



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

PLAN HEAD FDR(2245)
(2021-2022)



ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR
MOTARABLE WORK IN SITALPUR RAJWADA PMGSY PATH TO BACHHA
SINGH KE DHALA HOTE HUE GANDAK NADI PAR

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Taraiya	
TOTAL LENGTH OF ROAD	:-	1.395 2.200	KM
EFFECTIVE LENGTH OF ROAD	:-	0.0050 KM 0.230 0.045 KM	KM
TOTAL COST OF CONSTRUCTION	:-	5.300	Lac
TOTAL COST OF PROJECT	:-	5.300	Lac

प्रतिवेदन

प्रस्तुत प्राक्कल्पन ग्रामीण कार्य विभाग, कार्य प्रमज्जल मर्दोरा के अन्तर्गत प्रयाग-तरेया के जीवपुर-रजवारा Pm 454 पथ से बय्यासिंह के दाला होते हुए गंडक नदी पार तक पथ में ~~का~~ जोड़ने का प्राक्कल्पन कार्य पालक अखिया के निर्देशानुसार तैयार किया गया है। कार्य का प्राक्कल्पित शशि 5.30 लाख रुपये मात्र है। पथ की लम्बाई: 1.395 किमी. क्षेत्रफल 300 मी. ~~0.015 किमी.~~

यह पथ Pm 454 योजना अन्तर्गत निर्माणधीन है। इसका पर्याय गंडक नदी के पश्चिम सखा तटवर्ष के समीप है। इस वर्ष नदी में अजी बाढ़ के कारण पथ में कचरा हुआ था। कार्यपालक अखि एवं अजीकरण अखि मज्दूम के स्वयं निरीक्षणोपरान्त विवे गले निर्देशानुसार ~~कचरा~~ पथ के अतिशुद्ध भाग में Double Lines का कार्य किया गया है।

कार्य का प्राक्कल्पन तैयार कर आवश्यक कारवाई एवं स्वीकृति हेतु समर्पित किया जाता है।

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5.11.21
कठमा
तरेया

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5.11.21
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तरेया

प्र. ०
कार्य अखि
कामपुर मर्दोरा

Inspection Report for Road Damage Work

Date:

1. Name of P.U.s- Executive Engineer, RWD, Moolhaura

2. Name of Block/Road- Torraigs, Sitapur-Rajwara Primsy Path TO Bachcha
Singh ke Dhale hote huge Grandak Nedi Par.

A. For Road

1. Damage Location/Chainage : 950, 1100
2. Damage Length : 0.045 km
3. Nature of Damage : Road Cutting
4. Details of Restoration :

- i Material being used in Restoration : Brick Bats, Soneel
ii Equipment/Tools being used in Restoration works: Troweler, Roller, etc
iii Procedure taken up in Restoration works : Brick Set bly
iv Restored Length : 0.045 km

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration :
i Material being used in Restoration :
ii Equipment/Tools being used in Restoration works:
iii Procedure taken up in Restoration works
iv Restored Length

X


21.11.2024

Signature of JE/AF EE


21.11.21




Signature

(Name of Inspector)

FDR

GENERAL ABSTRACT OF COST

Block:- Taraiya

District:- Saran

Length of Road:-- 2.200 KM

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Sitalpur Rajwada PMGSY Path To Bachha Singh Ke Dhala Hote Hue Gandak Nadi Par

SL. No.	Item of Work	Amount
A	TOTAL COST	: 5.300 Lacs
	TOTAL	: 5.300 Lacs

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5-11-2021

Junior Engineer

[Signature]
05/11/2021

Asstt. Engineer

[Signature]

Executive Engineer

T/S. for Rs. 5,30,000/- (Rupees five lakhs thirty thousand) only

SE
RWD

[Signature]
06/11/21
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Sitalpur Rajwada PMGSY Path To Bachha Singh										LENGTH:- 2.200 KM	
SL No.	SDE SL NO	MORD Ref No	Description	Unit	NOS	Block	Taraiya	DISTRICT	Saran	QUANTITY	RATE	AMOUNT (in Rs.)	
1	8.1.3.2	(iii)	Providing brick bats including spreading laying, Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete job as per approved design specification and direction of E/1, including carriage cost of bricks.										
			Quantity As Per Annexure-1 (For Brick Bats)	Cum						225.00	2,300.58		5,17,632.00
			Total Quantity=										
2			Local Sand For Voids Filling										
			Filling and Spreading local sand over brick bats as per drawing and technical specification clause 305.3.9										
			Quantity As Per Annexure-2 (For Local Sand)	Cum						19.00	652.27		12,393.00
			Total Quantity=										
			TOTAL COST IN RS.=										5,30,025.00

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ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Sitalpur Rajwada PMGSY Path To Bachha
Singh Ke Dhala Hote Hue Gandak Nadi Par

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av	HEIGHT (m)Av	UNIT	QUANTITY
1	CH-950 M	4	5.00	1.50	1.50	CUM	45.00 m3
2	CH-1100 M	1	10.00	4.00	1.00	CUM	40.00 m3
3	"	1	20.00	4.00	1.25	CUM	100.00 m3
4	"	1	10.00	4.00	1.00	CUM	40.00 m3
TOTAL QUANTITY FOR BRICK BATS=							225.00 m3

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ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For
Motorable Work in Sitalpur Rajwada PMGSY Path To Bachha
Singh Ke Dhala Hote Hue Gandak Nadi Par

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	CH-950 M	4	5.00	1.50	0.10	CUM	3.00 m3
2	CH-1100 M	1	10.00	4.00	0.10	CUM	4.00 m3
3	"	1	20.00	4.00	0.10	CUM	8.00 m3
4	"	1	10.00	4.00	0.10	CUM	4.00 m3
TOTAL QUANTITY FOR LOCAL SAND =							19.00 m3

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Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and direction of E/I.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	304.00	912.00
	Add 6% Overhead Charge				54.72
	Rate for 2.832 Cum				966.72
	Rate Per Cum(Rs.)=				341.36
RCD	Cost of haulage Excluding Loading and Unloading				
	Haulage of Materials By Tractor Excluding Cost Of loading, unloading and stacking				
	Unit-t.km				
	Taking output 3.60 tonnes load and lead 10 km =36.0 t.km				
	(i) Surface Road				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.667	652.00	434.88
	Time Taken For empty return trip	hour	0.400	652.00	260.80
	b) Overhead Charges @0.06 on (a)				41.74
	Cost for 36 t km=(a+b+c)/36				737.43
	Say RS.-				20.48
	ii) Unsurface Gravel Road				
	Speed With load :12 km / hour.				
	Speed for empty return trip :20 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.833	652.00	543.12
	Time Taken For empty return trip 0.50	hour	0.500	652.00	326.00
	b) Overhead Charges @0.06 on (a)				52.15
	Cost for 36 t km=(a+b+c)/36				921.26
	Rate per t.km = (a+b+c)/36				25.59
	Say RS.-				25.59

1.1 RCD	Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum				
	Placing Tractor at loading point, loading with frontloader, dumping, turnig for return trip, excluding for haulage and return trip.				
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for				
	i) Positioning of Tracter at loading Point		1 Min		
	ii) Loading by front end loader 1cum bucket @ capacity 25 cum per hour		5 Min		
	iii) Maneuvering, reverse, dumping and turnig for return		0 Min		
	iv) Wating time, unforeseen Contingencies etc.		0 Min		
	Total		6 Min		
	a) Labour				
	Mate	Day	0.03	316.00	9.48
	Mazdoor for loading and unloading	Day	0.72	304.00	218.88
	b) Machinery				
	Tractor 3.60 tonnes capacity	hour	0.10	652.00	65.20
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	3201.00	265.68
	c) Overhead charges @ 0.06 on (a+b)				33.55
	Cost for 2.25 cum = a+b+c+d				592.80
	Cost for 2.25 cum = (a+b+c+d)/2.25				263.47
Note-	Unloading will be done manually.				
1	Suplying for Brick Bats (With OH)				
A	Basic Rate of Brick Bats	Per Cum		1006.00	1006.00
	Add overhead Charges 6%		0.06		60.36
	Total-				1066.36
	Surface Lead	km	7.00		
	Unsurface Lead	km	1.00		
	Factor(3.6/2.25)	cum	1.60		
B	Carriage (with OH)				
	(1.6 x 7 x 20.48) + (1.6 x 1 x 25.59) + 263.47				533.83
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				341.36
	Total (A+B+C)-				1941.55
	Add 1% Labour Cess (A+B+C)				19.42
	Add 12% GST(A+B+C)				232.99
	Add 10% cost of Material for seigniorage Fee		1.00	106.64	106.64
	Total Cost per Cum		Rs:-		2300.58

Analysis for Carriage by Road & Rail

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Sitalpur Rajwada PMGSY Path To Bachha Singh Ke Dhala Hotc

Name of Road:-

District:-

Saran

Block :- Taraiya

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost by Rail Head	Total	Min Total
				Pukka / Surface	Katcha					
3	Local Sand	Cum	Local	8.00 4.99	x 10.10 x 2.00 Km = Rs 32.38	8.00 4.99	x 24.30 x 1.00 Km = Rs 38.96	113.67		Rs. 185.01

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26/11/2021
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