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ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

TS ~~1~~ COPY (For Emergent Situation)

DETAILED PROJECT REPORT UNDER FDR YEAR-2020-21

T/s copy.



Name of the Road :-

PERMANENT RESTORATION OF ROAD FROM Madhopur To Banauli Via Fulthua

DISTRICT	:	DARBHANGA	
DIVISION	:	DARBHANGA-2	
BLOCK	:	SINGHWARA	
ACTUAL LENGTH OF ROAD	:	7.000	KM
FLOOD AFFECTED LENGTH OF ROAD	:	0.790	KM
TOTAL COST OF PROJECT	:	53.558	Lac

SUBMITTED BY:-

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

UNDER FDR

(Year-2020-21)

GENERAL ABSTRACT OF COST

Block:- SINGHWARA

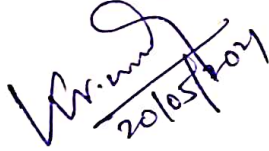
District:- DARBHANGA

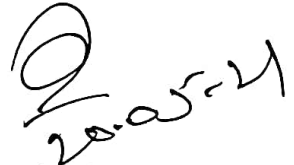
Actual Length of Road:- 7.000 KM

Name of Road:- PERMANENT RESTORATION OF ROAD FROM Madhopur To Banauli Via Fulthua

No.	Item of Work	Amount
	TOTAL COST OF CONSTRUCTION :	46.41019 Lacs
	Add GST @ 12% :	5.5692 Lacs
	Add Labour Cess @ 1% :	0.4641 Lacs
	Add Seigniorage Fee @ 10% on Material Cost only :	0.58442 Lacs
	TOTAL CONSTRUCTION COST INCLUDING GST, L.C & S.F. :	53.0279 Lacs
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY :	0.53028 Lacs
	TOTAL :	53.558 Lacs


Engineer
RWD(W) Div. Darbhanga-2


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

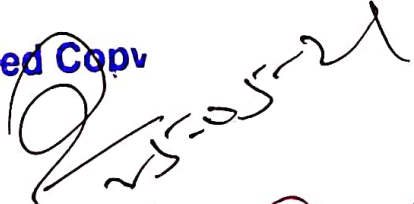

Executive Engineer
RWD(W) Div. Darbhanga-2

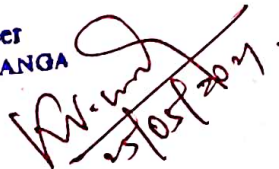
Technically sanctioned for Re. 5302790 (Rupees Fitty three lac two thousands seven hundred ninety only).

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~~ Madhopur To Banauli Via Fulthua
DISTRICT DARBHANGA
BLOCK SINGHWARA
DIVISION DARBHANGA-2
LENGTH OF ROAD 7.000 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	1.290
3	GSB	0.000
4	WBM GRADE III	8.343
5	PRIME COAT	0.000
6	TACK COAT	0.000
7	MIX SEAL SURFACING	0.000
8	SEAL COAT	0.000
9	CC PAVEMENT	34.895
10	HARD SHOULDER	1.883
	SUB TOTAL OF PAVEMENT COST IN LACS =	46.4102
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 =	46.410
	ADD GST @ 12 % =	5.569
	ADD LABOUR CESS @ 1 % =	0.464
	Add Seigniorage Fee @ 10% =	0.584
	TOTAL COST OF PROJECT INCLUDING GST, L.C & S.F. IN LACS =	53.028
	CONTINGENCY @ 1% FOR CONSTRUCTION COST ONLY =	0.530
	TOTAL =	53.558

JE

RWD(W) Div. Darbhanga-2

AE

RWD(W) Div. Darbhanga-2

EE

RWD(W) Div.
Darbhanga-2

NAME OF ROAD : PERKAWANENI RESTORATION OF ROAD FROM Madhopur To Banauli Via Fulthua											
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	790.00	1.375 Avg	0.250 Avg	543.13		
			For 1000 m lead @ 100 %						543.13	237.43	1,28,955.00
										A) SUB TOTAL OF CRUST =	1,28,955.00
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.								
			Chainage in M								
			From To								
			1000 1250								
			2200 2420								
			3400 3520								
			3600 3700								
			4800 4850								
			5500 5550								
			Total Length=								
			790.00	Cum	1	790.00	3.750	0.075	222.19		
			Net WBM -3 Qty						222.190	3,754.87	8,34,295.00
										B) SUB TOTAL OF CRUST =	8,34,295.00

Name of Road : PERMANENT RESTORATION OF ROAD FROM Madhopur To Banauli Via Fulthua												
Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH(m)	WIDTH(m)	HEIGHT(m)	QUANTITY(m³)	RATE(In ₹)	LENGTH : 7.000 KM	AMOUNT (In ₹)
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									
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 Hard Shouldering besides CC Portion New Brick Area	cum	1	790.00	3.750	0.160	474.00	7,361.74		34,89,465.00
				sqm	2.00	790.00	0.250		395.00			
									395.00	476.72		1,88,304.00
C) SUB TOTAL OF CC PAVEMENT =												36,77,769.00
TOTAL COST OF PAVEMENT IN RS. (A+B+C)=												46,41,019.00

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	Quantity	Rate	Amount in Rs	Total material Qty. required	Total material Amount	Seigniorage Fee	LENGTH: 7.000 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 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	Total Cost 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.	cum			34.82	543.13	18911.79		1891.00
		(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	222.19	156392.88		15639.00

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			
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	cum			594.74	474	281906.76	28191.00
		(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	395	127205.8	12721.00
			Total Construction cost of Seigniorage Fee @ 10%							58442.00

20/5/21

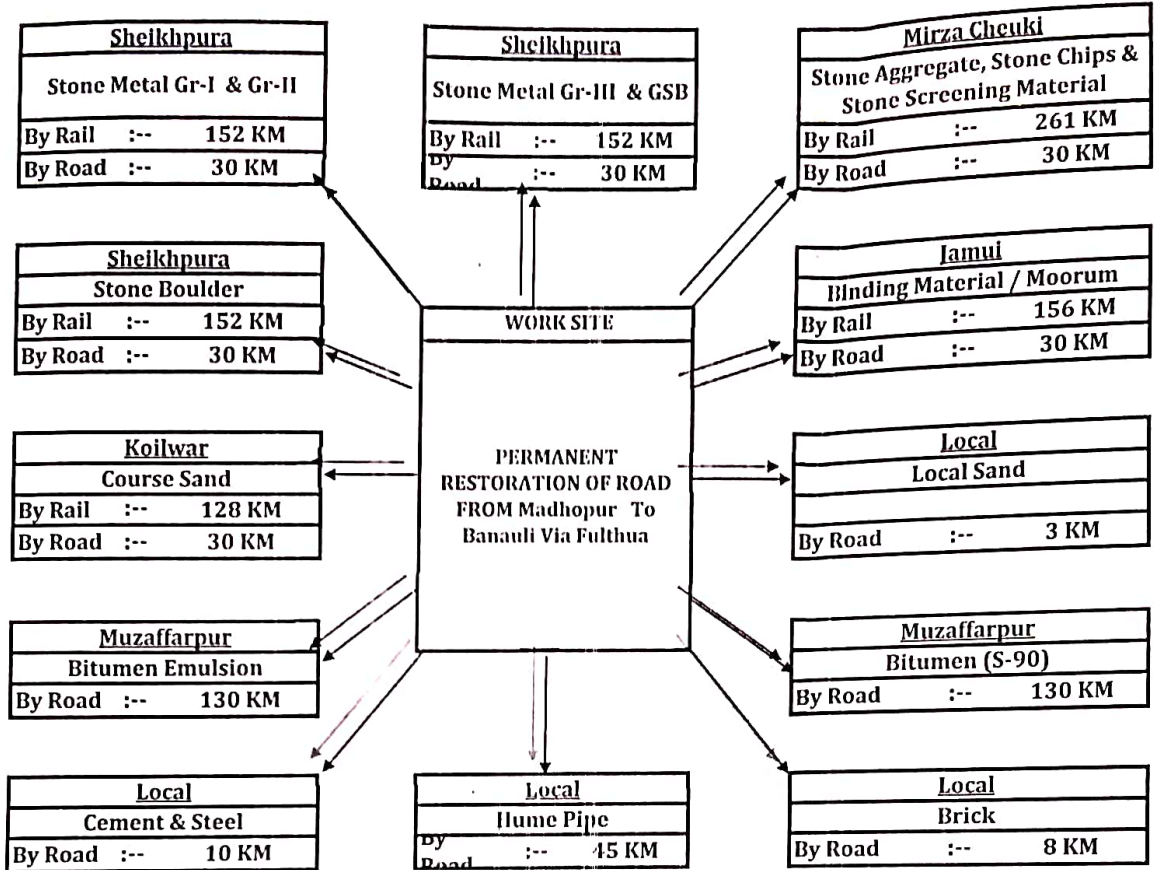
M. M. S. 20/5/21

Quarry Map

Name of Road :- ~~PERMANENT RESTORATION OF ROAD FROM~~ Madhopur To Banauli Via Fulthua

Block :- SINGHIWARA
District :- DARBHANGA-2

Length of the Road:- 7.000 KM



* Subjected to Verification of Lead

[Signature]
J.E.

[Signature]
20/05/2021
A.E.

[Signature]
20/05/21
E.E.
[Signature]
20/05/21
S.E.