~~Semhan Bare Road to Satipur Bathuan~~

Schedule XLV-Form No. 134

Raipur RCD Road to Sundari (Tekra).

HYSMT DIVISION

MMGSt (NDB)

SUB-DIVISION

RBA Construction

MEASUREMENT BOOK

1620

Name fo 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 R/A Bill			
N/W — Rajpur R.C.A Road to Sundari (TK 24)					
Agency — RBA Construction.					
Ad — New Anil Sagar Road, Rohtas.					
Agreement No — SBD-08/2023-24					
Date of Start of work — 19.7.2023					
Date of completion — 18.7.24					
Length of Road —		0.958 Km.			
		B.T. 0.730 Km.			
		C.C. — 0.228 Km.			
Accepted Rate — 10% Below.					
Date of entry — 20/11/23 and so on.					
		Details of measurements			
(1) Setting out P. Nos					
(i) Bench mark Pillars					
C.1 No / Km —					1 No.
(ii) Reference pillars					
C.3 Nos / Km —					3 Nos.
(2) clearing and grubbing the					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2) Soil (by manual means)					
	31	30.0m	3.50m	x2	6510.0m³
	28.0	x	3.50	x2	= 196.0 "
					6706.0m³
			=	0.670 Ha.	
(3) Excavation for railway in Soil (Road cutting)					
	7	x 30.0	x 0.375	x 0.100 x2	
					= 157.5 m³
	18.0	x 0.375	x 0.100	x2	= 135 "
					17.10 m³
(4) Earth of embankment with materials obtained from borrow pits with lead up to 150 m.					
	16	x 30.0	x (1.0+1.50)/2	x 0.600m x2	
					= 450.0m³
	10	x 30.0	x (1.0+1.50)/2	x 0.900 x2	= 675.0 "
	4	x 30.0	x (1.0+1.50)/2	x 0.600 x2	
					= 270.0 "
					1395.0m³

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
S. Culvert 2 Nos. 600 mm dia. R.C.C. pipe					
(i) Earth Work in excavation of foundations of structures upto 3.0 m depth.					
H/W.	2	3.900	1.150	1.50 m	× 2 Nos. = 26.91 m³
Below H.P.	1	5.350	1.130	0.365 m	× 2 = 4.41 m³
					31.32 m³
(ii) Providing P.C.C. M 15 in foundations as bedding course					
	2	3.900	1.150	0.150	× 2 = 2.691 m³
	1	5.311	1.130	0.250	× 2 = 3.00 m³
					5.691 m³
(iii) Providing P.C.C. M 20 in foundations & structural works all complete as per tech. Specification					
H.W.	2	3.600	$\frac{1.00+0.448}{2}$	2.780 m	× 2 = 28.022 m³
Less for pipe.	2	$\frac{3.14}{4}$	$(0.830)^2$	0.530	× 2 = 1.146 m³
					26.876 m³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(iv) Providing & laying R.C.C pipe NP2 (600 mm dia) for culverts.					
	2	(3×2.50)			= 15.0 m.
		11+2+3		1.1+2.23	

Next item —

(v) Construction of granular sub base by providing well graded materials.

B.T. Portion

10 × 30.0 × 4.05 × 0.200 m

= 243.0 m³

10 × 30.0 × 4.05 × 0.200 m = 243.0 m³

4 × 30.0 × 4.05 × 0.200 m = 97.20 m³

583.20 m³

Do. C.C. Portion Ch. 730.0 — 958.00 m.

Disputable connection —

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(a)	2	3.0	2.0	0.100m	= 1.80 m³
	5	2.50	1.90	0.100m	= 2.375 "
	2	5.00	1.75	0.100m	= 1.75 "
	5	3.00	2.00	0.100m	= 3.00 "
	3	3.75	1.50	0.100m	= 1.687 "
					12.612 m³
In Box					
	7	30.0	0.375	0.100m	x2
					= 15.75 m³
	18.0	3.75	0.100m		x2
					= 1.35 "
					17.10 m³
	Total qty — 27.712 m³				

20/12/22

7) Bonding, Laying, Spreading and Compacting Plain aggregates of M Bm. GR III

Specifications

e.c. Portion

	1	30.0	3.75	0.075m	= 8.44 m³
	1	15.0	$\frac{3.75+4.75+3.75}{3}$		x0.075m = 4.594 "
	1	15.0	$\frac{3.75+4.50+3.75}{3}$		x0.075m = 4.50 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	15.0	3.75	0.15m	= 4.22 m³
	1	15.0	3.75+4.50+3.75/3	0.15m	= 10.05 m³ = 4.50 m³
	2	15.0	3.75	0.15m	= 8.44 m³
	2	15.0	3.75	0.15m	= 8.44 m³
	1	15.0	3.75+5.75+3.75/3	0.15m	= 4.97 m³
	2	15.0	3.75	0.15m	= 8.44 m³
	1	15.0	3.75+5.75+3.75/3	0.15m	= 4.97 m³
	1	18.0	3.75	0.15m	= 5.062 m³
					66.576 m³

21/24 AC

21/24 AC

(8) Consists of un-reinforced plain c.c. pavement M:30 over reinforced foundation — all complete as per tech. specifications.

From CH. 730 m — 958.0 m.

1	30.0	3.75		0.15m	= 18.00 m³
1	15.0	3.75+4.50+3.75/3		0.15m	= 9.80 m³
1	15.0	3.75+4.50+3.75/3		0.15m	= 9.80 m³

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1	15.0	3.75	0.160m	= 9.00 m³
	1	15.0	3.75	3.75 × 0.160m / 3	= 9.60 m³
	2	15.0	3.75	0.160m	= 18.0 m³
	2	15.0	3.75	0.160m	= 18.0 m³
	1	15.0	3.75+5.75+3.75 / 3	0.160m	= 10.60 m³
	2	15.0	3.75	0.160m	= 18.00 m³
	1	15.0	3.75+5.75+3.75 / 3	0.160m	= 10.60 m³
	1	18.0	3.75	0.180m	= 10.80 m³
					142.00 m³
			Limit		139.54 m³

9. Providing and fixing of typical mm GSY information board with Legend.
— 2 Nos.

10. Providing / compacting stone aggregate of mgsm-Grade specification.

	10	30.0	3.75	0.015m	= 84.375 m³
	10	30.0	3.75	0.015m	= 84.375 m³
	4	30.0	3.75	0.015m	= 33.75 m³
					202.50 m³

30/1/24 JE

Continuation

30.1.24 AE

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Abstract			
				To Pg 13/11	
(1) Providing and fixing of working bench mark and reference pillars.					
(i) Bench mark					— 1 No.
@ Rs 4563=63					— Rs 4564=00
(ii) Reference pillars					— 3 Nos vide Item P.1
@ Rs 2125=79/each					— Rs 6377=00
(2) Clearing and grubbing the area (by manual means)					
0.67 Ha					vide Item P-02
@ Rs 72697=86					— Rs 48708=
(3) Excavation for roadway in soil using — do — all complete (Excavating)					
17.10 m³					vide Item P-2
@ Rs 103=85/m³					
					— Rs 1776=00
(4) Construction of embankment					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
with granular soil obtained from borrow pits upto 1 km Lead.					
		1305.0 m³			vide Tom BP-2
@ Rs 194=73/m³					
					Rs 271648=00
5. Consists of granular soil base by providing well graded materials (crushed Metal					
B.T. Portion		583.20 m³			vide P-4.
C.C. Portion		27.712 m³			" P-5
		610.912 m³			
@ Rs 3291=37/m³					
					Rs 2010737=00
6. Providing, spreading and compacting stone aggregate of work Cl. IV. Specification					
B.T. Portion		202.50 m³			vide Tom BP-7
C.C. Portion		66.576 m³			" P-6.
		269.076 m³			
@ Rs 4941=68/m³					
					Rs 1329687=00
7. Consists of unreinforced plain C.C. Pavement M:20					
-do- all complete as per					

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	tech. specifications.				
	139.54 m³ vide Item A P.7				
	@ Rs 8655=49/m³				
					— Rs 1207780=00
8. Providing/ Fixing of typical mtrs Rly information boards with Legs					
					— 2 Nos
	@ Rs 11417=52/Nos				
					— Rs 22835=00
9. Filling excavation of foundations					
	31.32 m³				vide Item B P.3
	@ Rs 383=28/m³				Rs 12004=00
10. Providing P.C.C. M15 in foundations as Leveling Course					
	5.691 m³				vide Item B P-3
	@ Rs 6952=61/m³				
					— Rs 39567=00
11. Providing P.C.C. M20 in Sub Structure - d/w — all complete.					
	26.876 m³				vide Item B P.3
	@ Rs 7961=57/m³				
					— Rs 213975=00
12. Providing & Laying R.C.C. Pedestal					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
NR3 (Excavation)					
15.00 mts				vide	Tom Bill
@ Rs 3307=40 Cum					
				— Rs 49611=00	
				Rs 52 19269=00	
Add GST @ 18%	—			Rs 939468=00	
Add L.C. @ 1%	—			Rs 521938=00	
Add S. Fee @ 1.70%				Rs 883727=00	
				Rs 6199657=00	
Less 10.0% Below as					
per agreed				@ 6199667=00	
				Rs 55797891=00	

dwd 30/11/24 AE

30.1.24 AE