

GOVERNMENT OF BIHAR
RURAL WORKS DEPARTMENT

RESTORATION WORK

2020-21

STATE :- BIHAR
DISTRICT :- Vaishali
BLOCK :- Mahnar

**N.H-103 TO JAUJ MIDDLE BHAYA JANDAHA PRATHMIK
SAWASTHI KENDRA TAK PATH MAIN RESTORATION WORK**

ESTIMATE

TOTAL LENGTH OF ROAD	2.000 KM
TOTAL COST FOR RESTORATION	Rs. 1.63 Lacs
TOTAL PROJECT COST INCLUDING LC & GST	Rs. 1.64 Lacs

PREPARED BY:
EXECUTIVE ENGINEER
RWD WORKS DIVISION
MAHNAR

Inspection Report for Flood Damage Work

Date:

1. Name of PIUs - EE RWD, MAHNA-R

2. Name of Block/Road - MAHNA-R

A. For Road NH 103 to Jainti Middle bhaia Jaintia Prathmik
Sarcasta, Jaintia Jaintia Prathmik

1. Damage Location/Chainage : CH 100 to CH 400, CH 500 to CH 1200

2. Damage Length :

3. Nature of Damage : Khari Bandh, Collapse, Process Protection

4. Details of Restoration Works :

i. Material being used in Restoration works :

Brick bats, Local sand/Rebar

ii. Equipments/Tools being used in Restoration works :

iii. Procedure taken up in Restoration works :

iv. Restored Length :

B. For Bridge

1. Damage Location/Chainage :

- NA -

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 :

Signature of JE/AE/EE

20.12.21
Signature

(Name of Inspector)

(EE, RWD, MAHUWA)

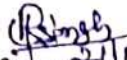
प्रतिवेदन

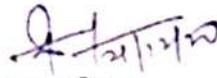
योजना शीर्ष :- एम0आर0 3054 (जिससे पथ का उन्नयन कार्य हुआ)
योजना का नाम :- एन0एच0 103 से जावज मिडील भाया जन्दाहा प्राथमिक स्वस्थ्य केन्द्र तक पथ में
मरम्मत कार्य।
योजना शीर्ष :- F.D.R. के अन्तर्गत प्रस्तावित
पथ्यांश की लम्बाई :- 2.000 कि० मी०
प्रखंड :- महनार
प्रमण्डल :- महनार
जिला :- वैशाली
प्राक्कलित राशि :- 1.63 लाख

प्रस्तुत प्राक्कलन 2020 के दौरान कराये गये अपातकालिन सड़क मरम्मत कार्य हेतु तैयार किया गया है। जूलाई 2020 के महिना में हुई वर्षा के कारण इस ग्रामीण पथ के पहले कि०मी० में भारी जलजमाव के कारण पथ काफी क्षतिग्रस्त हो गया था, यातायात सुचारु रखने के कम में पथ के क्षतिग्रस्त भाग में समतलीकरण करके ब्रिक बेट और लोकल बालू डालकर डालकर पथ का मरम्मत कार्य किया गया है।

इस प्राक्कलन में ब्रिक बेट, लोकल बालू आदि के दर का दर विषलेषण वास्तविकता के आधार पर किया गया है। इस दर में 10 प्रतिशत सी.पी. सम्मिलित नहीं है।

प्राक्कलन की घटनोत्तर तकनीकी स्वीकृति अपेक्षित है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग, कार्य प्रमंडल,
महनार।

Flood Damage Repair
GENERAL ABSTRACT OF COST

Name of Road : N.H-103 To Jauj Middle bhaya jandaha prathmik sawasth kendra tak path Main
Restoration work

District : Vaishali

Block : Mahnar

Sl. No.	Item of work	Amount (In Rs.)
1	Cost for Erosion control work	1,35,551.49
	Total Cost of Work :	1,35,551.49
	Labour Cess @ 1%	1,355.51
	GST @ 12 %	16,266.18
	Total Seigniorage Fee	10,246.08
	Grand Total :	1,63,419.25

R Singh
JE 21/12/20

Q. J.
AE 21/12/20

Amr
EE 21/12/20

T/A for Rs 1,63,419/- (Rupees one lakh sixty
three thousand four hundred nineteen only)

Amr
21.12.20

(Superintending Engineer)
R.W.D, Works circle
Muzaffarpur

Flood Damage Repair
GENERAL ABSTRACT OF COST

Name of Road : N.H-103 To Jauj Middle bhaya Jandaha prathmik sawasth kendra tak path Main
Restoration work

District : Vaishali

Block : Mahnar

Sl. No.	Item of work	Amount (In Rs)	Labour Cess 1%	GST 12 %	Amount (In Rs.)
1	Filling Brick Bat	1,25,386.91	1253.87	15046.43	<u>1,41,687.21</u>
2	Local Sand	10,164.58	101.65	1219.75	<u>11,485.97</u>
	Sub Total :	1,35,551.49	1355.51	16266.18	<u>1,53,173.18</u>
	Total Cost of Work :				1,53,173.18
	Total Seigniorage Fee				10,246.08
	Grand Total :				1,63,419.25

Rangh
21/12/20
JE

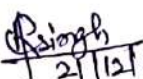
21/12/20
AE

21/12/20
EE

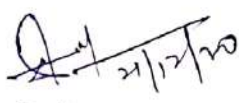
Flood Damage Repair
COST ESTIMATE FOR RESTORATION WORK

Road N.H-103 To Jauj Middle bhaya Jandaha prathmik sawasth kendra tak path Main Restoration work
District Vaishali
Block Mahnar

Sl No.	Reference to MORD	Brief Description of Item	No.	Measurements			Unit	Quantity	Rate (Rs)	Amount (Rs)
				L (m)	B (m)	D (m)				
		Supplying Filling Brick Bat Compacted Manually by CI Hammer including all complete job.								
			1	28.0	3.75	0.30	CUM	31.50		
			1	6.0	3.75	0.20	CUM	4.50		
			1	4.0	3.00	0.20	CUM	2.40		
			1	10.0	3.75	0.25	CUM	9.38		
			2	9.0	3.75	0.25	CUM	16.88		
			1	7.0	3.75	0.25	CUM	6.56		
			2	5.0	3.75	0.20	CUM	7.50		
			2	3.0	2.00	0.20	CUM	2.40		
		Total		72.00	3.4	0.2	CUM	81.11	1545.83	1,25,386.91
4	300 & 1200	Supplying Filling Local Sand								
		Filling in foundation trenches as per drawing and technical specification Clause 305.3.9								
			1	72.0	3.44 (av.)	0.100 (av.)	CUM	24.750		
		Total					CUM	24.750	410.69	10,164.58
TOTAL COST										1,35,551.49


21/12/20
Junior Engineer

R.W.D. Works Section, Mahnar


21/12/20
Asstt. Engineer

R.W.D. (W) Sub Division, Mahnar


21/12/20
Executive Engineer

R.W.D. Works Division, Mahnar

General rate Analysis

Sr. No.	Reference to	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1		Supplying Filling Brick Bat Compacted Manually				
		Unit = cum				
		Taking output = 300 cum				
		a) Labour				
		Mate	day	0.48	305.00	146.40
		Mazdoor (Skilled)	day	2.00	364.00	728.00
		Mazdoor (Unskilled)	day	10.00	267.00	2,670.00
		c) Material				
		For Material				
		Brick Bat	cum	300.00	1,017.00	3,05,120.00
		d) Overheads @ 6.0% on (a+b)				22,191.86
		Cost for 300 cum = a+c+d				3,02,056.26
		Rate per cum = (a+c+d)/300				1,306.85
		Add for Carriage Cost				
		Brick Bats Equivalent to Brick (663.52*850/1000*2.832)	cum	1.20	199.15	238.98
		Total Cost per cum				1,545.83
		Rate Adopted in DPR				1,545.83
2	10 & 12	Filling in foundation trenches as per drawing and technical				
	1	Sand filling				
		Unit = cum				
		a) Labour				
		Mate	day	0.01	264	2.64
		Mazdoor (Unskilled)	day	0.3	268	80.40
		b) Material				
		Sand (assuming 20 per cent voids) (Fine)	cum	1.2	116.85	140.22
		c) Overheads @ 6% on (a+b) Fine Sand Used				13.41
		Rate per cum = a+b+c (If fine Sand Used)				236.87
		Add for Carriage Cost				
		Fine Sand	cum	1.2	144.65	173.52
		Total Cost per cum				410.69
		Rate Adopted in DPR				410.69

Ratish
21/12/20
JE

Ratish
21/12/20
AE

SL No.	SDE SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required (Cum)	Total Amount	Add 10 % Seigniorage Fee
1			Supplying Filling Brick Bat Compacted Manually							
			Supplying Filling Brick Bat Compacted Manually by CI Hammer including all complete job							
			Unit = cum							
			Taking output = 300 cum							
			Material							
			Brick Bat	cum	360.00	1017.00	366120.00			
			Rate per cum = (a)/300	cum			1220.40			
			Total Cost				1220.40	81.11	98990.31	9899.03
1			Supplying Filling Local Sand							
			Filling in foundation trenches as per drawing and technical specification Clause 305.3.9							
			Unit = cum							
			Taking output = 300 cum							
			Material							
			Local Sand	cum	1.20	116.85	140.22			
			Cost 1 cum = a				140.22			
			Rate per cum = (a)	cum			140.22			
			Total Cost				140.22	24.75	3470.45	347.04
			Total Seigniorage Fee							10246.08

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RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

		By Truck		By Tipper	
Carriage Cost (Surfaced Road):	6.83	Rs 6.83 Per Tonne Per Km	7.60	Rs 7.6 Per Tonne Per Km	
Carriage Cost (Un Surfaced Road):	8.22	Rs 8.22 Per Tonne Per Km	9.20	Rs 9.2 Per Tonne Per Km	
Carriage Cost (Kacha Road):	16.54	Rs 16.54 Per Tonne Per Km	18.50	Rs 18.5 Per Tonne Per Km	
: N.H-103 To Jauj Middle bhaya jandaha prathmik sawasth kendra tak path Main Restoration work					
NAME OF ROAD		DISTRICT:- Vaishali			
BLOCK		Mahnar			

		Surface Road	Unsurfaced Road	Kaccha Road		Surface Road	Unsurfaced Road	Kaccha Road	
2	Crushed Stone cum Aggregate including Grlll	49	0	0	81.01	Cum	8/4.99	595.84	0.00
7	Fine Sand(Local Sand)	2	0	1	96.53	Cum	8/5	21.86	26.46
13	Brick	7	0	1	406.12	1000 No.	8/2	191.24	66.16
13	Brick Bats	7	0	1	406.12	Cum	8/4.59	83.33	28.83
									1606.08
									144.85
									663.52
									518.28

Rajesh
21/12/20
AE

Rajesh
21/12/20
AE

BASIC RATES

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287
L-02	Bitumen Sprayer(semi skilled)	day	302
L-03	Blacksmith, special	day	388
L-04	Blaster, 2nd class	day	477
L-05	Carpenter 1st Class	day	388
L-07	Chiseller	day	364
L-08	Dresser (Skilled)	day	367
L-09	Driller	day	345
L-10	Electrician, skilled	day	367
L-11	Fitter, skilled	day	395
L-12	Mason (1st class)	day	388
L-13	Mason (2nd Class)	day	345
L-14	Mate	day	305
L-15	Mazdoor (Unskilled)	day	287
L-16	Mazdoor (Semi skilled)	day	299
L-17	Mazdoor (Skilled)	day	364
L-18	Painter (1st class)	day	364
L-19	Plumber, Special	day	364
L-20	Surveyor	day	349
L-21	White Washer	day	364

(C) RATE OF MATERIAL AT SITE

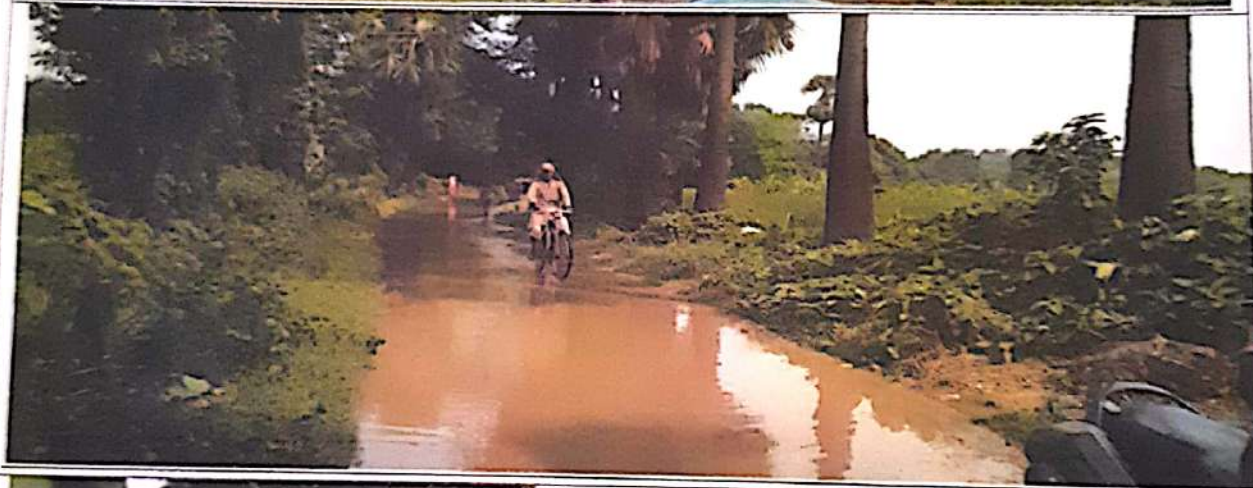
Sl. No.	Description	Unit	Basic rate	Royallity	Final Basic Rate
M-044	Brick 1st Class	No.	5.285		5.29
M-119	Sand (Coarse)	cum	100.8	75	175.80
M-120	Sand (Fine)	cum	66.85	75	141.85
M-120	Sand (Fine)	cum	116.85		116.85
M-140	Water	kl	40		40.00
	Brick Bats	cum	1017		1017.00

Note: For Brick, Royalty has been Included as Rs. 45.00 per 1000 Nos. & for Brick bat as Rs. 18.00 per m³ (cum)

Rishabh
21/12/20
NE

[Signature]
21/12/20
AE

NAME OF RD :- N.H-103 To Jauj Middle bhaya jandaha prathmik sawasth
kendra tak path Main Restoration work.
TOTAL LENGTH OF RD :- 2.000KM, BLOCK :- MAHNAR,



Pr Singh
21/12/20
NE

A. J. J. J. J.
AE

Pr Singh
21/12/20



Rishabh
 21/12/20
 JE

J. K. Sharma
 AE

J. K. Sharma
 21/12/20



R. Singh
 21/12/20
 JE

J. Singh
 21/12/20
 AE

B. Singh
 21/12/20



CR Singh
21/12/20
NE

A. Singh
21/12/20
AE

A. Singh
21/12/20