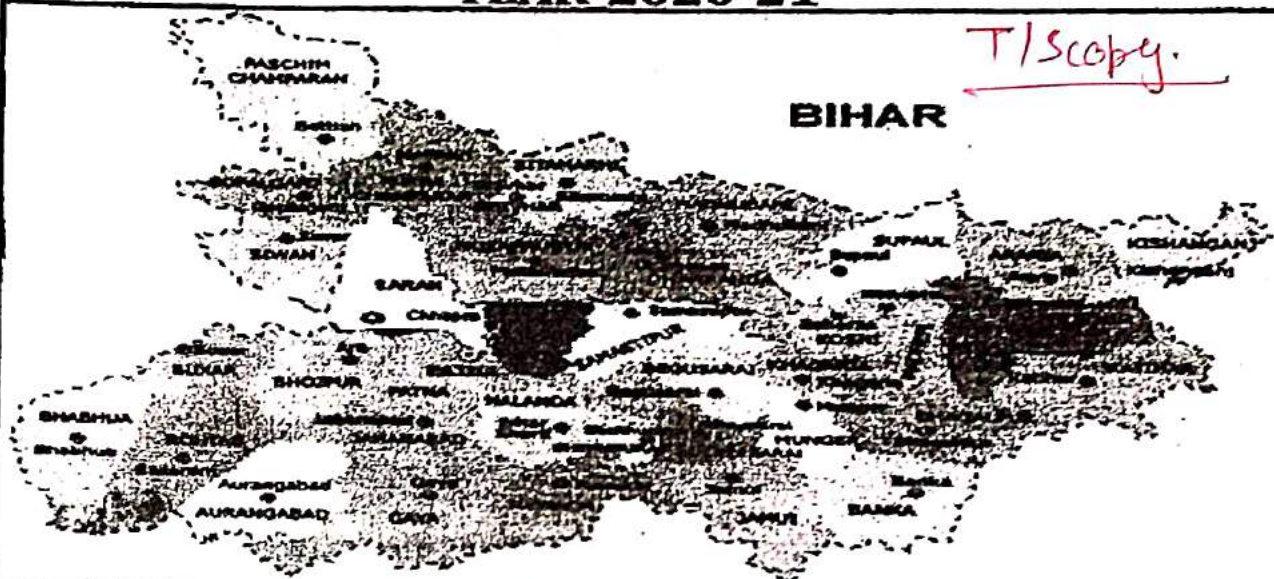




ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT UNDER FDR YEAR-2020-21



Name of the Road :-

**PERMANENT RESTORATION OF ROAD FROM Ahiyari South To Chanua
Tol RWD Road Tak**

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	Jale	
ACTUAL LENGTH OF ROAD	:	1.000	KM
FLOOD AFFECTED LENGTH OF ROAD	:	0.070	KM
TOTAL COST OF PROJECT	:	5.918	Lac

SUBMITTED BY:-

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

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

Site:-

Male

District:- DARBHANGA

Length of Road:- 1.000 KM

Name of Road:- PERMANENT RESTORATION OF ROAD FROM Abiyari South To Channua Tol
RWD Road Tak

No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION :	5.12627 Lacs
	Add GST @ 12% :	0.6152 Lacs
	Add Labour Cess @ 1% :	0.0513 Lacs
	Add Seigniorage Fee @ 10% on Material Cost only :	0.06626 Lacs
	TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F. :	5.8589 Lacs
B	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY :	0.05859 Lacs
	TOTAL :	5.918 Lacs

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20.5.2021

Senior Engineer

RWD(W) Div. Darbhanga-2

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20.5.2021

Asstt. Engineer

RWD(W) Div. Darbhanga-2

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20.5.21

Executive Engineer

RWD(W) Div. Darbhanga-2

Technically sanctioned for Rs 5,85,890 (Rs five lacs eighty five thousand SE eight hundred ninety only.)

RWD(W) Circle Darbhanga

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20.5.21

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : PERMANENT RESTORATION OF ROAD FROM Ahiyari South To Chanua Tol RWD Road Tak
DISTRICT DARBHANGA
BLOCK Jalé
DIVISION DARBHANGA-2
LENGTH OF ROAD 1.000 KM
CD STRUCTURES
HUME PIPE 0
RCC CULVERT 1
BOX CELL CULVERT 0

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.000
2	EARTHWORK	0.114
3	GSB	0.842
4	WBM GRADE III	0.797
5	PRIME COAT	0.000
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	3.207
10	HARD SHOULDER	0.167
	SUB TOTAL OF PAVEMENT COST IN LACS =	5.1263
11	CROSS DRAINAGE STRUCTURES	
I	HUME PIPE	0.000
II	RCC Culvert (1 x5 x2.5M)	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 =	5.126
	ADD GST @ 12 % =	0.615
	ADD LABOUR CESS @ 1 % =	0.051
	Add Selniorage Fee @ 10% =	0.066
	TOTAL COST OF PROJECT INCLUDING GST, LC & S.F. IN LACS =	5.859
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.059
	TOTAL =	5.918

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20.5.2021
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RWD(W) Div. Darbhanga-2

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20/5/2021
AE

RWD(W) Div. Darbhanga-2

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20.5.21
EE

RWD(W) Div.
Darbhanga-2

Name of Road : PERMANENT RESTORATION OF ROAD FROM Ahlyari South To Chanua Tol RWD Road Tak											BLOCK : Jale		LENGTH : 44000.000	
Sl.No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m³)	RATE(In ₹)	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)	Cum	2	70.00	1.375 Avg	0.250 Avg	48.13					
			For 1000 m lead @ 100 %						48.13	237.43	11,428.00			
										A) SUB TOTAL OF CRUST =	11,428.00			
2	4.1	401 (II)	Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading I Material Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.											
			Net GSB Qty	Cum	1.00	70.00	3.750	0.100	26.25					
									26.250	3,205.82	84,153.00			
2	4.7	405	WBM Grading 3 with screening Material (By Mechanical Means) 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.											
			Length In Metre											
			Chalnage In M											
			From	To										
			0	70										
			Total Length=		Cum	1	70.00	3.750	0.075	19.69	79,705.00			
			Net WBM -3 Qty						19.690	4,048.01	79,705.00			
										B) SUB TOTAL OF CRUST =	1,63,858.00			

Name of Road : PERMANENT RESTORATION OF ROAD FROM L047 To Sahaspur

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20.5.2021

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RWD(W) Div. Darbhanga-2

RWD(W) Div. Darbhanga-2

EE
RWD(W) Div. Darbhanga-2

Name of Road : PERMANENT RESTORATION OF ROAD FROM Ahiyari South To Chanua Tol RWD Ro:BLOCK : Jale										
Sl. No.	SDB Sl. No.	MORD RefNo.	DESCRIPTION	Unit	Quantity	Rate	Amount In Rs	Total material Qty. required	Total Material Amount	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	cum	100.00	34.82	3482.00			
			Cost for 100 cum = a				3482.00			
			Rate per cum = (a)/100				34.82			
2	4.1	401	Total Cost Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading I Material Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	cum			34.82	48.13	1675.89	168.00
		(I)	For Grading I Material							
			Unit = cum							
			Taking output = 300 cum							
		a)	Material							
			For well graded granular sub-base material as per Table							
			53 mm to 9.5 mm @ 50 per cent	cum	180.00	610.74	109933.20			
			9.5 mm to 2.36 mm @ 20 per cent	cum	72.00	506.92	36498.24			
			2.36 mm below @ 30 per cent - Course Sand	cum	108.00	175.80	18986.40			
			Cost for 300 cum = a				165417.84			
			Rate per cum = (a)/300	cum			551.39			
			Total Cost	cum			551.39	26.25	14473.99	1447.00
2	4.7	405	Water Bound Macadam with Stone Screening Type "B" Gr- III							
	(3-B)		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							

SL No.	SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10 % Seigniorage Fee
		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	cum	435.60	503.85	219477.06			
			Stone Screening							
			Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	cum	86.40	392.53	33914.59			
			Cost for 360 cum = a				253391.65			
			Rate per cum = (a)/360				703.87			
3	6.4	1500	Cement Concrete Pavement	cum			703.87	19.69	13859.2	1386.00
			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			
			Total Cost	cum			594.74	42	24979.08	2498.00
4	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							
			Brick 1st Class	No.	8160.00	5.13	41860.80			
			Brick 1st Class on edging	No.	1100.00	5.13	5643.00			

Name of Road : PERIVALLUR										
SL No.	SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount In Rs	Total material Qty. required	Total material Amount	Self storage Fee
			Fine Sand	cum	5.66	141.85	802.87			
			Cost for 150 sqm = a				48306.67			
			Rate per sqm = (a)/150				322.04			
				Total Cost	cum		322.04	35	11271.4	1127.00
Total Construction cost of Self storage Fee @ 10%										6626.00

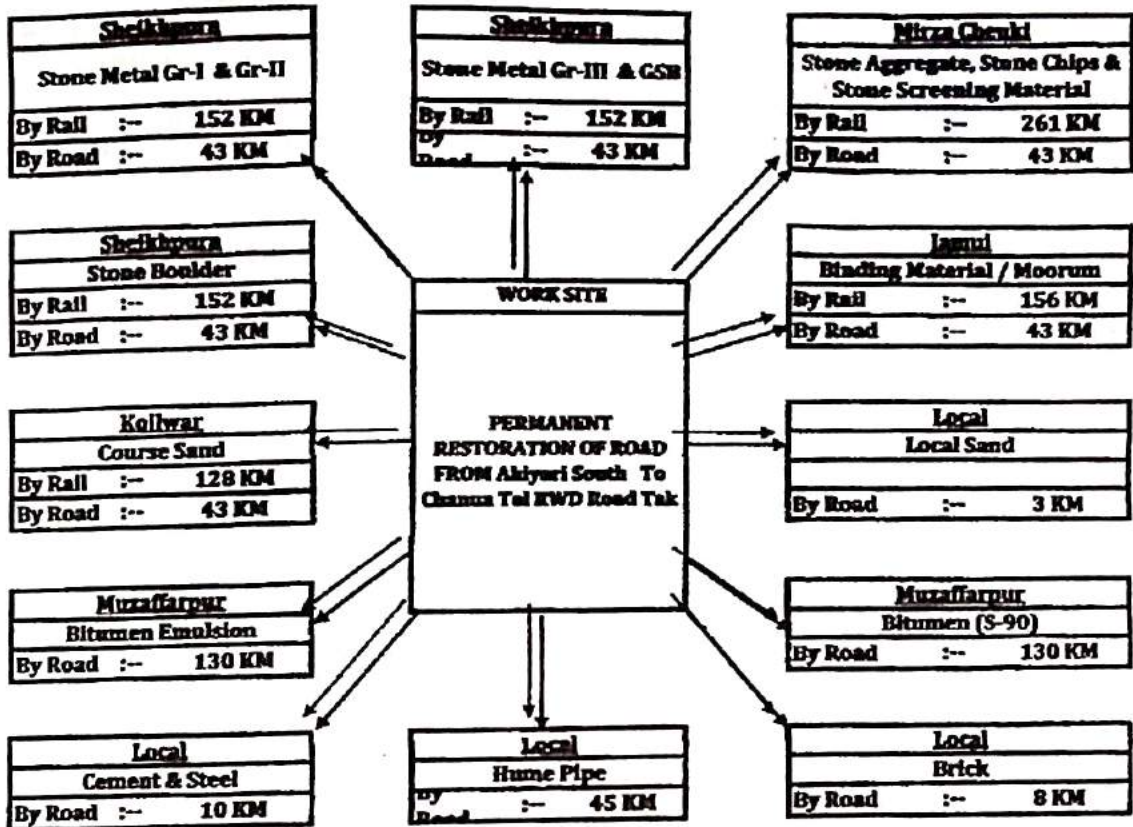
Quarry Map

Name of Road :- PERMANENT RESTORATION OF ROAD FROM Ahlyari South To Chanua Tal RWD Road Tak

Block :- Jale

District :- DARBHANGA-2

Length of the Road:- 1.000 KM



* Subjected to Verification of Lead

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