

(I)



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
BIHARIGANJ
UDAKISHANGANJ

**DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM SOI SCHOOL KE NIKAT SE VAIRAWPATTI**

Actual Length of Road	=	1.500 Km
Flood affected Length of Road	=	0.087 Km
TOTAL COST OF PAVEMENT	Rs	7,01,604.76
TOTAL PROJECT COST	Rs	7,01,604.76

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

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

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY
RESTORATION OF ROAD FROM SOI
SCHOOL KE NIKAT SE VAIRAWPATTI

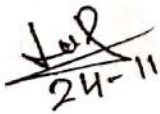
DIVISION :- UDAKISHANGANJ

BLOCK :- BIHARIGANJ

Actual Length of Road :- 1.500 Km

Flood Affected Length of Road :- 0.087 Km

Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	6,01,445.83
2	Add:-Labour Cess @1% amt. =	6,014.46
3	Add:GST@12% on amt. =	72,173.50
4	Add:S.F.@ 10% on Material (Brick Bats) =	21,970.97
TOTAL RESTORATION COST OF THE PROJECT IN LACS		7,01,604.76


24-11-2021

Junior Engineer

RWD (W) Division, Udakishanganj


24/11/2021

Assistant Engineer

RWD (W) Division, Udakishanganj


24/11/2021

Executive Engineer

RWD (W) Division, Udakishanganj

Index of Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM SOI SCHOOL KE NIKAT SE VAIRAWPATTI

DISTRICT :- MADHEPURA

BLOCK :- BIHARIGANJ

Head :- F.D.R.

Year :- 2021-22

Actual Length of Road :- 1.500 Km

Flood Affected Length of Road :- 0.087 Km

TOTAL COST OF PAVEMENT :- ₹ 7,01,604.76

Sr. No.	Description	Page No.
1	Prativedan	
2	MIS Report	
3	Executive Engineer's Report	
4	Summary of Road	
5	Estimate of Road	
6	Carriage of Road	
7	Basic Rate of Labour, Material & Machinery	
8	Analysis of Rate	
9	Photographs of Pre & Post Cuttings /Ditches	

TS no :

dated 20/04/22

प्रांक मा मा-4(मा) विविध (कां) 23-291/2019 -
4849 दिनांक - 2/12/2021

Technically Sanctioned for Rs 7,01,604.00
(Rs seven lacs one thousand six hundred-
four) only.

Recd
23/04/22

Estimating Officer
Rural Work Department
Work Circle, Madhepura

11/20/04/22

Superintending Engineer
Rural Works Department
Works Circle, Madhepura

Inspection Report for Flood Damage work

Date:-

1 Name of PIUS :-

Ex Ram Ratan Ram (EE R.W.D Work Div udakishbuz)

2 Name of Block :-

Bihariganj

3 Name of Road :-

SOI SCHOOL KE NIKAT SE VAIRAWPATTI

A. For Road

1 Damage Location/Chainage :-

1st km

2 Damage Length :-

0.087 km

3 Nature of damage :-

Flank, shoulder, crust

4 Details of Restoration Works :-

i Material being used in Restoration works:-

Sand filling, Bags, Brick Bat

ii Equipments/Tools being used in Restoration works :-

Tractor, JCB

iii Procedure taken up in Restoration works :-

iv Restored Length :-

0.087 km

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 :-

108
24-11-2021
JE

108
24/11/2021
AE

108
25/11/2021
EE

108
25/11/21
Signature
(Name of inspector)

प्रतिवेदन

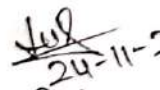
पथ का नाम :- S01 स्कूल के निकट से मैरवपट्टी

प्रखंड :- बिहारगंज

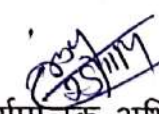
जिला :- मधेपुरा

पथ की कुल लंबाई :- 1.500 कि०मी०

प्रस्तुत प्राकलन मो०-7.01604 लाख का वर्ष 2021 में आयी बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों को मानक अवस्था में लाने हेतु विभागीय पत्रांक-मु०अ०-4(मु०) विविध (कार्य)-23-291/2019 4275 पटना, दिनांक-22.10.2021 एवं पत्रांक- मु०अ०-4(मु०) विविध (कार्य) 23-291/2019 4589 पटना, दिनांक-13.11.2021 के द्वारा दिये गये निर्देश का अनुपालन कर ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशुनगंज के अधीन स्वीकृत प्राकलन के दर पर तैयार की गई है।


24-11-2021
कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, बिहारगंज


24/11/2021
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल, बिहारगंज


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, उदाकिशुनगंज।

ग्रामीण कार्य विभाग
बिहार, सरकार

पत्रांक - मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

पटना, दिनांक 07/07/2021

प्रेषक,

पंकज कुमार पाल (भा0प्र0से0)
सचिव

सेवा में,

सभी कार्यपालक अभियंता
ग्रामीण कार्य विभाग,

विषय-

बाढ़ अतिवृष्टि से क्षतिग्रस्त पथों/पुलियों को यातायात लायक (Motorable) करने
के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में निदेश दिया जाता है कि प्रमंडल अन्तर्गत सभी अभियंता बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों का शत प्रतिशत निरीक्षण करेंगे। पथों/पुलियों के क्षतिग्रस्त भाग से पानी उतरते ही उसे यातायात लायक बनाने की कारवाई एवं Motorable किये जाने से पहले तथा Motorable कार्य के बाद का Real time, Geo tagged photographs को MIS पर तत्क्षण अपलोड किया जाना सुनिश्चित करेंगे। इन कार्यों को कराने हेतु कार्यपालक अभियंता पूर्ण रूप से जिम्मेवार होंगे। कार्य न कराने की स्थिति में उनके विरुद्ध अनुशासनिक कार्रवाई की बाध्यता होगी।

विश्वासभाजन

(पंकज कुमार पाल)

सचिव

पटना, दिनांक 07/7/2021

ज्ञापांक- मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

प्रतिलिपि:-सभी अधीक्षण अभियंता को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। साथ ही उन्हें निदेश दिया जाता है कि वे लगातार अनुश्रवण एवं निरीक्षण करते हुए क्षतिग्रस्त भाग को अतिशीघ्र यातायात लायक बनवाने की कारवाई सुनिश्चित करेंगे।

सचिव

पटना, दिनांक 07/7/2021

ज्ञापांक-मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

प्रतिलिपि:-सभी मुख्य अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं लगातार अनुश्रवण करने हेतु प्रेषित।

सचिव

अधीक्षण अभियंता का कार्यालय,
ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।
पत्रांक.....१५६...../

प्रेषक,

ई० खलीफुज्जमा,
अधीक्षण अभियंता,

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मधेपुरा/उदाकिशनगंज/सुपौल/वीरपुर/त्रिवेणीगंज।

मधेपुरा, दिनांक 13.11.21/

विषय : वर्ष 2021 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों का निरीक्षण एवं जाँच के संबंध में।

प्रसंग : सचिव, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-मु०अ०-4(मु०) विविध (कार्य)-23-40/2016-2789 पटना, दिनांक 21.08.2020 एवं विभागीय Whatsapp ग्रुप में प्राप्त निदेश।

महाशय,

निदेशानुसार उपर्युक्त विषय के संबंध में कहना है कि वर्ष 2021 में बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों का शत-प्रतिशत निरीक्षण एवं जाँच असम्बद्ध कार्यपालक अभियंता के स्तर से किया जाना है। इस संबंध में मधेपुरा अंचल अन्तर्गत विभिन्न प्रमंडलों के क्षतिग्रस्त पथों के निरीक्षण हेतु निम्नानुसार कार्यपालक अभियंताओं को प्राधिकृत किया जाता है।

क्रमांक	प्रमंडल का नाम	निरीक्षण एवं जाँच हेतु प्राधिकृत पदाधिकारी
1.	कार्य प्रमंडल, मधेपुरा।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, वीरपुर।
2.	कार्य प्रमंडल, उदाकिशनगंज।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधेपुरा।
3.	कार्य प्रमंडल, सुपौल।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, वीरपुर।
4.	कार्य प्रमंडल, त्रिवेणीगंज।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशनगंज।
5.	कार्य प्रमंडल, वीरपुर।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशनगंज।

तदनुसार निदेश दिया जाता है कि अपने-अपने आवंटित प्रमंडल के क्षतिग्रस्त पथों का निरीक्षण कर विभागीय विहित प्रपत्र में दिनांक 25.11.2021 तक जाँच प्रतिवेदन तैयार कर विभाग को ससमय समर्पित करते हुए अधोहस्ताक्षरी को भी सूचित करेंगे।
सूचनार्थ प्रेषित।

विश्वासभाजन,

13/11/21

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

अभियंता प्रमुख का कार्यालय
ग्रामीण कार्य विभाग, बिहार, पटना।

पत्रांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक- 13/11/2021

प्रेषक- अशोक कुमार मिश्रा,
अभियंता प्रमुख

सेवा में,
अधीक्षण अभियंता,
सभी कार्य अंचल,
ग्रामीण कार्य विभाग।

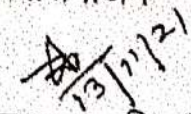
विषय:- वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्य की जाँच के संबंध में।

महाशय,

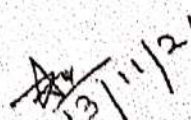
वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्यों की शत प्रतिशत जाँच अपने अंचल के अधीन असंबद्ध कार्यपालक अभियंता एवं उनके अधीनस्थ पदाधिकारियों के दल के माध्यम से सुनिश्चित की जाय। इस जाँच दल के गठन में यह ध्यान रखा जाय कि कार्यपालक अभियंता को जाँच हेतु आवंटित प्रमंडल परस्पर एक दूसरे के प्रमंडल के न हो। जाँच हेतु अंतिम तिथि 25/11/2021 निर्धारित है। इस तरह प्राप्त जाँच प्रतिवेदन भी अन्य सूचनाओं (यथा प्राक्कलन/मापी पुस्तिका की प्रति इत्यादि) की भाँति MIS पर Upload किया जायेगा, जिसके लिए MIS में किए गए प्रावधान के अनुसार अपना जाँच प्रतिवेदन Upload करना सुनिश्चित करें। साथ ही साथ पूर्ण पुनर्स्थापन कार्य हेतु भी DPR निर्माण का कार्य भी 25/11/2021 तक कराया जाए।

उपरोक्त का अनुपालन शत प्रतिशत पथों के लिए सुनिश्चित किया जाय।

विश्वासभाजन


(अशोक कुमार मिश्रा)
अभियंता प्रमुख

ज्ञापक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक 13/11/2021
प्रतिलिपि:- सभी कार्यपालक अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।


अभियंता प्रमुख

Schedule of Quantity

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD
FROM SOI SCHOOL KE NIKAT SE VAIRAWPATTI

BLOCK :-

BIHARIGANJ

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	156.25	Cum	582.71	91049.13
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.	173.23	Cum	1922.87	333089.16
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	304.50	m	45.86	13965.87
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	261.00	m	5.31	1385.12
6		Supply of Bamboo at site.	94.00	nos.	188.39	17708.31
7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of suti and EC bag etc. all complete as per approved desing, specification and direction of E/I	3893.00	nos.	37.05	144248.26
8	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	3128.33	0.00
9	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.	601445.83

[Signature]
JE 24-11-2021

[Signature]
AE 24/11/2021

[Signature]
EE

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 ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM SOI SCHOOL KE NIKAT SE VAIRAWPATTI				
Item No. 1		Sand Filling in ditch & breach portion of road as per Drawing & Technical Specification.				
		1	50	2.5	1.25	156.250
		Total (in Cum)				156.250
Item No. 2 : Laying Brick Bat....						
CH:-in 1st km.		1	30	2.25	0.90	60.750
CH:-in 1st km.		1	15	1.50	1.25	28.125
CH:-in 1st km.		1	20	0.95	1.40	26.600
CH:-in 2nd km.		1	22	1.75	1.50	57.750
			87			173.225
Less For Pipe		0	22/7x(0.6)2x2.5 (-)			0.000
		Total (in Cum)				173.225
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				
		1	87		3.5	304.500
For Bamboo pilling 1.25m		Total (in m)				304.500
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, Ch.----- km		1	0	2		0.00
For Chachary 01 no. Bamboo=1.413 sqm		1	0	2		0.00
		Total (in sqm)				0.00
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				
		3	87			261.00
		Total (in m)				261.00
Item No. 6		Supply of Bamboo at site.				
		Total (in m)				565.50
		Total (in nos.)				94.25
						94.00
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				
		1	30	0.75	1.75	39.38
		1	28	1.05	1.25	36.75
		1	30	0.75	2.5	56.25
		Total (in Cum)				132.38
0.034m3=1 nos.						3893.38
		Total (in nos.)				3893.00
Item No. 8		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	1	1	1.000	0.00
		Total (Cum)				0.00
Item No. 9		Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).				
Ch.0.00km		0	3	2.5		0.00
		Total (in m)				0.00

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM SOI SCHOOL KE NIKAT SE
NAME OF ROAD :- VAIRAWPATTI
BLOCK :- BIHARIGANJ

S.No	SOR NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.				
		Sand	156.25	Cum	141.85	22164.06
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	173.23	Cum	1032.00	178768.20
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of suti and EC bag etc. all complete as per approved desing, specification and direction of E/I				
		Sand	132.38	Cum	141.85	18777.39
4/9	5.7.40.2	Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of suti etc. at site in dry portion all complete as per approved design, specification and direction of E/I				
		Sand	0.00	Cum	141.85	0.00
5/10	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	219709.66
		Seigniorage Fees @10% of Basic Amount			Say	21970.97

Jeep
24-11-2021
JE

4/6
24/11/2021
AE

Copy
24/11/2021
EE

Analysis for Carriage by Road & Rail

District:- MADHEPURA

Block :- BIHARIGANJ

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km				Loading & Unloadin g Cost	Carriage Cost by Rail Head	Total `
				Pucka / Surface		Katcha				
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 8.20 \times 35.00 \text{ Km} = \text{Rs } 500.22$		$\frac{8.00}{4.59} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		89.90	1243.54	Rs. 1833.66
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 8.20 \times 35.00 \text{ Km} = \text{Rs } 460.12$		$\frac{8.00}{4.99} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		89.90	1166.59	Rs. 1716.61
3	Stone Aggregate / Chlps	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 8.20 \times 35.00 \text{ Km} = \text{Rs } 460.12$		$\frac{8.00}{4.99} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		89.90	1166.59	Rs. 1716.61
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 8.20 \times 35.00 \text{ Km} = \text{Rs } 460.12$		$\frac{8.00}{4.99} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		89.90	1248.39	Rs. 1798.41
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 8.20 \times 35.00 \text{ Km} = \text{Rs } 478.33$		$\frac{8.00}{4.80} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		89.90	1201.54	Rs. 1769.77
5	Coarse Sand	Cum	Jagdishpur	$\frac{8.00}{4.99} \times 7.47 \times 225.00 \text{ Km} = \text{Rs } 2694.59$		$\frac{8.00}{4.99} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		104.88		Rs. 2799.47
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.47 \times 35.00 \text{ Km} = \text{Rs } 348.60$		$\frac{8.00}{6.00} \times 19.80 \times 0.00 \text{ Km} = \text{Rs } 0.00$		104.88		Rs. 453.48
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.47 \times 2.00 \text{ Km} = \text{Rs } 23.95$		$\frac{8.00}{4.99} \times 17.82 \times 1.00 \text{ Km} = \text{Rs } 28.57$		104.88		Rs. 157.40
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.47 \times 7.00 \text{ Km} = \text{Rs } 209.16$		$\frac{8.00}{2.00} \times 18.09 \times 1.00 \text{ Km} = \text{Rs } 72.36$		417.46		Rs. 698.98
9	Cement	MT	Local	$\frac{8.00}{8.00} \times 7.47 \times 35.00 \text{ Km} = \text{Rs } 261.45$		$\frac{8.00}{8.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		299.38		Rs. 560.83
10	Steel	MT	Local	$\frac{8.00}{8.00} \times 7.47 \times 35.00 \text{ Km} = \text{Rs } 261.45$		$\frac{8.00}{8.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		318.00		Rs. 579.45
11	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00} \times 7.47 \times 220.00 \text{ Km} = \text{Rs } 1643.40$		$\frac{8.00}{8.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		344.50		Rs. 1987.90
12	Bitumen	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.47 \times 178.00 \text{ Km} = \text{Rs } 1329.66$		$\frac{8.00}{8.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		344.50		Rs. 1674.16
13	Hume Pipe (1000 mm)	m	Karjain	$\frac{8.00}{10.00} \times 7.47 \times 106.00 \text{ Km} = \text{Rs } 633.46$		$\frac{8.00}{10.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		73.32		Rs. 706.78
14	Hume Pipe (600 mm)	m	Karjain	$\frac{8.00}{25.00} \times 7.47 \times 106.00 \text{ Km} = \text{Rs } 253.38$		$\frac{8.00}{25.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		31.42		Rs. 284.80
15	Hume Pipe (300 mm)	m	Karjain	$\frac{8.00}{60.00} \times 7.47 \times 106.00 \text{ Km} = \text{Rs } 105.58$		$\frac{8.00}{60.00} \times 18.09 \times 0.00 \text{ Km} = \text{Rs } 0.00$		31.42		Rs. 137.00
16	Brick Bats	Nos.	Local	$\frac{3.60}{2.25} \times 19.63 \times 5.00 \text{ Km} = \text{Rs } 157.04$		$\frac{3.60}{2.25} \times 29.03 \times 2.00 \text{ Km} = \text{Rs } 92.90$		194.82		Rs. 444.76

24-11-2021
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Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	8.20	7.47
Unsurface Gravel Road	9.90	8.99
Kachha Road	19.80	18.09

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by	Per Ton. Km by Truck
For Surface Road		19.63
Unsurface Gravel Road		24.53
Kachha Road		29.03

Summary of Carriage Cost

Sl. No.	Particulars	Unit	Amount
1	Gr-III, GSB	Cum	1716.61
2	Stone Metal Below 40 mm	Cum	1716.61
3	Stone Chips	Cum	1716.61
4	Screening Materials	Cum	1716.61
5	Gr-II	Cum	1833.66
6	Stone Metal above 40 mm	Cum	1833.66
7	Binding Material (Moorum)	Cum	453.48
8	a) Coarse Sand	Cum	2799.47
9	b) Coarse Sand at Site	Cum	2950.27
10	c) Local sand	Cum	157.40
11	d) Local Sand at Site	Cum	299.25
12	Boulder	Cum	1769.77
13	a) Cement	Ton	560.83
14	b) Cement at Site	Ton	5716.83
15	Bitumen (S-90) (FROM MUZAFFARPUR)	Ton	1674.16
16	Bitumen Emulsion SS & RS (FROM BARAUNI)	Ton	1987.90
17	a) Hume Pipe NP 3 (600 MM DIA)	m	284.80
18	b) Hume pie (600 dia) at site	m	1053.33
19	a)Hume Pipe NP 3 (1000MM DIA)	m	706.78
20	b)Hume Pipe NP 3 (1000MM DIA) at site	m	3481.28
21	Steel	Ton	579.45
22	Brick	per 1000	698.98
23	Brick Bats/Jhama metal	Cum	444.76

24-11-2021
Junior Engineer

24/11/2021
Asstt. Engineer

25/11/2021
Executive Engineer

Analysis of Rate

Sl No.	SOR No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Carriage of materials (By Tractor)						
1	1.4	Cost of Haulage excluding Loading & Unloading				
	RCD	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.				
		Unit = 1.km				
		Taking output 3.60 Tonne load and lead 10 km = 36.0 t.km				
		Case-I : Surfaced Road				
		Speed with load: 15 km per hour				
		Speed while returning empty: 25 km per hour				
	a)	Machinery				
		Tractor 3.6 t capacity				
		Time taken for onwards haulage with load	hour	0.667	591.40	394.46
		Time taken for empty return trip	hour	0.400	291.40	196.73
		Total				73.71
		Add OH@12%				706.73
		Rate per Ton.km				19.63
		Case-II: Unsurfaced Gravel Road				
		Speed with load: 12 km/hour				
		Speed for empty return trip: 20 km/hour				
	a)	Machinery				
		Tractor 3.6 t capacity				
		Time taken for onwards haulage with load	hour	0.833	591.40	492.64
		Time taken for empty return trip	hour	0.500	291.40	295.70
		Total				788.34
		Add OH@12%				94.60
		Rate per Ton.km				882.94
	(c)	Case-III: Kaicha Track and Track in River Bed / Nallah Bed and Choe Bed				24.33
		Speed with load : 10 km / hour				
		Speed with returning empty : 15 km / hour				
	(a) Machinery					
		Tipper 10 tonnes or 5.5 cum capacity	hour	1.000	591.40	591.40
		Time taken for empty return trip	hour	0.667	291.40	394.46
		Total				985.86
		Add OH@12%				118.30
		Cost for 36.0 t.km = a+b				1,104.17
		Rate per Ton.km				30.67
2	6.6.L	Labour for laying Brick bats /dry graded jhama khoa or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete job as per approved design, specification and direction of E/I				
	WRD	Unit = Per Cum				
		Taking output= 2.832 Cum				
	a)	Labour				
		Mazdoor (Unskilled)	Nos	3.00	287.00	861.00
	b)	Overheads @ 12% on (a)				103.32
		Rate for 2.832 Cum				964.32
		Rate Per Cum				340.51
3	1.1	Loading and Unloading of Stone Boulder, Stone aggregate ,Sand, Kankar,Moorum , Brick Bats and Sand etc.				
		Unit = Per Cum				
		Taking output= 2.25 Cum				
		Time required for				
	i)	Positioning of tipper at unloading point	day	1 Min		
	ii)	Loading by front end loader 1 cum bucket capacity @ 25 cum per hour	day	5Min		
	iii)	Maneuvering, reversing, dumping and turning for return		0Min		
	iv)	Waiting time, unforeseen contingencies etc	hour	0Min		
		Total		6Min		
	a)	Labour				
		Mate	day	0.03	305.00	9.15
		Mazdoor for Loading and unloading	day	0.72	287.00	206.64
	b)	Machinery				
		Tractor 3.6 t capacity	Hour	0.10	591.40	59.14
		Front end loader 1 cum bucket capacity @ 25 cum per hour	Hour	0.04	1,403.00	116.45
						391.38
		Add OH@12%				46.97
		Rate per Cum=(a+b+c)/2.25				438.34
	Note:-	Unloading will be done Manually.				194.82

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
4	9.3	1100 Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row. 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 works in head walls and parapets.				
		1000 mm dia Hume Pipe				
		Unit=m				
		Taking Output=7.5 m (3 pipes of 2.5 m length each)				
		a Material				
		Sand at site	cum	0.04	2,950.27	118.01
		Cement at site	ton	0.03	5,716.83	171.50
		RCC pipe NP3 pipe including collar at site	m	7.50	3,481.28	26,109.60
		b Labour				
		Male	day	0.09	305.00	27.45
		Mason (1 class)	day	0.25	388.00	97.00
		Mazdoor(Unskilled)	day	2.00	287.00	574.00
						27,097.57
		Add OH@12%				3,251.71
						30,349.27
		Cost for 7.50 m =				30,349.27
		Rate per M=				4,046.57
5		(Providing and laying of brick bats obtained from chimney with machnical means with all spreading, grading to required slope and compacted at OMC to achieve required density with all completed as per direction of E/I)				
		Taking out put=100 cum				
		a) Labour				
		Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)	day	1.00	322.27	322.27
		b) Materials				
		Bricks Bats -Basic Rate Taken From RCD S.O.R. Schedule-M:11-5(ii) dL-25.02.2021	Cum	1	1032.00	1032.00
		Overheads @12% on (b)				123.84
		Add:Carriage Charge for Brick bats				444.76
		Total Cost				1,922.87
		NET TOTAL COST PER CUM				1,922.87
		SAY Rs				1,922.87
6	5.7.7	Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc.complete job as per specification and direction of E / I.				
	WRD	Unit :- Per M				
		Taking Out put:- 30.50 Mtr				
		(Assuming 20 nos. pile sunk 1.525 mtr deep)				
		Total depth sunk 30.50 meter				
		(a) Labour				
		Carpenter Gr II	Nos	1.00	388.00	388.00
		Unskilled mazdoor for piling	Nos	3.00	287.00	861.00
						1,249.00
		Overheads @ 12%				149.88
						1,398.88
						1,398.88
		Rate Per M				45.86
7	5.7.8	Providing 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 3.15 mm dia or nails complete job as per specification and direction of E / I.				
		Unit :- Per M2				
		Taking Out put:- 9.30 Sqm				
		(Assuming strip of 3.05x3.05 = 9.30 sqm)				
		a Material				
		1 75 mm to 100mm long nail	kg	0.25	55.84	13.96
		2 Bamboo - 75mm dia to 62 mm dia				
		Bamboo @75mm = 3050/75 = 40.67				
		Say=41Nosx3.05=125.05M				
		Add for Lower Binder of chachari				
		10x3.75=30.50M				
		Runner @150mmc/c=7x3.05=21.35M				
		Total length of Bamboo=176.9M				
		Total No of Bamboo=176.9/6=30No	No	30	141.50	4245
		b Labour				
		Carpenter Gr II	Nos	1.00	345.00	345.00
		Unskilled mazdoor for piling	Nos	1.00	287.00	287.00

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Overheads @ 12% on labour charge (345.00 + 287.00)				75.84
		Rate Per M2				1,966.80
						534.06
8	5.7.8	Labour for fitting and fixing split bamboo woven chequered in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire 3.15 mm dia or nails complete job as per specification and direction of E / I.				
	WRD	Unit :- Per M2				
		Taking Out put:- 9.30 sqm				
		(Assuming strip of 3.05x3.05 = 9.30 sqm)				
		(a) Material				
		G.I. wire 3.15 mm dia	Kg	0.250	69.36	17.33
		(b) Labour				
		Carpenter Gr II	Nos	1.00	345.00	345.00
		Unskilled mazdoor for piling	Nos	1.00	287.00	287.00
		Overheads @ 12%				649.33
						77.92
						727.24
		Rate Per M2				727.24
						73.20
9	5.7.9	Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile 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.				
	WRD	Unit :- Per M				
		Taking Out put:- 30.50 Mtr				
		(a) Materials				
		Cost of 150 mm long nails	Kg	0.50	55.84	27.92
		(b) Labour				
		Carpenter Gr II	Nos	0.13	345.00	44.85
		Unskilled mazdoor for piling	Nos	0.25	287.00	71.75
		Overheads @ 12%				144.52
						17.34
						161.86
		Rate Per M				161.86
						5.31
10		Supplying bamboo 75 mm dia 6 m to 8 m long at..... complete job as per specification and direction of E / I.				
		Taking Out put:- 115 nos				
		(a) Material				
		Supplying bamboo 75 mm dia 6 m to 8 m long (Cost of bamboo)	Nos	115	162.70	18,710.50
		Add:Carriage Charge for Bamboo				292.22
		Add Labour for laying Bamboo				340.51
		Overheads @ 12%				19,343.23
						2,321.19
						21,664.42
						21,664.42
		Rate Per each Bamboo				188.39
11	5.7.40.1	Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete as per approved design, specifications and direction of E/I				
	WRD	Unit :- Per % nos				
		Taking Out put:- 100 nos				
	(a)	Supplying of Sand bags (Cost of sand and Empty cement bag)	Nos	100	8.46	846.00
		Carriage cost for Local sand (100 no. of Bags=100x0.034m3)	cum	3.4	299.25	1017.45
					Total	1863.45
	(b)	For filling & stitching & stacking				
		(a) Unskilled mazdoor for filling sand into bags and sewing	Nos	2	287	574.00
		(b) Sutali	Kg	0.5	19.75	9.88
					Total	583.88
	(c)	Labour rate for Carrying & Placing to work site of E.C.Bags				
		(a) Unskilled mazdoor for carrying filled bags and placing to work site	Nos	3	287	861.00
		Total (A+B+C)=				3308.33

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Add overhead charge @12%				
		Total Net Rs.				397.00
		Rate per %				3705.32
		Sand Each Bag				3705.32
						37.05
					Say	Rs 37.05
12	5.7.40.2 WRD SOR Page 159	Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I				
		Unit :- Each N.C				
		Taking Out Put = 25 nos. filled E.C. Bags In each N/C				
		Cost of 25 nos of filled E.C.Bags (Vide item no. 5.7.40.1				
		Rate each	Nos	25	37.05	926.33
13		Supply of Nylon Crate of size 1mx1mx1m				926.33
		Material				
	(a)	Nylon Crate			39.85	39.85
	(b)	Add Overhead charge @12%				
		Total (a+b)				39.85
		Rate per nos.				4.78
						44.63
						44.63
14	11.2	Sand filling In Foundation Trenches as per Drawing & Technical Specification				
		Unit = Per Cum				
	a	Material				
		Sand(assuming 20 persent voids)				
	b	Labour	cum	1.20	141.85	170.22
		Mate				
		Mazdoor(Unskilled)	day	0.01	305.00	3.05
			day	0.3	287.00	86.10
		Add overhead charge @12%				259.37
						31.1244
		total=				290.494
		Carraige cost for Local sand				290.49
		Rate per cum				292.22
						582.71

**अधीक्षण अभियंता का कार्यालय,
ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।**
पत्रांक.....483/अनु०

प्रेषक,

ई० खलीकुज्जमा,
अधीक्षण अभियंता,

सेवा में,

नोडल पदाधिकारी,
F.D.R., कोषांग,
ग्रामीण कार्य विभाग,
बिहार, पटना।

मधेपुरा, दिनांक 20/04/2022

विषय : ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशुनगंज के अन्तर्गत शीर्ष **FDR** (वित्तीय वर्ष 2021-22) योजना का बाढ़ से क्षतिग्रस्त पथांशों का अस्थाई पुनर्स्थापन कार्य का प्राक्कलन के प्रशासनिक अनुमोदन प्रदान करने के संबंध में।

प्रसंग : कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशुनगंज का पत्रांक 722 अनु०, दिनांक 12.04.2022 एवं अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक-मु०अ०-4(मु०)विविध(कार्य)23-291/2019-4849 पटना, दिनांक 07.12.2021

महाशय,

उपर्युक्त विषयक प्रसांगिक पत्र द्वारा प्राप्त कार्य प्रमंडल, उदाकिशुनगंज अन्तर्गत शीर्ष **FDR** (वित्तीय वर्ष 2021-22) योजना का बाढ़ से क्षतिग्रस्त पथांशों का अस्थाई पुनर्स्थापन कार्य का डी०पी०आर० एक-एक प्रति में तकनीकी स्वीकृति प्रदान कर प्रशासनिक अनुमोदन हेतु समर्पित की जाती है। जिसकी विवरणी निम्नवत है।

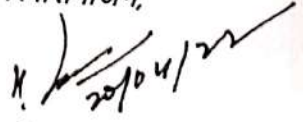
क्र०	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
1.	Alamnagar	L025-T-05 SONAMUKHI to MURAUT (VR12)	0.050	20.23962
2.	Alamnagar	L034-T-05 CHUBATUA GANGAPUR TO HARJORAGHT (VR20)	0.097	28.17067
3.	Alamnagar	L035-T-05 BHARSO TOLA TO KACHAHARI TOLA (VR21)	0.210	17.67956
4.	Alamnagar	Construction of road from Alamnagar SonaMukhi kakpsila with five years maintainance with 2 no. H.L bridge.	0.300	34.63060
5.	Alamnagar	Construction of road from Alamnagar fullaut road with five year maintenance with 2 nos. of H.L bridges.	0.072	6.02269
6.	Bihariganj	S01school Ke Nikat Se to Vairaw Patti	0.087	7.01604

P.T.O.

क्र०	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
7.	Chausa	Construction of road from Dhaneshpur to morsanda with five years maintenance.	0.082	5.27416
8.	Chausa	Adhik Mandal Parbatta Bsabitti Ke Nikat To Sripurbasa PCC via Parbatta	0.146	5.74302
9.	Chausa	Khoparia Tola Lowalagan To baba bishuraut Sthan	0.045	6.24997
10.	Chausa	L036-T01 TO SHABA TOLA (VR11)	0.733	20.33275
11.	Gwalpara	Resna PMGSY Path To Kamalpur	0.136	7.15886
12.	Gwalpara	Baliya Basa REO Road To Amauja	0.060	11.57017
13.	Gwalpara	L036-Gwalpara to biswari (VR7)	0.181	9.01073
14.	Chausa	Construction of H.L Bridge Over Bariyari Dhar Sapni Fulaut Pandahi Path.	0.075	7.41311
15.	Puraini	Durga PMGSY Path Paina via Durgapur Goth Chhoti Badhona	0.142	20.25279
16.	Puraini	Kherho paschim Tola PMGSY Path To Dhaneshpur Via Goth Kherho	0.020	2.94972
17.	Udakishanganj	Construction of road from Kishanganj to Biriranpal with five years maintenance	0.110	8.49447
18.	Udakishanganj	L044-T04NH106UDA TO TINTANGA (VR31)	0.024	5.66868
19.	Udakishanganj	NH106 hareli to ramesh yadav ke ghar hotehu wevidyanand jha ke ghar ke aage Rampur khorha PWD road tak	0.099	5.06052
20.	Udakishanganj	Laxmipur - Majaura	0.483	11.09571

अनु०:-प्राक्कलन एक-एक प्रति में।

विश्वासभाजन,



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