~~Rajpur R.C.D Road to Sundari (Tekna)~~

Schedule XLV-Form No. 134

Sonhat Bare Road to Satiपur Bahuem.

DIVISION

MMGSY (NDB)

~~मुख्यालय~~ SUB-DIVISION

RBA Construction

MEASUREMENT BOOK

1615

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 — Sonhan Barc Road to Satyapur Bahman.					
Agency — RBA construction.					
At —					
Agreement No — SBD-08/2023-24					
Date of start — 19-7-2023					
Date of completion. 18-7-2024					
Length — 1800m. (B.T. — 1400 m, C.C. 400 m)					
Accepted Rate — 10% Below.					
Date of entry — 18/12/24 and so on.					
Details of measurements					
(1) Providing / Fixing of working Bench mark (1 Nos / 1 Km) and Reference pillars (4 Nos / 1 Km).					
Bench mark — 2 Nos.					
Reference pillars — 7 Nos.					
(2) clearing and grubbing the					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
road work (by manual means)					
	5.5	30.0	3.50	x2	= 1155.0 m²
	1	22.0	3.50	x2	= 1540 m²
(th 130m no work still)					= 11695 m²
					= 1.1695 ha

(3) Excavation for road way in soil using manual means for carrying out earth

2 x 2.5 m x 0.375 x 0.100 x 2
= 375 m³

(4) Cutting of hard grade and earthen shoulder with appro. materials with lead up to 1000 m.

10 x 30.0 x (6.10 + 7.30)/2 x 0.300 = 603.0 m³

10 x 30.0 x (6.00 + 7.20)/2 x 0.300 = 594.0 "

10 x 30 x (6.10 + 7.20)/2 x 0.300 = 603.0 "

6 x 30.0 x (6.00 + 7.20)/2 x 0.300 = 356.40

10 x 30.0 x (6.00 + 7.20)/2 x 0.300 = 594.0 m³

7 x 30.0 x (6.10 + 7.30)/2 x 0.300 = 422.10 "

1 x 10.0 x (6.00 + 7.20)/2 x 0.300 = 19.80 "

3192.30 m³

Continuation

18/12/23
JE

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
5. culverts					
(i) Earth in excavation for foundation of structure upto 3.0 m depth.					
4 ● x (2x3.90) x1.150 x1.150m = 53.82 m³					
4 ● x 5.250 x 1.130 x 0.365m = 8.828 "					
					62.648 m³
(ii) Providing P.C.C. M15 as levelling course in foundn.					
6 x (2x3.90) x1.150 x0.150m = 5.382 m³ 53.82 m³					
6 x 5.311 x 1.130 x 0.250m = 8.00 "					
					~~50.82~~ m³ 11.382
(iii) Providing P.C.C. M.20 in Sub structure.					
4 x (2x3.600) x 1.000+0.700 x 2.780m					
					= 56.044 M³
Less for Pipes.					
4 x 2 x 3.14/4 x (0.830)² x 0.530m					
					= (-) 2.293 m³
					53.751 m³
(iv) Providing & laying R.C.C. Pipe NP3 for culverts.					
4 x (3x2.50) = 30.0 M.					

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
6 culverts at CH. 0.0 & 14.0 m.					
(i) R/W in ex. (Minimum length)	1	(2×3.70)	×1.150	×.50m	
					= 26.51 m³
Below HP	2	×7.85	×1.130	×0.365m	
				=	6.474 "
					32.985 m³
(ii) Providing P.C.C. M15 at levelling course.					
	2	×(2×3.90)	×1.150	×0.150m	= 2.691 m³
	2	×7.85	×1.130	×0.250m	= 4.436 "
					7.127 m³
(iii) Providing P.C.C. M.20 in sub structure					
	2	×(2×3.60)	× (1.00+0.700)/2	×2.780m	
					= 28.022 m³
Less for bike.					
	2×2	×3.14	×(0.830)²	×0.530m	
					= (-) 1.146 m³
					26.876 m³
(iv) Providing & Laying R.C.C. bike NBs for culverts.					
	2	×(4×2.50)			= 20.M.

30/7/13

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
7. Construction of granular sub base by providing well graded material (crushed stone metals)					
CH. 20 m - 1100 m. (B.T. Portion)					
		10 x 30.0	x 4.05	x 0.200	= 243.0 m³
		10 x 30.0	x 4.05	x 0.200	= 243.0 "
		10 x 30.0	x 4.05	x 0.200	= 243.00 "
		6 x 30.0	x 4.05	x 0.200	= 145.80 "
CH. 1500 - 1800 m.					
		5 x 30.0	x 4.05	x 0.200 m	= 121.50 "
		5 x 30.0	x 4.05	x 0.200 m	121.50 =
					1117.80 m³

C.C. Portion

Profile correction.

10 x 2.0 x 2.0 x 0.100 = 2.25 m³

Main course:

~~2 x 25.0 x 3.75 m~~

In Box 2 x 5.0 x 0.375 x 0.100 x 2 = 3.75 m³

main course.

7 x 30.0 x 3.75 x 0.100 = 78.75 m³

1 x 10.0 x 3.75 x 0.100 = 3.75 "

Extra at curves

At CH. 1230 m. $10.0 \times \left[\frac{1.50 + 3.75}{2} - 3.75\right] \times 0.100$

= 1.875 m³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
A) Ch. 1410 m.					
	1	15.0	0.15	0.10 m	0.225 m³
					90.60 m³

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9. Consln of cm. reinforced C.C. Pavement over a prepared sub base - do - all complete as per tech. specifications.					
CH. 1230 m — 1500 m.					
	1	20.0	$\frac{3.50+3.75}{2}$	0.160m	= 9.00 m³
	1	20.0	3.75m	0.160m	= 12.00 "
	2	15.0	3.80	0.160m	= 18.24 "
	2	15.0	3.75	0.160m	= 18.00 "
	2	15.0	3.75	0.160m	= 18.00 "
	2	15.0	3.75	0.160m	= 18.00 "
	1	15.0	3.80	0.160m	= 9.00 "
	1	15.0	$\frac{3.80+4.10+3.75}{3}$	0.160m	= 9.32 "
	2	15.0	3.75	0.160	= 18.00 "
	2	15.0	3.75	0.160	= 18.00 "
	2	15.0	3.75	0.160m	= 18.00 "
					165.56 m³
11. S/F and fixing typical mimicry board with logo.					
					— 2 Nos.
12. Providing, laying compacting sing aggregate of WBM. Gr III.					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	10	30.0	3.75	0.75m	843.75 m³
	10	30.0	3.75	0.75m	843.75 "
	1	30.0	3.75	0.75m	84.375 "
	6	30.0	3.75	0.75m	50.625 "
	5	30.0	3.75	0.75m	42.1875 "
	5	30.0	3.75	0.75m	42.1875 "
					3881.25 m³

28/2/24 — 28.02.24

Abstract — Ref A/c Bill

(1) Providing / Fixing of working bench mark and reference pillars

(i) Bench mark 20 Nos — vide Item No. 1 of Tender

@ Rs 4560=02/- — Rs 91200=00

(ii) Reference pillars 7 Nos — vide Item No. 1 of Tender

@ Rs 2125=65/- — Rs 14880=00

(2) clearing and grubbing for road land (by manual

Continuation

Sch. XLV—Form No. 134

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

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(6) Providing, laying & placing and compacting in the approved manner of W.B.M. Gr. III & Specification.					
W.B.M. Portion					
		388·125 m³			vide Item B.P-8
@ Rs 5144·71/m³					
				— Rs	1996791 = 00
b) C.C. Portion.					
		77·512 m³			vide Item B.P-6.
@ Rs 5144·71/m³					
				— Rs	398777 = 00
(7) Casting of RCC reinforced C.C. Pavement M:30 grade over prepared Soft base — Ltr. — all complete as per tech. Specification					
		165·56 m³			vide Item B.P-7
@ Rs 8761 = 00/m³					
				— Rs	1450471 = 00
(8) Filling excavation for formation of structure					
		62·648 m³			vide Item B.P-3
		32·985 "			" " B.P-4
		95·633 m³			
@ Rs 393 = 28/m³				— Rs	37611 = 00

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
9. Providing Pcc m15 in foundn & Levelling course					
		11.382 m³		vide Item B P-3	
		7.127 "		" " P-4	
		18.509 m³			
		@ Rs 7038-88/m³			
				— Rs 130283=00	
10. Providing Rcc m20 in foundation & Structure - do - all complete					
		53.751 m³		vide Item A P-3	
		26.876 "		" " P-4	
		80.627 m³			
		@ Rs 8066-32/m³			
				— Rs 650363=00	
11. Providing and laying RCC Hume pipe NP3 for culverts (600 mm dia)					
		30m		vide Item B P-3	
		20 "		" " P-4	
		50 m.			
		@ Rs 3272=78/m			
				— Rs 163639=00	
12. Providing and fixing typical RCC Grey information sign board with Logo					
				— Lumpsum	

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
@ Rs	11439 = 24		@ Rs 22879 =		
			Rs 9887048 =		
Add GST @ 18%			— Rs 1779669 =		
Add. L.C. @ 1%			— Rs 98870 =		
Add. S. Fee @ 1.65%			— Rs 163136 =		
			Rs 11928723 =		
Less 10.0% below as per agreement			@ Rs 1192872 =		
			Rs. 10735851 =		

DMK
28(2)24
JE

28.02.24
AE