

Inspection Report for Flood Damage work

Date:-

1 Name of PIUS :-

2 Name of Block :-

3 Name of Road :-

Rom Retan Rom (EE Road Upokiskung)
Upokiskung
Upokiskung to Birongel with five
years experience

A. For Road

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 :-

5th Km
Road cut 0.110 Km
Road cut

Dr. K. B. S.
Treator JCB Roller

0.110 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 :-

} MPA

20/11/14
JE

AE

20/11/14
EE

check and found satisfactory

25/11/14

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

:- किछ गोठ से पीरवाफा

प्रखंड

:- उदाकिशुनगंज

जिला

:- 4 थोडा

पथ की कुल लंबाई :-

4.55 km

प्रस्तुत प्राकलन मो०-8494/7.74 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,

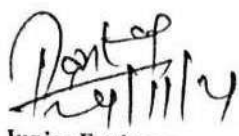
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल,


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

T.S. no -

Date- 20/4/2022

पत्रांक - मु० आ०-५(मु०) विविध (कार्य) २३-२९१/२०११-

५४५९ दिनांक २१/१२/२०२१

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

Wiler
20/04/2022

Estimating Officer
Rural Work Department
Work Circle, Madhepura

11/20/04/22

Superintending Engineer,
Rural Works Department
Works Circle, Madhepura

ग्रामीण कार्य विभाग
बिहार, सरकार

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

पटना, दिनांक 07/07/2021

प्रेषक,

पंकज कुमार पाल (मा0प्र0से0)
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

पटना, दिनांक 07/7/2021

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।

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

पटना, दिनांक 07/7/2021

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 खलीकुज्जमा,
अधीक्षण अभियंता,

सेवा में, कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मधेपुरा/उदाकिशनगंज/सुपौल/वीरपुर/त्रिवेणीगंज।
मधेपुरा, दिनांक१३.११.२१...../

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-मु०अ०-४(मु०) विविध (कार्य)-२३-४०/२०१६-२७८९ पटना, दिनांक २१.०८.२०२० 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,

१३/११/२१

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

Details of Measurement						
कार्य का ब्यौरा Deatail of Workl		संख्या No.	Measurement			मात्रा Quantity
			लम्बाई in m.	चौड़ाई 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
			Total (in Cum)			0.000
Item No. 2 :	Laying Brick Bat....					
	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
	0.034m3=1 nos.					0.00
			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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Handwritten signature/initials

Schedule of Quantity

NAME OF ROAD :-

FROM KISHUNGANG TO BIRIRANPAL WITH FIVE YAER
MAINTANANCE

BLOCK :-

UDAKISHANGANJ

S.No	SOR NO	DESCRIPTION	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

[Signature]
EE

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM KISHUNGANG TO
NAME OF ROAD :- BIRIRANPAL WITH FIVE YAER MAINTANANCE
BLOCK :- UDAKISHANGANJ

S.No	SOR NO	ITEMS	DESCRIPTION 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 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		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
		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	385155.30
		Seigniorage Fees @10% of Basic Amount				Say	38515.53

Pankaj
JE

AE

01/05/17
EE

Analysis for Carriage by Road & Rail

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

Block :- UDAKISHANGANJ

MADHEPURA

District:--

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Katcha	Loading & Unloadin g Cost	Carriage Cost by Rail Head	Total
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00 4.59	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	8.00 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	1166.59	Rs 1716.61
3	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 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	1166.59	Rs 1716.61
4	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 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 4.80	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	8.00 4.99	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 6.00	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	8.00 4.99	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	8.00 2.00	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 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 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 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 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 10.00	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	8.00 25.00	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	8.00 60.00	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	3.60 2.25	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

1037
29/11/14

Prepared by
P. S. Singh

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 Truck	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 (5-90) (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/hama metal	Cum	444.76	

Signature
Junior Engineer
RWD (W) Division, Udakishanganj

Asstt. Engineer
RWD (W) Division, Udakishanganj

Signature
Executive Engineer
RWD (W) Division, Udakishanganj

SUMMARY OF RATE

Sl. No.	Ref. Code No.	Description of Labour	Rate (Rs.)	Unit
1		Filling E.C. Bags	629.20	%nos.
2		Placing E.C Bags	924.60	%nos.
3		Filling E.C Bags and Placing	1553.80	%nos.
4		Filling Geo. Bags	28.40	each
5		Placing Geo Bags	34.30	each
6		Filling Geo Bags and Placing	60.70	each
7		Filling E.C Bags and Placing in N.C	388.50	each
8		Filling E.C Bags and Placing in B.A.Wire Crates	1243.00	each
9		Filling Geo Bags and Placing in N.C	364.20	each
10		Filling Geo Bags and Placing in B.A.Wire Crates(Beggy)	1638.90	each
11		Filling Geo Bags and Placing in B.A.Wire Crates(Box))	2003.10	each
12		Filling Geo Bags and Placing in Gabbin 1.8x1.8x0.5	1092.60	each
13		Filling Geo Bags and Placing in Gabbin 1.8x1.8x0.6	728.40	each
14		Already Filled E.C Bags Placing in N.C	231.15	each
15		Already Filled E.C Bags Placing in B.A.Wire crates	739.68	each
16		Already Filled Geo Bags Placing in N.C	205.80	each
17		Already Filled Geo Bags Placing in B.A.Wire Crates(Beggy)	926.10	each
18		Already Filled Geo Bags Placing in B.A.Wire Crates(Box))	1131.90	each
19		Already Filled Geo Bags Placing in Gabbin 1.8x1.8x0.5	617.40	each
20		Already Filled Geo Bags Placing in Gabbin 1.8x1.8x0.6	411.60	each
21		Supply of bamboo 75mm dia	162.70	each
22		Carriage of bamboo 75mm dia lead 5km us	8.70	each
23		Supply of bamboo 100 mm dia	173.70	each
24		Carriage of bamboo 100 mm dia lead 5km us	9.30	each
25		Supply of binding wire	71.60	each
26		Laying of porcupine Without boat	834.80	each
27		Laying of porcupine with boat	877.90	each
28		Bamboo piling 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

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 = t.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	591.40	236.56
		Total				631.02
		Add OH@12%				75.72
						706.75
		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	591.40	295.70
		Total				788.34
		Add OH@12%				94.60
						882.94
		Rate per Ton.km				24.53
	(c)	Case-III: Katcha Track and Track in River Bed / Nallah Bed and Choe Bed				
		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				
	a)	Labour	day	0.03	305.00	9.15
		Mate	day	0.72	287.00	206.64
		Mazdoor for Loading and unloading				
	b)	Machinery	Hour	0.10	591.40	59.14
		Tractor 3.6 t capacity				
		Front end loader 1 cum bucket capacity @ 25 cum per hour	Hour	0.08	1,403.00	116.45
						391.38
						46.97
		Add OH@12%				438.34

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Note:-				
		Rate per Cum=(a+b+c)/2.25				
		Unloading will be done Manually.				
4	9.3	1100 Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row . Prpvding 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 .				194.82
		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				
		Cement at site	cum	0.04	2,950.27	118.01
		RCC pipe NP3 pipe includsing collar at site	ton	0.03	5,716.83	171.50
	b	Labour	m	7.50	3,481.28	26,109.60
		Mate				
		Mason (1 class)	day	0.09	305.00	27.45
		Mazdoor(Unskilled)	day	0.25	388.00	97.00
			day	2.00	287.00	574.00
		Add OH@12%				27,097.57
						3,251.71
		Cost for 7.50 m =				30,349.27
		Rate per M=				30,349.27
						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	Nos	1.00	388.00	388.00
		Carpenter Gr II	Nos	3.00	287.00	861.00
		Unskilled mazdoor for pilling				1,249.00
						149.88
		Overheads @ 12%				1,398.88
						1,398.88
						45.86
		Rate Per M				
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	kg	0.25	55.84	13.96
	1	75 mm to 100mm long nail				
	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	No	30	141.50	4245
		Total No of Bamboo=176.9/6=30No				

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		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
		Overheads @ 12%				649.33
						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, 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
		Carraige 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	Nos	2	287	574.00
		(a) Unskilled mazdoor for filling sand into bags and sewing	Kg	0.5	19.75	9.88
		(b) Sutali			Total	583.88

**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)विधि(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।

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