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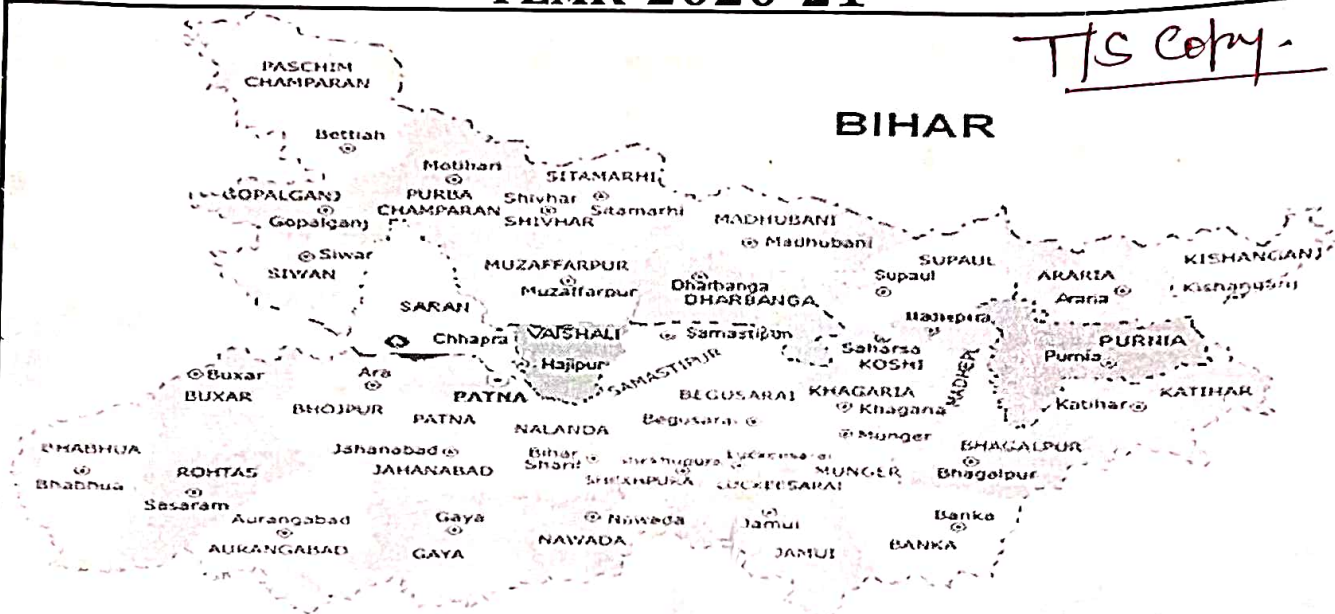


ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

TS COPY (For Emergent Situation)

DETAILED PROJECT REPORT UNDER FDR YEAR-2020-21



Name of the Road :-

**PERMANENT RESTORATION OF ROAD FROM Barioul Khariya Kaligaon
To Bharwara Road**

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	SINGHWARA	
ACTUAL LENGTH OF ROAD	:	10.000	KM
FLOOD AFFECTED LENGTH OF ROAD	:	0.300	KM
TOTAL COST OF PROJECT	:	21.052	lac

SUBMITTED BY:-

EXECUTIVE ENGINEER
RWD (W) DIVISION DARBHANGA-2

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

Block:- SINGHWARA

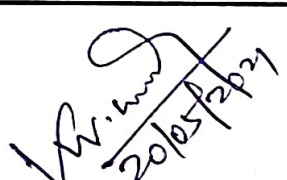
District:- DARBHANGA

Actual Length of Road:- 10.000 KM

Name of Road:- ~~PERMANENT RESTORATION OF ROAD FROM~~ Barioul Khariya Kaligaon To Bharwara Road

No.	Item of Work	Amount
1	TOTAL COST OF CONSTRUCTION :	18.24926 Lacs
	Add GST @ 12% :	2.1899 Lacs
	Add Labour Cess @ 1% :	0.1825 Lacs
	Add Seigniorage Fee @ 10% on Material Cost only :	0.22193 Lacs
	TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F. :	20.8436 Lacs
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY :	0.20844 Lacs
	TOTAL :	21.052 Lacs


Engineer
RWD(W) Div. Darbhanga-2


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


Executive Engineer
RWD(W) Div. Darbhanga-2

— Technically sanctioned for Rs 20,84,360=00 (Rs Twenty Lacs eighty four thousand three hundred sixty only.)
SE
RWD(W) Circle Darbhanga


Superintending Engineer
RWD (W) CIRCLE, DARBHANGA


25/05/2021

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

~~PERMANENT RESTORATION OF ROAD FROM~~ Barioul Khariya
Kaligaon To Bharwara Road

DISTRICT

DARBHANGA

BLOCK

SINGHWARA

DIVISION

DARBHANGA-2

LENGTH OF ROAD

10.000 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	0.490
3	GSB	0.000
4	WBM GRADE III	3.378
5	PRIME COAT	0.000
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	13.667
10	HARD SHOULDER	0.715
	SUB TOTAL OF PAVEMENT COST IN LACS =	18.2493
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 =	18.249
	ADD GST @ 12 % =	2.190
	ADD LABOUR CESS @ 1 % =	0.182
	Add Seigniorage Fee @ 10% =	0.222
	TOTAL COST OF PROJECT INCLUDING GST, L.C & S.F. IN LACS =	20.844
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.208
	TOTAL =	21.052

JE

RWD(W) Div. Darbhanga-2

AE

RWD(W) Div. Darbhanga-2

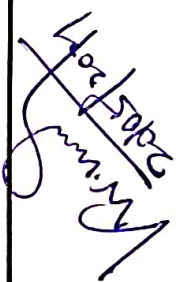
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RWD(W) Div.
Darbhanga-2

Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m³)	RATE(In ₹)	10,000 KM
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 Plank (On Flood affected Portion)	Cum	2	300.00	1.375 Avg	0.250 Avg	206.25		
			For 1000 m lead @ 100 %						206.25	237.43	48,970.00
									A) SUB TOTAL OF CRUST =		48,970.00
2	4.7 (3-B)	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.								
			Chainage in M								
			From	To							
			0	300							
			Total Length=		1	300.00	3.750	0.075	84.38		
			Net WBM -3 Qty						84.380	4,002.92	3,37,766.00
									B) SUB TOTAL OF CRUST =		3,37,766.00

Sl. No.	SUB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10 % Seigniorage Fee
LEAD UP TO: 10,000 KM										
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 Material Compensation for earth taken from private land Cost for 100 cum = a Rate per cum = (a)/100							
		a)		cum	100.00	34.82	3482.00 3482.00 34.82			
			Total Cost	cum			34.82	206.25	7181.63	718.00
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. By Mechanical Means Unit = cum Taking output = 360 cum 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							
		(A)								
		a)		cum	435.60	503.85	219477.06			
				cum	86.40	392.53	33914.59 253391.65 703.87			
			Total Cost	cum			703.87	84.38	59392.55	5939.00

No.	No.	Ref No.	DESCRIPTION	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			
Total Cost cum 594.74 180 107053.2 10705.00										
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 ouput = 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			
			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 322.04 150 48306 4831.00										
Total Construction cost of Seigniorage Fee @ 10% 22193.00										

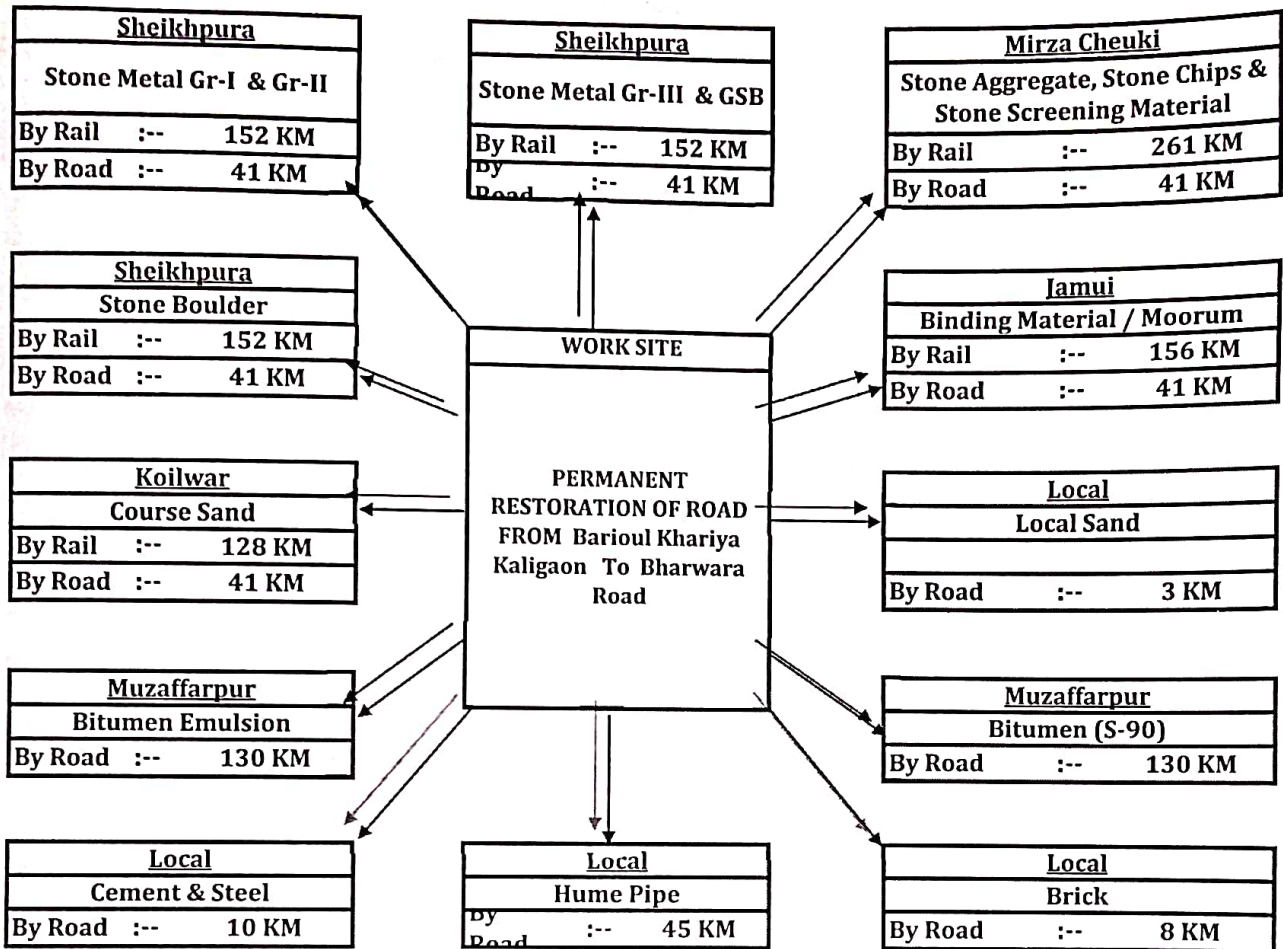


20.05-21

Quarry Map

Name of Road :-- **PERMANENT RESTORATION OF ROAD FROM Barioul Khariya Kaligaon To Bharwara Road**
 Block :-- SINGHWARA
 District :-- DARBHANGA-2

Length of the Road:- 10.000 KM



* Subjected to Verification of Lead

J.E

A.E.

E.E

S.E.