# SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

ROAD FROM MAHDIPUR BAZAR TO CHHATAPUR

NAME OF ROAD :- (BOARDER)

DIVISION: TRIVENIGANJ

**BLOCK:- CHHATAPUR** 

Actual Length of Road :- 1.000 Km

Flood Affected Length of Road :- 0.709 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	-
3	EC BAG	-
4	GEO BAG	/ -
5	GRANULAR SUB BASE	1,392,044.67
6	HUME PIPE	-
	Total Cost =	1,392,044.67
	Add:-Labour Cess @1% amt. =	13,920.45
	Add:GST@12% on amt. =	167,045.36
	Add:S.F.@ 10% on Material =	21,986.38
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	

1016122

Junior Engineer RWD (W) Division, Triveniganj Assistant Engineer

RWD (W) Division, Triveniganj

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Executive Engineer
RWD (W) Division, Triveniganj

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Superintending Engineer

Rural Works Department

		Detai	ils of Mea	Sul Cili	ent			
			संख्या		Measurement			
	<del>a</del>	जर्य का ब्यौरा		No.	लम्बाई	चौड़ाई	In m.	मात्रा
		atail of Work		110.	in m.	In m.		Quantity
					PECTOI	ATIONO	EDOAD	FDOM
NAME OF F	POAD :-	DETAILED ESTIM	AE FOR TEN	MPRORY	RESTOR	CATION U	IF KUAD Teda	FROM
NAIVIE OF I		MAHD	IPUR BAZAF	TO CHI	HATAPU.	K (BUAKI	JEK)	
Item No. 1	Sand filling	g in Foundation Trenches as	per Drawing &	i ecrinicai s	specification			
				1	0	0.000	0.40	0.000
CH:-in .				<u> </u>		0.000	5	0.000
	I=	and laying of Brick bat obtain	ned from chimne	ev with mad	henical me	ans with all		
item No. 2	Providing	and laying of Brick bat obtain, grading to required slope at	nd compacted a	t OMC to a	cheive requ	iired density	with all	
	complete	as per the direction of engine	eer in charge.					0.000
CH:-in	1441112121			6	0	1.500	0.450	0.000
						Total (ir	Cum	0.000
			1	ching the h	age and pla	-		0.000
tem No. 3	Labour filling	ng empty cement bags with	loocal sand, stit	cning the b decinal she	ags and pla cification a	ad direction	of F/I	
	of sutti and	I EC bag etc. all complete as	s per approved	uesing, spe	Cincadon a	id direction	01 271	
:H:-in				0	0	1.75	0.9	0.00
					Total (	n cum)		0.00
	(0.034m3=	1 no. of EC Bags)			T-4-1/	in non \		0.00
	Providing,la	aying and filling Geo bags of	f size 1m X 0.7	m(Type A :	Total ( 300 GSM n 126 Kg wit	onwoven) w	eight of	0.00
	bags 420g including st stacking ar	volume of filled bag 0.07m3 titching in four lines by appro nd placing after loading unloa	<ol> <li>weight of filled oved nylon threa ading and carria</li> </ol>	I Geo bags d with stitcl ge with hel	300 GSM no 126 Kg with hing machin	onwoven) w h local sand le and gene within 150m	rator lead all	0.00
	bags 420g including st stacking ar	volume of filled bag 0.07m3 titching in four lines by appro	<ol> <li>weight of filled oved nylon threa ading and carria</li> </ol>	I Geo bags d with stitcl ge with hel luding Carr	300 GSM no 126 Kg with hing machin	onwoven) w h local sand le and gene within 150m	rator lead all	0.00
	bags 420g including st stacking ar	volume of filled bag 0.07m3 titching in four lines by appro nd placing after loading unloa	<ol> <li>weight of filled oved nylon threa ading and carria</li> </ol>	I Geo bags d with stitcl ge with hel	300 GSM no 126 Kg withing maching p of trolley inage of Loc	onwoven) w h local sand le and gene within 150m al sand lead	rator lead all 0.5 km)	
:H:-in	bags 420g including st stacking ar complete a	volume of filled bag 0.07m3 titching in four lines by appro nd placing after loading unlo as per specifications and dire	<ol> <li>weight of filled oved nylon threa ading and carria</li> </ol>	I Geo bags d with stitcl ge with hel luding Carr	300 GSM no 126 Kg withing maching p of trolley inage of Loc	onwoven) w h local sand le and gene within 150m al sand lead	rator lead all 0.5 km)	0.00
:H:-in	bags 420g including st stacking ar complete a	volume of filled bag 0.07m3 titching in four lines by appro nd placing after loading unloa	<ol> <li>weight of filled oved nylon threa ading and carria</li> </ol>	I Geo bags d with stitcl ge with hel luding Carr	300 GSM no 126 Kg with hing machir p of trolley iage of Loc 0	onwoven) who local sand general within 150m al sand lead 2.00	rator lead all 0.5 km)	0.00 0.00 0.00
:H:-in	bags 420g including st stacking ar complete a	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)	3. weight of filled oved nylon threa ading and carria ection of E/I (inc	d Geo bags d with stitcl ge with hel luding Carr 2	300 GSM no 126 Kg with hing maching p of trolley iage of Loc 0	onwoven) who local sand general within 150m al sand lead 2.00	rator lead all 0.5 km)	0.00 0.00
:H:-in em No. 5	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel uding Carr 2  aded mater nt on preparating with	300 GSM no. 126 Kg withing maching p of trolley iage of Loc O Total (in in i	nnwoven) who local sand general within 150m al sand lead 2.00 nn nos.)  ng in e, mixing by heel roller	rator lead all 0.5 km) 0.9	0.00 0.00 0.00
:H:-in em No. 5	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags) on of granular sub-base by pers with tractor mounted granular	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel luding Carr 2  aded mater nt on preparating with lical Specifi	300 GSM not a 126 Kg with hing maching p of trolley it is age of Loc and a 12 Total (it is a 12 Smooth with items of the control of the is a 12 Smooth with items of	onwoven) who local sand general within 150m al sand lead 2.00 in nos.) Ing in e, mixing by theel roller ise 401.(Gr-	rator lead all 0.5 km) 0.9	0.00 0.00 0.00 0.00
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel luding Carr 2  aded mater nt on preparacting with lical Specif	Total (inial, spreading smooth wication Clau	onwoven) who local sand general within 150m al sand lead 2.00 in nos.) In g in e, mixing by theel roller ise 401.(Gr-	nator lead all 0.5 km) 0.9	0.00 0.00 0.00 0.00
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel luding Carr 2  aded mater nt on preparating with lical Specifi	Total (inial, spreading smooth wication Clau	onwoven) who local sand generation in 150m al sand lead 2.00 an nos.)  In nos.)  In g in e, mixing by the local roller is 401.(Gr-3.75 3.75	rator lead all 0.5 km) 0.9	0.00 0.00 0.00 0.00 50.6250 90.0000
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel uding Carr 2 aded mater nt on preparacting with sical Specif 3 4	Total (inial, spreading smooth wication Clau	onwoven) who local sand general within 150m al sand lead 2.00 in nos.) In g in e, mixing by theel roller ise 401.(Gr-	0.150 0.200	0.00 0.00 0.00 0.00
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel uding Carr 2 aded mater ant on preparacting with sical Specif 3 4 3 5 5	Total (in a smooth with a smoo	nnwoven) who local sand general sand lead 2.00 nn nos.)  ng in e, mixing by heel roller lese 401.(Gr-3.75 3.75 3.75 3.75 3.75 3.75	0.5 km) 0.9 0.150 0.200 0.150 0.200	0.00 0.00 0.00 0.00 50.6250 90.0000 50.6250 56.2500
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel luding Carr 2  aded mater nt on preparacting with sical Specif 3 4 3 5 5 5	Total (initial system of the s	n nos.) ng in e, mixing by heel roller se 401.(Gr- 3.75 3.75 3.75 3.75 3.75 3.75 3.75	0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 50.6250 90.0000 50.6250 112.5000 50.6250
:H:-in em No. 5	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel uding Carr 2  aded mater nt on preparacting with sical Specif 3 4 3 5 5 5 3 2	Total (in a smooth with a smoo	n nos.) ng in n, mixing by heel roller se 401.(Gr- 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75	0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 0.00 50.6250 50.6250 112.5000 50.6250 45.0000
H:-in	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 titching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted graph as method with rotavator at 0	3. weight of filled oved nylon threa ading and carria ection of E/I (incompression of E/I) are considered after arrangeme DMC, and comp	d Geo bags d with stitol ge with hel luding Carr 2  aded mater nt on preparacting with sical Specif 3 4 3 5 5 5	Total (initial system of the s	nnwoven) who local sand generated and generated within 150m all sand lead 2.00 nn nos.)  ng in e, mixing by heel roller se 401.(Gr. 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.7	0.150 0.200 0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 50.6250 90.0000 50.6250 112.5000 50.6250 45.0000 6.7500
em No. 5	bags 420g including st stacking ar complete a  (0.076m3=  Constructio uniform lay mix in place to achieve to	volume of filled bag 0.07m3 bitching in four lines by appro- nd placing after loading unloads as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted grace method with rotavator at 0 the desired density, completed the desired density, completed the desired density.	B. weight of filled oved nylon threa ading and carria ection of E/I (incorrowiding well grader arrangeme DMC, and compete as per Techn	aded mater to on preparating with sitcle ge with hele uding Carr 2  aded mater and on preparating with sical Specif 3 4 3 5 5 3 2 1	Total (inial, spreading ared surface smooth with initial and initial) and initial and init	onwoven) who local sand generated and generated within 150m all sand lead 2.00 and nos.)  In nos.)  In nos.)  In g in e., mixing by heel roller ase 401.(Gr-3.75 a.75 a.75 a.75 a.75 a.75 a.75 a.75 a	0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 0.00 50.6250 50.6250 112.5000 50.6250 45.0000
H:-in em No. 5	bags 420g including stacking ar complete a (0.076m3=	volume of filled bag 0.07m3 bitching in four lines by appro- nd placing after loading unloc as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted grace method with rotavator at 0 the desired density, completed the desired density of the desired	B. weight of filled oved nylon threa ading and carria ection of E/I (incorrowiding well grader arrangeme DMC, and compete as per Techn	aded mater to on preparating with sitcle ge with hele uding Carr 2  aded mater and on preparating with sical Specif 3 4 3 5 5 3 2 1	Total (inial, spreading ared surface smooth with initial and initial) and initial and init	onwoven) who local sand generated and generated within 150m all sand lead 2.00 and nos.)  In nos.)  In nos.)  In g in e., mixing by heel roller ase 401.(Gr-3.75 a.75 a.75 a.75 a.75 a.75 a.75 a.75 a	0.150 0.200 0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 50.6250 90.0000 50.6250 112.5000 50.6250 45.0000 6.7500
H:-in em No. 5	bags 420g including st stacking ar complete a  (0.076m3=  Constructio uniform lay mix in place to achieve to	volume of filled bag 0.07m3 bitching in four lines by appro- nd placing after loading unloc as per specifications and direct  1 no. of Geo Bags)  on of granular sub-base by pers with tractor mounted grace method with rotavator at 0 the desired density, completed the desired density of the desired	B. weight of filled oved nylon threa ading and carria ection of E/I (incorrowiding well grader arrangeme DMC, and compete as per Techn	aded mater to on preparating with sitcle ge with hele uding Carr 2  aded mater and on preparating with sical Specif 3 4 3 5 5 3 2 1	Total (inial, spreading ared surface smooth with initial and initial) and initial and init	onwoven) who local sand generated and generated within 150m all sand lead 2.00 and nos.)  In nos.)  In nos.)  In g in e., mixing by heel roller ase 401.(Gr-3.75 a.75 a.75 a.75 a.75 a.75 a.75 a.75 a	0.150 0.200 0.150 0.200 0.150 0.200 0.150	0.00 0.00 0.00 0.00 50.6250 90.0000 50.6250 112.5000 50.6250 45.0000 6.7500

10/6/22 JE

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Executive Engineer
Rural Jorks Department
Work Division, Trivenigani

## **Estimate of Flood affected Road**

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM BLOCK :- MAHDIPUR BAZAR TO CHHATAPUR (BOARDER)

**CHHATAPUR** 

	CODNO	DESRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
S.No	SOR NO	Sand filling in Foundation Trenches as per Drawing &	0.00	Cum	549.11	0.00
1	301.5	Technical Specification	0.00			
2	A/R	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.	0.00	Cum	1922.87	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	0.00	nos.	36.10	0.00
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)	0.00	Each	172.18	0.00
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.	462.375	Cum	3010.64	1392044.67
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	0.00	m	4041.99	0.00
		Total			Rs.	1392044.67

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Executive Engineer
Rural Jorks Department Work Division, Trivenigani

### Calculation of Seigniorage Fees

## DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM MAHDIPUR BAZAR TO

NAME OF ROAD :- CHHATAPUR (BOARDER)

BLOCK :- CHHATAPUR

.No	SOR NO	DESRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing &				
1/1	12.5	Technical Specification	0.00	Cum	116.85	0.00
2/2	A/R	Sand Providing & laying Brick Bat	0.00			
212	7010					
		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.				
		direction of engineer in charge.				
		Brick Bats	0.00	Cum	1032.00	0.00
		Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli				
3/7	5.7.40.1	and EC bag etc. all complete as per approved desing,				
		specification and direction of E/I				
		Sand	0.00	Cum	116.85	0.00
		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				
4/8	5.7.40.2	approved nylon thread with stitching machine and				
		generator stacking and placing after loading unloading	1			
		and carriage with help of trolley within 150m lead all	i			
		complete as per specifications and direction of E/I				
		(including Carriage of Local sand lead 0.5 km)				
		Sand	0.00	Cum	116.85	0.00
		Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor				
		mounted grader arrangement on prepared surface,				
5/9	401	mixing by mix in place method with rotavator at OMC,		1		
		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				
7		Coarse graded granular sub-base material as per				
-	art is in	Table 400.2	100.00			
		53 mm to 9.5mm @ 50 percent	180.00		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
-		000 0 11	462.38	Cum	475.51	219863.75
		GSB Gr-II				219863.75
-		C-11			TOTAL	219863.75
		Seigniorage Fees @10% of Basic Amount			Say	21986.38

AG) 10/6/22 JE

John 66 2022

EEE Engineer

Rural Jorks Department Work Division Trivenigani

#### **Bill of Quantity**

DETAILED ESTIMAE FOR TEMPRORY

NAME OF ROAD :- RESTORATION OF ROAD FROM MAHDIPUR BAZAR

TO CHHATAPUR (BOARDER)

BLOCK :-

CHHATAPUR

DISTRICT :-

SUPAUL

No	SOR NO	DESRIPTION 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 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.	0.00	Cum	1922.87	0.00
3/3	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	0.00	nos.	36.10	0.00
4/4	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)	0.00	Each	172.18	0.00
5/5	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.	462.38	Cum	3010.64	1392044.67
6/6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row.	0.00	m	4041.99	0.00
		Y-1			Say	1392044.67
		Seigniorage Fees				21986.38
	<b>—</b>	Add @12% GST				167045.36
	-	Add @1% Lebour Cess				13920.45
						1594996.85
					Say	1594997.00



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Executive Engineer
Rural /orks Department
Vork Division, Trivenigani