



# 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  
GWALPARA  
UDAKISHANGANJ

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF  
ROAD FROM BALIYA BASA R.E.O. ROAD TO AMAULA

Actual Length of Road	=	<del>1.860 Km</del> 1.960 KM
Flood affected Length of Road	=	0.060 Km
TOTAL COST OF PAVEMENT	Rs	11,57,017.55
TOTAL PROJECT COST	Rs	11,57,017.55

Submitted By:  
Executive Engineer

Prepared By:  
Executive Engineer

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

### DETAILED ESTIMAE FOR TEMPRORY

NAME OF ROAD :- RESTORATION OF ROAD FROM BALIYA  
BASA R.E.O. ROAD TO AMAULA

DIVISION :- UDAKISHANGANJ

BLOCK :- GWALPARA

Actual Length of Road :- ~~1.831 KM~~ 1.960 KM

Flood Affected Length of Road :- 0.060 Km

Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	10,10,666.03
2	Add:-Labour Cess @1% amt. =	10,106.66
3	Add:GST@12% on amt. =	1,21,279.92
4	Add:S.F.@ 10% on Material (Brick Bats) =	14,964.94
TOTAL RESTORATION COST OF THE PROJECT IN LACS		11,57,017.55

*Yail*  
24/11/2021

Junior Engineer  
RWD (W) Division, Udakishanganj

*YK*  
24/11/2021

Assistant Engineer  
RWD (W) Division, Udakishanganj

*CS*  
24/11/2021

Executive Engineer  
RWD (W) Division, Udakishanganj



T.S. No -

Date - 20/04/22

पत्रांक मु.आ. 4 (मु.) विविध (कार्य) 23-291/2019-  
4849 दिनांक - 2/12/2021

Technically sanctioned for Rs 1157017.00  
(Rs Eleven lacs fifty seven thousand seven-  
teen) only.

Weller  
20/04/2022

**Estimating Officer**  
Rural Work Department  
Work Circle, Madhepura

11/20/04/22

**Superintending Engineer**  
Rural Works Department  
Works Circle, Madhepura



## प्रतिवेदन


पथ का नाम :- बेलिगा बासा आर. डू. ओ. रौड से अमौला


प्रखंड :- जवाल्पाड़ा

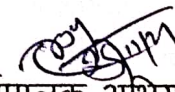
जिला :- मधुपुरा

पथ की कुल लंबाई :- 1.960 कि०मी०

प्रस्तुत प्राकलन मो०-...11:57017 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।

  
22-11-2021  
कनीय अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्र० उदाकिशुनगंज  
कार्य प्र० जवाल्पाड़ा

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

  
कार्यपालक अभियंता  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, उदाकिशुनगंज।



# Inspection Report for Flood Damage work

Date:-

1 Name of PIUS :-

Er Ram Ratan Ram (EE R.W.D (w) Div Udaishungar)

2 Name of Block :-

Gwalpara

3 Name of Road :-

Baliya Basa R.E.O Road to Amaula

## A. For Road

1 Damage Location/Chainage :- 2nd km.

2 Damage Length :- 0.060 km

3 Nature of damage :- Flank, shoulder.

4 Details of Restoration Works :-

i Material being used in Restoration works:- Sand EC Bags. Brick Bat

ii Equipments/Tools being used in Restoration works :- Tractor, JCB.

iii Procedure taken up in Restoration works :- yes

iv Restored Length :- - 0.060 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

JE  
24-11-2021

AE  
24/11/2021

EE  
25/11/21

Signature  
(Name of inspector)



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

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।

सचिव

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.....956...../

प्रेषक,

ई0 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-मु0अ0-4(मु0) विविध (कार्य)-23-40/2016-2789 पटना, दिनांक 21.08.2020 एवं विभागीय Whatsapp ग्रुप में प्राप्त निदेश।

महाराय,

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।

## Schedule of Quantity

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD  
FROM BALIYA BASA R.E.O. ROAD TO AMAULA

BLOCK :-

GWALPARA

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	150.00	Cum	582.71	87407.16
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.	30.00	Cum	1922.87	57686.10
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	1260.00	m	45.86	57789.80
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	540.00	m	5.31	2865.76
6		Supply of Bamboo at site.	300.00	nos.	188.39	56515.87
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	20198.00	nos.	37.05	748401.34
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.	1010666.03

*JE*  
24-11-2021  
JE

*AE*  
24/11/2021  
AE

*EE*  
24/11/21  
EE



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 TEMPORARY RESTORATION OF ROAD FROM BALIYA BASA R.E.O. ROAD TO AMAULA				
Item No. 1	Sand Filling in ditch & breach portion of road as per Drawing & Technical Specification.					
		1	40	2.5	1.50	150.000
		Total (in Cum)				150.000
Item No. 2 :	Laying Brick Bat....					
CH:-		1	20	1.50	1.00	30.000
Less For Pipe		0	22/7x(0.6)2x2.5		(-)	0.000
		Total (in Cum)				30.000
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					
		3	60		7	1260.000
For Bamboo pilling 1.25m		Total (in m)				1260.000
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					
		3	60		3	540.00
		Total (in m)				540.00
Item No. 6	Supply of Bamboo at site.					
		Total (in m)				1800.00
		Total (in nos.)				300.00
						300.00
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					
CH:-		1	10	4.3	3.2	137.60
CH:-		1	10	4	2.5	100.00
CH:-		1	10	3.5	3.5	122.50
CH:-		1	10	4.5	3.3	148.50
CH:-		1	10	3.75	3.1	116.25
CH:-		1	10	2.25	2.75	61.88
		60				
		Total (in Cum)				686.73
0.034m3=1 nos.						20197.79
		Total (in nos.)				20198.00
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

20/1/17



## Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BALIYA BASA R.E.O.  
NAME OF ROAD :- ROAD TO AMAULA  
BLOCK :- GWALPARA

S.No	SOR NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.				
		Sand	150.00	Cum	141.85	21277.50
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	30.00	Cum	1032.00	30960.00
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	686.73	Cum	141.85	97411.94
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	149649.44
		Seigniorage Fees @10% of Basic Amount			Say	14964.94

*[Signature]*  
24/11/2021  
JE

*[Signature]*  
24/11/2021  
AE

*[Signature]*  
24/11/2021  
EE



Analysis of Rate							
SI 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		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
		Rate per Cum=(a+b+c)/2.25					194.82
		Note:- Unloading will be done Manually.					



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 . Prpviding 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 lengthg. 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
		b RCC pipe NP3 pipe includsing collar at site	m	7.50	3,481.28	26,109.60
		Labour				
		Mate				
		Mason (I 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 wih 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) 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 pilling	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	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				
		Total No of Bamboo=176.9/6=30No	No	30	141.50	4245
		b Labour	Nos	1.00	345.00	345.00
		Carpenter Gr II	Nos	1.00	287.00	287.00
		Unskilled mazdoor for pilling				



SI No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Overheads @ 12% on labour charge (345.00+287.00)				75.84
		Rate Per M2				4,966.80
						534.06
8	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 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 pilling	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 pilling	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				
		(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 Carring & Placing to work site of E.C.Bags				
		(a) Unskilled mazdoor for carring filled bags and placing to work site	Nos	3	287	861.00
						3308.33
		Total (A+B+C)=				



SI No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		Add overhead charge @12%				397.00
		Total Net Rs.				3705.32
		Rate per %				3705.32
		Sand Each Bag				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	Nos	25	37.05	926.33
		Rate each				926.33
13		Supply of Nylon Crate of size 1mx1mx1m			39.85	39.85
		Material				
	(a)	Nylon Crate				39.85
	(b)	Add Overhead charge @12%				4.78
		Total (a+b)				44.63
		Rate per nos.				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)	cum	1.20	141.85	170.22
	b	Labour				
		Mate	day	0.01	305.00	3.05
		Mazdoor(Unskilled)	day	0.3	287.00	86.10
						259.37
		Add overhead charge @12%				31.1244
						290.494
		total=				290.49
		Carraige cost for Local sand				292.22
		Rate per cum				582.71



**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.

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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।