

Madhusni Pahad to Kalyanipura to Bhairamshahat

^{Kala}
Schedule XLV-Form No. 134

MMGSY (NDB)

मयम DIVISION

सुपु SUB-DIVISION

RBA Construction

MEASUREMENT BOOK

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.	
	1st RIA Bill				
	Nil work:- Construction of Road				
	from Maderni Pahad To				
	Kalyanipur Road To				
	Bhainshat Kala ci				
	Champur Block, under				
	MMGSY (NDB), length 0.905km				
	PKGNO:- MMGSY-NDB-BRRP-385-				
	Bhabhug (Tender ID-123531)				
	under MMGSY)				
	[There are Eight Roads in this PKG]				
	Name of Contractor:- RBA Construction				
	At:- In the House of Ramkish				
	Pandey, Netai Area, Sagaram				
	Distt- Rohous (Bid ID) 53854)				
	Agtno -> 08 SED of 2023-2024				
	Date of Agt:- 21-08-2023				
	Date of Start:- 19-07-2023				
	Intended Date of Completion:-				
	18-07-2023				
	Rate:- @ 10.00% Below BOQ.				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
PAN:- AADCR1112Q					
GST No:- 10AADCR1112QIZP					
Registration NO:- 1210282, 1st					
Class R-1, D, BIHAR.					

[A] Agreement Amount of this Package:- (There are eight Roads in this Package)

(i) Construction Cost ₹ 78,64,158=

(ii) Five Years Maintenance ₹ 75,75,519=

[A] Total ₹ 86,22,677=

[B] Agreement Amount of this Road:-

(i) Construction Cost ₹ 82,94,910=

(ii) Five Years Maintenance ₹ 74,15,333=

[B] Total Cost ₹ 90,36,443=

[C] A.A Amount of this Road:-

length:- 0.905 KM, Target Habitation

Name:- Bhainshat Kala

Survey ID:- 20091, Target Habitation

Population:- 300

① Vide Letter NO. BRRDA(HQ)

MMGSY(CNDP)-04/23-78/

/Patna, Dated:- 09/02/2023

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
[C] A.A. Amount:- (Length $\rightarrow$ 0.90 km)					
(i) Construction Cost:-					₹ 84.213 Lacs
(ii) Five years maintenance:-					₹ 7.637 Lacs
(iii) Contingency:-					₹ 1.895 Lacs
"C" Total					₹ 93.745 Lacs
[D] T.S. Amount of this Road:-					
Under T.S. NO:- 23 Dated $\rightarrow$ 23-02-2023					
Ref Letter NO $\rightarrow$ 150 (3750) Dt $\rightarrow$ 21-02-2023					
CE-1 R.I.D. Bihar, Patna.					
(i) Construction Cost:-					₹ 92.166 Lacs
(ii) Five years maintenance:-					₹ 8.239 Lacs
"D" Total T.S. Amount					₹ 100.405 Lacs
[E] WORK TO BE DONE (AS PER AGREEMENT):-					
(i) M.S.S :-					500.00 M
(ii) P.C.C :-					405.00 M
(iii) Total (L) $\Rightarrow$					905.00 M

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
(iv) HPC (1x600 mm dia)					1 Nos
(v) Cable Duct across the					
Road - 2 Nos (15.0 m length)					
(300 mm dia)					
(vi) Parapet Reference:-					
(1x600 mm dia)					2 Nos
Date of measurement:- Between					
2/12/2023 To 2/3/2024					
Date of Entry - 02/03/2024					

Measurements

Steno (1) Providing and

1.16. fixing of leveling
benchmark Ref

Pillar do do do

(i) Benchmark Pillar - 1 No

(ii) Ref Pillar → 3 No

Steno (2) Clearing and

2.2. Grubbing the road

land. do do

as per direction

of Engr/9

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
clearing and grubbing					
520.0 m ² 2 (25 x 20.0 m) x 3.50 m					= 3500.0 m ²
100.0 m ² 2 (5 x 20.0 m) x 3.50 m					= 700.0 m ²
15.0 m ² 1 (1 x 15.0 m) x (3.20 + 3.60) m					= 51.0 m ²
100.0 m ² (5 x 20.0 m) x 3.50 m					= 700.0 m ²
10.0 m ² (1 x 10.0 m) x 3.50					= 35.0 m ²
180.0 m ² (9 x 20.0 m) x 3.50 m					= 1260.0 m ²
Total Area =					6246.0 m ²
					10000
					= 0.6246 m ²
					2/12/2008 JE
HPC IN 108					
Steno (21) Earthwork in					
9.1/11.1 excavation of pond					
Atch 430.0 E/D					
Atch 2 x 3.900 x 1.150 x 1.500					= 13.455 m ³
Below Pipe 1 x 5.35 m x 1.130 x 0.365					= 14.435 m ³
					2.206 m ³
Total =					27.89 m ³

Continuation

15.66 m³Remitted 15.66 m³

Ques No (23) Providing m²
12.5 (IT) RCC in sub structure
dr do as per direction
of Engg^g

H.Leb $2 \times 3.60 \times \frac{(1.00 + 0.40)}{2} \times 2.780$
 $\Rightarrow 14.0112 \text{ m}^3$

Parapet $\rightarrow 2 \times 3.60 \text{ m} \times 0.40 \times 0.60$
 $= 1.728 \text{ m}^3$

Total $\Rightarrow 15.7992 \text{ m}^3$

Loss for Pipe
 $2 \times \frac{\pi}{4} (0.830)^2 \times 0.530$
 $\Rightarrow 0.5738 \text{ m}^3$

Nett Qty $\Rightarrow 15.1654 \text{ m}^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (24) Providing and laying R.C.C. Pipe for culvert on 1st class bedding of 600mm dia single Round do do esp					
		3x2.50 m		⇒ 7.50 m	
Item No (28) Providing and laying of R.C.C. Pipe culvert of 3000mm dia do do as per direction of esp					
At Ch → 838.0m					
		3x2.50 m		⇒ 7.50 m	
Item No (8/5) Construction of Subgrade and earthen shoulders do do 100mm & 100mm lead do do esp.					
3.14. (i) 1x(25x20.0m) x (7.30+6.10) x 0.30					
Subgrade.					⇒ 1005.0m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No. 01 Construction of 4.1. Regular sub-base by providing well graded materials to the extent direction of E.D.					
Date → 16/12/2023 To 16/1/2024					
(i) B.T. Portion:— From 0.00m To 500.0m					
500.0 m		(25 × 20.0 m)		× 4.05 m × 0.200 m	
					= 405.0 m ³
(ii) C.C. Portion From Ch → 500.0 m To 905.0 m.					
100.0 m		(5 × 20.0 m)		× 3.75 m × 0.100 m	
					= 37.50 m ³
15.0 m (Village Portion)		(11 × 15.0 m)		× $\frac{(3.20 + 3.40 + 3.20 + 3.30 + 3.60)}{5}$ × 0.100 m	
					= 5.01 m ³
272.0 m		(9 × 30.0 m) + (1 × 20 m)		× 3.75 m × 0.10 m	
					= 102.0 m ³
18.0 m		(11 × 18.0 m)		× $\frac{(3.75 + 8.65)}{2}$ × 0.100 m	
					= 11.16 m ³
(ii) GSB (C.C.) → 405.0 m (Ch) → 155.67 m ³					
(iii) Total GSB → (i) + (ii) → 560.67 m ³					

Continuation

Checked
16/1/2024

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4.7 (2.0) Providing laying					
Spreading and					
compacting Lel BM					
Go-3 do do as					
Redirection of old					
Date → 19/1/2024 To 05/02/2024					
(i) B.T. Portion					
From Ch → 0.00 m To 500.00 m					
500.00 m $(15 \times 20.00 \text{ m}) \times 3.75 \text{ m} \times 0.075 \text{ m}$					
					$= 140.625 \text{ m}^3$
(ii) C.C. Portion					
From Ch → 500.00 m To 905.00 m					
100.00 m $(15 \times 20.00 \text{ m}) \times 3.75 \text{ m} \times 0.075 \text{ m}$					
					$= 28.125 \text{ m}^3$
15.00 m $(11 \times 15.00 \text{ m}) \times \frac{(3.20 + 3.40 + 3.20 + 3.30 + 3.60)}{5} \times 0.075 \text{ m}$					
					$= 3.7575 \text{ m}^3$
272.10 m $(9 \times 30.00 \text{ m}) + (1 \times 2.00 \text{ m}) \times 3.75 \text{ m} \times 0.075 \text{ m}$					
					$= 76.50 \text{ m}^3$
18.00 m $(11 \times 18.00 \text{ m}) \times \frac{(3.75 + 8.65)}{2} \text{ m} \times 0.075 \text{ m}$					
					$= 8.37 \text{ m}^3$
(ii) C.C. Portion, L → 405.00 m. Qty = 116.7525 m ³					
(iii) Total Qty of Lel BM Go-3					
w (B.T. + C.C. Portion) = (i) + (ii)					
L → 905.00 m					
					Qty = 257.3775 m ³

Continuation

05/02/24
JE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (11/11) Construction					
6.4. of un-reinforced					
130 PCC Pavement					
do do as per					
direction of Engg/1					
Date of 9/2/2024 To 28/2/2024					
From 500.00 TO 905.00					
100.0m (5x20.0m) x 3.75m x 0.160m					
					= 60.00m ³
15.0m (1x15.0m) x (3.20+3.40+3.20+3.30+3.60)m					
				5	x 0.160m
					= 8.016m ³
2720 (9x30.0m+1x2.0m) x 3.75m x 0.160m					
					= 163.20m ³
18.0m (1x18.0m) x (3.75+8.65)m x 0.160m					
				2	= 17.856m ³
Total (L) 405.0m Qty = 249.072m ³					
					Limited 247.86m ³
					f
Item No (12/5) Construction					
3.14 Subgrade and					
earth shoulder					
do do as					
per direction					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Int R/A Bill				
	Abstract of Cont				
Date of Entry: - 2/3/2024					
At City. under T.M.B					
Item No (1) Providing and					
1.16. Fixing do do					
(i) Bench mark Pillar 1 No					
@ ₹ 4590.99/each					
				₹ 4590.99	
(ii) Ref Pillar 1 No					
3 Nos @ ₹ 2139.73/each ₹ 6419.19					
P/4 item No (1) (i) & (ii)					
Item No (2) Clearing and					
2.2. Grabbing & the road					
Land do do					
P/4					
P/5 item No (2)					
0.6246 Hect					
@ ₹ 72697.88/Hect ₹ 45407.00					
Item No (3) Construction subgrade					
3.14. and earthen shoulder					
do do					
P/10. 11 item No (12)					
1300.625/103					
@ ₹ 269.32/103					
				₹ 342480.00	
Continuation					₹ 398,896.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. 378 876 = w
Item No (6) (continued)					
4.1 Granular sub base					
du do in BT & C.C					
Portion do do					
P/8 item No (9/6)					
560.67 m ³					
@ ₹ 3361.63 / m ³					
					₹ 1884765 = w
Item No (5/7) (continued)					
4.7 Laying, spreading					
and compacting					
10 BT & C.C					
Portion do do					
P/9 item No (10/7)					
257.3775 m ³					
@ ₹ 5015.50 / m ³					
					₹ 1290876 = w
Item No (6/11) (continued)					
6.4 m ³ PCC Pavement do do					
P/10 item No (11/8)					
247.86 m ³					
@ ₹ 8735.63 / m ³					
					₹ 2165213 = w
					₹ 57,39,750 = w

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. 2	57, 81, 750	20
Item NO (7/14) Providing					
10.16 and fixing typical					
M/G Sy 16 do 80					
P/11 Item NO (13/14)					
2 NW					
@ ₹ 11437.02/each					
				₹ 22874 = 40	
HPC					
Item NO (8/21) Excavation					
9.1/11.1 of 1m do do					
do					
P/5 Item NO (3/21)					
15.66 m ³					
@ ₹ 388.28/m ³ ₹ 6002 = 40					
Item NO (9/22) Providing M15					
11.4 (IT) PCC in 1m do do					
do					
P/6 Item NO (4/22)					
2.8458 m ³					
@ ₹ 7030.0/m ³ ₹ 20005 = 40					
Item NO (10/23) Providing M20					
12.5 (IT) PCC in Substructure					
do do 80					
P/6 Item NO (5/23)					
15.1654 m ³					
@ ₹ 8041.76/m ³ ₹ 121956 = 40					
Continuation					₹ 59,10,587 = 40

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. ₹ 59		10,587=
Item No (124) (B) Providing and					
9.3 (B) Laying RCC 80mm					
of RCC NP 3 H P do do					
EPD					
P/7 item No (124) (B)					
7.50m					
@ ₹ 3826.48/m					
					₹ 24,948=
Item No (128) Providing and					
8.29. Laying RCC 80mm NP 3					
do P/duct do do					
EPD					
P/7 item No (7/28)					
7.50m @ ₹ 1078.08/m					
					₹ 8085=
Total Ammount A ₹ 59,43,620=					
Item No (13/30) GST do do					
@ 18.00% of Amt A' (+) ₹ 10,69,851=					
Item No (14/31) LC do do					
@ 1.00%					
of Amt A' (+) ₹ 59,436=					
Item No (15/32) Seigniorage					
fee do do EPD					
@ 1.7372% of Amt A'					
					(+) ₹ 10,32,82=

Continuation

₹ 71,76,159=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.FZ	71,76,159=0	
Less ⊖		10.40%			
as per Agt					
			=) ⊖ Z	7,17,616=00	
			Z	64,58,543=00	
			(Signature)		
			2/3/2024		
			JG		
					6/2/29 A.E