

# GOVERNMENT OF BIHAR

UNDER FLOOD DAMAGE REPAIR 2020

## Estimate for Restoration of Traffic

DISTRICT : WEST CHAMPARAN BLOCK : MAJHAULIA

YEAR(2020-2021)

NAME OF ROAD : Baghambarpur to Semraghat [2.0 KM]

Total Length	:	0.412	KMS	
Cost of Pavement (Rs.)	:	4392201.00		
Total Cost Of Road (Rs.)	:	4392201.00		

SUBMITTED BY

Executive Engineer RWD

Works Division, Bettiah

बिहार सरकार  
ग्रामीण कार्य विभाग

पत्रांक - मु0अ0-4 (मु0) विविध (कार्य)-23-40/16 - 2254

पटना, दिनांक 30/6/2020

प्रेषक,

पंकज कुमार पाल,  
सचिव

सेवा में,

सभी कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
बिहार, पटना।

विषय-

संभावित अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त पथों के आपातकालीन मरम्मत के संबंध में।


महाशय,

उपर्युक्त विषय के संबंध में कहना है कि राज्य में मानसून अति सक्रिय है जिसके कारण बाढ़ प्रवण जिलों में पथों के क्षतिग्रस्त होने की संभावना है। अतः निदेश दिया जाता है कि वर्तमान मानसून के दौरान अतिवृष्टि/बाढ़ से क्षतिग्रस्त पथों को मोटरेबुल बनाने का कार्य तत्परता से प्राथमिकता में किया जाय जिससे कि पथों में यातायात कम से कम समय तक बाधित रहे। इस क्रम में यह भी निदेश है कि जिला प्रशासन के साथ वर्षा-अवधि के दौरान लगातार समन्वय रखी जाय एवं उनसे प्राप्त पथों की मरम्मत का कार्य प्राथमिकता में कराया जाय।

ऐसे पथ जिनकी अनुरक्षण नीति के अन्तर्गत मरम्मत कार्य की निविदा प्रक्रिया में है उनको भी मोटरेबुल बनाए रखना विभाग का दायित्व है। इन्हें मोटरेबुल बनाए रखने में यदि प्राक्कलन में प्रावधानित मदों का उपयोग किया जाना आवश्यक हो तो वैसे स्थिति में एकरारनामा करने के समय इन मदों की उतनी मात्रा परिमाण विपत्र में से घटा दिया जाए।

क्षेत्रीय पदाधिकारी वर्षा-अवधि के दौरान बिना जिलाधिकारी अथवा अधोहस्ताक्षरी की अनुमति के मुख्यालय नहीं छोड़ेंगे।

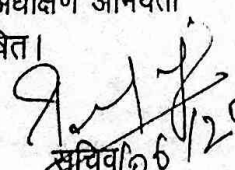
विश्वासभाजन

  
(पंकज कुमार पाल)  
सचिव 30/6/2020

ज्ञापांक:- मु0अ0-4 (मु0) विविध (कार्य)23-40/16 - 2254

पटना, दिनांक 30/06/2020

प्रतिलिपि:- सभी प्रमंडल आयुक्त/जिलाधिकारी/सभी मुख्य अभियंता/सभी अधीक्षण अभियंता  
ग्रामीण कार्य विभाग, बिहार, पटना को सूचनार्थ एवं आवश्यक कारवाई हेतु प्रेषित।

  
सचिव 30/06/2020

## TECHNICAL REPORT

Name of Road :- Baghambarpur to Semraghat (2.0 km)  
Name of Block :- Majhulia.  
Name of Division :- Works Division, Bettiah.  
Name of District :- West Champaran.  
Estimated Cost :- Rs - 4392201 = 00  
Restoration Length :- 412M

This Estimate is prepared for Restoration of .... Baghambarpur to Semraghat (2.0 km) .....

.....road under FDR as per the instruction of Secretary, Rural Works Department, Patna vide,  
ज्ञापक:- मु0अ0 -4 (मु0) विविध (कार्य) 23 -40 /16-2254 पटना, दिनांक 30.06.2020. Road remains effected  
from flooded about 01 to 02 weeks and heavy amount of water passed through it.

Honorable Chief Minister/Secretary, Rural Works Department, Bihar, Patna/D.M., West Champaran,  
Bettiah/Concerned MP/MLA has instructed to maintain the traffic and movement of public etc. at the  
earliest so that public of this area may get connected and for the same Departmental instruction has also  
been issued to fill the gap made by flooded immediately.

The area surrounding is submerged in water and hence provision of .... bricks bats .....  
..... E/W, Humefipe ..... has been made to  
maintain the road damage due to flood/heavy rainfall as per availability of material from available place by  
tractor. Presently there is no Contractor is employed for Construction and Maintenance of this road hence  
the work has been carried out Departmentally and due to this, provision of Contractor profit is not  
mentioned in the estimate.

In view of above, it is requested to approve the estimate amounting to Rs.

please.

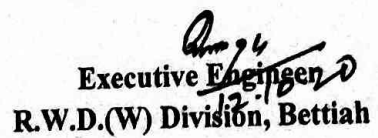
Submitted for Technical Approval please.



Junior Engineer,  
Majhulia



Assistant Engineer,  
Majhulia

  
Executive Engineer  
R.W.D.(W) Division, Bettiah

**(RURAL WORKS DEPARTMENT, GOVT. OF BIHAR)**  
**COST ESTIMATE FOR traffic Restoration**

Name of Road: Baghambarpur to Semraghat  
District: WEST CHAMPARAN

Block: MAJHAULIA  
Cutting length

Length: 412.000 m  
412 M

S. No.	SOR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount
1	2.13. C	<b>Removal of Hume pipe</b>								
		Removing all types of Hume pipes and stacking within a lead of 1000 m including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.								
			9	2.50		1	22.50			
							22.50	M	381.23	8578.00
2		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								
			15	2.50		1	37.50	M	4744.43	177916.00
		<b>(B) EARTHWORK</b>								
3	3.3	<b>Construction of Embankment with Material Obtained from Roadway cutting</b>								
		Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5 excluding C.P.								
		<b>As per measurement</b>					1502.250	Cum.	25.32	38036.97
4	RCD	Placing Tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip excluding C.P. including Carriage								
		<b>As per measurement</b>					1502.250	cum	450.77	677173.89
5	RCD	Laying brick bats on prepared soil surface as per Specification & direction of Engineer Incharge								
		<b>As per measurement</b>					1661.61	cum	1703.77	2831003.02
		<b>Total Road work</b>								3732707.88
		<b>Say Rs.</b>								447924.95
		<b>Add GST @12%</b>								37327.08
		<b>Add Labour Cess @1%</b>								174241.19
		<b>Add Seignrage Fee@10% of basic material rate</b>								4392201.09
		<b>Total Cost of work</b>								

*12/10/20*  
*JE*

*12/10/20*

*12.10.20*  
*EE*



Detailed Measurement Earth work				
No	L(m)	W(m)	D(m)	Qty(cum)
1	120	$(4.0+3.75)/2$	$(2.0+1.50)/2$	813.750
1	60	$(3.0+2.0)/2$	$(1.50+1.20)/2$	202.500
1	80	$(4+3+2)/3$	$(1.5+1.2)/2$	486.000
TOTAL	260			1502.25

Detailed Measurement Brick Bat				
No	L(m)	W(m)	D(m)	Qty(cum)
1	20	$(5.5+6.5)/2$	$(1.0+2.0)/2$	180.000
3	10	$(4.0+3.75)/2$	$(1.50+1.0)/2$	145.313
1	12	$(4.0+3.75)/2$	$(1.50+1.0)/2$	58.125
1	40	$(3.0+2.0)/2$	$(1.50+1.20)/2$	135.000
1	30	$(2.0+1.50)/2$	$(1.50+1.20)/2$	70.875
1	20	$(6+7+8)/3$	$(4+4.5)/2$	595.000
Less for Hume pipe				(-)80.165
TOTAL				1104.15

RE DAMAGED(MEASUREMENT)

Detailed Measurement (Brick Bat)				
No	L(m)	W(m)	D(m)	Qty(cum)
1	15	$(7.5+6.0)/2$	$(3.0+2.0)/2$	253.125
2	10	$(4.0+3.75)/2$	$(1.50+1.0)/2$	96.875
1	12	$(4.0+3.75)/2$	$(1.50+1.0)/2$	58.125
1	40	$(3.0+2.0)/2$	$(1.50+1.20)/2$	135.000
1	40	$(2.0+1.50)/2$	$(1.50+1.20)/2$	94.500
Less for Hume pipe				(-)80.165
TOTAL	117			557.46

JE  
12/10/20

AB  
12/10/20

EE  
12.10.20

# **RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL**

Carriage Cost (Surfaced Road):

Carriage Cost (Un Surfaced Road):

Carriage Cost (Kacha Road):

With truck

Rs 6.79 Per Tonne Per Km

Rs 8.17 Per Tonne Per Km

Rs 16.45 Per Tonne Per Km

With tractor

Rs 17.25 Per Tonne Per Km

Rs 21.55 Per Tonne Per Km

Rs 26.95 Per Tonne Per Km

NAME OF ROAD : Baghambarpur to Semraghat  
BLOCK : MAJHAULIA

DISTRICT WEST CHAMPARAN

S.NO.	Material	Railway Freight (Rs)	Lead Distance(Km)			Loading	Unloading	Unit	Carriage Cost Per Km			Total Carriage Cost	SOURCE
			Surface Road	Unsurfaced Road	Kaccha Road				Surface Road	Unsurfaced Road	Kaccha Road		
1	Aggregate for WBM Gril & Gr	1,987.88	20	0	0	109.85	66.46	Cum	236.69	0.00	0.00	2400.88	SHEKHPUR A
2	Crushed Stone for Concrete work	1,833.26	20	0	0	109.85	66.46	Cum	217.72	0.00	0.00	2227.29	SHEKHPUR A
3	Stone Chips (For PMC & Seal Coat)	1,833.26	20	0	0	109.85	66.46	Cum	217.72	0.00	0.00	2227.29	MIRJA CHOWKI
4	Moorum	1,439.39	20	0	0	66.46	41.61	Cum	181.07	0.00	0.00	1728.53	SHEKHPUR A
5	Cement		20	0	0	163.11	163.11	MT	135.80	0.00	0.00	462.02	Local
6	Coarse Sand		147	0	0	66.46	41.61	Cum	1600.21	0.00	0.00	1708.28	KOILWAR
7	Fine Sand(Local Sand)		2	0	1	66.46	41.61	Cum	21.77	0.00	26.37	156.21	Local
8	Steel Reinforcement		20	0	0	173.19	173.19	Tonne	135.80	0.00	0.00	482.18	Local
9	RCC Pipe NP3 (1000 mm dia)		45	0	0	29.56	24.30	RM	244.44	0.00	0.00	298.30	Local
10	RCC Pipe NP3 (600 mm dia)-		45	0	0	20.04	13.41	RM	97.78	0.00	0.00	131.23	Local
13	Jhama metal		7		1	210.41	210.41	1000 No.	483.00	0.00	107.80	1011.62	Local
13	Brick Bat		7		1	210.41	210.41	1000 No.	483.00	0.00	107.80	1011.62	Local
15	Stone Boulders	2,017.58	20			109.85	66.46	Cum	271.60	0.00	0.00	2465.49	SHEKHPUR A
16	Earth by tractor		8		1	182.39		Cum	220.80		43.12	446.31	450.77 Dumari
16	Earth by truck		10		1	66.46	41.61	Cum	72.43		21.93	202.43	Dumari

*AS*  
12/10/2020  
JE

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