

Rajpur Awa RCD Road to Sundari

Schedule XLV-Form No. 134

MMSY (NDB)

DIVISION

2019114

SUB-DIVISION

RBA Construction

MEASUREMENT BOOK

1616

Name to 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.	
		T&J AK Bill			

N.W.- Raypur Auto Road to
Sundari

Agency - RBF Construction.

At - New Area Sambalpur, Rourkela.

Agreement No - MBD-08 | 2023-24

Date of Start of work - 19.7.23

Date of completion - 18.7.23

Accepted Rate - 10% Below.

D/E - 24/12/23 and from

Details of measurement

(1) Cleaning and grubbing
the soil land (by
manual means)

$$18 \times 30.0 \times 3.50 \text{ m} \times 2 = 3180.0 \text{ m}^2$$

$$1 \times 15.0 \times 3.50 \times 2 = 105.0 \text{ m}^2$$

$$3285.0 \text{ m}^2$$

$$= 0.39 \text{ Ha.}$$

(2) Excavation for road way
in soil (excavation)

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	$6 \times 30.0 \times 0.375 \times 0.100 \text{ m} \times 2$				$= 13.5 \text{ m}^3$
	$10.0 \times 0.375 \times 0.100 \times 0.75 = 0.75$				$\overline{14.25 \text{ m}^3}$

(3) Consists of embankment with

materials obtained from

borrow pits up to 1 room level

$$10 \times 30.0 \times 1.25 \text{ m} \times 0.900 \times 2$$

$$= 675 \text{ m}^3$$

$$30.0 \times 1.25 \times 0.600 \times 2 = 45.0 \text{ m}^3$$

$$20.0 \times 1.25 \times 0.600 \times 2 = 150.0 \text{ m}^3$$

$$\overline{750.0 \text{ m}^3}$$

(4) Consists of granular job

base by providing well

graded materials (grading I mark)

B.T.

$$10 \times 30.0 \times 4.05 \times 0.200 \text{ m}$$

$$= 243.0 \text{ m}^3$$

Portion

$$1 \times 30.0 \times 4.05 \times 0.200 = 24.30 \text{ m}^3$$

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

$$\overline{283.50 \text{ m}^3}$$

C.C. Portion

Do profile correction.

$$3 \times 3.0 \times 1.50 \times 0.100 = 1.35 \text{ m}^3$$

$$5 \times 2.0 \times 1.25 \times 0.100 = 1.25 \text{ m}^3$$

$$5 \times 5.0 \times 1.50 \times 0.100 = 3.75 \text{ m}^3$$

$$8 \times 2.50 \times 1.250 \times 0.100 = 2.50 \text{ m}^3$$

$$\overline{8.81 \text{ m}^3}$$

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Box					
	$6 \times 30.0 \times 0.375 \times 0.100 \times 2$				$= 13.50 m^3$
	$2 \times 10.0 \times 0.375 \times 0.100 \times 1$				$= 0.75 m^3$
					$14.25 m^3$
Total					$30.660 m^3$
Dow					
	24.12.23				24.12.23
	25				25
(S) Pumping, laying & spreading and compacting stone aggregates of WBM.Cr III.					
B.T.					
	$10 \times 30.0 \times 3.75 \times 0.075 m$				$= 84.375 m^3$
	25				
	$1 \times 30.0 \times 3.75 \times 0.075 = 8.437 m^3$				
	$\pi 20.0 \times 3.75 \times 0.075 = 5.625 m^3$				
					$0.8437 m^3$
O.C. Piling					
	$8 \times 30.0 \times 3.75 \times 0.075 = 50.625 m^3$				
	$1 \times 10.0 \times 3.75 \times 0.075 = 2.812 m^3$				
					$53.437 m^3$
Extra at curves					

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x 15.0 x { 3.75 + 5.0 - 3.75} x 0.075 = 0.703 m ³					
1x 15.0 x { 3.75 + 4.50 - 3.75} x 0.075 = 0.422 1.125 m ³					
Total —					152.999 m ³

~~Done~~
30/12/23

>D

6: consists of un-reinforcement
plain concrete
m.30 - do - all complexity
as per tech specification.

~~1x 15.0 x 3.75 x 0.160m = 18.00 m³~~

~~2x 15.0 x 3.75 x 0.160m = 18.00 m³~~

~~1x 15.0 x 3.75 x 0.160m = 9.00 m³~~

~~1x 15.0 x $\frac{3.75 + 5.00}{2}$ x 0.160m = 10.50 m³~~

~~1x 15.0 x 3.75 x 0.160m = 9.00 m³~~

~~1x 15.0 x $\frac{3.75 + 4.50}{2}$ x 0.160m = 9.90 m³~~

~~2x 15.0 x 3.75 x 0.160m = 18.00 m³~~

~~2x 15.0 x 3.75 x 0.160m = 18.00 m³~~

~~1x 10.0 x 3.75 x 0.160m = 6.00 m³~~

Continuation

116.90 m³

~~Done~~
20/12/24

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
I. culvert					Grounding
(i) Excavation of trench					of structure
M.W. 2x3.90x1.150x1.50x2 Nos					= 26.91 m ³
Below slip 1x5.350x1.130x0.365x2					= 4.792 m ³
					31.32 m ³
(ii) Providing Price m. 15 in					
trench as levelling course					
2x3.90x1.150x0.150x2 Nos					= 2.691 m ³
1x5.311x1.130x0.250x2 = 3.003					
					5.694 m ³
(iii) Providing Price m. 20 in					
tube structure do all					
complete					
2x3.600x $\frac{1.00 + 0.400}{2}$ = 2.782 M x 2					
					= 5.564 m ³
					18.022
less for pipe					
2x $\frac{3.14}{4} \times (0.83)^2 \times 0.530 \times 2$					
					= (C) 1.146 m ³
					29.26876
(iv) Providing Cleaning Price pipe					
N.R. (800 mm dia) for culverts					
2x(3x2.50) = 15.0 m.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8. Purchasing /Fixing typical boundary in form of sign boards with 6x90 — 2 Nos.					
Ans					
10/21-4					
AB					
<u>Abstract</u>				<u>DET A/C Bill</u>	
(1) clearing and grubbing the soil land (by manual means)	0.39 Hg	wide from B.R.01			
cor R 72697 = 86/-		Rs 28352-/-			
(2) Excavation of road way in Soil after Box cutting	14.25 m ³	wide from B.R. 2			
cor Rs 103-85 m ³		Rs 1480 =			
(3) Consists of embankment with materials obtained					

Continuation

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

consists broken bits with
 cement mortar up to 10 mm.
 70 m³ Vide P.R. 2
~~Rs 209.21/m³~~
~~Rs 1418.42 = 0~~

(4) Consists of gravel, sand

dry sand well

graded materials

30.6.60 m³ Vide P.R. 3

~~Rs 335.246/m³~~

~~Rs 1027.864 = 0~~

(5) Providing laying sand

compacting fine aggregates

of 40B.M.C.R. III

152.999 m³, Vide P.R. 4

~~Rs 5015 = 50/m³~~

~~Rs 7673.66 = 0~~

(6) Consists of un. reinforced cement concrete pier

m. 30

116.40 m³ wide piers P.R. 5

~~Rs 8724.18/m³~~

~~Rs 10154.95 = 0~~

(7) Providing and fixing typical masonry infilling right hand wall

W.P.D

2 NO.

~~Rs 11433.99 = 0~~ → ~~Rs 22868 = 0~~

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8. Elm in excavation of foundation of structure	31.32 m ³				
	CB 383 = 28 m ³				1200/-
9. Foundation Price m/s in foundation as per selling costs.	5.691 m ³		wide P-		
	CB 6952 = 61				3956/-
	7017 = 78				39938/-
10. Foundation, Price m/s in foundation. Total structure	26.876 m ³				
	CB 7961 = 57 m ³				
				P. 215822/-	215822/-
11. Forming, Casting, Re pipe m/s of 600 mm dia					
	15.0 m wide tank P-				
	CB 3307 = 01			P. 49611 = 01	
				P. 3375	642 = 01
Add 68% & 18% — P. 607615 = 01					
Add 1% — P. 33756 = 01					
Add. S. Fee. @ 1.60% — P. 54010 = 01					
				P. 4071023 = 01	
Less 10% Below — P. 407102 = 01					
				P. 3663721 = 01	

Continuation

Total
102224
102224A/-
10.2.24
A/-