

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD
FROM MADHOPUR MARKET TO WEAST NORTH SHW BIRPUR
ROAD VIA UDHAMPUR SIMA.

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 1.700 Km

Flood Affected Length of Road :- 0.260 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	546,239.30
3	BAMBOO PILE	-
4	BAMBOO SUPPLY	-
5	EC BAG	140,361.62
6	GEO BAG	271,877.71
7	GRANULAR SUB BASE	-
8	HUME PIPE	-
	Total Cost =	958,478.63
	Add:-Labour Cess @1% amt. =	9,584.79
	Add:GST@12% on amt. =	115,017.44
	Add:S.F.@ 10% on Material =	32,263.38
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,115,344.23

AP
10/6/22

Junior Engineer
RWD (W) Division,Triveniganj

del
10/06/2022

Assistant Engineer
RWD (W) Division,Triveniganj

Sh. A. G. 22

Executive Engineer
RWD (W) Division,Triveniganj

vide letter नं० ५ (नं०) विविध (नं०) 23-291/2019-4849
dt- 07/12/2021

Technically sanctioned for Rs- 1,115,344.00/-
(that is Eleven Lakh fifteen thousand three hundred
forty four rupees only.)

H. / 29/06/22

Superintending Engineer
Rural Works Department
Work Circle Madhe

जाँच प्रतिवेदन

प्रस्ताव प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-1890 दिनांक-22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा की अध्यक्षता में गठित चार सदस्यों द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाड़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक अभियंता अभियंता के साथ मापी लिया गया जो निम्न है :-

Line of Road :- MADHOPUR MARKET TO WEST NORTH SHW BIRPUR ROAD VIA UDHAMPUR SIMA .

Division Name :- Rural Works Department, Works Division, Triveniganj

Check :- Chhatapur

No.	Items of Work	Nos.	L. (m)	B (m)	D (m) Lx (Av.)	Quantity (m3)
1	GEO BAGS					
		1	100.0	2.0	0.6	120
		2	40	2	0.45	72
					120/0.076	1579
2	EC BAGS					
		2	51.00	(3+2+1.5)/3	0.60	132.19
		Total Qty. =				132.19
		NO OF EC BAGS=132.19 /0.034				3888.00
	BRICK BATS					
		2	25	3	0.45	67.5
		6	20	2.7	0.2	97.2
		2	25.00	3.50	0.20	35.00
		3	25.00	3.75	0.30	84.38
		Total Qty. =				284.08

9

5/22

23/05/2022

कार्य प्रमंडल, सुपौल।

कार्य प्रमंडल, बीरपुर।

कार्य प्रमंडल, त्रिवेणीगंज

अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राकलन तैयार कराकर संक्षम में अग्रतर कार्रवाई हेतु शीघ्र भेजे।

23/05/22

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति
ग्रामीण कार्य विभाग
कार्य अंचल, मधेपुरा

Details of Measurement							मात्रा Quantity
कार्य का ब्यौरा Detail of Work	संख्या No.	पैमाईस					
		लम्बाई in m.	चौड़ाई In m.	ऊँचाई In m.			
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM MADHOPUR MARKET TO WEAST NORTH SHW BIRPUR ROAD VIA UDIHAMPUR SIMA.					
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification						
CH-in		1	0	5.500	0.60	0.000	
						0.000	
Item No. 2	Providing and laying of Brick bat obtained from chimney with machedanical 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		2	25.00	3.00	0.45	67.50	
CH-in		6	20.00	2.70	0.30	97.20	
CH-in		2	25.00	3.50	0.20	35.00	
CH-in		3	25.00	3.75	0.30	84.38	
				Total (in Cum)		284.075	
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							
CH-in							
				Total (in m)			
Item No. 6	Supply of Bamboo at site.						
				Total (in m)			
				Total (in nos.)			
						0.00	
Item No. 3	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	51.00	(3+2+1.5)/3	1.50	132.19	
CH-in			Total (in cum)			132.19	
		(0.034m3=1 no. of EC Bags)				3888.00	
			Total (in nos.)			3888.00	
Item No. 4	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 0.07m3. 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)						
CH-in		1	100	2.00	0.6	120.00	
						120.00	
		(0.076m3=1 no. of Geo Bags)				1578.95	
			Total (in nos.)			1579.00	
Item No. 5	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.(Gr-II Material)						
		6	0	3.00	0.150	0.0000	
				Total (Cum)		0.000	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).						
		Ch.0.00km		2	0	2.5	
						0.00	
				Total (in m)		0.00	

AR
10/6/21
7E

10/6/2022
A E

117-6-22
EE
Executive Engineer
Rural Works Department
Work Division, Trivenigan

Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM
MADHOPUR MARKET TO WEAST NORTH SHW BIRPUR ROAD VIA
UDHAMPUR SIMA.

BLOCK :-

CHHATAPUR

S.No	SOR NO	DESRPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	0.00	Cum	549.11	0.00
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.	284.08	Cum	1922.87	546239.30
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
3	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	3888.00	nos.	36.10	140361.62
4		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)	1579.00	Each	172.18	271877.71
5	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.	0.000	Cum	3010.64	0.00
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	0.00	m		0.00
		Total			Rs.	958478.63

AK
10/6/22
JE

Aditya
10/06/2022
AE

H. P. G. 2

EE
Executive Engineer
Rural Works Department
Work Division, Trivenigani

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM MADHOPUR MARKET TO
NAME OF ROAD :- WEAST NORTH SHW BIRPUR ROAD VIA UDHAMPUR SIMA.
BLOCK :- CHHATAPUR

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	0.00	Cum	116.85	0.00
2/2	A/R	Sand				
		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.	284.08	Cum	1032.00	293165.40
		Brick Bats				
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	132.19	Cum	116.85	15446.40
		Sand				
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 Carnage of Local sand lead 0.5 km)				
		Sand	120.00	Cum	116.85	14022.00
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 II 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-II				0.00
					TOTAL	322633.80
		Seigniorage Fees @10% of Basic Amount			Say	32263.38

AP
10/6/22
JE

AP
10/06/2022
AE

Signature
17.6.22
EE
Executive Engg.
Rural Works Department
Work Division, Trivenigari

Bill of Quantity

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY
RESTORATION OF ROAD FROM MADHOPUR
MARKET TO WEAST NORTH SHW BIRPUR ROAD
VIA UDHAMPUR SIMA.

BLOCK :- CHHATAPUR
DISTRICT :- SUPAUL

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	0.00	Cum	549.11	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.	284.08	Cum	1922.87	546239.30
3/3	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
4/4	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	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
6/6		Supply of Bamboo at site.	0.00	nos.	188.39	0.00
7/7	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	3888.00	nos.	36.10	140361.62
8/8	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 0.07m3. 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)	1579.00	Each	172.18	271877.71
9/9	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	3010.64	0.00
10/10	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row.	0.00	m	0.00	0.00
					Say	958478.63
		Seigniorage Fees				32263.38
		Add @12% GST				115017.44
		Add @1% Lebour Cess				9584.79
						1115344.23
					Say	1115344.00

EE
Executive Engineer
Rural Works Department