



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT Bihar Rural Road Development Agency (BRRDA)

DETAILED PROJECT REPORT

YEAR (2020 - 2021)

FLOOD DAMAGED REPORT(FDR)

STATE BIHAR
DISTRICT Siwan
BLOCK Nautan

MAIRWA NAUTAN PATH TO KURMAUTA

TOTAL LENGTH OF ROAD	:- 1.45km
DAIMAGE LENGTH OF ROAD	:- 6 M
TOTAL COST OF CONSTRUCTION	:- Rs. 1.4073 Lakhs
TOTAL COST OF PROJECT	:- Rs. 1.4073 Lakhs

SUBMITTED BY:
EXECUTIVE ENGINEER
RWD WORKS DIVISION, SIWAN-2

Inspection Report for flood Damage Work

Date

1. Name of PIUs :-

Name of Block / Road :- Mairwa Naulan Path to Kurmauta

A For Road

1. Damage Location / Chainage : ch - 600 m

2. Damage Length : 06 m

3- Nature of Damage :- Heavy Rain / Flood

4. Details of Restoration Works :-

i. Material being used in Restoration Works : Earth work, Brick bats, RCC NP3 pipe of dia 1000 mm

ii. Equipments / Tools being used in Restoration Works :- JCB, Roller, Tractor, shovel, fundy,

iii. Procedure taken up in Restoration - Works :- yeh

iv. Restored Length :- 06 m

B For Bridge

N/A

1. Damage Location / Chainage

2. Damage Length :

3. Nature of Damage :-

4. Details of Restoration Works :

i. Material being used in Restoration Works :

ii. Equipments / Tools being used in Restoration Works :

iii. Procedure taken up in Restoration Works :

iv Restored Length :-

24/12/20
J.E.

24/12/20
A.E.

24/12/20

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रभाग सिवान-2

28/12/20
(Ajay Kr. Tiwari)
Executive Engr,
Gopalganj - I, Div.
Rural Works Deptt.

Flood Damaged Report(FDR)

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block: nautan

District: Siwan

Length of Road: 1.45 KM

Name of Road: mainwa nautan path to kurmauta

SL. No.	Item of Work	Amount
A	COST OF CONSTRUCTION	1.352 1.2455 Lakhs
	ADD LABOUR CESS 1 % ON (A)	0.0124 0.0124 Lakhs
	ADD GST 12 % ON (A)	1.533 0.1494 Lakhs
	TOTAL COST OF CONSTRUCTION	1.4073 Lakhs
	TOTAL	1.533 1.4073 Lakhs

30/11/20
Junior Engineer

30/11/20
Asstt. Engineer

30/11/20
Executive Engineer

Technically Approved for Rs 1.533 Lacs (Rupees one lac.
Fifty Three Thousand & Three Hundred) only

13/01/21
Superintending Engineer
RWD Work, Circle-Siwan

11/9/2021
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प्रातवेदन

पथ का नाम - मैरवा नौतन पथ से कुरुमौता

अतिवृष्टि और बाढ़ के कारण माह अगस्त-सितम्बर २०२० में उक्त पथ का लगभग 6 मीटर कट गया था। उक्त पथ में एक लोहा पुल स्थित है उसका भी दोनों पहेंच पथ भी कट गया था। आवागमन बिल्कुल अवरुद्ध हो चुका था। जिला पदाधिकारी, सिवान के द्वारा बाढ़ सम्बन्धी बैठक में आवागमन अतिशीघ्र चालू करने का निर्देश दिया गया। कार्यपालक अभियंता RWD SIWAN -2 के द्वारा निरीक्षण किया गया। फलतः स्थल पर ही कनीय अभियंता और सहायक अभियंता को शीघ्र आवागमन चालू कराने का निर्देश दिया। अतः स्थल पर कार्य पूर्ण कर आवागमन चालू कर दिया गया।

उक्त कार्य का बाढ़-क्षतिग्रस्त के तहत FDR शीर्ष में प्राक्कलन तैयार किया गया है। प्राक्कलन में निम्न प्रावधान किया गया है - कटे हुए स्थल पर 1 मीटर व्यास का single vent पाइप रखकर बगल से सैंड बैग रखकर मिट्टी भराई करके brick bats filling कर दिया है। Brigde उपगम में सैंड बैग filling करके आवागमन चालू कर दिया है। उक्त कार्य कि प्राक्कलित राशि : - 1.4073 लाख रुपये है। प्राक्कलन में दर चालू schedule rate पर आधारित है।

अतः अनुरोध है कि उक्त प्राक्कलन को स्वीकृत करने की कृपा की जाय ताकि मजदूरों का भुगतान और सामग्री का भुगतान किया जा सके।

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म० अभि०

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कार्यो अभि०

DETAILED ESTIMATE FOR PAVEMENT

L. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
SUB HEAD : EARTHWORK											
1	3.4	301.5	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m, transporting to the site spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 1000 m & 100 m</u> as per Technical Specification Clause 301.5. (Including Labour Cess).								
			At breach		1	7.50	6.00	1.50	67.50		
			Raincuts		1	20.00	3.00	2.60	156.00		
					1	3.00	1.50	1.50	6.75		
					1	2.00	1.50	1.50	4.50		
					1	5.00	1.70	1.50	12.75		
			At bridge approach		2	4.50	1.80	2.50	40.50		
			For 1000 m lead	Cum					Total	288.00	190.57
2	OLD SOR	8.1.3.2	Brick Bats								54,884.00
			Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks.								
			At breach		1	7.00	6.00	0.300	12.60		
			brick bat laying below pipe		1	7.50	1.50	0.300	3.370		
			At Rain cut		1	20.00	1.50	0.300	9.000	2412.11	60230.00
									Total	24.970	1661.35
											41,484.00
3	9.3B		Providing and laying RCC pipe NP.3 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling concrete and masonry works in head walls and parapets as per clause 1106								
				3	x	2.50			=	7.50	2733.50
											20501.20
											28,185.00
TOTAL COST											1,21,553.00

Rs 1.356 Lacs

Name of Road:--

Maurw nautan path to kurmauta

Analysis for Carriage by Road & Rail

District:-

Shwan

Block: Nautan

Item with Source	Unit	Source	Type of Road		Per Ton Km by		Per Ton Km by Truck	
			For Surface Road		Tipper		Total	
			Unsurface Gravel Road		10.10		7.52	
			Kachha Road		20.30		18.19	
			Pucka / Surface		Katcha		Loading & Unloading Cost	Min Total
Local Sand	Cum	Local	8.00		8.00			
			4.99 x 7.52 x 2.00 Km = Rs 24.11		4.99 x 18.19 x 1.00 Km = Rs 29.16		106.19	Rs 159.46
Brick	1000 Nos	Local	8.00		8.00			
			2.00 x 7.52 x 7.00 Km = Rs 210.56		2.00 x 18.19 x 1.00 Km = Rs 72.76		446.72	Rs 710.64
Cement	MT	Local	8.00		8.00			
			8.00 x 7.52 x 15.00 Km = Rs 112.00		8.00 x 18.19 x 0.00 Km = Rs 0.00		322.54	Rs 435.34
Barre pipe (1000 mm)	m	Local	8.00		8.00			
			10.00 x 7.52 x 55.00 Km = Rs 730.88		10.00 x 18.19 x 0.00 Km = Rs 0.00		76.58	Rs 407.46

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Analysis of Rates (FORMAT F8)

Sl. No.	SDR	MORD Ref	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
3.4		302 (A)	Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 Unit = cum Taking output = 100 cum				
		a)	Labour				
			Mate	day	0.04	305.00	12.20
		b)	Machinery	day	1.00	287.00	287.00
			Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	1969.20	3288.56
			Tipper 5.5 cum with 10 t capacity	hour	4.50	1,043.00	4,693.50
			Add 10 % of the cost of carriage by tipper				469.35
			Doser D 50 for spreading @ 200 cum per hour	hour	0.50	3,337.90	1,668.95
			Tractor mounted grader arrangement @ 25 cum per hour	hour	1.00	591.40	591.40
			Water tanker 6 kl capacity	hour	2.00	184.00	368.00
		c)	Material	hour	1.25	803.00	1,003.75
			Three wheel 80-100 kN Static Roller @ 80 cum per hour				
		d)	Water	kl	12.00	40.00	480.00
			Compensation for earth taken from private land	cum	100.00	34.81	3,481.00
		e)	Over Heads @ 6% on (a+b+c)				980.62
			Contractors Profit @ 10% on (a+b+c+d)				1732.43
			Cost for 100 cum = a+b+c+d+e				19,056.77
			Rate per cum = (a+b+c+d+e)/100 =				190.57
2	OLD SOR	8.1.3.2	Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc all complete job as per specification and direction of E/I including carriage cost of bricks. Unit = cum Assuming- 2.832 Cum				
		(iii)					
		a)	Cost of brick bat	cum	2.832	1017.00	2880.14
			Labour (Unskilled)				
		i)	Carrying, spreading, laying & Packing	nos	1.50	287.00	430.50
		ii)	Compaction brick bats with C.I. Hammer.	nos	0.67	287.00	192.29
			Over Heads @ 6 % on (a+b+c)				210.18
			C. Profit @ 10 % on (a+b+c+d)				371.31
		d)	Cost for 2.832 cum = a+b+c+d				4084.42
		e)	Rate Per cum = (a+b+c+d)/2.832	cum			1442.24
			<u>CARRIAGE</u>				
			Carriage for Brick (1 cum Bats = 300 nos Bricks)	nos	0.300	730.04	219.12
			Rate per cum with carriage				1661.35
			Total Cost	CUM			1,661.35
23 (II)	9.3	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106. B. 1000 MM DIA Unit = m Taking output = 7.5 m (3 pipes of 2.5 m length each)				
		a)	Material				
		i)	Sand	cum	0.04	141.85	5.67
		ii)	Cement	ton	0.02	4811.60	144.35
		iii)	RCC pipe NP 3 pipe including collar	m	7.50	2758.22	20686.65
		b)	Labour				
			Mate	day	0.09	305.00	27.45
			Mason (1st class)	day	0.25	388.00	97.00
			Mazdoor (Unskilled)	day	2.00	287.00	574.00
		c)	Over Heads @ 6% on (a+b)				1292.11
		d)	Contractors Profit @ 10% on (a+b+c)				2282.72
			Cost for 7.5m = (a+b+c+d)				25109.95
			Rate per m = (a+b+c+d)/7.5				3347.99
			<u>Carriage Cost</u>				
			Cement	ton	0.0040	435.34	1.74
			Sand	cum	0.0053	159.46	0.85
			Home Pipe culvert	m	1.00	407.46	407.46
			Total Cost				3,758.05

का नाम - भेरवा नीलन पथ से कुरमौला

शीर्ष - FDR



बाढ़ से क्षतिग्रस्त अवस्था



मरम्माति के बाद की अवस्था

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कृषिपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल सिवान-2