



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR MAINTENANCE OF ROAD



NAME OF THE ROAD :- TETARIA MEGHUA TO SONAUL

DISTRICT - EAST CHAMPARAN

BLOCK - TETARIA

TOTAL LENGTH OF ROAD	:	1.800	KM
AVERAGE COST PER KM	:	28.739	Lac
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL	:	51.731	Lac
ADD LABOUR CESS @ 1% (A)	:	0.517	Lac
ADD GST @ 18% (A)	:	9.312	Lac
SEIGNIORAGE FEE	:	0.582	Lac
PART-B TOTAL COST OF 5 YEAR ORDINARY MAINTENANCE	:	15.644	Lac
ADD LABOUR CESS @ 1% (B)	:	0.156	Lac
ADD GST @ 18% (B)	:	2.816	Lac
SEIGNIORAGE FEE	:	0.066	Lac
EMERGENT COST 10% OF CONSTRUCTION	:	0.000	Lac
TOTAL COST OF PROJECT	:	80.824	Lac

SUBMITTED BY:- EXECUTIVE ENGINEER

R.W.D. WORKS DIVISION, PAKRIDAYAL.

PREPARED BY:- SUPERSTAR DESIGNER PVT. LTD.

Flat No. 403, Bhuvaneshwaram Building

Nageshwar Colony, Near Boring Road Chauraha

Patna - 80001 (Bihar) ☎ 8434040125/8825398707

PREPARED BY:- SUPERSTAR DESIGNER PVT. LTD.

M/R UNDER 3054

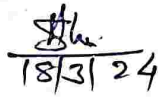
GENERAL ABSTRACT OF COST

SL. No.	Item of Work	Amount
A	COST OF CONSTRUCTION	51.731 Lacs
	SEIGNIORAGE FEE	0.582 Lacs
	ADD LABOUR CESS @ 1%	0.517 Lacs
	ADD GST @ 18%	9.312 Lacs
	TOTAL COST OF CONSTRUCTION (A)	62.142 Lacs
B	COST OF FIVE YEAR MAINTENANCE	15.644 Lacs
	SEIGNIORAGE FEE	0.066 Lacs
	ADD LABOUR CESS @ 1%	0.156 Lacs
	ADD GST @ 18%	2.816 Lacs
	TOTAL COST OF FIVE YEAR MAINTENANCE (B)	18.682 Lacs
C	AVERAGE COST PER KM	28.739 Lacs
D	EMERGENT COST 10% OF CONSTRUCTION	0.000 Lacs
	TOTAL	80.824 Lacs

प्रद एवं मदों की मात्रा तकनीकी अनुमोदन प्राप्त प्राकल्पन के अनुसार है।


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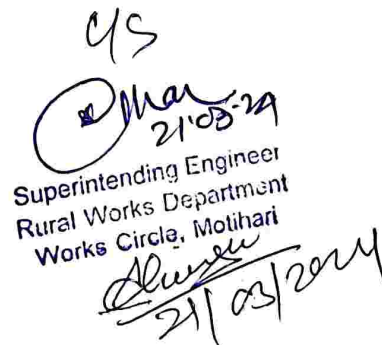
Junior Engineer


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Asstt. Engineer


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Executive Engineer

CS

21/03/24
Superintending Engineer
Rural Works Department
Works Circle, Motihari

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD : Tetaria Meghua to Sonaul

DISTRICT East Champaran

BLOCK Tetaria

LENGTH OF ROAD (in Km) 1.800

LENGTH OF BT PAVEMENT 1800.00

LENGTH OF CC PAVEMENT 0.00

CD STRUCTURES

HUME PIPE 0

RCC CULVERT 0

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.277
2	EARTHWORK	3.544
3	GSB	1.763
4	WBM GRADE II	4.809
5	WBM GRADE III	8.153
6	PRIME COAT	1.147
7	TACK COAT	1.276
8	PATCH WORK USING MIX SEAL SURFACING	0.000
9	SEMI-DENSE BITUMINOUS CONCRETE	24.498
10	DRY LEAN CEMENT CONCRETE	0.000
11	CC PAVEMENT	0.000
12	DRAINS & CROSS DRAINS	0.000
13	PROTECTION WORKS	0.000
14	ROAD FURNITURES , KM STONES , TRAFFIC & DIRECTION SIGN, PROJECT LOGO AND PLANTATION OF TREE	5.586
15	CROSS DRAINAGE STRUCTURES	
I	HUME PIPE	0.000
II	BOX CULVERT	0.000
III	DISMENALING OF CULVERT	0.000
IV	REPAIR WORK	0.677
	SUB TOTAL OF INTIAL RECTIFICATION INDLUCDING SURFACE RENEWAL =	51.731
	AVERAGE COST PER KM (IN LACS) =	28.739
PART-B	5 YEAR ORDINARY MAINTENANCE COST	
	I st Year	1.055
	II nd Year	2.359
	III rd Year	5.631
	IV th Year	3.006
	V th Year	3.593
	SUB TOTAL OF 5 YEAR ORDINARY MAINTENANCE COST =	15.644
	TOTAL COST OF 5 YEAR ORDINARY MAINTENANCE PER MONTH (IN LACS)	0.261
	ADD LABOUR CESS @ 1% (A+B)	0.674
	ADD GST @ 18% (A+B)	12.127
	ADD SEIGNIORAGE FEE	0.648
	EMERGENT COST 10% OF CONSTRUCTION	0.000
	TOTAL COST OF PROJECT IN LACS =	80.824

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AA length- 1.800 KM vide letter No. 1086 dated

AA Amount

const cost	→	62.142 lac
5% Mainline cost	→	18.682 lac
	→	<u>80.824 lac</u>
Emergent cost	→	6.216 lac
	→	<u>87.040 lac</u>

Technically Sanctioned of Road Length: 1.800 KM for Rs. 80.82 Lac
(.....Crore Eighty.....Lacs. Eighty Two Thousand) only
Sanctioned of Estimate does not mean Sanction of rates.
Conditions and directions laid down in attached technical notes
with the DPR is to be followed Strictly.


A.E.
RWD


E.E.
RWD


S.E.
R.W.D.


C.E.
RWD, PATNA

Abstract of Cost for Culverts

Name of Road : Tetaria Meghua to Sonaul

District: East Champaran

Block: Tetaria

Length of Road : 1.800

No	S.No.	Particulars	Details	Total Cost (in Lakh)
A	Construction of Rural Road (Pavement Cost)		1.800	51.054
B	Construction of CD Works		No. Cost	Amount
1	Single Row 600MM Dia Hume Pipe Culvert	0	162697	0
2	Single Row 1000MM Dia Hume Pipe Culvert	0	328144	0
3	Two Row 1000MM Dia Hume Pipe Culvert	0	493424	0
4	RCC BOX CULVERT - 1 x1M x1M	0	370528	0
5	RCC BOX CULVERT - 1 x1.5M x1.5M	0	490599	0
6	RCC BOX CULVERT - 1 x2M x2M	0	782977	0
7	RCC BOX CULVERT - 1 x3M x3M	0	1283086	0
8	RCC BOX CULVERT - 1 x4M x4M	0	1727986	0
9	RCC BOX CULVERT - 1 x5M x5M	0	2261767	0
10	RCC BOX CULVERT - 2 x1M x1M	0	517805	0
11	RCC BOX CULVERT - 3 x2M x2M	0	1214822	0
12	RCC BOX CULVERT - 2 x3M x3M	0	1548067	0
13	RCC BOX CULVERT - 2 x4M x4M	0	2113804	0
14	RCC BOX CULVERT - 2 x3M x3M	0	1548067	0
15	RCC BOX CULVERT - 3 x5M x5M	0	4928460	0
16	RCC BOX CULVERT - 3 x4M x4M	0	2766697	0
17	RCC BOX CULVERT - 3 x5M x5M	0	3757585	0
	Cost of Repairing of CD Structures	2	67740.00	67740
	Cost of Dismantling of CD Structures	0		0
	Total Cost of CD(in Lakh)			0.677
C	Amount Required for Maintenance of Road for Five years after Completion of Project		1.800	15.644

Cost of Pavement	:	51.054	Lakh
Cost of CD Works	:	0.677	Lakh
Cost of Pavement per KM	:	28.36	Lakh
Cost of CD per KM	:	0.38	Lakh
(A) Total Cost of Road Project	:	51.731	Lakh
Add Labour Cess @ 1% (A)	:	0.517	Lakh
Add GST @ 18% (A)	:	9.312	Lakh
Seigniorage Fee	:	0.582	Lakh
(B) Maintenance Cost	:	15.644	Lakh
Add Labour Cess @ 1% (B)	:	0.156	Lakh
Add GST @ 18% (B)	:	2.816	Lakh
Seigniorage Fee	:	0.066	Lakh
(C) Emergent Cost on (A)	:	0.000	Lakh
Grand Total	:	80.824	Lakh

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SUMMARY OF 5 YEARS ORDINARY MAINTENANCE COST

DISTRICT:-

East Champaran

BLOCK:-

Tetaria

NAME OF ROAD:-

Tetaria Meghua to Sonaul

LENGTH OF ROAD (KM):-

1.800

Particulars	Amount in Rs.	Amount in (Lakh)
1st Year Maintenance cost	1,05,479.00	1.055
2nd Year Maintenance cost	2,35,858.00	2.359
3rd Year Maintenance cost	5,63,134.00	5.631
4th Year Maintenance cost	3,00,559.00	3.006
5th Year Maintenance cost	3,59,281.00	3.593
Total Cost of 5 years Maintenance	15,64,311.00	15.643

ESTIMATE FOR 5 YEARS MAINTENANCE WORKS

Total Length Of Road (L)=	1800	m
Length Of the Flexible Pavement (Lf) =	1800	m
Length Of the Rigid Pavement (Lc) =	0	m
Width Of the Road (Br) =	3.75	m
Width Of the Shoulder (Bs) =	1.125	m
No. Of Hume Pipe Culvert =	1	
No. Of Slab Culvert =	1	
Length of Drain=	0	m

Multiplying Factor for Commercial Vehicle 15 to 45 per days = 1.25 (ref. - as per guidelines issued by NRRDA)

I. No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimate d Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Rain cuts/Berms with soil.moorum etc.(Qty=L*Bs*0.3*%taken) X 1.25	Cum	6.0%	91.13	483.31	44,042.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc.	Sqm	10.0%	506.25	71.83	36,364.00
3	15.5	(Qty=L*Br*%taken) X 1.25 Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	0.0%	0.00	581.54	0.00
4	15.3(ii)	Patch repair over Pot holewith 25 mm SDBC & Tack Coat (Qty=L*Br*%taken) X 1.25	Sqm	0.5%	42.19	378.06	15,949.00
5	15.3(iii)	Patch repair over bituminous surface with 25 mm SDBC & Tack Coat (Qty=L*Br*%taken) X 1.25	Sqm	0.0%	0.00	378.06	0.00
6	15.6	Maintenance of Drains	M	-	0.00	4.06	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	1	1.00	1602.22	1,602.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	1	1.00	3249.77	3,250.00
9	15.9	Maintenance of Road signs	Km	10%	0.18	1466.65	264.00
10	15.11	Maintenance of 200 m and km stones	Km	12%	0.22	969.06	209.00
11	15.12	(i)Cutting of branches of trees and shrubs	No.	-	4.00	165.12	660.00
		(ii) Cutting of shrubs from roadway	No.	-	18.00	10.15	183.00
		(iii) Trimming of grass and weeds	Sqm	18%	729.00	3.38	2,464.00
12	15.13	White washing of parapet walls of CD work and tree trucks	Sqm	-	21.00	23.41	492.00
Estimate For First Year Maintenance Work						Rs.	1,05,479.00

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