vide TMS P-15 = 2.25 m³					
Qty vide TMS P-16 = 31.395 m³					
= 33.645 m³					
Lim = 33.40 m³					
@ RS = 5193.36 /m³ = RS = 1,73,458=00					
(24) Supplying & fitting & placing HYSD bar					
Qty vide TMS P-14 = 0.0525 MT					
@ RS = 45645.89 = RS = 2379=00					

Continuation

C/F RS = 70,48,425=00

Sch. XLV-Form No. 134

Particulars	No.	L	B	D	Contents of area
Bf = RS = 7048425.00					
(25) R.C.C M25 grade of Conc. in Substructure - do - do - Allmost -					
Qty vide TMB P-16 = 10.02m3					
@ RS = 5973.44/m3 = RS = 59854.00					
(26) R.C.C M20 grade in substructure in Return wall					
Qty vide TMB P-16 = 16.25m3					
@ RS = 5333.45/m3 = 37481.00					
(27) Providing weepholes in Abutment - do -					
Qty vide TMB P-13 = 30.0					
@ RS = 108.85/Each = RS = 3265.00					
(28) Supplying fitting & placing HYSD bar in sub structure -					
Qty vide TMB P-15 = 1.01 MT					
@ RS = 45786.89/MT = 46245.00					
(29) Back filling behind Abutment, wing. wall - do - do - do -					
Qty vide TMB P-17 = 34.28m3					
@ RS = 702.46/m3 = RS = 24087.00					

Continuation

C.f. RS = 7269357.00

Sch. XLV-Form No. 134

Particulars	No.	L	B	D	Contents of area
	Of Rs = 72,69,357=00				
(30) Providing & laying filter media with					
— " — Do — " —					
Qty vide TMB P-17					
= 14.60m³					
@ Rs = 3048.54/m³ Rs = 44,508=00					
(31) Providing & laying R.C.C in super structure					
— " — Do — " — Do —					
Qty vide TMB P-18					
= 3.810m³					
@ Rs = 6516.32/m³ Rs = 24,840=00					
(32) Supplying, fitting & placing HYSD bar in super structure					
Qty vide TMB P-18					
= 0.380MT					
@ Rs = 46836.68/MT = 17,798=00					
(33) Parapet wall.					
Qty vide TMB P-18 = 4.0m3					
@ Rs = 5383.45/m³ Rs = 21534=00					
(34) Drainage Spouts.					
— Do — —					
Qty vide TMB P-19 = 40					
@ Rs = 403.09/each Rs = 16122=00					
C/F Total = 73,79,649=00					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L	B	D	Contents of area
	BF =	25 =	73		79,649 = 00
Add	12 % U S T =				3,855 58 = 00
Add	1 % L.C =				73,796 = 00
	T. Total =				9,00,3208 = 00
Less 10 % below					
of B.O.P Rate	=				9,00,320 = 00
	Net Rs =				31,02,883 = 00

Rates
08.7.21

15/7/21

J.E.

C.S.P

Executive Engineer
20/7/21

Continuation

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