

# 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 DICTRICT BLOCK DIVISION BIHAR
SUPAUL
CHHATAPUR
TRIVENIGANJ

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM NEAR HOUSE OF BISWANATH THAKUR TO BRAHMAN TOLA PRATAPGANJ PRIYAHI ROAD LALGANJ

Flood affected Length of Road	=	0.660 Km
TOTAL COST OF PAVEMENT	Rs	1,164,231
TOTAL PROJECT COST	Rs	1,164,231

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

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

SINO	District	Division	Road Name	Length(In Km.)	Length of Damage Part Due to Flood	Tentative Restoration Amount(In Lac)	Block
1	Supaul	Triveniganj	Chunni world bank to cheudhary tola(sahpur), girdharpatti hat via mirrapatti.	9.3	0.3	60	Chhatapur
2	Supaul	Triveniganj	Mahdipur Bazar to Chatapur (Boader)	1	0.25	18	Chhatapur
3	Supaul	Triveniganj	L053-T01 To Narahiya (VR8)	2.585	0.35	19	Chhatapur
.4	Supaul	Triveniganj	Construction of road from Lalji Chauk Harihar Path to Sohta Kachni Road with five years maintenance	11.97	0.3	44	Chhatapur
5	Supaul	Triveniganj	Construction of road from Chhatapur bus stand to Bhatta Bari Road with five years maintenance.	3.18	0.2	36	Chhatapur
6	Supaul	Triveniganj	Construction of road from ChhatapurAnant Chowkto     Bhatta Bari Road witfive years maintenance.	1.485	0.1	20	Chhatapur
7	Supaul	Triveniganj	Construction of road from Raghunathpurto Faisya     Kothi Road with five years maintenance.	9.375	2.12	64	Chhatapur
8	Supaul	Triveniganj	Construction of road from Chunni to Charney world     Bank road with filve year maintenance	6.345	0.3	40	Chhatapur
9	Supaul	Trivenigan	Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.75	0.3	45	Chhatapur
10	Supaul	Triveniganj	Construction of road from Lalilt gram Railway Station to Mahadev Patti with five year maintenance	2.055	0.4	34	Chhatapur
11	Supaul	Triveniganj	Near House of Bishwanath Thakur TO Brahaman Tola, Prataoganj Pariyahi Road Middle MMGSY[SC]hool	2	0.15	50	Chhatapur
12	Supaul	Triveniganj	State Highway Se Ramjanki Chowk Middle School Chapin to Aarriya Sima Birpur Path Via Ayub 72 RD Subki mandal tola middle school thuthi	8.165	0.4	34	Chhatapur
13	Supaul	Triveniganj	Pariyahi Pradhanmantri Sadak Se Pachim Ranipatti Nahar Ke Daya Bank to Udakishunganj SHW Nahar Pul Tak	5.035	0.15	75	Chhatapur
14	Supaul	Triveniganj	Bari Maszid Jhakhargadh TO Purab Mahadalit Tola Via Chohan, Sah, Mansuri, Mahadalit Tola	2	0.2	15	Chhatapur
15	Supaul	Triveniganj	SHW From House of Chhutharu Sahni to NH57 Naaharpul Via Mehta Mahadalit Tola.	3.55	0.15	12	Chhatapur
16	Supaul	Triveniganj	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.175	0.33	23	Chhatapur
17	Supaul	Triveniganj	L033-T01 To Lachmipur (VR9)	4.421	0.2	70	Chhatapur
18	Supaul	Triveniganj	31 No Road to Darhariya Sima PMGSY via Pariyadhar	3.54	0.15	40	Chhatapur
19	Supaul	Triveniganj	Madhopur Market to West North SHW Birpur Road via Uddhampur Sima	1.645	0.06	35	Chhatapur
20	Supaul	Triveniganj	SH Bus Stand Paschim Bakho Tola & Paswan Tola Hote Huye Genda Nadi Evam Mirchaiya Nadi Par Karte Huye Harripatti SH Tak	4.77	0.025	15	Chhatapur
21	Supaul	Triveniganj	East of SHW Kalam Dealer House to Anand Chowk	1.5	0.12	35	Chhatapur
-	Supaul	Triveniganj	Pradhanmantri Matiyan to Brahamotra Mushhari Tola	2.085	0.2	68	Chhatapur

#### जाँच प्रतिवेदन

ग्रामीण कार्य विभाग, बिहार, पटना के पत्राक-1890 दिनांक-22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंघल, मधेपुरा की अध्यक्षता में गठित चार सदस्यीय होता अधादाण आमें वामीण कार्य विभाग, जिल्हा के अंतर्गत वर्ष 2021–22 में बाढ़ / अतिवृष्टि से क्षतिग्रस्त पथाँ के मीटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जींच संबंधित सहायक अभियंता एवं हात्रा कार्य प्रमोहत, त्रिवेणीगज के अंतर्गत वर्ष 2021–22 में बाढ़ / अतिवृष्टि से क्षतिग्रस्त पथाँ के मीटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जींच संबंधित सहायक अभियंता एवं हारा काव अगव्या, 1997मानमा च जरागरा पर 203 अभियता के साथ मापी लिया गया जो निम्न है :-

of Road :- NEAR HOUSE OF BISWANATH THKUR TO BRAHAMAN TOLA PARTAPGANJ PRIYAHI ROAD LALGANJ.

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

vii.	Items of Works	Nos.	(m)	B (m)	(m) IN (Av.)	Quantity (m3)
	Construction of granular sub-base					
	Sub-base	4	30.0	3.8	0.15	67.50
		3	30.0	3.8	0.15	50.63
_		8	25.0	3.0	0.15	90.00
		4	25.0	3.0	0.15	45.00
_		5	30.0	3.8	0.15	84.38
_		19 10	2		TOTAL=	337.50

ग्रामीण कार्य विभाग

कार्य प्रमंडल, सुपौल।

ग्रामीण कार्य विभाग कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, त्रिवेणीगंज

गलक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर सक्ष नार को अग्रतर कार्रवाई हेतु शीघ भेजें।

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति

ग्रामीण कार्य विमाग कार्य अंचल, मधेपुरा

#### SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

NAME OF ROAD :- ROAD FROM NEAR HOUSE OF BISWANATH THAKUR TO

BRAHMAN TOLA PRATAPGANJ PRIYAHI ROAD LALGANJ

DIVISION: TRIVENIGANI

BLOCK: CHHATAPUR

Flood Affected Length of Road :- 0.660 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	
3	EC BAG	-
4	GEO BAG	
5	GRANULAR SUB BASE	1,016,091.00
6	HUME PIPE	
	Total Cost =	1,016,091.00
	Add:-Labour Cess @1% amt. =	10,160.91
	Add:GST@12% on amt. =	121,930.92
	Add:S.F.@ 10% on Material =	16,048.45
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,164,231

AGN 1516122

Junior Engineer RWD (W) Division, Triveniganj Assistant Engineer

Assistant Engineer
RWD (W) Division, Triveniganj
Charletour

4176.22

Executive Engineer RWD (W) Division,Triveniganj

Vide Letter 70 81810-4 (50) 12104 (5012)-23-291/2019-4849

Technically sometioned for Rg 1164231.00-(Eleven lake sindy four thousand two fundred thirty one only)

Superintending Engineer
Rural Works Department
Works Circle Madhei

			Details	of Mea	surem	ent			
	कार्य का ब्योरा संख्या Measurement							ent	, ,
Deatail of Work				No.	लम्बाइ	चाड़ाइ	ln m.	मात्रा	
	Des	Itali Ol VVOI	IN.			in m.	In m.		Quantity
		DETA	ILED ESTIMAT	TURTER					Quantity
NAME OF ROA	AD :-		EAR HOUSE C		NATH TI	KESTOR IAKIID T	A HON U	AN TOL	A
NAME OF ITS	4. Ellino	in Founds	ation Transhau	TARCANI	DDIVAL	LDOADI	ALCANU	TAN TOL	
tem No. 1 Sa	and filling	j iir rounda	ation Trenches as p	per Drawing 8	& Technica	l Specificati	on		
CH:-in .					1	0	0.000	0.40	0.000
_	idina	and laving	of Briefs had about						0.000
item No. 2 Pr	roviding	and laying	of Brick bat obtaine	ed from chim	ney with m	achenical m	neans with a	ill	
150	reading,	, grading to	required slope an	d compacted	at OMC to	acheive re	quired dens	ity with	
	comble	ie as per li	ne direction of engi	neer in charc			0.750	0.450	0.000
CH:-in					2	0	3.750 3.750	0.150	0.000
CH:-in							3.750	0.130	0.000
					<del> </del>		Total (ir	Cum	0.000
Item No. 3 La	bour filli	ina empty o	cement bags with le	Oncal sand o	titching 45	hans 1	i otai (ir	r Cum)	0.000
Item INU. 3	pply of	sutli and E	C bag etc. all comp	olete as ner s	nnroyed d	bags and	placing inclu	iaing	
di	rection c	f F/L	- and otto an comp	nete as per a	pproved de	esing, speci	tication and	1	_
CH:-in					0	20	1.75	0.9	0.00
						Total (i	n cum)		0.00
(0	.034m3	=1 no. of E	C Bags)						0.00
TPI	(a)Vileliala	lavino ano	ming Geo pags or	817A TM T T		Total (	in nos.)		0.00
Item No. 4	bags 42	20a volume	e of filled bag 0.07r	n3 weight of	filled Goo	4 300 GSN	nonwoven)	weight	
in	cludina	stitchina in	four lines by appro	oved nylon thi	nneu Geo	titching mad	g with local	sand	
st	acking a	and placing	after loading unloa	ading and car	riage with	help of trolle	mine and ge	Om lead	
al	l comple	ete as per	specifications and	direction of F	I (including	Carriage o	flocal can	d lead	
0.	.5 km)		- Francisco di la	2.1. COLIOTI OI L	i (includini	y Carriage 0	i Lucai Sano	leau	
CH:-in					2	0	1.20	0.6	0.00
011						1	1		0.00
(0.	.076m3=	=1 no. of G	Geo Bags)						0.00
						Total (	in nos.)		0.00
tem No. 5 C	onstruct	ion of gran	ular sub-base by p	roviding well	graded ma				
u	niform la	yers with t	ractor mounted gra	ader arranger	nent on pre	epared surfa	ace, mixing		
by	y mix in	place meth	nod with rotavator	at OMC, and	compactin	g with smoo	oth wheel		
rc	oller to a	chieve the	desired density, c	omplete as p	er Technic	al Specifica	tion Clause		
					4	30	3.75	0.150	67.5000
					3	30	3.75	0.150	50.6250
		-			8	25	3.00	0.150	90.0000
					5	25	3.00	0.150	45.0000
					+	30	3.75	0.150	84.3750
Item No. 6 P	) e a , ; ; d !	and Lauta	- Deinferend Or-	nt Conserts	Dina ND2	00 000 300		otal (Cum)	337.500
1	_	and Layin 0mm Dia).	g Reinforced Ceme	ent Concrete	ripe NP3	as per desig	ın ın Sıngle		
Ch.0.00km					4	0	2.5	T	0.00
							T	otal (in m)	0.00

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Executive Engineer
Rural Jorks Department
Work Division, Trivenigani

### Estimate of Flood affected Road

NAME OF ROAD :-

# NEAR HOUSE OF BISWANATH THAKUR TO BRAHMAN TOLA PRATAPGANJ PRIYAHI ROAD LALGANJ

BLOCK :-

**CHHATAPUR** 

5.No	SOR NO	DESRIPTION 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 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.	337.500	Cum	3010.64	1016091.00
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.	1016091.00

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Executive Engineer
Rural Jorks Department
Work Division, Trivenigani

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## Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM NEAR HOUSE OF NAME OF ROAD :- BISWANATH THAKUR TO BRAHMAN TOLA PRATAPGANJ PRIYAHI ROAD LALGANJ

12.3 Technical Specification Sand Technical Specification Sand Providing A 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.  Brick Bats Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing, specification and direction of EI7 Mr(ype A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3, weight of bags 420g volume of filled bag 0.07m3, weight of filed 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 idrection of EI7 (including Carriage of Local sand lead 0.5 km)  Sand 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 2.36 mm below @ 30 percent (coarse Sand Screening) Cost for 300 cum = a Rate per Cum = (a)/300 Richards Argunut Seichingrage Fees @10% of Rasic Amount	CNO T	SOR NO	DESRIPTION OF ITEMS	QTY	UNIT	Th	
Sand   Sand   Providing & laying Brick Bat   D. 00   Cum   116.85   D. 00	S.No	12.3	Salid initing in Foundation Trenches as per Drawing 8	VII	UNIT	RATE	AMOUNT
AR Providing A laying Brick Bat	11		reclinical Specification				
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.  Brick Bats Labour filling empty cement bags with local sand, stitching the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing.  Sand  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 E7 (including Carriage of Local sand lead 0.5 km)  Sand  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 rotavotr 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 9.5 mm @ 50 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  108.00 Cum 411.33 29615.76  2.36 mm below @ 30 percent (coarse Sand Screening)  59.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  For Grading II Material (with Coarse Sand Screening)  Cost for 300 cum = a  Rate per Cum = (a)/300  Rate per Cum = (a)/300  Rate per Cum = (a)/300  Rate Scientification and direction of E7 (and the percent and		A/R		0.00	Cum	116.85	0.00
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 Labour filling empty cement bags with loocal sand, sticking the bags and placing including supply of sutti and EC bag etc. all complete as per approved desing, specification and direction of E/I Sand  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 sticking in four lines by approved nylon thread with sticking 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  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  35 mm to 9.5 mm @ 50 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate per Cum = (a)/300  Ratio Amount = (a)/300	2/2	7010				110.00	0.00
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 Labour filling empty cement bags with loocal sand, sticking the bags and placing including supply of sutti and EC bag etc. all complete as per approved desing, specification and direction of E/I Sand  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 sticking in four lines by approved nylon thread with sticking 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  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  35 mm to 9.5 mm @ 50 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate per Cum = (a)/300  Ratio Amount = (a)/300			Providing and laying of Brick bat obtained from				
Brick Bats Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutiliar and EC bag etc. all complete as per approved desing, specification and direction of E/I  Sand 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)  Sand 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 18.0.0 Cum 516.42 92955.60 9.5 mm to 2.36 mm @ 20 percent 72.00 Cum 411.33 29615.76 2.38 mm below @ 30 percent (coarse Sand Screening) Cost for 300 cum = a Rate per Cum = (a)/300 Cum 475.51 160484.49 Seigniorage Fees @10% of Rasic Amount			chimney with machenical means with all appeals				
Brick Bats Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing, specification and direction of E/I  Sand 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 statching 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 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  55 mm to 9.5 mm @ 50 percent 180.00 Cum 516.42 92955.60 9.5 mm to 9.5 mm @ 50 percent 2.36 mm below @ 30 percent (coarse Sand Screening) Cost for 300 cum = a Rate per Cum = (a)/300 Cum 475.51 160484.49 Seigniorage Fees @10% of Rasic Amount			Igrauling to required slope and compacted at ONE.				
Brick Bats Labour filling empty cement bags with local sand, stricting the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing, specification and direction of E/I  Sand  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)  Sand  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 totavator 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 9.5 mm @ 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)  Cost for 300 cum = a  Rate psr Cum = (a)/300 Cum 475.51 160484.49  Seignigrage Fees @ 10% of Basic Appoint			active required density with all complete as por the				
S. 1.40			direction of engineer in charge.				
S. 1.40	-		Brick Bats				
57.40.1    Sand	-		Labour filling empty cement bags with to	0.00	Cum	1032.00	0.00
Secification and direction of E/I  Sand  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)  Sand  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Seigniorage Fees @10% of Basic Amount		5 7 40 1					
Sand	3/1	3.1.13.1	Tana 20 bag bic, dil Complete as por approved				
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)  Sand  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Note that the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-			The second and an ection of E/I				
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 are provided by the call 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  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Rate per Cum = (a)/300  Gen 475.51  GSB Gr-II  Seigniorage Fees @10% of Rasic Amount	$\longrightarrow$			0.00	Cum	116.85	0.00
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)  Sand  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Rate psr Cum = (a)/300  Cum  471.53  GSB Gr-II  Seigniorage Fees @10% of Rasic Amount  Volume 1 TOTAL  160484.49  Seigniorage Fees @10% of Rasic Amount			Providing, laying and filling Geo bags of size 1m X n 7		Juli	110.03	0.00
126 Kg with local sand including stitching in four lines by approved nylon thread with stuching 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  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 rolavator 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  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)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum 475.51  160484.49  Seigniorage Fees @10% of Rasir Amount							
approved nylon thread with 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/ (including Carriage of Local sand lead 0.5 km)  Sand  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)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum 475.51  160484.49  Seigniorage Fees @10% of Basic Amount							
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  Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, 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  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  Vonce II 16.85  0.00  Cum 116.85  0.00  Cum 475.51  160484.49  Seigniorage Fees @10% of Basic Amount	48	5.7.40.2					
Complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)   Sand   O.00   Cum   116.85   O.00	10						
Sand  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  0.00 Cum 116.85  0.00  Cum 116.85  0.00  Cum 116.85  0.00  Cum 475.51  160484.49			and carriage with help of trollow within 452				
Sand  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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  TOTAL 160484.49			Toompicte do bel Specifications and disasting to				
Sand			(including Carriage of Local sand lead 0.5 km)				
401 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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  108.00 Cum 185.94 20081.52  Cost for 300 cum = a  Rate psr Cum = (a)/300  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  Total 160484.49			Sand				
401 With a 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  2.36 mm below @ 30 percent (coarse Sand Screening)  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Ratio proper a sub-fastic Amount  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  To MC, and compacting aurinitorate surface, mixing layers with tractor mounteracter.  To MC, and compacting with sub-face, mixing layers at the coarse sub-face, and compacting with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired during a per Technical Specification Clause 401.  For Grading II Material (with Coarse Sand Screening)  Unit = Cum  Taking output = 300 cum  Taking output = 300 cum  To M. Seigniorage Fees @10% of Basic Amount  To TAL 160484.49			Construction of granular sub-base by providing well	0.00	Cum	116.85	0.00
401			Igraded material, Spreading in uniform layors with treat-				
Titiking by rhix 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  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  TOTAL 160484.49	5/0	404	intoditied grader arrandement on prepared curface				
### desired density, complete as per Technical Specification Clause 401.    For Grading II Material (with Coarse Sand Screening)	3/9	401	I mixing by mix in place method with rotavator, at OMC				
For Grading II Material (with Coarse Sand Screening)			Tand compacting with smooth wheel roller to achieve				
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  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)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  475.51  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  TOTAL  160484.49	,		Specification Clause 401				
Unit = Cum  Taking output = 300 cum  Coarse graded granular sub-base material as per Table 400.2  53 mm to 9.5mm @ 50 percent  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  475.51  GSB Gr-II  Seigniorage Fees @10% of Basic Amount  TOTAL  160484.49  TOTAL  160484.49							
Taking output = 300 cum  Coarse graded granular sub-base material as per Table 400.2  53 mm to 9.5mm @ 50 percent  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)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  475.51  GSB Gr-II  Seigniorage Fees @10% of Basic Amount							
Coarse graded granular sub-base material as per Table 400.2  53 mm to 9.5mm @ 50 percent  9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  185.94  20081.52  Cum  475.51  GSB Gr-II  Seigniorage Fees @10% of Basic Amount	ja .						
Table 400.2				-			
9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  185.94  20081.52  Cum  475.51  337.50  Cum  475.51  160484.49  Seigniorage Fees @10% of Basic Amount	7		Table 400.2				
9.5 mm to 2.36 mm @ 20 percent  2.36 mm below @ 30 percent (coarse Sand Screening)  Cost for 300 cum = a  Rate psr Cum = (a)/300  Cum  185.94  20081.52  Cum  475.51  337.50  Cum  475.51  160484.49  Seigniorage Fees @10% of Basic Amount	(la)		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	02055.00
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  GSB Gr-II 160484.49  Seigniorage Fees @10% of Basic Amount	- F						
Cost for 300 cum = a 142652.88  Rate psr Cum = (a)/300 Cum 475.51  GSB Gr-II 160484.49  Seigniorage Fees @10% of Basic Amount	Š.			_	<del></del>		
GSB Gr-II Cum 475.51  GSB Gr-II 160484.49  Seigniorage Fees @10% of Basic Amount 70TAL 160484.49			Cost for 300 cum = a	1.20.00	Juni	103.94	
337.50 Cum 475.51 160484.49   160484.49     TOTAL 160484.49			Rate psr Cum = (a)/300		Cum		
GSB Gr-II				337 50	_	A7E E4	
160484.49   Seigniorage Fees @10% of Basic Amount   160484.49			GSB Gr-II	307.30	Culli	4/5.51	
Seigniorage Fees @10% of Basic Amount				+	-	TOTAL	
			Seigniorage Fees @10% of Basic Amount	1	+	Say	160484.49 16048.45

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Executive Engineer
Rural Jorks Department Work Division, Trivenigani