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ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

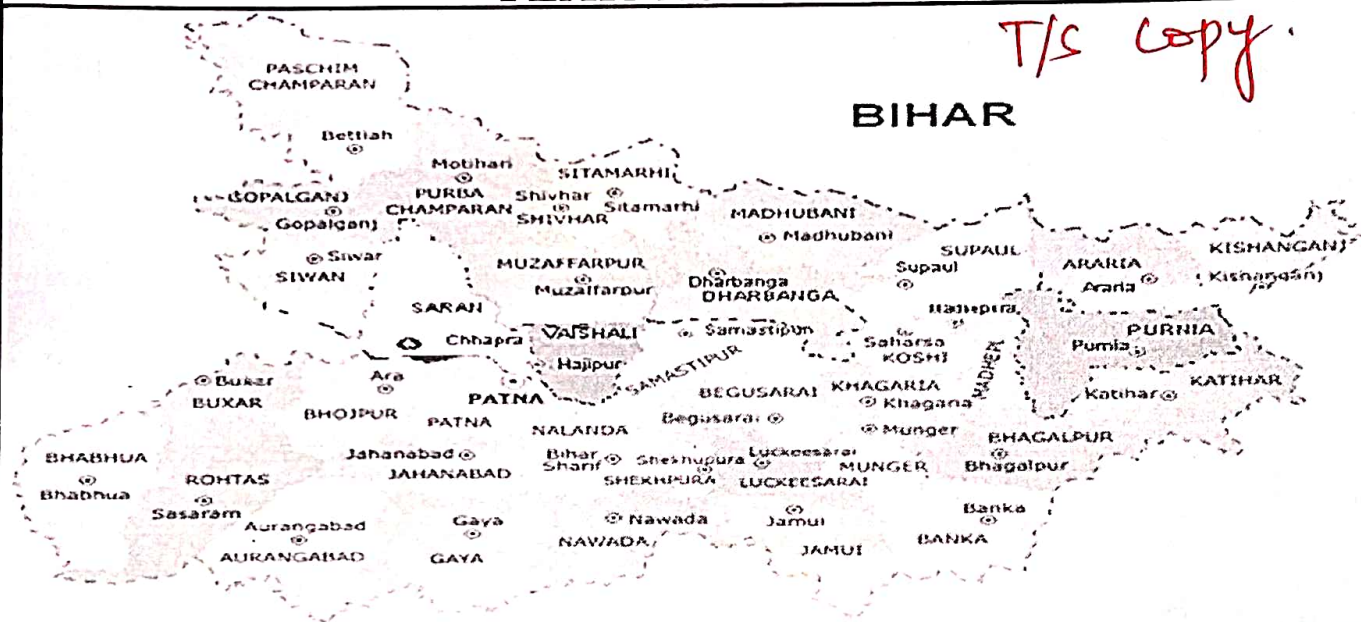
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DETAILED PROJECT REPORT UNDER FDR

AA = Rs 34.63220 Lac

YEAR-2020-21

T/S copy



Name of the Road :-

~~PERMANENT RESTORATION OF ROAD FROM Panchshala To Agyaspur~~

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	SINGHWARA	
ACTUAL LENGTH OF ROAD	:	2.000	KM ✓
FLOOD AFFECTED LENGTH OF ROAD	:	0.500	KM ✓
TOTAL COST OF PROJECT	:	34.978	Lac ✓

SUBMITTED BY:-

EXECUTIVE ENGINEER
RWD (W) DIVISION DARBHANGA-2

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

:- SINGHWARA

District:- DARBHANGA

Length of Road:-- 2.000 KM

of Road:-- ~~PERMANENT RESTORATION OF ROAD FROM~~ Panchshala To Agyaspur

S.No.	Item of Work	Amount
	TOTAL COST OF CONSTRUCTION :	30.32059 Lacs
	Add GST @ 12% :	3.6385 Lacs
	Add Labour Cess @ 1% :	0.3032 Lacs
	Add Seigniorage Fee @ 10% on Material Cost only :	0.36989 Lacs
	TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F. :	34.6322 Lacs
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY :	0.34632 Lacs
	TOTAL :	34.978 Lacs


r Engineer

(W) Div. Darbhanga-2


20/05/2021

Asstt. Engineer

RWD(W) Div. Darbhanga-2


20.5.21

Executive Engineer

RWD(W) Div. Darbhanga-2

Technically Sanctioned for Rs. 34,63,220.00 (Rupees
Thirty four lacs sixty three thousands two hundred twenty only)
SE

RWD(W) Circle Darbhanga

— Sd —

Superintending Engineer

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

Certified Copy


20.5.21

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


20/05/2021

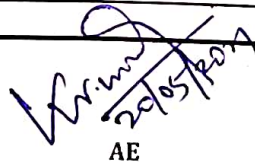
SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : PERMANENT RESTORATION OF ROAD FROM Panchshala To Agyaspur
DISTRICT DARBHANGA
BLOCK SINGHWARA
DIVISION DARBHANGA-2
LENGTH OF ROAD 2.000 KM
CD STRUCTURES
HUME PIPE 0
RCC CULVERT 0
BOX CELL CULVERT 0

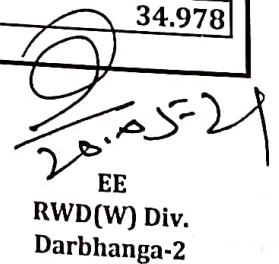
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	
2	EARTHWORK	0.000
3	GSB	0.816
4	WBM GRADE III	0.000
5	PRIME COAT	5.598
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	0.000
10	HARD SHOULDER	22.715
	SUB TOTAL OF PAVEMENT COST IN LACS =	1.192
11	CROSS DRAINAGE STRUCTURES	30.3206
I	HUME PIPE	
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 =	30.321
	ADD GST @ 12 % =	3.638
	ADD LABOUR CESS @ 1 % =	0.303
	Add Seigniorage Fee @ 10% =	0.370
	TOTAL COST OF PROJECT INCLUDING GST, L.C & S.F. IN LACS =	34.632
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.346
	TOTAL =	34.978


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RWD(W) Div. Darbhanga-2


AE

RWD(W) Div. Darbhanga-2


EE
RWD(W) Div.
Darbhanga-2

Name of Road : PERMANENT RESTORATION OF ROAD FROM Panchshala To Agyaspur										BLOCK : SINGHWARA				LENGTH : 2.000 KM	
Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m ³)	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	500.00	1.375 Avg	0.250 Avg	343.75						
			For 1000 m lead @ 100 %						343.75	237.43					81,617.00
											A) SUB TOTAL OF CRUST =				81,617.00
2	4.7	405	WBM Grading 3 with screening Material (By Mechanical Means)												
	(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.												
			Length in Metre												
	Chainage in M														
	From	To													
	0	500	500												
	Total Length=		500.00	Cum	1	500.00	3.750	0.075	140.63						
			Net WBM -3 Qty						140.630	3,980.36					5,59,758.00
											B) SUB TOTAL OF CRUST =				5,59,758.00

Name of Road : PERMANENT RESTORATION OF ROAD FROM RAICHURHALLA TO AGYESPURI BLOCK - JUNGLEHALLA										
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
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			
				Total Cost	cum		34.82	343.75	11969.38	1197.00
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.							
		(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	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			
				Total Cost	cum		703.87	140.63	98985.24	9899.00

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total material Amount	Aug 10 % Seigniorage Fee
5	6.4	1500	CC 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	300	178422	17842.00
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 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			
			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	250	80510	8051.00
			Total Construction cost of Seigniorage Fee @ 10%							36989.00

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20/05/2021

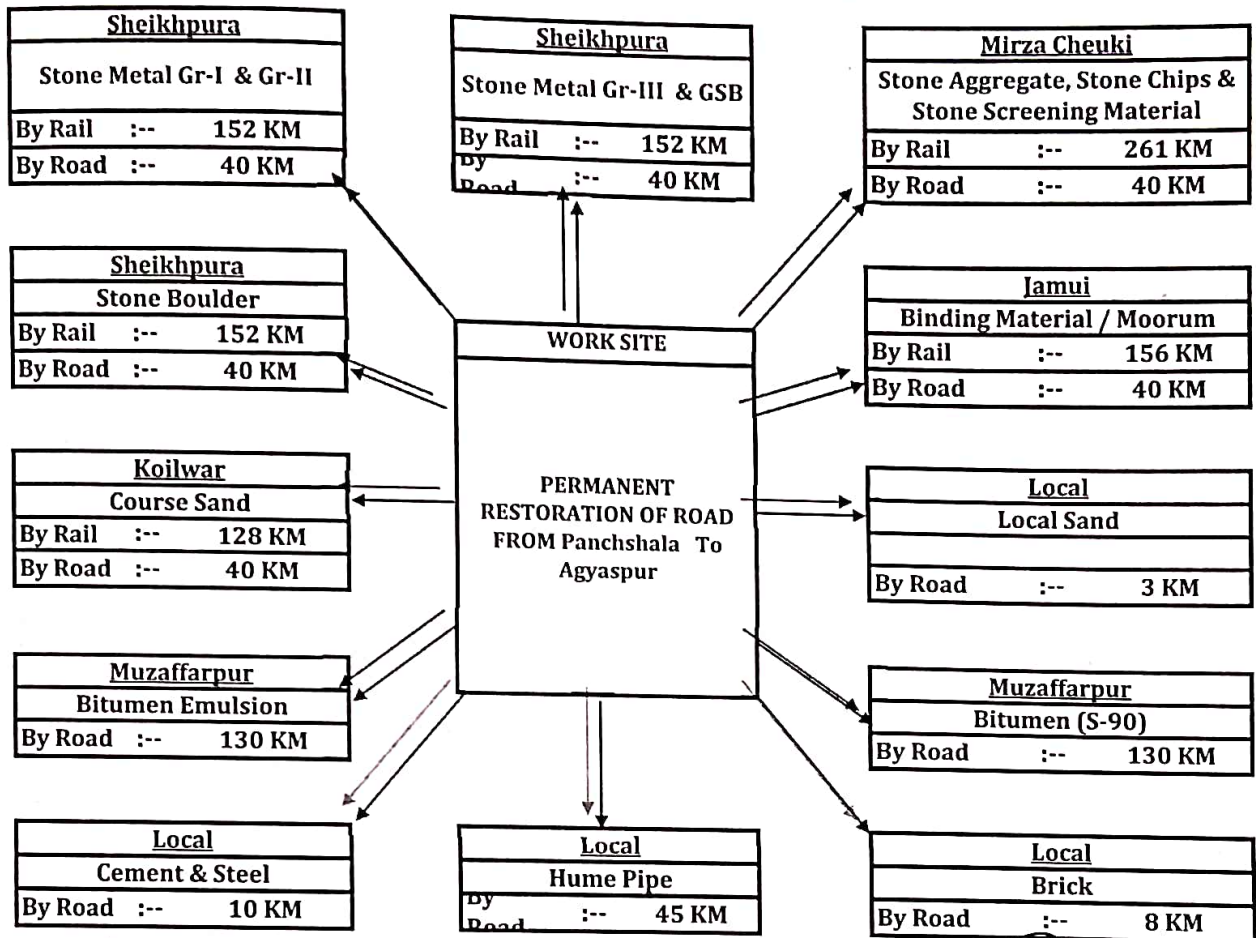
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Quarry Map

Name of Road :-- PERMANENT RESTORATION OF ROAD FROM Panchshala To Agyaspur

Block :-- SINGHWARA
District :-- DARBHANGA-2

Length of the Road:- 2.000 KM



* Subjected to Verification of Lead

J.E.

A.E.

E.E.

S.E.