



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR MAINTENANCE OF ROAD



T.S. COPY

NAME OF THE ROAD :- BHANDAR BHAKURAHYA ROAD AT GAYTRI MANDIR TO SHAMBHUNATH JHA HOUSE

DISTRICT - EAST CHAMPARAN	BLOCK - PATAHI		
TOTAL LENGTH OF ROAD	:	0.800	KM
AVERAGE COST PER KM	:	36.375	Lac
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL	:	29.100	Lac
ADD LABOUR CESS @ 1% (A)	:	0.291	Lac
ADD GST @ 18% (A)	:	5.238	Lac
SEIGNIORAGE FEE	:	0.271	Lac
PART-B TOTAL COST OF 5 YEAR ORDINARY MAINTENANCE	:	5.411	Lac
ADD LABOUR CESS @ 1% (B)	:	0.054	Lac
ADD GST @ 18% (B)	:	0.974	Lac
SEIGNIORAGE FEE	:	0.027	Lac
EMERGENT COST 10% OF CONSTRUCTION	:	3.490	Lac
TOTAL COST OF PROJECT	:	44.855	Lac

SUBMITTED BY:- EXECUTIVE ENGINEER
R.W.D. WORKS DIVISION, PAKARIDAYAL.

PREPARED BY:- SUPERSTAR DESIGNER PVT. LTD.

Flat No. 403, Bhuvaneshwaram Building
Nageshwar Colony, Near Doring Road Chauraha
Patna - 80001 (Bihar) ☎- 8434040125/8825398707

REPORT

1 Introduction

1.1 The Sub-Project Road

The road passes through plain terrain

District :-- East Champaran
Block :-- Patahi
Road Name :-- Bhandar Bhakurahiya Road At Gaytri Mandir To Shambhu Nath Jha House

Road Length :-- 0.800 Km
Length of Flexible Pavement :-- 0.730 Km
Length of CC Pavement :-- 0.070 Km

2.0 Planning and Basic Design Consideration

2.1 Key maps

2.2 Site Photographs :-- Refer Appendix-1

2.3 Road Design Brief

Sl. No	Location	Issue	Design Solution
1	0 to 350	BT Damage	Flexible Pavement
2	350 to 730	PCC Surface Damage	Flexible Pavement
3	730 to 800	BES Damage	Rigid Pavement 3.0M
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

2.4 The Existing road starts from Bhandar Bhakurahiya Road At Gaytri Mandir To Shambhu Nath Jha House. The total length of road is 0.8 Km in which 730 M is bituminous and 70 M is PCC Pavement.

The Carriageway of the road is 3.75 M. The Existing Bituminous surface in bad condition and require major repair. the PCC Portion is also partialy damaged and contraction joints is also damaged. The road comes under Class-I road, Hence in maintenannce is to be done on OPRMC Basis.

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD : Bhandar Bhakurahiya Road At Gaytri Mandir To Shambhu Nath Jha House

DISTRICT East Champaran

BLOCK Patahi

LENGTH OF ROAD (in Km) 0.800

LENGTH OF BT PAVEMENT 730.00

LENGTH OF CC PAVEMENT 70.00

CD STRUCTURES

HUME PIPE 0

RCC CULVERT 1

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.092
2	EARTHWORK	0.647
3	GSB	0.575
4	WBM GRADE II	1.034
5	WBM GRADE III	2.803
6	PRIME COAT	0.261
7	TACK COAT	0.536
8	PATCH WORK USING MIX SEAL SURFACING	2.130
9	SEMI-DENSE BITUMINOUS CONCRETE	10.318
10	BITUMINOUS MACADAM	0.000
11	CC PAVEMENT	3.941
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	2.611
15	CROSS DRAINAGE STRUCTURES	
I	HUME PIPE	0.000
II	BOX CULVERT	4.991
III	DISMANTLING OF CULVERT	0.182
IV	REPAIR WORK	0.000
SUB	TOTAL OF INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL =	27.991
	AVERAGE COST PER KM (IN LACS) =	36.375
PART-B	5 YEAR ORDINARY MAINTENANCE COST	
	I st Year	0.341
	II nd Year	0.454
	III rd Year	2.274
	IV th Year	1.066
	V th Year	1.276
	SUB TOTAL OF 5 YEAR ORDINARY MAINTENANCE COST =	5.411
	TOTAL COST OF 5 YEAR ORDINARY MAINTENANCE PER MONTH (IN LACS)	0.090
	ADD LABOUR CESS @ 1% (A+B)	0.345
	ADD GST @ 18% (A+B)	6.212
	ADD SEIGNIORAGE FEE	0.297
	EMERGENT COST 10% OF CONSTRUCTION	3.490
	TOTAL COST OF PROJECT IN LACS =	44.855

J.E. 15.12.23.

A.E. 15.12.23.

15.12.23

M/R UNDER 3054

GENERAL ABSTRACT OF COST

SL. No.	Item of Work	Amount
		27.99
A	COST OF CONSTRUCTION :	29.100 Lacs
	SEIGNIORAGE FEE :	0.271 Lacs
	ADD LABOUR CESS @ 1% :	0.279 0.291 Lacs
	ADD GST @ 18% :	5.038 5.238 Lacs
	TOTAL COST OF CONSTRUCTION (A) :	33.579 34.900 Lacs
B	COST OF FIVE YEAR MAINTENANCE :	5.411 Lacs
	SEIGNIORAGE FEE :	0.027 Lacs
	ADD LABOUR CESS @ 1% :	0.054 Lacs
	ADD GST @ 18% :	0.974 Lacs
	TOTAL COST OF FIVE YEAR MAINTENANCE (B) :	6.466 Lacs
C	AVERAGE COST PER KM :	36.375 Lacs
D	EMERGENT COST 10% OF CONSTRUCTION :	3.490 Lacs
	TOTAL	44.855 Lacs

15.12.23
Junior Engineer

15.12.23.
Asstt. Engineer

40.045
15.12.23
Executive Engineer