

Inspection Report for Flood Damage work

Date:-

- 1 Name of PIUS :- E. Ram Ratan Ram (E.E. RUD UDARSHUNAWA)
2 Name of Block :- UDARSHUNAWA
3 Name of Road :- HATHOG Haveli to Kooesha yadav ke ghar
ke le hie virebhangy ghar ke ghar ke aage
Ram prakash.

A. For Road

- 1 Damage Location/Chainage :- 1st KM
2 Damage Length :- 0.099 KM
3 Nature of damage :- Poth, shoulder
4 Details of Restoration Works :-
i Material being used in Restoration works:- Sand, Bags, CC Bags
ii Equipments/Tools being used in Restoration works :-
iii Procedure taken up in Restoration works :- 4th Damba pile.
iv Restored Length :- 0.099 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 :-

NA.

24/11/21
JE

AE

25/11/21
EE

check and found satisfactory.

Signature
(Name of inspector)



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
UDAKISHANGANJ
UDAKISHANGANJ

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM KISHUNGANG TO BIRIRANPAL WITH FIVE
YAER MAINTANANCE

Actual length = 4.55 Km		
Flood affected Length of Road	=	0.110 Km
TOTAL COST OF PAVEMENT	Rs	849,447.74
TOTAL PROJECT COST	Rs	849,447.74

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

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

प्रतिवेदन

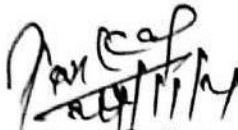
पथ का नाम :- किशु-गोटा से पीर/रुवा/फाल्गु

प्रखंड :- उदाकिशु-गोटा

जिला :- मधेपुरा

पथ की कुल लंबाई :- 4.55 Km

प्रस्तुत प्राकलन मो०-849477.77 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।


कनीय अभियंता,
ग्रामीण कार्य विभाग,

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल,


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, उदाकिशुनगंज।

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY
RESTORATION OF ROAD FROM
KISHUNGANG TO BIRIRANPAL WITH FIVE

DIVISION :- UDAKISHANGANJ

BLOCK :- UDAKISHANGANJ

Flood Affected Length of Road :- 0.110 Km

Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	717,639.12
2	Add:-Labour Cess @1% amt. =	7,176.39
3	Add:GST@12% on amt. =	86,116.69
4	Add:S.F.@ 10% on Material (Brick Bats) =	38,515.53
TOTAL RESTORATION COST OF THE PROJECT IN LACS		849,447.74



Junior Engineer
RWD (W) Division,Udakishanganj

Assistant Engineer

RWD (W) Division,Udakishanganj



Executive Engineer

RWD (W) Division,Udakishanganj

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

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 कार्रवाई सुनिश्चित करेंगे।

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।

पटना, दिनांक 07/7/2021

सचिव

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

प्रेषक,

ई० खलीकुज्जमा,
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, उदाकिशुनगंज।	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, उदाकिशुनगंज।
5.	कार्य प्रमंडल, वीरपुर।	कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, उदाकिशुनगंज।

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।

Details of Measurement

कार्य का ब्यौरा Deatall 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 KISHUNGANG TO BIRIRANPAL WITH FIVE YAER MAINTANANCE				
Item No. 1	Sand Filling in ditch & breach portion of road as per Drawing & Technical Specification.					
		0	1	2.5	1.25	0.000
Item No. 2	Laying Brick Bat....	Total (In Cum)				0.000
SCABOUR		1	32	6.00	0.70	134.400
		1	12	5.00	0.60	36.000
		1	51	4.25(avg)	0.75	162.563
		2	10	3.50	0.45	31.500
		2	5	3.50	0.25	8.750
			110			373.213
Less For Pipe		0	22/7x(0.6)2x2.5		(-)	0.000
		Total (in Cum)				373.213
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	0		7	0.000
		1	0		7	0.000
For Bamboo pilling 1.25m		Total (in m)				0.000
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, 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					
		1	0			0.00
		1	0			0.00
		Total (in m)				0.00
Item No. 6	Supply of Bamboo at site.					
		Total (in m)				0.00
		Total (in nos.)				0.00
						0.00
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	0	0.75	1.5	0.00
		1	0	0.75	1.25	0.00
		1	0	0.75	1.5	0.00
		Total (in Cum)				0.00
						0.00
0.034m3=1 nos.		Total (In nos.)				0.00
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

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Schedule of Quantity

NAME OF ROAD :-

FROM KISHUNGANG TO BIRIRANPAL WITH FIVE YAER
MAINTANANCE

BLOCK :-

UDAKISHANGANJ

S.No	SOR NO	OF ITEMS	DESRPTION	QTY	UNIT	RATE	AMOUNT
1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.		0.00	Cum	582.71	0.00
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.		373.21	Cum	1922.87	717639.12
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	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.	717639.12

[Signature]
JE

AE

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Calculation of Seigniorage Fees

NAME OF ROAD :- BIRIRANPAL WITH FIVE YAER MAINTANANCE
BLOCK :- UDAKISHANGANJ

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM KISHUNGANG TO

S.No	SOR NO	ITEMS	DESRPTION OF	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.					
		Sand		0.00	Cum	141.85	0.00
2/2	A/R	Providing & laying Brick Bat....					
		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.					
		Brick Bats		373.21	Cum	1032.00	385155.30
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
4/9	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 sutli 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
							142652.88
		Cost for 300 cum = a			Cum		475.51
		Rate psr Cum = (a)/300		0.00	Cum	475.51	0.00
							0.00
		GSB Gr-I				TOTAL	385155.30
		Seigniorage Fees @10% of Basic Amount				Say	38515.53

Pankaj
JE

AE

001
05/11/17
EE

Analysis for Carriage by Road & Rail

Name of Road:- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM KISHUNGANG TO BIRIRANPAL WITH FIVE YAER MAINTANANCE

District:- MADHEPURA

Block :- UDAKISHANGANJ

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	8.00 x 8.20 x 35.00 Km = Rs 500.22	8.00 x 19.80 x 0.00 Km = Rs 0.00	89.90	1243.54	Rs. 1833.66
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	4.59 x 8.20 x 35.00 Km = Rs 460.12	8.00 x 19.80 x 0.00 Km = Rs 0.00	89.90	1166.59	Rs. 1716.61
3	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 x 8.20 x 35.00 Km = Rs 460.12	8.00 x 19.80 x 0.00 Km = Rs 0.00	89.90	1166.59	Rs. 1716.61
4	Stone Aggregate / Chips	Cum	Mirzachowki	4.99 x 8.20 x 35.00 Km = Rs 460.12	8.00 x 19.80 x 0.00 Km = Rs 0.00	89.90	1248.39	Rs. 1798.41
4	Stone Boulder	Cum	Sheikhpura	8.00 x 8.20 x 35.00 Km = Rs 478.33	8.00 x 19.80 x 0.00 Km = Rs 0.00	89.90	1201.54	Rs. 1769.77
5	Coarse Sand	Cum	Jagdishpur	4.80 x 7.47 x 225.00 Km = Rs 2694.59	8.00 x 18.09 x 0.00 Km = Rs 0.00	104.88		Rs. 2799.47
6	Binding Material/Moorum	Cum	Sheikhpura	8.00 x 7.47 x 35.00 Km = Rs 348.60	8.00 x 19.80 x 0.00 Km = Rs 0.00	104.88		Rs. 453.48
7	Local Sand	Cum	Local	6.00 x 7.47 x 2.00 Km = Rs 23.95	8.00 x 17.82 x 1.00 Km = Rs 28.57	104.88		Rs. 157.40
8	Brick	1000 Nos	Local	4.99 x 7.47 x 7.00 Km = Rs 209.16	8.00 x 18.09 x 1.00 Km = Rs 72.36	417.46		Rs. 698.98
9	Cement	MT	Local	8.00 x 7.47 x 35.00 Km = Rs 261.45	8.00 x 18.09 x 0.00 Km = Rs 0.00	299.38		Rs. 560.83
10	Steel	MT	Local	8.00 x 7.47 x 35.00 Km = Rs 261.45	8.00 x 18.09 x 0.00 Km = Rs 0.00	318.00		Rs. 579.45
11	Bitumen Emulsion	MT	Barauni	8.00 x 7.47 x 220.00 Km = Rs 1643.40	8.00 x 18.09 x 0.00 Km = Rs 0.00	344.50		Rs. 1987.90
12	Bitumen	MT	Muzaffarpur	8.00 x 7.47 x 178.00 Km = Rs 1329.66	8.00 x 18.09 x 0.00 Km = Rs 0.00	344.50		Rs. 1674.16
13	Hume Pipe (1000 mm)	m	Karjain	8.00 x 7.47 x 106.00 Km = Rs 633.46	8.00 x 18.09 x 0.00 Km = Rs 0.00	73.32		Rs. 706.78
14	Hume Pipe (600 mm)	m	Karjain	10.00 x 7.47 x 106.00 Km = Rs 253.38	8.00 x 18.09 x 0.00 Km = Rs 0.00	31.42		Rs. 284.80
15	Hume Pipe (300 mm)	m	Karjain	25.00 x 7.47 x 106.00 Km = Rs 105.58	8.00 x 18.09 x 0.00 Km = Rs 0.00	31.42		Rs. 137.00
16	Brick Bats	Nos.	Local	60.00 x 19.63 x 5.00 Km = Rs 157.04	3.60 x 29.03 x 2.00 Km = Rs 92.90	194.82		Rs. 444.76
				3.60 x 19.63 x 5.00 Km = Rs 157.04	2.25 x 29.03 x 2.00 Km = Rs 92.90			

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SUMMARY OF RATE

Sl. No.	Ref. Code No.	Description of Labour	Rate (Rs.)	Unit
1		Filling E.C. Bags		
2		Placing E.C. Bags	629.20	%nos
3		Filling E.C. Bags and Placing	924.60	%nos
4		Filling Geo. Bags	1553.80	%nos
5		Placing Geo. Bags	26.40	each
6		Filling Geo. Bags and Placing	34.30	each
7		Filling E.C. Bags and Placing in N.C.	60.70	each
8		Filling E.C. Bags and Placing in B.A. Wire Crates	388.50	each
9		Filling Geo. Bags and Placing in N.C.	1243.00	each
10		Filling Geo. Bags and Placing in B.A. Wire Crates(Beggy)	364.20	each
11		Filling Geo. Bags and Placing in B.A. Wire Crates(Box)	1638.90	each
12		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.5	2003.10	each
13		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.6	1092.60	each
14		Already Filled E.C. Bags Placing in N.C.	728.40	each
15		Already Filled E.C. Bags Placing in B.A. Wire crates	231.15	each
16		Already Filled Geo. Bags Placing in N.C.	739.68	each
17		Already Filled Geo. Bags Placing in B.A. Wire Crates(Beggy)	205.80	each
18		Already Filled Geo. Bags Placing in B.A. Wire Crates(Box)	926.10	each
19		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.5	1131.90	each
20		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.6	617.40	each
21		Supply of bamboo 75mm dia	411.60	each
22		Carriage of bamboo 75mm dia lead 5km us	162.70	each
23		Supply of bamboo 100 mm dia	8.70	each
24		Carriage of bamboo 100 mm dia lead 5km us	173.70	each
25		Supply of binding wire	9.30	each
26		Laying of porcupine Without boat	71.60	each
27		Laying of porcupine with boat	834.80	each
28		Bamboo pilling with jet pump	877.90	each
29		Bamboo pilling with jet pump	38.20	each
29		Tree spur	358.00	each
30	M-189	Water	40.00	KL
31	e(ii)	Brick Bats	1032.00	per cum
32	M-006	Local/Fine Sand	141.85	per cum
33		Nails	55.84	per kg
34	222(i)	Bamboo 75mm dia 6m to 8m long	141.50	each
35	232	Sutali	19.75	per kg
36	M-120	Coarse Sand	150.80	per cum
	M-121	Sand (Fine)	141.85	per cum
37	M-081	Cement	5156.00	per mt
38		HP 1000mm dia NP3	2774.50	per mt
39		HP 600mm dia NP3	768.53	per mt
40	M-159	Sand Bags (Cost of sand and empty cement bag)	8.46	per nos.
41	275	Old empty cement bag(synthetic)(Annexure-I)	292.00	per %nos.
42	276	Nylon Crate of size 1mx1mx1m	39.85	Each
43	M-017	Aggregate 40 mm	494.15	Cum
44	M-016	Aggregate 20 mm	604.91	Cum
45	M-015	Aggregate 10 mm	668.8	Cum
46	M-047	Cement Primer	115.16	litre
47	M-103	Paint (Synthetic Enamel)	516.42	litre
48	M-150	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	516.42	Cum
49	M-151	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	411.33	Cum
50	M-152	Well Graded Material for Sub-Base - Grading III 2.36 mm below	185.94	Cum
51	M-105	Polythene sheet (125 micron)	14.35	Sqm
52		G.I. wire 3.15 mm dia	69.3	per kg

**BASIC RATES
(A) Labour**

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287.00
L-02	Bitumen Sprayer	day	302.00
L-03	Blacksmith	day	388.00
L-04	Blaster	day	477.00
L-05	Carpenter 1st Class	day	388.00
L-06	Carpenter 2nd Class	day	345.00
L-07	Chips spreader	day	345.00
L-08	Chiseller	day	364.00
L-09	Dresser (Skilled)	day	367.00
L-10	Driller	day	345.00
L-11	Electrician	day	367.00
L-12	Fitter	day	395.00
L-13	Mason (1st class)	day	388.00
L-14	Mason (2nd Class)	day	345.00
L-15	Mate	day	305.00
L-16	Mazdoor (Unskilled)	day	287.00
L-17	Mazdoor (Semi skilled)	day	299.00
L-18	Mazdoor (Skilled)	day	364.00
L-19	Painter (1st class)	day	367.00
L-20	Plumber	day	349.00
L-21	Surveyor	day	349.00
L-22	White Washer	day	364.00

BASIC RATES (C) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-017	Front end-loader 1 cum bucket capacity	Loading Aggregates	cum/h	25.00	per hour	1,403.00
		Loading Soil	cum/h	60.00		1,403.00
PM-032	Motor Grader	Scarifier & levelling	cum/h	200.00	per hour	2,786.00
	Tractor Mounted Grader			50.00		570.00
PM-033	Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	76.35
PM-035	Paver finisher	Laying/spreading	Cum/h	40.00	per hour	1,417.00
PM-086	Plate compactor	Compaction	cum/h		per hour	469.70
PM-087	Plate vibrator	Compaction	cum/h		per hour	467.00
PM-088	Screed vibrator	Compaction	cum/h		per hour	102.64
PM-044	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	803.00
PM-045	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	27,425.00
PM-046	Three wheel 80-100 kN Static Roller	Compaction/ Rolling			per hour	781.00
		Earth:- Embankment or sub-grade	cum/h	80/70		781.00
		Sub-base G-I	cum/h	10.00		781.00
		Sub-base G-II/G-III	cum/h	8.00		781.00
		WMM	cum/h	16.00		781.00
PM-047	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,018.00
PM-048	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	546.00
PM-049	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	591.40
PM-050	Tractor with trolley/with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	591.40
PM-051	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-052	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	929.00
PM-053	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	2,029.00
		Compaction of BM	cum/h	60.00		2,029.00
PM-054	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	183.00

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				
		Time taken for empty return trip	hour	0.667	591.40	394.46
		Total	hour	0.400	591.40	236.56
		Add OH@12%				631.02
						75.72
		Rate per Ton.km				706.75
		Case-II: Unsurfaced Gravel Road				19.63
		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				
		Time taken for empty return trip	hour	0.833	591.40	492.64
		Total	hour	0.500	591.40	295.70
		Add OH@12%				788.34
						94.60
		Rate per Ton.km				882.94
		(c) Case-III: Katcha Track and Track in River Bed / Nallah Bed and Choe Bed				24.53
		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	591.40	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	6.6.1.	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.				
	RCD	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	0.08	1,403.00	116.45
						391.38
		Add OH@12%				46.97
						438.34

Sl No	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Rate per Cum=(a+b+c)/2.25				194.82
		Note - Unloading will be done Manually.				
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 Out put=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				
		Mate	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 gradding 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) dt-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 @150mm/c=7x3.05=21.35M Total length of Bamboo=176.9M Total No of Bamboo=176.9/6=30No				
			No	30	141.50	4245

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		b Labour				
		Carpenter Gr II				
		Unskilled mazdoor for piling	Nos	1.00	345.00	345.00
		Overheads @ 12% on labour charge (345.00 * 287.00)	Nos	1.00	287.00	287.00
						75.84
		Rate Per M2				4,966.80
						534.06
8	5.7.8	Labour for fitting and fixing split bamboo n 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.				
	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	69.30	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
						649.33
		Overheads @ 12%				77.92
						727.24
						727.24
		Rate Per M2				78.20
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
						144.52
		Overheads @ 12%				17.34
						161.86
						161.86
		Rate Per M				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
						19,343.23
		Overheads @ 12%				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, stiching 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
		Carraige cost for Local sand (100 no. of Bags=100x0.034m3)	cum	3.4	299.25	1017.45
					Total	1863.45
		(b) For filling & stiching & 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

T.S. no.-

Date- 20/4/2022

प्रक्रिया - रू. आ-4(रू.) विविध (कार्य) 23-291/2019-

4849 दिनांक - 21/12/2021

Technically sanctioned for Rs 849447.00
(Rs Eight lacs forty nine thousand four -
hundred forty seven) only.

W.S. 20/04/2022

Estimating Officer
Rural Work Department
Work Circle, Madhepura

11/20/04/22

Superintending Engineer
Rural Works Department
Works Circle, Madhepura

अधीक्षण अभियंता का कार्यालय,
ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा।
पत्रांक.....483/अनु 0

प्रेषक,

ई0 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 अनु0, दिनांक 12.04.2022 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 द्वारा प्राप्त कार्य प्रमंडल, उदाकिशुनगंज अन्तर्गत शीर्ष **FDR** (वित्तीय वर्ष 2021-22) योजना का बाढ़ से क्षतिग्रस्त पथांशों का अस्थाई पुनर्स्थापन कार्य का डी0पी0आर0 एक-एक प्रति में तकनीकी स्वीकृति प्रदान कर प्रशासनिक अनुमोदन हेतु समर्पित की जाती है। जिसकी विवरणी निम्नवत है।

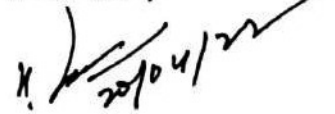
क्र0	प्रखंड	योजना का नाम	क्षतिग्रस्त भाग की लम्बाई (KM)	तकनीकी स्वीकृति की राशि (Lakh)
1.	Alamnagar	L025-T-05 SONAMUKHI to MURAUT (VR12)	0.050	20.23962
2.	Alamnagar	L034-T-05 CHUBATUA GANGAPUR TO HARJORAGHT (VR20)	0.097	28.17067
3.	Alamnagar	L035-T-05 BHARSO TOLA TO KACHAHARI TOLA (VR21)	0.210	17.67956
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,



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ग्रामीण कार्य विभाग, कार्य अंचल,
मधेपुरा।