



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR FLOOD DAMAGE REPORT (F.D.R)



S.H 74 to Murarpur

DISTRICT	:	Motihari	
DIVISION	:	Areraj	
BLOCK	:	Harsiddhi	
TOTAL LENGTH OF ROAD	:	0.950	KM
NET REPAIR LENGTH OF ROAD	:	0.086	KM
TOTAL COST OF REPAIR	:	12.320	Lac

Submitted by :

Bihar Rural Road Development Agency

RWD (W) Division Areraj

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- *Vikas Sumon, EE RWD Arisaf*
 Name of Block/Road :- *Harsiddhi, 51144 to Muradpur*

A. For Road

1. Damage Location/Chainage :- *410m*

2. Damage Length :- *86m*

3. Nature of Damage (Length Wise)

(i) Breach :- *22m*

(ii) Crust Damage :-

(iii) Only Flank Damage :- *64m*

whether traffic fully/Partially obstructed :- *fully obstructed*

4. Details of Restoration :-

(i) Material Being Used in Restoration :- *Brick Bats, Sand Bags, Bumbo*

(ii) Equipment/Tools Being Used in Restoration Works :- *JCB, Tractor with trolley*

(iii) Restored Length

In open Area :- *open Area*

In habitation Area :-

(iv) If Restoration work done in habitation Area give Reason :-

B. For Bridge (Size of Bridge/Culvert)

(1) Damage Location/Chainage :-

(2) No. of Span Damage :-

(3) Length of Span :-

(4) Nature of Damage (Pier/Abutment/
Wing Wall/Approach Road Damage) :-

(5) Details of Restoration :-

(i) Material Being Used in Restoration :-

(ii) Equipment/Tools Being Used in Restoration Works :-

(iii) Restored Length :-

Total Estimated cost Rs *12.32* lac.

Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :- *Satisfactory*

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28.11.24
 Signature of Inspector
 (Official Seal)

GENERAL ABSTRACT OF COST FOR E.D.R

REPAIR OF ROAD :

S.H 74 to Murarpur

DISTRICT

Mothhari

BLOCK

Harsiddhi

DIVISION

Areraj

LENGTH OF CONST. ROAD (in Km) 0.086

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
	ITEMS OF FLOOD DAMAGE REPAIR	
1	BRICK BATS	5.791
2	SAND BAGS	3.925
3	BAMBOO	0.616
	TOTAL =	10.332
	1% LABOUR CESS	0.103
	SEIGNIORAGE FEE	0.005
	SUB TOTAL =	10.441
	18 % GST (B)	1.879
	GRAND TOTAL =	12.320

JE
02/10/2024

AE
02/10/24

..17
23/10/24
RWD, (w). Division
Areraj

T.A.T.S. is accorded for Rs. 12.32000
(... crore, twelve lacs, thirty two thousand (... hundred (...) only)
29/11/24
S.E. (R.W.D.)
Works Circle
Mothhari
29/11/24

[illegible]

23/10/2024

Analysis for Carriage

Name of Road:--

S.H 74 to Murarpur

District:-

Motihari

Block :- Harsiddhi

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Road	Total
				Pucka / Surface	Katcha			
1	Brick Bat		Local	$\frac{3.60}{2.25} \times 20.90 \times 7.00 \text{ Km} = \text{Rs } 234.10$	$\frac{3.60}{2.25} \times 32.72 \times 1.00 \text{ Km} = \text{Rs } 52.35$	231.76		Rs 518.21

Cost of Haulage Excluding Loading & Unloading as per SOI aa

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck	Per Ton. Km by Tractor
For Surface Road	11.10	7.22	20.90
Unsurface Gravel Road	13.40	8.69	26.12
Kachha Road	27.00	17.48	32.72

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RATE OF BRICK BATS FILLING (MANUAL MEANS)

4.4 Loading and Unloading of Stone Boulder / Stone aggregate / Sand / Kanker / Moorum /Placing tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip				
Unit - cum	Unit	Qty	Rate	Amount
Taking output - 2.25 cum				
Time required for				
(i) positioning of tractor at loading point		1 min		
(ii) Loading by front end loader 1 cum bucket capacity @25 cum/hr		5 min		
Total		6 min		
a) Labour				
Mate	Day	0.03	434	13.02
Mazdoor for loading and unloading	Day	0.72	410	295.20
b) Machinery				
Tractor 3.60 tonnes capacity	Hour	0.1	688.00	68.80
Front end Loader 1 cum bucket capacity @25 cum/hour	Hour	0.083	1,587.00	131.72
OverHead @ 2.5 %				12.72
cost for 2.25 cum = a+b				521.46
Rate per cum = (a+b)/2.25				231.76
1.10 Haulage excluding Loading and Unloading				
Haulage of material by Tractor excluding cost of Loading, Unloading and Stacking				
Unit = 7km				
Taking Output 3.60 tonnes load and lead 10 km =36 t. km				
(i) Surface Road				
Speed with load 15km/hour				
Speed while returning empty 25km/hour				
a) Machinery				
Tractor 3.6 Tonnes capacity				
Time taken onward haulage with load	hour	0.667	688	458.896
Time taken for empty return trip	hour	0.400	688	275.2
cost for 36 t.km= a				734.10
Rate per 1 t. km= (a)/36				20.39
Say Rs.				20.39
Add Overhead @2.5%				0.51
Total				20.90
(ii) Unsurface Gravel Road				
Speed with load 12km/hour				
Speed while returning empty 20km/hour				
a) Machinery				
Tractor 3.6 Tonnes capacity				
Time taken onward haulage with load	hour	0.833	688	573.104
Time taken for empty return trip	hour	0.500	688	344
cost for 36 t.km= a				917.10
Rate per 1 t.km= (a)/36				25.48
Total per t. per km				25.48
Add Overhead @2.5%				0.64
Total				26.12

(ii) Unsurface Road (Kutchha Track and Track in River Bed / Nallah Bed and Choe Bed)				
Speed with load 10km/hour				
Speed while returning empty 15km/hour				
a) Machinery				
Tractor 3.6 Tonnes capacity				
Time taken onward haulage with load	hour	1	688	688
Time taken for empty return trip	hour	0.670	688	460.96
cost for 36 t.km= a				1148.96
Rate per 1 t.km= (a)/36				31.92
Total per t. per km				31.92
Add Overhead @2.5%				0.80
Total				32.72
4.5 Providing and Filling of Brick Bats				
Emergent Repair by Filling Brick Bats in Flood damaged Stretch of the Road for making it Motorableas per S/D of E/I				
Unit - cum				
Taking output - 2.832 cum				
a) Labour				
Mazdoor(Unskilled)	Day	2.17	410	889.70
b) Materials				
Brick Bats		2.832	1290.00	3653.28
Total				4542.98
Rate per cum= (a+b+c)/2.832				1604.16
Total per t. per km				1604.16
Add Overhead @2.5%				40.10
Total				1644.26
c) Carriage				
Tractor 3.6 Tonnes capacity (2.25 cum)		1.000	518.21	518.21
				2162.47
			Total	2162.47

SITE PHOTOGRAPH

Name of Road -S.H 74 to Murarapur

Before Flood



SITE PHOTOGRAPH

Name of Road -S.H 74 to Murarpur



During Flood



02/10/2024
J.E

22/10/24
AB

23/10/24

SITE PHOTOGRAPH

Name of Road - S.H 74 to Murarapur



SH 54, Murar Pur, Bihar 845437, India

GPS Map
Camera Lite

Latitude
26.596995°

Longitude
84.78705°

Local 04:37:24 PM
GMT 11:07:24 AM

Altitude 66 meters
Friday, 19.07.2024



HQWQ+J2P, Murar Pur, Bihar 845437, India

GPS Map
Camera Lite

Latitude
26.5970733333333334°

Longitude
84.7872883333333335°

Local 04:36:49 PM
GMT 11:06:49 AM

Altitude 66 meters
Friday, 19.07.2024

Signature
02/10/2024
J.E

Signature
02/10/24
A.E

Signature
23/10/24

SITE PHOTOGRAPH

Name of Road -S.H 74 to Murarapur



HQWQ+J2P, Murar Pur, Bihar 845437, India

Latitude
26.5968500000000003°

Longitude
84.78663166666665°

Local 04:34:13 PM
GMT 11:04:13 AM

Altitude 67 meters
Friday, 19:07:2024

Signature
02/10/24
J.E.

Signature
02/10/24
AB

Signature
23/11/24