

GOVERNMENT OF BIHAR
RURAL WORKS DEPARTMENT

RESTORATION WORK

2020-21

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

MAHNAR RAILWAY STATION SE KHANPUR PATH MAIN
RESTORATION WORK

ESTIMATE

TOTAL LENGTH OF ROAD	2.000 KM
TOTAL COST FOR RESTORATION	Rs. 1.00 Lac.
TOTAL PROJECT COST INCLUDING LC & GST	Rs. 1.00 Lacs

PREPARED BY:
EXECUTIVE ENGINEER
RWD WORKS DIVISION
MAHNAR

Inspection Report for Flood Damage Work

Date:

1. Name of PIUs - EE RWD, MAHAR

2. Name of Block/Road - MAHAR

A. For Road

Mahar railway station to Khanpur tal

1. Damage Location/Chainage : CH 200 to CH 1900

2. Damage Length :

3. Nature of Damage :

Excess precipitation / water logging

4. Details of Restoration Works :

i. Material being used in Restoration works :

Brick bats, local sand / rubbish

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 21/12/20
AE

Signature 23.12.20
L. B. S. S. S.

(Name of Inspector)
(EE, RWD, MAHUWA)

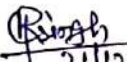
प्रतिवेदन

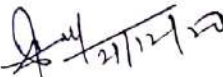
योजना शीर्ष :- एम0आर0 3054 (जिससे पथ का उन्नयन कार्य हुआ)
योजना का नाम :- महनार रेलवे स्टेशन से खानपुर तक पथ में मरम्मत कार्य।
योजना शीर्ष :- F.D.R. के अन्तर्गत प्रस्तावित
पथ्यांश की लम्बाई :- 2.400 कि० मी०
प्रखंड :- महनार
प्रमण्डल :- महनार
जिला :- वैशाली
प्राक्कलित राशि :- 1.08 लाख

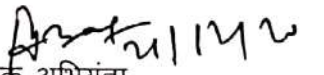
प्रस्तुत प्राक्कलन 2020 के दौरान कराये गये अपातकालिन सड़क मरम्मत कार्य हेतु तैयार किया गया है। जूलाई 2020 के महिना में हुई वर्षा के कारण इस ग्रामीण पथ के पहले कि०मी० में भारी जलजमाव के कारण पथ काफी क्षतिग्रस्त हो गया था, यातायात सुचारु रखने के कम में पथ के क्षतिग्रस्त भाग में समतलीकरण करके ब्रिक वेट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

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

प्राक्कलन की घटनोत्तर तकनीकी स्वीकृति अपेक्षित है।


21/12/20
कनीय अभियंता


सहायक अभियंता


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

Inspection Report for Flood Damage Work

Date:

1. Name of PIUs - EE RWD, MATTA

2. Name of Block/Road - MATTA

A. For Road Mahmar railway station to Khanpur tal

1. Damage Location/Chainage : CH 200 to CH 1900.

2. Damage Length :

3. Nature of Damage : Excess precipitation / water logging

4. Details of Restoration Works :

i. Material being used in Restoration works : Bridge bays, local sand / Rubbish

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 :

2. Damage Length : -NA-

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 :

Pr Singh
21/12/20
JE

Arav
21/12/20

Signature of JE/AE/EE

Signature

(Name of Inspector)

Flood Damage Repair
GENERAL ABSTRACT OF COST

Name of Road : Mahnar railway station se khanpur path Main Restoration work

District : Vaishali

Block : Mahnar

Sl. No.	Item of work	Amount (In Rs.)
1	Cost for Erosion control work	89,464.33
	Total Cost of Work :	89,464.33
	Labour Cess @ 1%	894.64
	GST @ 12 %	10,735.72
	Total Seigniorage Fee	6,856.99
	Grand Total :	1,07,951.68

Pr Singh
21/12/20
NE

A. K. Singh
21/12/20
AE

Arav
21/12/20
EE

T/A for Rs 1,07,951/- (Rupees one lakh Seven thousand more hundred fifty one only)

1/12/20

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

Flood Damage Repair
GENERAL ABSTRACT OF COST

Name of Road : Mahnar railway station se khanpur 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	84,866.07	848.66	10183.93	95,898.66
2	Local Sand	4,598.26	45.98	551.79	5,196.04
	Sub Total :	89,464.33	894.64	10735.72	1,01,094.69
Total Cost of Work :					1,01,094.69
Total Seigniorage Fee					6,856.99
Grand Total :					1,07,951.68

Rajesh
21/12/20
JE

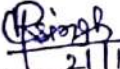
Amit
21/12/20
AE

Amit
21/12/20
EE

Flood Damage Repair
COST ESTIMATE FOR RESTORATION WORK

Road **Mahnar railway station se khandpur 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)				
1		Supplying Filling Brck Bat Compacted Manually by CI Hammer including all complete job.								
			4	3.0	2.00	0.20	CUM	4.80		
			2	3.0	3.00	0.20	CUM	3.60		
			3	5.0	3.00	0.20	CUM	9.00		
			1	3.0	3.75	0.20	CUM	2.25		
			2	6.0	3.00	0.30	CUM	10.80		
			1	8.0	2.00	0.20	CUM	3.20		
			1	10.0	3.75	0.30	CUM	11.25		
			3	2.0	2.00	0.20	CUM	2.40		
			1	6.0	2.00	0.20	CUM	2.40		
			1	5.0	2.00	0.20	CUM	2.00		
			2	4.0	2.00	0.20	CUM	3.20		
		Total		55.00	2.0	0.1	CUM	54.90	1545.83	84,866.07
2	300 & 1200	Supplying Filling Local Sand								
		Filling in foundation trenches as per drawing and technical specification Clause 305.3.9								
			1	55.0	2.04 (av.)	0.100 (av.)	CUM	11.196		
		Total					CUM	11.196	410.69	4,598.26
TOTAL COST										89,464.33

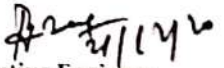

21/12/20
Junior Engineer

R.W.D. Works Section, Mahnar


21/12/20

Asstt. Engineer

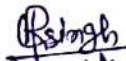
R.W.D. Works Sub division,
Mahnar

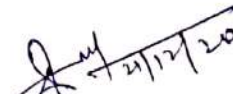

21/12/20
Executive Engineer

R.W.D. Works Division, Mahnar

General rate Analysis

Sr. No.	Refer ence 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	287.00	2,870.00
		c) Material				
		For Material				
		Brick Bat	cum	360.00	1,017.00	3,66,120.00
		d) Overheads @ 6.0% on (a+b)				22,191.86
		Cost for 300 cum = a+c+d				3,92,056.26
		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				
		I. Sand filling				
		Unit = cum				
		a) Labour				
		Mate	day	0.01	284	2.84
		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	144.85	173.82
		Total Cost per cum				410.69
		Rate Adopted in DPR				410.69


 21/12/20
 JE


 21/12/20
 AE

Sl. No.	SDB 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 C1 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	54.90	66999.96	6700.00
1			Supplying Filling Local Sand							
			Filling in foundation trenches as per drawing and technical specification Clause 303.3.9							
			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	11.20	1560.96	157.00
								Total Seigniorage Fee		6856.99

21/12/20
NE

AE

RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

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

By Truck

By Tipper

NAME OF ROAD
BLOCK

: Mahnar railway station se Khanpur path Main Restoration work

: Mahnar

DISTRICT:- Vaishali

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

Rs 12112.20
21/12/20
NE

AE
21/12/20

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	Royalty	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)

Rough
21/12/20
JE

21/12/20
AE

NAME OF RD :- Mahnar railway station se khanpur Path Main Restoration work.

TOTAL LENGTH OF RD :- 2.000KM, BLOCK :- MAHNAR,



R Singh
21/12/20
JE

A. J. Singh
AE

Pray
21/12/20



Singh
 21/12/20
 NE

Singh
 21/12/20
 AE

Singh
 21/12/20