



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 GOVENDRI MUKHYA PATH SE DABRA NADI HOTE
HUYE NEPALI SINGH UCHH VIDYALYA TAK**

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Taraiya	
TOTAL LENGTH OF ROAD	:-	4.480	KM
EFFECTIVE LENGTH OF ROAD	:-	0.350	KM
TOTAL COST OF CONSTRUCTION	:-	17.986	Lac
TOTAL COST OF PROJECT	:-	17.986	Lac

Inspection Report for flood damage work

Date:

1. Name of P.U.s- Executive Engineer, R.W.D. Madhav

2. Name of Block/Road- Taraiya, Gavendare mukhya path se Dawara
Nadi kote huge Nepal Singh Uchch vidyalaya Tak.

A. For Road

1. Damage Location/Chainage : 800, 850, 1000 & 1100

2. Damage Length : 0.350 km

3. Nature of Damage : Shoulder Cut

4. Details of Restoration :

i Material being used in Restoration

ii Equipment/Tools being used in Restoration works : Brick Bats, sand

iii Procedure taken up in Restoration works : Tractor, Roller etc

iv Restored Length : Brick Bat filling

0.350 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

21.11.2021

Signature of JE/AF/EE

21.11.21

Signature

'S'

Signature

(Name of Inspector)

कार्य का नाम :- जवन्दी मुख्य पथ से डबर नदी डोटेरु
नेपाल सिंह उच्च विद्यालय तक पथ।

पथ की लम्बाई :- 2.265 कि०मी०

क्षेत्रीय संपर्क पथ की ल० :- 0.350 कि०मी०

प्राक्कलित राशि :- 17.986 लाख

प्रतिवेदन

प्रस्तुत प्राक्कलन, ग्रामीण कार्य विभाग कार्य प्रमण्डल-मर्दौरा अन्तर्गत प्रखण्ड-तरैया के उल्लेखित पथ में खाद से क्षतिग्रस्त भाग में मोटेरेख से कार्यवाहक अभियंता, कार्य प्रमण्डल-मर्दौरा के निर्देशानुसार तैयार किया गया है।

इस पथ का पथोच्च डबर नदी के किनारे अकल्पित है। विगत बरसात में ~~स~~ अतिवृष्टि के कारण नदी में आयी बाढ़ से पथ में कयव उत्पन्न हुआ था तथा पथ काफी क्षतिग्रस्त हुआ था। पथ में कार्य अभि एवं अर्थीक्षण अभि, ^{दूर} गाँव का 10 के डारा निरीक्षणोपरांत दिमें गये निर्देशानुसार 3 मचल-3 मचल भरकर कयव सेयी कार्य किया गया है।

प्राक्कलन तैयार कर आवश्यक कारवाई हेतु समर्पित किया जा रहा है।


5.11.21
क०अ०
तरैया


05.11.21
स० अ०
कार्य प्रमण्डल
तरैया


कार्यवाहक अभियंता
कार्य प्रमण्डल

FDR

GENERAL ABSTRACT OF COST

Block:- Taraiya

District:- Saran

Length of Road:- 4.480 KM

Name of Road:-

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work
in Govendri Mukhya Path Se Dabra Nadi Hote Huye Nepali Singh Uchh
Vidyalya Tak

SL. No.	Item of Work	Amount
A	TOTAL COST	17.986 Lacs
	TOTAL	17.986 Lacs


5.11.2021
Junior Engineer


05.11.2021
Asstt. Engineer


Executive Engineer

T/S. for Rs. 17.986/- Lacs.
(Rupees Seventeen Lacs Ninety Eight
thousand Six hundred) only.


22/01/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Govendri Mukhya Path Se Dabra Nadi Hote									
SL No.	SDB SL NO	MORD Ref No	Description		Unit	NOS	Block :-	Taraiya	HEIGHT	QUANTITY	AMOUNT (in Rs.)
							LENGTH	WIDTH			
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/I, including carriage cost of bricks.		Cum						
			Quantity As Per Annexure-1 (For Brick Bats)								
			Total Quantity =							768.93	2,300.58
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						
			Total Quantity =							45.38	652.27
			TOTAL COST IN RS. =								17,98,574.00


 5.11.2021
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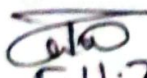

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ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Govendri Mukhya Path Se Dabra Nadi Hote
Huye Nepali Singh Uchh Vidyalya Tak

Block:- Taraiya

No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTITY
1	CH-400 M	4	7.00	1.00	0.75	CUM	21.00 m3
2	"	2	6.00	1.00	0.45	CUM	5.40 m3
3	CH-500 To 600 M	1	100.00	(0.6+1)/2	1.00	CUM	80.00 m3
4	CH-800 M	1	5.00	0.60	1.00	CUM	3.00 m3
5	CH-850 M	1	18.00	(0.8+1)/2	1.00	CUM	16.20 m3
6	CH-1000 M	1	47.00	(1+1.5)/2	1.50	CUM	88.13 m3
7	CH-1100 M	1	110.00	(1+2.2)/2	2.20	CUM	387.20 m3
8	"	1	40.00	(1.1+2.4)/2	2.40	CUM	168.00 m3
TOTAL QUANTITY FOR BRICK BATS=							768.93 m3


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ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For Of Road :- Motarable Work in Govendri Mukhya Path Se Dabra Nadi Hote Huye Nepali Singh Uchh Vidyalya Tak							Block:- Taraiya
No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-400 M	4	7.00	1.00	0.10	CUM	3.78 m3
2	"	2	6.00	1.00	0.10	CUM	1.20 m3
3	CH-500 To 600 M	1	100.00	(0.6+1)/2	0.10	CUM	8.00 m3
4	CH-800 M	1	5.00	0.60	0.10	CUM	0.30 m3
5	CH-850 M	1	18.00	(0.8+1)/2	0.10	CUM	1.62 m3
6	CH-1000 M	1	47.00	(1+1.5)/2	0.10	CUM	5.88 m3
7	CH-1100 M	1	110.00	(1+2.2)/2	0.10	CUM	17.60 m3
8	"	1	40.00	(1.1+2.4)/2	0.10	CUM	7.00 m3
TOTAL QUANTITY FOR LOCAL SAND =							45.38 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/L.				
	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)/840.34				921.26
	Rate per t.km = (a+b+c)/3623.34				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 front loader, 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				
	Mazdoor for loading and unloading	Day	0.03	316.00	9.48
	b) Machinery	Day	0.72	304.00	218.88
	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

Name of Road:-
District:-

Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Govendri Mukhya Path Se Dabra Nadi to
Saran Block:- Taraiya

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Katcha	Loading & Unloading Cost	Carriage Cost by Rail Road	Total	Min
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	Rs. 185.01

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Analysis of Rates (FORMAT F8)

600	Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9				
1	Fine Sand Filling				
	Unit = cum				
a)	Labour				
	Mate				
	Mazdoor Unskilled	day	0.01	310.00	3.10
b)	Material				
	Sand assuming 20% voids	day	0.30	304.00	91.20
c)	Overheads @6 % on (a+b)	day	1.20	141.75	170.10
d)	Contractor's profit @ 10% on (a+b+c)				15.86
	Rate per cum = a+b+c+d				28.03
	Carriage cost:-				308.29
	Fine Sand	nos.	1.20	185.01	222.01
	Cost per cum including Carrige				530.30
	Labour cess 1%				5.30
	GST 12%				63.64
	Seignorage 10%				53.03
	TOTAL COST	cum			652.27