



ग्रामीण कार्य विभाग

Rural Works Department, Govt. of Bihar

FLOOD DAMAGED REPAIR (F.D.R.)

STATE :- BIHAR
DISTRICT :- GOPALGANJ
BLOCK :- GOPALGANJ

Manikpur Khairatiy Road (86 No Dhala) To Malahi Tola Via Ram Nagar

ESTIMATED COST - RS.

589900.00

SUBMITTED BY :-
EXECUTIVE ENGINEER
RWD (W) DIVISION
GOPALGANJ-1

Inspection Report For Flood Damage Work

Note:

1 Name of PIUs: Gopalgarh - 4

2 Name of Block/Road: Gopalgarh / Manikpur Khairatpur Road (B6 No. 246) to Malahi Tola via Ram Nagar

For Road

1 Damage Location / Chainage: 410 m to 527 m, 2740 m to 2765 m

2 Damage Length: 55.65 m

3 Nature of Damage: Heavy Rain / Flood

4 Details of Restoration Works:

i. Material being used in Restoration Works: Brick Bats

ii Equipments / Tools being used in Restoration Works: JCB, Tractor, Trolly, Belcha, Shovel

iii Procedure taken up in Restoration Works: Yes

iv Restored Length: 55.65 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:

Nubak
23.11.2020

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AE

27/11/20
EE

Signature

17.12.20

(Name of Inspector)

Executive Engineer
Public Works Department
Work Division Siwan-2

Report

Name of Work :- Motorable work of Manikpur Khairatiy Road (86 No Dhala) To Malahi Tola Via Ram Nagar

Estimated Cost :- 589900.00

Total length of Road :- 3.600 km

Description :- The present estimate has been farmed under the supervision of Junior engineer in accordance with the order of Executive Engineer, RWD, Gopalganj-1, letter No. - 1574 dated 18-08-2020. The part of above mentioned road has been damaged due to heavy rain/flood. And due to this damage the transporation has been obstructed. The immediate motorable work is necessary in public interest. Villagers will be benefitted by the completion of this motorable work.

In the estimate there has been a provision of repairing the damaged part of the road & making it motorable by filling brickbats. In the context of post flood scenario there is still the flow of water which prevails through the damaged part of the road.

In this estimate the rate of raw materials and labour wages has been prepared after the analysis of new rate. This estimate is as per the specifications. The estimate is devoted to technical and administrative acceptance.

Edhas Vaseev
23.11.2020

J.E.

A.E.

27/11/22

E.E.

Inspection Report For Flood Damage Work

Date:

1 Name of PIUs: Gopalgarh - 4

2 Name of Block/Road: Gopalgarh / Manikpur Khairating Road (86 No Bhole)
to Malani Tola via Ram Nagar

A For Road

1 Damage Location / Chainage: 410 m to 527 m, 2740 m to 2765 m

2 Damage Length: 55.65 m

3 Nature of Damage: Heavy Rain / Flood

4 Details of Restoration Works:

i. Material being used in Restoration Works: Brick Bats

ii Equipments / Tools being used in Restoration Works: JCB, Tractor, Trolly, Belcha, Shovel

iii Procedure taken up in Restoration Works: Yes

iv Restored Length: 55.65 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:

Shas Nubeen
23.11.2020
JE

AE

APD -
23/11/20
EE

Signature
17.12.20

(Name of Inspector)

Executive Engineer
Rural Works Department
Rajkot Division, Gujarat

बाद से क्षतिग्रस्त पथों / पुल-पुलियों के पुनर्स्थापन की विवरणी

2020 - 2021

वित्तीय वर्ष-

2020-21

कार्य प्रगति का नाम-

क्रमांक	पथ का नाम	योजना शीर्ष	निर्मित / निर्माणाधीन	पंचवर्षीय रुटीन अनुसंधान लागू है या नहीं	पथ की लम्बाई (कि०मी० में)	क्षतिग्रस्त भाग की लम्बाई (मीटर)	क्षतिग्रस्त भाग की पूर्व की स्थिति में पुनर्स्थापन हेतु अनुमानित राशि (लाख में)	बाद से क्षतिग्रस्त पुल / पुलियों यदि हो	पुनर्स्थापन हेतु अनुमानित राशि (लाख में)
1	2	3	4	5	6	7	8	9	10
1		PMGSY/RA	निर्मित	लागू है	3.68 Km	60 मी० (लाख)	10 लाख	N/A	N/A
2									
3									
4									

पथ का नाम :-

मनीपुर 2020-21 पथ
(86 नं० बाला) से मलाई
होना आया रामपुरनगर

22.11.2020
E.S.

Detailed Estimate For Motorable Work in Road from Manikpur Khairatiy Road (86 No Dhala) To Malahi Tola Via Ram Nagar damaged due to Heavy rain/flood for year 2020-2021

Items	No.	L (M.)	W (M.)	D (M.)	Qty.	Unit	Rate	Amount
Providing brick bats filled in ditches including all cost of labour & material with all complete job.								
CH - 410 M to 527 M	1	1.90	1.25	0.35	0.83	M3		
	1	9.35	4.85	1.10	49.88	M3		
	1	1.65	1.15	0.60	1.14	M3		
	1	2.05	0.95	0.45	0.88	M3		
	1	1.20	1.10	0.55	0.73	M3		
	1	3.15	1.30	0.50	2.05	M3		
	1	6.10	1.95	0.90	10.71	M3		
	1	8.75	2.15	0.95	17.87	M3		
CH - 2740 M to 2765 M	1	21.50	5.60	1.30	156.52	M3	2412-11	580354.00
					240.60	M3	2427.65	584090.77
								580354.00
								584090.77
Add 1 % Contingency								5840.91
							Total	589931.68
							Say	589900.00

586158.00

Say Rs 5.862 lac

Eds Nuseen
23-11-2020

J.E.

A.E.

E.E.

Technically Approved for Rs 5.862 lac (Rupees Five Lacs Eighty Six Thousand & Two Hundred only)

अधीक्षण अभियंता
प्रमाण कार्य विभाग कार्य अंशक मितवा

अधीक्षण अभियंता
प्रमाण कार्य विभाग कार्य अंशक मितवा
24/11/20

1	Providing brick bats billing in ditcel including all cost of labour & material				
A.	Basic Rate of Brick Bats (RCD SOR)	Per Cum		1006.00	1006.00
	Add Royalty (450 Bricks/Cum)		450.00	1017.00	1017.00
	Add overhead Charges		6%	0.00	0.00
	Total				61.02
					1078.02
	Surface Lead	KM	7		
	Unsurface Lead	KM	1		
	Factor (3.6/2.25)	Cum	1.60		
B.	Carriage (With OH)				
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 1$				410.07
C.	Cost of labour pitching and light				383.15
D.	Contractor Profit @ 10% on (A+B+C)				187.12
	Total (A+B+C+D) -				2058.36
	Add 1 % Labour Cess				20.58
	Add 12 % GST				247.00
	Add 10 % cost of Material for Seignior		1.00	101.70	101.70
	Total cost per Cum			Rs.-	2427.65
2	Providing Empty Cement Bag billed				2412.11
A	Basic rate of sand Bag	Per Bag		8.46	8.46
	Add overhead charges		6%		0.51
	Total -				8.97
	1. No. cement bag filled with 40 kg/1				
	Conversion Factor : 1 M3 = 35.31466				
	1) Cubic Meter = Cubic Foot/35.3146				
	2) Cubic Meter = 1.2/ 35.3146667				
	3) Cubic Meter = 0.034				
	Hence 1 No. Sand bag filled with 0.03				
	Surface Lead	Km	2		
	Katcha Lead	Km	1		
	Factor (3.6/2.5)	Cum	1.60		
B.	Carriage (with OH)				
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 26.95) + 1$				
	Cost of carriage of sand in filling of o				280.71
C.	Cost of labour for filling sand bag,		280.71	0.034	9.54
D.	Contractor Profit @ 10% on (A+B+C)				6.08
	Total (A+B+C+D) -				2.46
	Add 1% Labour Cess				27.05
	Add 12% GST				0.27
	Add 10% Cost of Material for Seignior				3.25
			0.034	14.19	0.48
	Total Cost per Bag				
				Rs.-	31.04

Eds. Naveen
23.11.2020
J.E

1.4 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 : 15km/hour

Speed while returning empty : 25 km

a) Machinery

Tractor 3.6 tonne capacity

Time taken for onward haulage with

hour

0.667

549.10

366.25

Time taken for empty return slip

hour

0.400

549.10

219.64

b) Overhead charges @ 0.06 on (a)

35.15

c) Contractor's profit @ 0.1 on (a+b)

0.00

Cost for 36 t. km = a+b+c

621.04

Rate per t.km = (a+b+c)/36

17.25

Say Rs. -

17.25

(ii) Unsurfaced Graveled Road

Speed with load : 12km/hour

Speed while returning empty : 20 km

a) Machinery

Tractor 3.6 tonne capacity

Time taken for onward haulage with

hour

0.833

549.10

457.40

Time taken for empty return trip

hour

0.500

549.10

274.55

b) Overhead charges @ 0.06 on (a)

43.92

c) Contractor's profit @ 0.1 on (a+b)

0.00

Cost for 36 t. km = a+b+c 840.34

775.87

Rate per t.km = (a+b+c)/36 23.34

21.55

Say Rs. -

21.55

1.1 RCD

Loading and unloading of stone Boulder/stone aggregates/Sand/Kankar/Moorum/Brics Bats

Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip.

Unit = Cum

Taking output = 2.25 Cum

Time required for

i) Positioning of Tractor at Loading Pt

1 Min

ii) Loading by front end loader cum

5 Min

iii) Maneuvering, reversing,

0 Min

iv) Waiting time, unforeseen contigen

0 Min

Total

0 Min

a) Labour

6 Min

Mate

Mazdoor for loading and unloading

day

0.03

305.00

9.15

b) Machinery

day

0.72

287.00

206.64

Tractor 3.6 tonne capacity

Front end loader 1 cum bucket

hour

0.1

549.10

54.91

c) Overhead charges @ 0.06 on (a+b)

hour

0.083

1403.00

116.45

Cost for 2.25 cum = a+b+c+d

23.23

Rate per cum = (a+b+c+d)/2.25

410.38

Unloading will be done manually

182.39

Note :-

Edhas Haseen
23.11.2020
J.E

12/27/11/20