



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

TS ~~AA~~ COPY (For Emergent Situation)

DETAILED PROJECT REPORT

UNDER FDR

AA-2 R, 39.8009 Plan

YEAR-2020-21



Name of the Road :-

PERMANENT RESTORATION OF ROAD FROM T01 To Birdipur

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	SINGHWARA	
ACTUAL LENGTH OF ROAD	:	1.950	KM ✓
FLOOD AFFECTED LENGTH OF ROAD	:	0.580	KM ✓
TOTAL COST OF PROJECT	:	40.199	Lac ✓

SUBMITTED BY:-

EXECUTIVE ENGINEER
RWD (W) DIVISION DARBHANGA-2
DARBHANGA-2

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

ck:- SINGHWARA

District:- DARBHANGA

ual Length of Road:- 1.950 KM

ne of Road:- PERMANENT RESTORATION OF ROAD FROM T01 To Birdipur

No.	Item of Work	Amount
	TOTAL COST OF CONSTRUCTION	
	:	34.84232 Lacs
	Add GST @ 12%	4.1811 Lacs
	Add Labour Cess @ 1%	0.3484 Lacs
	Add Seigniorage Fee @ 10% on Material Cost only	0.42906 Lacs
	TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F.	39.8009 Lacs
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY	0.39801 Lacs
	TOTAL	40.199 Lacs


Engineer
W) Div. Darbhanga-2


Asstt. Engineer
RWD(W) Div. Darbhanga-2

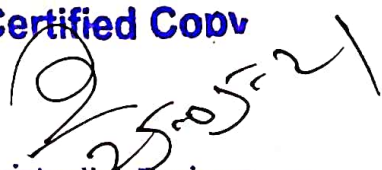

Executive Engineer
RWD(W) Div. Darbhanga-2

Technically sanctioned for Rs. 39 80 090 = 00 (Rupees Thirty nine Lacs eighty thousands ninety only).

SE
RWD(W) Circle Darbhanga


Superintending Engineer
R.W.D. (W) CIRCLE, DARBHANGA

Certified Copy


Superintending Engineer
R.W.D. (W) CIRCLE, DARBHANGA


Asstt. Engineer
RWD(W) Div. Darbhanga-2

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

~~PERMANENT RESTORATION OF ROAD FROM T01 To Birdipur~~

DISTRICT

DARBHANGA

BLOCK

SINGHWARA

DIVISION

DARBHANGA-2

LENGTH OF ROAD

1.950 KM

CD STRUCTURES

HUME PIPE

0

RCC CULVERT

0

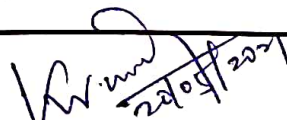
BOX CELL CULVERT

0

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.000
2	EARTHWORK	0.947
3	GSB	0.000
4	WBM GRADE III	6.383
5	PRIME COAT	0.000
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	26.130
10	HARD SHOULDER	1.382
	SUB TOTAL OF PAVEMENT COST IN LACS =	34.8423
11	CROSS DRAINAGE STRUCTURES	
I	HUME PIPE	0.000
II	RCC	0.000
III	BOX	0.000
IV	CAUSEWAY	0.000
V	PROTECTION WORK	0.000
	SUB TOTAL OF CD STRUCTURES COST IN LACS =	0.000
	SUB TOTAL COST OF PROJECT IN LACS =	34.842
	ADD GST @ 12 % =	4.181
	ADD LABOUR CESS @ 1 % =	0.348
	Add Seigniorage Fee @ 10% =	0.429
	TOTAL COST OF PROJECT INCLUDING GST, L.C & S.F. IN LACS =	39.801
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.398
	TOTAL =	40.199


JE

RWD(W) Div. Darbhanga-2


AE

RWD(W) Div. Darbhanga-2


EE
RWD(W) Div.
Darbhanga-2

Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m ³)	RATE(In ₹)	LENGTH: 1.950 KM	AMOUNT (In ₹)
1	3-14	303.1	Construction of Subgrade and Earthen Shoulders Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.									
			Beside Flank (On Flood affected Portion) For 1000 m lead @ 100 %	Cum	2	580.00	1.375 Avg	0.250 Avg	398.75			
									398.75	237.43		94,675.00
2	4.7	405	WBM Grading 3 with screening Material (By Mechanical Means)							A) SUB TOTAL OF CRUST =		94,675.00
	(3-B)		Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.									
			Chainage in M									
			From To									
			0 100									
			280 380									
			900 1050									
			1300 1380									
			1600 1750									
			Total Length=									
			Net WBM -3 Qty	Cum	1	580.00	3.750	0.075	163.13			
									163.130	3,912.71		6,38,280.00
										B) SUB TOTAL OF CRUST =		6,38,280.00

Sl. No. SDB SL. NO MORD Ref.No Description Unit NOS LENGTH (m) WIDTH (m) HEIGHT (m) QUANTITY (m³) RATE (In ₹) AMOUNT (In ₹)

BLOCK : SINGHWARA LENGTH: 1.950 KM

3 6.4 1500

SUB HEAD : CC PAVEMENT
Cement Concrete Pavement

Construction of un-reinforced plain cement thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1501.2.2 M 30 grade coarse and fine aggregate maximum size of aggregate not exceeding 25mm, mixed in a concrete of not less than 0.2cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel ,laying and fixing of 125 micron thick plythene film ,wedges ,steel plates including levelling the formwork as per drawing) spreading the concrete with shovels , rakes , compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion , construction joints ,applying debonding strips , primer , sealant , dowel bars , near approaches to bridge/ culvert and construction joints, admixtures as approved , curing of concrete slab for 14 days curing compound (where specified) and water finishing to lines and grade as per drawing and Technical specification clause 1501.

On Flood affected portion (Details are as above mentioned)
Net Qty

cum

1

580.00

3.750

0.160

348.00

4 4.18 412

Hard Shouldering

Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolling the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412

sqm

2.00

580.00

0.250

290.00

New Brick Area

476.72

1,38,249.00

C) SUB TOTAL OF CC PAVEMENT =

27,51,277.00

TOTAL COST OF PAVEMENT IN RS. (A+B+C)=

34,84,232.00

JE

RWD(W) Div. Darbhanga-2

AE

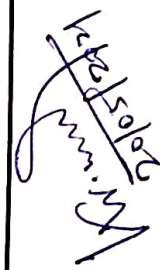
RWD(W) Div. Darbhanga-2

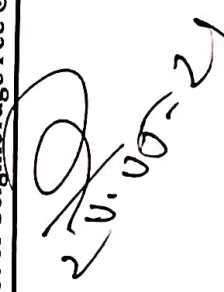
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RWD(W) Div. Darbhanga-2

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Length : 1.950 KM	Add 10 % Seigniorage Fee
1	3.14	303.1	EARTHWORK Construction of Subgrade and Earthen Shoulders Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1. Unit = cum Taking output = 100 cum a) Material Compensation for earth taken from private land Cost for 100 cum = a Rate per cum = (a)/100	cum	100.00	34.82	3482.00 3482.00 34.82				
3	4.7 (3-B)	405	Water Bound Macadam with Stone Screening Type "B" Gr- III WBM Grading 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405. (A) By Mechanical Means Unit = cum Taking output = 360 cum a) Material (Refer Tables 400.7, 8, 9 and 10) Aggregate Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for compacted thickness of 75 mm Stone Screening Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm Cost for 360 cum = a Rate per cum = (a)/360	cum	435.60	503.85	219477.06				
				cum	86.40	392.53	33914.59 253391.65 703.87				
			Total Cost	cum			703.87	163.13	114822.31		11482.00
			Total Cost	cum			703.87	163.13	114822.31		11482.00

Sl. No.	Particulars	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10 % Seigniorage Fee
5	6.4	1500	CC PAVEMENT					
			Cement Concrete Pavement					
			Construction of un-reinforced, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501.					
			Unit = cum					
			Taking output = 75 cum (172.50 t)					
			(100 x 3.75 x 0.200)					
	a)		Material					
	(i)		Crushed stone coarse aggregates, grading will be as per Clause 1501.2.4.1 (Table 1500.1) of specifications @ 0.90 cum/cum of concrete					
			cum	67.50	572.92	38672.10		
	(ii)		Sand as per IS:383 and conforming to Clause 1500.2.4.2 @ 0.45 cum/cum of concrete					
			cum	33.75	175.80	5933.25		
			Rate per cum = (a)/75					
			594.74					
6	4.18	412	Brick Soling (With New Brick)					
			Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolling the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412.					
			Unit = sqm					
			Taking output = 150 sqm					
	a)		Material					
			No.	8160.00	5.13	41860.80		
			No.	1100.00	5.13	5643.00		
			cum	5.66	141.85	802.87		
			Cost for 150 sqm = a					
			Rate per sqm = (a)/150					
			322.04					
			Total Cost cum					
			322.04					
			Total Construction cost of Seigniorage Fee @ 10%					
			93391.6					
			Total Construction cost of Seigniorage Fee @ 10%					
			42906.00					



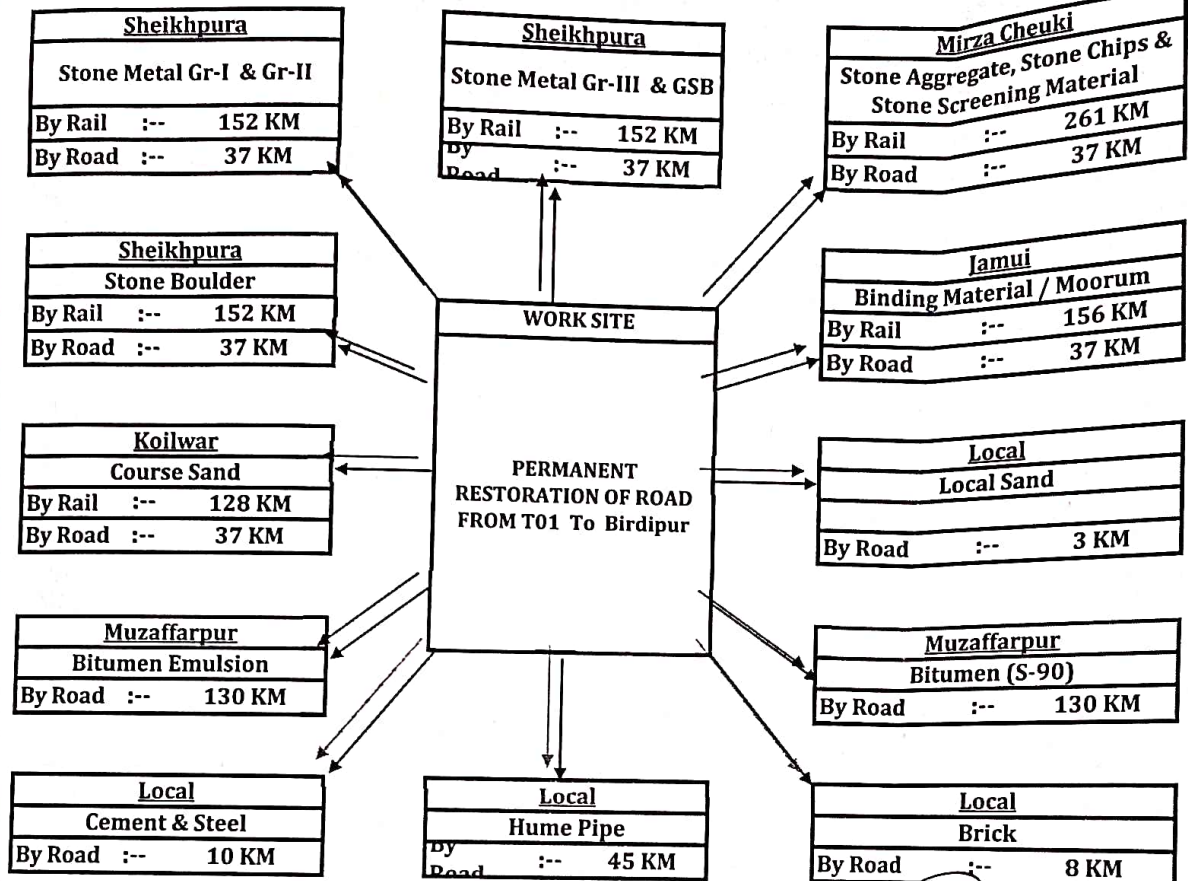


Quarry Map

Name of Road :- **PERMANENT RESTORATION OF ROAD FROM T01 To Birdipur**

Block :- SINGHWARA
District :- DARBHANGA-2

Length of the Road:- 1.950 KM



* Subjected to Verification of Lead

[Signature]
J.E.

[Signature]
20/05/2024
A.E.

[Signature]
20-05-21
E.E.
[Signature]
25-05-21
S.E.