



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2021-22)

STATE
DISTRICT
BLOCK
DIVISION

BIHAR
MADHEPURA
MURLIGANJ
MADHEPURA

**DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM RAGHUNATHPUR WARD NO-08 ME BHUMI
DAS KE GHAR SE MURHO TOLA TAK**

Actual Length of Road	=	2.200 Km
Flood affected Length of Road	=	0.910 Km
TOTAL COST OF PAVEMENT	Rs	29,26,569.23
TOTAL PROJECT COST	Rs	29,26,569.23

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

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

Inspection Report for Flood Damage work

Date:-

- 1 Name of PIUS :- Madhapura
2 Name of Block :- Murhans
3 Name of Road :- Raghunathpur Ward no-8 MC Bhami das Ice onhar se
Murho bala bala

A. For Road

- 1 Damage Location/Chainage :- 0+210m, 210+417m, 417+622, 622+1312m, 1312+1749m, 1749+1950
2 Damage Length :- 0.910 km
3 Nature of damage :-
4 Details of Restoration Works :-
i Material being used in Restoration works:- Bricks bats, H.P, cement bags
ii Equipments/Tools being used in Restoration works :-
iii Procedure taken up in Restoration works :-
iv Restored Length :-

B. For Bridge

- 1 Damage Location/Chainage :-
2 Damage Length :-
3 Nature of damage :-
4 Details of Restoration Works :-
i Material being used in Restoration works:-
ii Equipments/Tools being used in Restoration works :-
iii Procedure taken up in Restoration works :-
iv Restored Length :-

A. K. Nay
JE

B. Singh
AE

EE

Signature
(Name of inspector)

—:तकनीकी प्रतिवेदन:—

अंचल का नाम:— मधेपुरा

प्रमण्डल का नाम:— मधेपुरा।

योजना शीर्ष:— 3054 एफ.डी.आर.

पथ का नाम:— **Ragunathpur ward no 8 me Bhumi das ke Ghar se murho tola Tak**

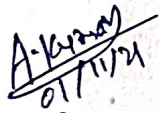
पथ की लम्बाई:— 2.200 कि.मी.


निर्मित/निर्माणाधीन पथ का शीर्ष:—


प्राक्कलित राशि:— रू० 29.265 लाख

प्रस्तुत प्राक्कलन वर्ष 2021 में आई अप्रत्याशित अतिवृष्टि एवं बाढ़ के कारण **Ragunathpur ward no 8 me Bhumi das ke Ghar se murho tola Tak** पथ में हुए क्षति यथा कटाव/धसान/जलजमाव की आकस्मिक मरम्माति एवं यातायात पुनर्बहाल करने हेतु शीर्ष 3054 एफ.डी.आर. मद से सचिव, ग्रामीण कार्य विभाग/उच्चाधिकारियों के द्वारा दिये गये निर्देश के अनुपालन में तैयार किया गया है।

प्राक्कलन अन्तर्गत पथ में हुए क्षति की विस्तृत मापी दर्शायी गई है एवं प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है।


कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रषाखा, मुरलीगंज


सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमण्डल मुरलीगंज


कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, मधेपुरा।

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM RAGHUNATHPUR WARD NO-08 ME BHUMI
DAS KE GHAR SE MURHO TOLA TAK

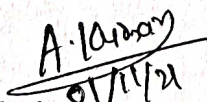
DIVISION :- MADHEPURA

BLOCK :- MURLIGANJ

Actual Length of Road :- 2.200 Km

Flood Affected Length of Road :- 0.910 Km

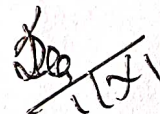
Sr. No.	Description	Amount (In Rs.)
1	Total Cost of Restoration=	24,76,131.99
2	Add:-Labour Cess @1% amt. =	24,761.32
3	Add:GST@12% on amt. =	2,97,135.84
4	Add:S.F.@ 10% on Material =	1,28,540.09
TOTAL RESTORATION COST OF THE PROJECT IN LACS		29,26,569.23


Junior Engineer

RWD (W) Division, Madhepura


Assistant Engineer

RWD (W) Division, Madhepura


Executive Engineer

RWD (W) Division, Madhepura

Details of Measurement

कार्य का ब्योरा Deatail of Workl		संख्या No.	Measurement			मात्रा Quantity
			लम्बाई In m.	चोड़ाई In m.	In m.	
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM RAGHUNATHPUR WARD NO-08 ME BHUMI DAS KE GHAR SE MURHO TOLA TAK				
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification					
Ch:-in		1	30	4.00	0.600	72.000
Ch:-in		1	21	3.65	0.600	45.990
						117.990
	Less for Hume pipe	4	22/7x(0.6)2x2.5			11.304
			Total (In Cum)			106.686
Item No. 2 : Laying Brick	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.					
Ch:-in 0 to 210		1	30.00	2.74	0.250	20.550
		2	30.00	2.74	0.300	49.320
		1	30.00	2.74	0.250	20.550
		1	11.00	2.43	0.150	4.010
		1	30.00	2.74	0.150	12.330
Ch:-in 210 to 417		2	30.00	2.74	0.250	41.100
		2	30.00	2.74	0.300	49.320
		1	30.00	3.03	0.300	27.270
		1	30.00	3.03	0.150	13.635
Ch:-in 417 to 622		2	30.00	3.03	0.300	54.540
		1	30.00	2.74	0.300	24.660
		1	10.00	2.43	0.150	3.645
		2	30.00	3.03	0.300	54.540
Ch:-in 622 to 1312		3	30.00	3.03	0.400	109.080
		1	8.00	2.74	0.450	9.864
		2	30.00	3.10	0.450	83.700
		1	22.00	3.03	0.450	29.997
		1	23.78	3.35	0.400	31.865
Ch:-in 1312 to 1749		1	14.32	12.19	0.500	87.280
		1	21.95	2.74	0.300	18.043
		3	30.00	3.03	1.200	327.240
		1	9.00	2.74	0.450	11.097
		1	30.00	3.93	0.450	53.055
Ch:-in 1749 to 1950		1	21.00	3.65	0.500	38.325
		1	30.00	3.65	0.500	54.750
						1229.766
	Less For Pipe	0		22/7x(0.6)2x2.5		0.000
				Total (In Cum)		1229.766
Item No. 3	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I					
CH:-in		1	0.00		2.13	0.000
		1	0.00		2.13	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,	1	0	2		0.00
	For Chachary 01 no.(6m) Bamboo=1.413 sqm	1	0	2		0.00
			Total (In sqm)			0.00

				Total (In m)	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				
CH:-in	3	0.00			0.00
CH:-in	3	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				
CH:-in	2	6.00	0.45	1.500	8.10
				Total (in cum)	8.10
(0.034m3=1 no. of EC Bags)					238.24
				Total (in nos.)	238.00

A. G. Nay
01/11/24
n

Brish
01/11/24
A-E

\$
1/11/24

Schedule of Quantity

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD
NAME OF ROAD :- FROM RAGHUNATHPUR WARD NO-08 ME BHUMI DAS KE
GHAR SE MURHO TOLA TAK

BLOCK :-

MURLIGANJ

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	106.69	Cum	582.71	62167.47
2	A/R	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	1229.77	Cum	1922.87	2364680.15
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	238.00	nos.	37.05	8818.67
8		Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m ³ . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	0.00	Each	172.18	0.00
9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	0.00	Cum	2091.76	0.00
10	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	10.00	m	4046.57	40465.70
		Total			Rs.	2476131.99

A. K. Mani
JE

Prakash
01/11/21
AE

De
1/12/21
EE

Calculation of Seigniorage Fees

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM RAGHUNATHPUR WARD
NO-08 ME BHUMI DAS KE GHAR SE MURHO TOLA TAK
BLOCK :- MURLIGANJ

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		E/W	106.69	Cum	141.85	15133.41
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	1229.77	Cum	1032.00	1269118.51
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	8.10	Cum	141.85	1148.99
4/8	5.7.40.2	Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m ³ . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)				
		Sand	0.00	Cum	141.85	0.00
5/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		For Grading I Material (with Coarse Sand Screening)				
		Unit = Cum				
		Taking output = 300 cum				
		Coarse graded granular sub-base material as per Table 400.2				
		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	92955.60
		9.5 mm to 2.36 mm @ 20 percent	72.00	Cum	411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening)	108.00	Cum	185.94	20081.52
		Cost for 300 cum = a				142652.88
		Rate psr Cum = (a)/300		Cum		475.51
			0.00	Cum	475.51	0.00
		GSB Gr-I				0.00
					TOTAL	1285400.91
		Seigniorage Fees @10% of Basic Amount			Say	128540.09

A. Kumar
01/11/24
JE

R. Singh
01/11/24
AE

S. Singh
01/11/24
EE

Calculation of Seigniorage Fees

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM RAGHUNATHPUR WARD
NO-08 ME BHUMI DAS KE GHAR SE MURHO TOLA TAK
BLOCK :- MURLIGANJ

S.No	SOR NO	DESRPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		E/W	106.69	Cum	141.85	15133.41
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	1229.77	Cum	1032.00	1269118.51
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	8.10	Cum	141.85	1148.99
4/8	5.7.40.2	Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m ³ . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)				
		Sand	0.00	Cum	141.85	0.00
5/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		For Grading I Material (with Coarse Sand Screening)				
		Unit = Cum				
		Taking output = 300 cum				
		Coarse graded granular sub-base material as per Table 400.2				
		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	92955.60
		9.5 mm to 2.36 mm @ 20 percent	72.00	Cum	411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening)	108.00	Cum	185.94	20081.52
		Cost for 300 cum = a				142652.88
		Rate psr Cum = (a)/300		Cum		475.51
			0.00	Cum	475.51	0.00
		GSB Gr-I				0.00
					TOTAL	1285400.91
		Seigniorage Fees @10% of Basic Amount			Say	128540.09

A. Kumar
05/11/24
JE

Bhish
05/11/24
AE

Sh
11/11/24
EE