

**अधीक्षण अभियंता का कार्यालय,  
ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।**

पत्रांक. 622 44/ मधेपुरा, दिनांक 21.05.22

प्रेषक,

अधीक्षण अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अंचल, मधेपुरा।

सेवा में,

मुख्य अभियंता-2,  
ग्रामीण कार्य विभाग,  
पटना।

**विषय :** ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा के अधीन वर्ष 2021-22 में भारी वर्षा के कारण आयी बाढ़ से क्षतिग्रस्त सड़कों तथा पुलियों का प्रशासनिक स्वीकृति हेतु डी0पी0आर0 समर्पित करने के संबंध में।

**प्रसंग :** कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा का पत्रांक 1675 33- दिनांक 11.05.22 एवं अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक- मु0अ0-4(मु0)विविध(कार्य)23-291/2019-4849 पटना, दिनांक 07.12.2021

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र के आलोक में कहना है कि ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा के अधीन वर्ष 2021-22 में भारी वर्षा के कारण आयी बाढ़ से क्षतिग्रस्त सड़कों तथा पुलियों का कराये गये कार्य का प्रशासनिक अनुमोदन हेतु माननीय विधायक निरंजन कुमार मेहता, विधान सभा क्षेत्र, बिहारीगंज के पत्रांक 75, 78 दिनांक 26.09.2021 एवं जिला पदाधिकारी, मधेपुरा का ज्ञापांक 2908 दिनांक 09.10.2021 के आलोक में प्रशासनिक अनुमोदन हेतु 13 योजनाओं का डी0पी0आर0 तकनीकी स्वीकृति के उपरान्त इस पत्र के साथ संलग्न कर समर्पित की जाती है, जो निम्न प्रकार है।

क्र0	प्रखंड	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
1.	Murliganj	FDR	Parmanandpur Panchayat Ke Ward No-10 Me PMGSy Road Se Brahmsthan Rahta tola tak.	0.880	22.21221
2.	Murliganj	FDR	Khari Dakshinabri tola MMGSY Road Se Kabir Asram Parmanandpur tak.	0.380	8.99097
3.	Murliganj	FDR	Ratanpatti More Se Manhara PMGSY Nahar.	0.541	11.10203
4.	Murliganj	FDR	Raghunathpur Ward No-06 Me Kameshear Yadav Ke Ghar Se Kailash Yadav Ke Ghar tak.	0.596	17.27885
5.	Murliganj	FDR	Ratanpatti Ward No-02 Mahadalit tola Se S.H.-91 tak.	0.250	14.32069
6.	Murliganj	FDR	Pokhram Me Dularchand Vishwas Ke Ghar Se Bajrangwali Asthan tak.	0.798	20.64189

P.T.O.

H.K.

क्र०	प्रखंड	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
7.	Murliganj	FDR	Ganganpur Panchyat me PMGSY Sadak Se Kali tola tak.	0.397	12.28615
8.	Murliganj	FDR	Parmanandpur Panchayat Ke Ward No-10 Me PMGSY Road Se Ganesh Gupta Ghar tak.	0.053	1.48789
9.	Murliganj	FDR	Dinapatti Panchayat Ke Ward NO-05 Me Sanjay Yadav Ke Ghar Se Boku Yadav Ke Ghar tak.	0.104	2.92421
10.	Murliganj	FDR	Gangapur Panchayat Ke Ward No-11 Ke Upendra Yadav Ke Ghar Se Mahadalit tola tak.	0.244	5.18674
11.	Murliganj	FDR	Raghunathpur Ward No-08 Me Bhumi Das Ke Ghar Se Murho tola tak.	0.910	29.26569
12.	Murliganj	FDR	Raghunathpur Ward No-07 Me PMGSY Road Se Durga Asthan tak.	0.216	15.45514
13.	Murliganj	FDR	Belo Chandadh Se Chatra Kantahi.	0.910	27.52292

अनु०:-प्राक्कलन एक-एक प्रति में।

विश्वासभाजन,

11/21/05/22

अधीक्षण अभियंता,  
ग्रामीण कार्य विभाग, कार्य अंचल,  
मधेपुरा।



# 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 ESTIMATE FOR TEMPORARY RESTORATION  
OF ROAD FROM BELO CHAMGARH SE CHATRA KANTAH**

Actual Length of Road	=	9.380 Km
Flood affected Length of Road	=	0.910 Km ✓
TOTAL COST OF PAVEMENT	Rs	27,52,292.23
TOTAL PROJECT COST	Rs	27,52,292.23

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 :- Belu Champadh se Chakra Kankahi

### A. For Road

- 1 Damage Location/Chainage :- 0 to 1.5 km, 1.5 to 3 km, 3 to 4.5, 4.5 to 6 km, 6 to 7.5, 7.5 to 9  
2 Damage Length :- 0.910 km  
3 Nature of damage :-  
4 Details of Restoration Works :-  
i Material being used in Restoration works:- Bricks bats, bamboo,  
ii Equipments/Tools being used in Restoration works :- Metal, Local sand, cement bags  
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 :-

A. K. 2020  
01/11/21  
JE

Prinsh  
01/11/21  
AE

EE  
11/11

Signature

(Name of inspector)

—:तकनीकी प्रतिवेदन:—

अंचल का नाम:— मधेपुरा

प्रमण्डल का नाम:— मधेपुरा।

योजना शीर्ष:— 3054 एफ.डी.आर.

पथ का नाम:— **Belo chamgadh se chatra cantahi**

पथ की लम्बाई:— **9.380** कि.मी.

निर्मित/निर्माणाधीन पथ का शीर्ष:— प्रधानमंत्री ग्राम सड़क योजना

प्राक्कलित राशि:— **रु0 27.522** लाख

प्रस्तुत प्राक्कलन वर्ष 2021 में आई अप्रत्याशित अतिवृष्टि एवं बाढ़ के कारण **Belo chamgadh se chatra cantahi** पथ में हुए क्षति यथा कटाव/धसान/जलजमाव की आकस्मिक मरम्मत एवं यातायात पुनर्बहाल 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।

*A. Kumar*  
01/11/21

कनीय अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रशाखा, मुरलीगंज

*Prakash*  
01/11/21

सहायक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अवर प्रमण्डल मुरलीगंज

*Shree*  
11/21

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमण्डल, मधेपुरा।

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY  
RESTORATION OF ROAD FROM BELO  
CHAMGARH SE CHATRA KANTAH

DIVISION :- MADHEPURA

BLOCK :- MURLIGANJ

Actual Length of Road :- 9.380 Km

Flood Affected Length of Road :- 0.910 Km

Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	23,58,270.18
2	Add:-Labour Cess @1% amt. =	23,582.70
3	Add:GST@12% on amt. =	2,82,992.42
4	Add:S.F.@ 10% on Material =	87,446.93
TOTAL RESTORATION COST OF THE PROJECT IN LACS		27,52,292.23

Say. 27,52,292/-

*A. K. Singh*  
01/11/24

Junior Engineer  
RWD (W) Division, Madhepura

*B. Singh*  
01/11/24

Assistant Engineer  
RWD (W) Division, Madhepura

*J. Singh*  
11/11

Executive Engineer  
RWD (W) Division, Madhepura

T.S No-37

Dated-20/05/22

पत्रांक - मु. अ. - 4 (मु). विविध (कार्य) 23-291/2019 - 4849

दि. - 07/12/2021

Technically sanctioned for Rs 27,52,292 = 00 (i.e. Twenty seven lacs fifty Two thousand Two hundred Ninety Two Rupees) only.

Wahar  
20/05/2022

Estimating Officer  
Rural Work Department  
Work Circle, Madhepura

H. K. / 21/05/22

Superintending Engineer  
Rural Works Department  
Work Circle Madhepura



Details of Measurement					
कार्य का ब्यौरा Deatall of Workl	संख्या No.	Measurement			मात्रा Quantity
		लम्बाई in m.	चौड़ाई In m.	In m.	
NAME OF ROAD :-		DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM BELO CHAMGARH SE CHATRA KANTAH			
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
CH:-in 1st km.to 6th km.	4.00	3.00	1.00	1.00	12.00
	1.00	7.00	1.50	1.50	15.75
	10.00	2.10	1.00	1.25	26.25
	5.00	5.00	1.50	2.00	75.00
	2.00	8.00	1.00	2.00	32.00
	1.00	30.00	1.00	1.50	45.00
			Total (In Cum)		206.000
Item No.	Laying Brick Bat....				
CH:-in 3rd km.to 4.5th km	1	2.00	1.50	1.250	3.750
	1	7.15	1.40	1.20	12.012
	1	24.00	3.75	0.60	54.000
	1	7.00	3.03	0.90	19.089
	1	3.00	2.75	0.45	3.713
	1	4.25	1.50	1.40	8.925
	1	6.10	1.40	0.30	2.562
	1	4.75	1.50	1.40	9.975
	1	6.10	1.40	0.30	2.562
	1	4.75	1.50	1.40	9.975
	1	6.10	1.00	0.60	3.660
	3	1.50	1.00	0.30	1.350
	1	3.00	0.90	0.60	1.620
CH:-in 6th to 7.5 th km	1	3.00	1.50	0.60	2.700
	1	6.00	1.50	0.45	4.05
	1	12.00	3.03	2.10	76.36
	1	10.00	3.03	0.45	13.64
	1	30.00	3.13	2.70	253.53
	1	6.00	3.13	2.70	50.71
CH:-in 7.5thkm to 9th km	2	30.00	3.35	0.45	90.45
	1	15.00	3.35	0.45	22.61
					647.232
			Total (In Cum)		647.232
Item No. 3	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				
CH:-in	1	120		6	720.000
CH:-in	1	50		2	100.000
For Bamboo pilling 1.25m			Total (In m)		820.000
Item No. 4	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				
Size 6m*2m,		1	30	2.74	82.20
For Chachary 01 no.(6m) Bamboo=1.413 sqm		1	6	2.74	16.44
			Total (In sqm)		98.64
			Total (In m)		418.85
Item No. 5	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				
CH:-in	15	36			540.00
			Total (In m)		540.00
Item No. 6	Supply of Bamboo at site.				
			Total (In m)		1778.85



							<b>Total (In nos.)</b>	296.48
								<b>296.00</b>
Item No. 7	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							
CH:-In		1	30	3.02	2			181.20
CH:-in		1	6	3.02	2			36.24
CH:-In		1	6	1.1	2			13.20
CH:-In		1	5	0.5	2			5.00
				<b>Total (in cum)</b>				235.64
	<b>(0.034m3=1 no. of EC Bags)</b>							6930.59
				<b>Total (in nos.)</b>				6931.00
Item No. 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 0.07m3. 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)							
CH:-in		2	0	1.00	0.45			0.00
CH:-in		2	0	1.00	0.45			0.00
								0.00
	<b>(0.07m3=1 no. of Geo Bags)</b>							0.00
				<b>Total (in nos.)</b>				0.00
Item No. 9	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.(Gr-II Material)							
CH:-in 0 km to 1.5 km		1	20.42	1.52	<b>0.150</b>			4.66
		1	6.09	2.54	<b>0.175</b>			2.71
		1	13.71	2.74	<b>0.175</b>			6.57
		1	1.50	2.74	<b>0.200</b>			0.82
		1	21.95	2.74	<b>0.150</b>			9.02
		1	7.10	2.65	<b>0.175</b>			3.29
		1	11.10	2.1	<b>0.200</b>			4.66
		1	13.10	2.74	<b>0.150</b>			5.38
		1	30.00	2.65	<b>0.150</b>			11.93
		1	28.96	3.2	<b>0.150</b>			13.90
		1	14.00	2.43	<b>0.150</b>			5.10
		1	15.85	3.03	<b>0.150</b>			7.20
		1	30.00	2.74	<b>0.175</b>			14.39
		1	19.00	2.6	<b>0.150</b>			7.41
		2	30.00	3.03	<b>0.150</b>			27.27
		1	17.00	2.74	<b>0.150</b>			6.99
		1	12.00	2.35	<b>0.200</b>			5.64
CH:-in 1.5 km to 3.0 km		1	3.03	2.95	<b>0.200</b>			1.79
		1	12.10	3.03	<b>0.150</b>			5.50
		1	30.00	3.03	<b>0.150</b>			13.64
CH:-in 4.5 km to 6.0 km		1	15.24	2.43	<b>0.175</b>			6.48
		1	19.10	2.5	<b>0.150</b>			7.16
		2	30.00	2.44	<b>0.175</b>			25.62
		2	30.00	2.9	<b>0.150</b>			26.10
		1	25.00	2.74	<b>0.150</b>			10.28
		1	30.00	3.1	<b>0.150</b>			13.95
CH:-in 7.5 km to 9.0 km		3	30.00	3.5	<b>0.175</b>			55.13
				<del>540.25</del>	<b>Total (Cum)</b>			<b>302.58</b>
Item No. 10	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).							
	Ch.0.00km	1	0	2.5				0.00
					<b>Total (In m)</b>			<b>0.00</b>

## Schedule of Quantity

NAME OF ROAD :-

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF  
ROAD FROM BELO CHANGARH SE CHATRA KANTAH

BLOCK :-

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	206.00	Cum	582.71	120039.17
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.	647.23	Cum	1922.87	1244543.00
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	820.00	m	45.86	37609.23
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	98.64	sqm	78.20	7713.48
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	540.00	m	5.31	2865.76
6		Supply of Bamboo at site.	296.00	nos.	188.39	55762.32
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	6931.00	nos.	37.05	256816.01
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.	302.58	Cum	2091.76	632921.21
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.	2358270.18

*A. Kumar*  
JE

*Brinsh*  
01/11/2021  
AE

*11/11*  
EE



## Calculation of Seigniorage Fees

**DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM BELO CHAMGARH SE**  
**NAME OF ROAD :- CHATRA KANTAH**  
**BLOCK :- MURLIGANJ**

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Construction of embankment with approved material obtained from borrow pits with lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5				
		E/W	206.00	Cum	141.85	29221.10
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	647.23	Cum	1032.00	667943.42
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	235.64	Cum	141.85	33425.53
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 0.07m <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)				
		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
			302.58	Cum	475.51	143879.20
		GSB Gr-I				143879.20
					TOTAL	874469.26
		Seigniorage Fees @10% of Basic Amount			Say	87446.93

*A. Laxay*  
07/11/21  
JE

*B. Singh*  
07/11/21  
AE

*10/11/21*  
EE