



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2021-22)

STATE  
DISTRICT  
BLOCK  
DIVISION

BIHAR  
MADHEPURA  
MURLIGANJ  
MADHEPURA

**DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF  
ROAD FROM RATANPATTI MORE SE MANHARA PMGSY  
NAHAR**

Actual Length of Road	=	0.720 Km
Flood affected Length of Road	=	0.541 Km
TOTAL COST OF PAVEMENT	Rs	11,10,203.08
TOTAL PROJECT COST	Rs	11,10,203.08

Submitted By:  
Executive Engineer  
RWD (W) Division, Madhepura

Prepared By:  
Executive Engineer  
RWD (W) Division, Madhepura

## Inspection Report for Flood Damage work

Date:-

1 Name of PIUS :-

Madhepura

2 Name of Block :-

Murhiganj

3 Name of Road :-

Rathanpatti more se Mahhara P.M.G.S.Y kharar

### A. For Road

1 Damage Location/Chainage :-

0+83m 83 to 280, 280 to 395, 395 to 525, 525 to 625, 625 to 720m

2 Damage Length :-

0.541 km

3 Nature of damage :-

4 Details of Restoration Works :-

i Material being used in Restoration works:-

Bricks bats, Local sand

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 :-

3 Nature of damage :-

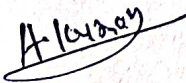
4 Details of Restoration Works :-

i Material being used in Restoration works:-

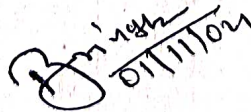
ii Equipments/Tools being used in Restoration works :-

iii Procedure taken up in Restoration works :-

iv Restored Length :-



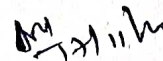
JE



AE



EE



Signature

(Name of inspector)

—:तकनीकी प्रतिवेदन:—

अंचल का नाम:— मधेपुरा

प्रमण्डल का नाम:— मधेपुरा।

योजना शीर्ष:— 3054 एफ.डी.आर.

पथ का नाम:— **Rathanpatti more se manahara PMGSY nahar**

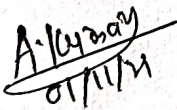
पथ की लम्बाई:— **0.720** कि.मी.

निर्मित/निर्माणाधीन पथ का शीर्ष:— मुख्यमंत्री ग्राम सम्पर्क योजना

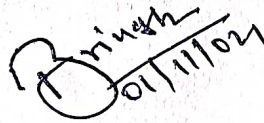
प्राक्कलित राशि:— **रु0 11.102** लाख

प्रस्तुत प्राक्कलन वर्ष 2021 में आई अप्रत्याशित अतिवृष्टि एवं बाढ़ के कारण **Rathanpatti more se manahara PMGSY nahar** पथ में हुए क्षति यथा कटाव/धसान/जलजमाव की आकस्मिक मरम्मत एवं यातायात पूर्णबहाल करने हेतु शीर्ष 3054 एफ.डी.आर. मद से सचिव, ग्रामीण कार्य विभाग/उच्चाधिकारियों के द्वारा दिये गये निर्देश के अनुपालन में तैयार किया गया है।

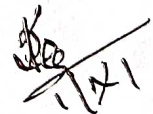
प्राक्कलन अन्तर्गत पथ में हुए क्षति की विस्तृत मापी दर्शायी गई है एवं प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है।



कनीय अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रशाखा मुरलीगंज



सहायक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अवर प्रमण्डल, मुरलीगंज



कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमण्डल, मधेपुरा।

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF  
ROAD FROM RATANPATTI MORE SE MANHARA PMGSY  
NAHAR

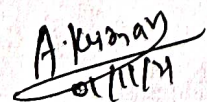
DIVISION :- MADHEPURA

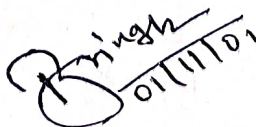
BLOCK :- MURLIGANJ


Actual Length of Road :- 0.720 Km

Flood Affected Length of Road :- 0.541 Km

Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	9,39,196.10
2	Add:-Labour Cess @1% amt. =	9,391.96
3	Add:GST@12% on amt. =	1,12,703.53
4	Add:S.F.@ 10% on Material =	48,911.48
TOTAL RESTORATION COST OF THE PROJECT IN LACS		11,10,203.08

  
Junior Engineer  
RWD (W) Division, Madhepura

  
Assistant Engineer  
RWD (W) Division, Madhepura

  
Executive Engineer  
RWD (W) Division, Madhepura

## Details of Measurement

कार्य का ब्यौरा Deatail of Workl		संख्या No.	Measurement			मात्रा Quantity
			लम्बाई in m.	चोड़ाई In m.	In m.	
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM RATANPATTI MORE SE MANHARA PMGSY NAHAR				
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification					
Ch:-in		16	30	2.43	0.075	87.480
			Total (In Cum)			87.480
Item No. 2 : Laying Brick	Providing and laying of Brick bat obtained from chimney with machenical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.					
Ch:-in 0 to 83		1	19.81	2.74	0.450	24.426
		1	3.00	2.30	0.300	2.070
		1	29.00	1.50	0.225	9.788
Ch:-in 83 to 280		1	13.00	1.50	0.225	4.388
		1	5.00	2.75	0.300	4.125
		1	5.00	1.25	0.300	1.875
		1	16.00	3.30	0.250	13.200
		1	6.00	2.50	0.300	4.500
		1	2.00	2.50	0.300	1.500
Ch:-in 280 to 395		1	30.00	3.40	0.200	20.400
		1	10.00	3.40	0.250	8.500
Ch:-in 395 to 525		3	30.00	3.40	0.250	76.500
		3	30.00	3.40	0.300	91.800
Ch:-in 525 to 625		1	30.00	3.40	0.250	25.500
		3	30.00	3.40	0.250	76.500
Ch:-in 625 to 720		1	10.00	3.40	0.225	7.650
		1	3.00	2.43	0.150	1.094
		1	29.00	3.30	0.300	28.710
		2	30.00	3.30	0.300	59.400
						461.924
			Total (in Cum)			461.924

A. Kumar  
01/11/21  
OE

Prin  
01/11/21  
A-E

01/11/21

## Schedule of Quantity

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD BLOCK :-  
FROM RATANPATTI MORE SE MANHARA PMGSY NAHAR

MURLIGANJ

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	87.48	Cum	582.71	50975.86
2	A/R	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	461.92	Cum	1922.87	888220.24
3	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I	0.00	m	45.86	0.00
4	5.7.8	Labour for fitting and fixing Split bamboo woven chachari in position with 20 swg G.I wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I	0.00	sqm	78.20	0.00
5	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pole with 150 mm long nails or 38 swg G.I. wire including cost of G.I wire or nails complete job as per specification and direction of E/I	0.00	m	5.31	0.00
6		Supply of Bamboo at site.	0.00	nos.	188.39	0.00
7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I	0.00	nos.	37.05	0.00
8		Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m <sup>3</sup> . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	0.00	Each	172.18	0.00
9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	0.00	Cum	2091.76	0.00
10	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	0.00	m	4046.57	0.00
		Total			Rs.	939196.10

A. K. Singh  
JE

B. Singh  
AE

1021  
EE

## Calculation of Selgniorage Fees

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM RATANPATTI MORE SE  
MANHARA PMGSY NAHAR  
BLOCK :- MURLIGANJ

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		E/W	87.48	Cum	141.85	12409.04
2/2	A/R	Providing & laying Brick Bat....				
		Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.				
		Brick Bats	461.92	Cum	1032.00	476705.81
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I				
		Sand	0.00	Cum	141.85	0.00
4/8	5.7.40.2	Providing,laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3. weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)				
		Sand	0.00	Cum	141.85	0.00
5/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		For Grading I Material (with Coarse Sand Screening)				
		Unit = Cum				
		Taking output = 300 cum				
		Coarse graded granular sub-base material as per Table 400.2				
		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	92955.60
		9.5 mm to 2.36 mm @ 20 percent	72.00	Cum	411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening)	108.00	Cum	185.94	20081.52
		Cost for 300 cum = a				142652.88
		Rate psr Cum = (a)/300		Cum		475.51
			0.00	Cum	475.51	0.00
		GSB Gr-I				0.00
					TOTAL	489114.84
		Selgniorage Fees @10% of Basic Amount			Say	48911.48

A. Kishan  
JE

B. Singh  
AE

EE