

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

T/S COPY (For Emergent Situation)

DETAILED PROJECT REPORT

UNDER FDR

YEAR-2020-21



Name of the Road :-

**PERMANENT RESTORATION OF ROAD FROM SH-75 Tektar Railway
Gumti To Mirza Madhupur**

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	Singhwara	
ACTUAL LENGTH OF ROAD	:	2.700	KM
FLOOD AFFECTED LENGTH OF ROAD	:	0.465	KM
TOTAL COST OF PROJECT	:	39.309	Lac

SUBMITTED BY:-

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

:- Singhwara

District:- DARBHANGA

Length of Road:-- 2.700 KM

of Road:-- PERMANENT RESTORATION OF ROAD FROM SH-75 Tektar Railway Gumti To Mirza Madhupur

Item of Work	Amount
TOTAL COST OF CONSTRUCTION	: 34.05244 Lacs ✓
Add GST @ 12%	: 4.0863 Lacs ✓
Add Labour Cess @ 1%	: 0.3405 Lacs ✓
Add Seigniorage Fee @ 10% on Material Cost only	: 0.44013 Lacs ✓
TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F.	: 38.9194 Lacs ✓
CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY	: 0.38919 Lacs
TOTAL	: 39.309 Lacs


Engineer
(W) Div. Darbhanga-2


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

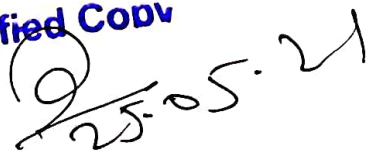

Executive Engineer
RWD(W) Div. Darbhanga-2

Technically sanctioned for Rs 389,1940 = 0 (Rupees thirty eight lacs ninetyone thousands nine hundred forty only).

SE
RWD(W) Circle Darbhanga

- Sd -
Superintending Engineer
RWD (W) CIRCLE, DARBHANGA

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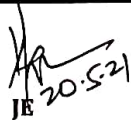

Superintending Engineer
RWD (W) CIRCLE, DARBHANGA


25/05/2021

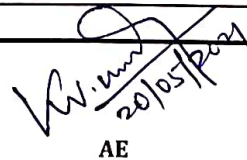
SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : ~~PERMANENT RESTORATION OF ROAD FROM SH-75 Tektar~~
Railway Gumti To Mirza Madhupur
DISTRICT DARBHANGA
BLOCK Singhwara
DIVISION DARBHANGA-2
LENGTH OF ROAD 2.700 KM
CD STRUCTURES
HUME PIPE 0
RCC CULVERT 1
BOX CELL CULVERT 0

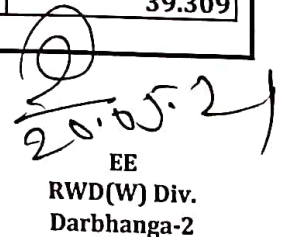
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.000
2	EARTHWORK	0.759
3	GSB	5.590
4	WBM GRADE III	5.294
5	PRIME COAT	0.000
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	21.301
10	HARD SHOULDER	1.108
	SUB TOTAL OF PAVEMENT COST IN LACS =	34.0524
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 =	34.052
	ADD GST @ 12 % =	4.086
	ADD LABOUR CESS @ 1 % =	0.341
	Add Seigniorage Fee @ 10% =	0.440
	TOTAL COST OF PROJECT INCLUDING GST, L.C & S.F. IN LACS =	38.919
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.389
	TOTAL =	39.309


JE 20.5.21

RWD(W) Div. Darbhanga-2


AE 20/05/2021

RWD(W) Div. Darbhanga-2


EE 20.05.21
RWD(W) Div.
Darbhanga-2

Name of Road : PERMANENT RESTORATION OF ROAD FROM SH-75 Tektar Railway Gumti To Mirza Madhup BLOCK : Singhwara										LENGTH : 2.700 KM	
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	465.00	1.375 Avg	0.250 Avg	319.69		
			For 1000 m lead @ 100 %						319.69	237.43	75,904.00
									A) SUB TOTAL OF CRUST =		75,904.00
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.								
				Cum	1.00	465.00	3.750	0.100	174.38		
									174.380	3,205.82	5,59,031.00
2	4.7	405 (3-B)	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							
			1100	1250							
			1400	1430							
			1600	1620							
			1800	1810							
			2200	2255							
			2300	2350							
			2450	2500							
			2600	2700							
			Total Length=						130.78		
					Cum	1	465.00	3.750	0.075		
			Net WBM -3 Qty						130.780	4,048.01	5,29,399.00
									B) SUB TOTAL OF CRUST =		10,88,430.00

RWD(W) Div. Darbhanga-2

18/10/24

RWD(W) Div. Darbhanga-2

AE
20/05/2024

RWD(W) Div. Darbhanga-2

EE

18/10/24

SL. No.	SDB NO	MORD Ref. No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m ³)	RATE(₹)	AMOUNT (₹)
3	6.4	1500	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 leveling the 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.	cum	1	465.00	3.750	0.160	279.00	7,634.67	21,30,073.00
4	4.18	412	On Flood affected portion (Details are as above mentioned) 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	465.00	0.250		232.50	476.72	1,10,837.00
			Hard Shouldering besides CC Portion						232.50		
			New Brick Area								
			C) SUB TOTAL OF CC PAVEMENT =								
			TOTAL COST OF PAVEMENT IN RS. (A+B+C) =								
			34,05,244.00								

LENGTH: 2.700 KM

SL. No.	SDB SL. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10 % Self-storage Fee
1	3.14	303.1	EARTHWORK Construction of Subgrade and Earthen Shoulders to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.							
			Material							
			Taking output = 100 cum							
			Unit = cum							
			Cost for 100 cum = a							
			Rate per cum = (a)/100							
			Compensation for earth taken from private land	cum	100.00	3482.00	3482.00			
			Cost for 100 cum = a							
			Rate per cum = (a)/100							
			Total Cost	cum		3482		319.69	11131.61	1113.00
2	4.1	401	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.							
			For Grading I Material							
			Unit = cum							
			Taking output = 300 cum							
			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							
			Rate per cum = (a)/300							
			Total Cost	cum			551.39	174.38	96151.39	9615.00
2	4.7	405	Water Bound Macadam with Stone Screening Type "B" Gr- III							
			WBMD 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							

LENGTH: 2.700 KM

No.	Rel No.	Unit	Quantity	Rate	Rs	Qty. required	Amount	Self-storage Fee
a)	Material (Refer Tables 400, 7, 9 and 10)	Aggregate						
		Grading 3 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	cum	86.40	392.53	33914.59		
		Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	cum			703.87		
		Cost for 360 cum = a						
		Rate per cum = (a)/360						
		Unit = cum						
		Taking output = 360 cum						
		Material						
3	6.4	1500	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 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 keyed side formwork (steel channel, laying and fixing 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)						
		Material						
		(100 x 3.75 x 0.200)						
		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		
		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						
		Unit = cum						
		Taking output = 75 cum						
		Material						
		(100 x 3.75 x 0.200)						
		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		
		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						
		Unit = cum						
		Taking output = 75 cum						
		Material						
		(100 x 3.75 x 0.200)						
		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		
		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						
		Unit = cum						
		Taking output = 75 cum						
		Material						
		(100 x 3.75 x 0.200)						
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		Rate per cum = (a)/75						
		Unit = cum						
		Taking output = 75 cum						
		Material						
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		Unit = cum						
		Taking output = 75 cum						
		Material						
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		Material						
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		Unit = cum						
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		Material						
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		Material						
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		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		
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		Rate per cum = (a)/75						
		Unit = cum						
		Taking output = 75 cum						
		Material						
		(100 x 3.75 x 0.200)						
		Crushed stone coarse aggregates, grading will be as per Clause 1501.2.4.1 (Table 1500.1) of specifications @ 0						

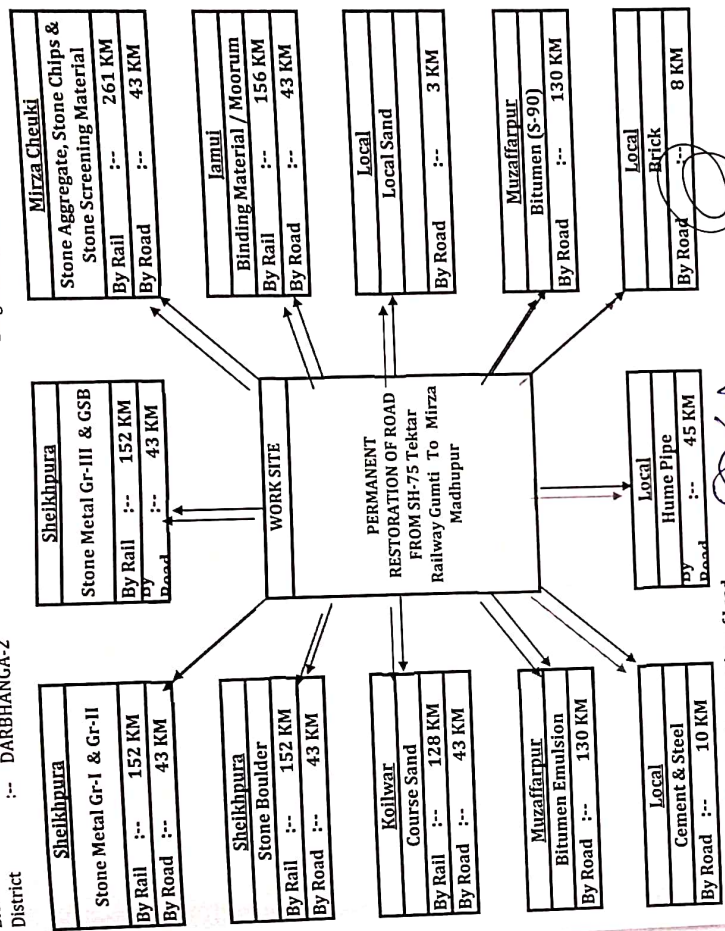
Quarry Map

PERMANENT RESTORATION OF ROAD FROM SH-75 Tektar Railway Gumti To Mirza

Name of Road :- Madhupur

Block :- Singhwara
District :- DARBHANGA-2

Length of the Road:- 2.700 KM



* Subjected to Verification of Lead

[Signature]
I.E.

[Signature]
A.E.

[Signature]
E.E.