

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

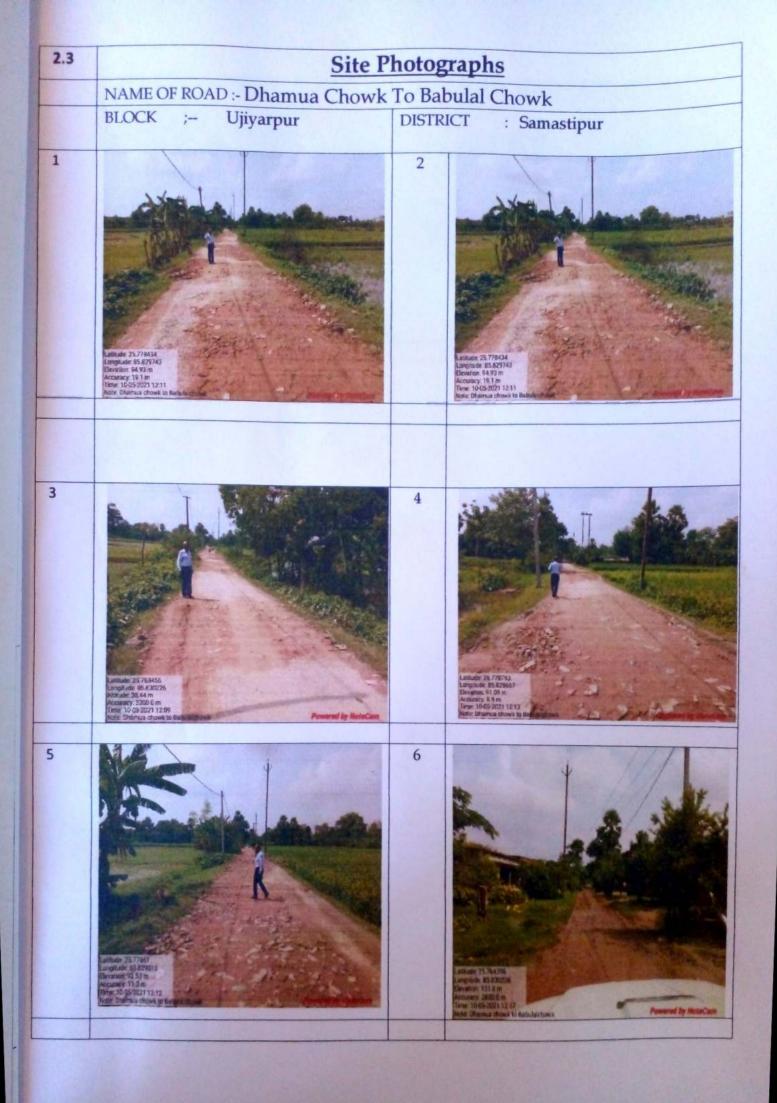
2021-22

FLOOD DAMAGED REPORT



Maheshpatti Babulal Chowk To Dhamua Road Under Ujiyarpur

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Ujiarpur	
TOTAL LENGTH OF ROAD	:-	3.400	км
TOTAL COST OF SURFACE RENEUAL	:-	16.184	Lac
TOTAL COST OF PROJECT	:-	16.184	Lac
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FLOOD DAMAGED REPORT

GENERAL ABSTRACT OF COST

Block:-

<u>Ujiarpur</u>

District:- Samastipur

Length of Road:--

3.400 KM

Name of Road:--

Maheshpatti Babulal Chowk To Dhamua Road Under Ujiyarpur

SL. No	. Item of Work		Amount
A	TOTAL COST OF CONSTRUCTION	:	16.184 Lacs
	TOTAL		16.184 Lacs

Junior Engineer

Asstt. Engineer

Executive Engineer

SE RWD

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD:

Maheshpatti Babulal Chowk To Dhamua Road Under Ujiyarpur

DISTRICT BLOCK DIVISION

Samastipur Ujiarpur Dalsingh Sarai 3.400

LENGTH OF ROAD (in Km)

SI. No.	DESCRIPTION		Amount	1 % Labour Cess	12 % GST	1% Labour Cess & 12% GST AMOUNT (LAKHS)
PART-A	INITIAL RECTIFI	CATION INCLUDING SURFACE RENEWAL				
1	Brick Bats		14.322	0.143	1.719	16.184
2	Embankment		0.000	0.000	0.000	0.000
3	GSB		0.000	0.000	0.000	0.000
4	RCC pipe NP-3		0.000	0.000	0.000	0.000
	SUB TOTAL OF SURFAC	E RENEWAL	14.322	0.143	1.719	16.184
	9	TOTAL COST OF PROJECT IN LACS =	14.322	0.143	1.719	16.184

JE RWD

EE RWD

AMOUNT																																				
QUANTITY RATE		ceeding 75 mm ecification and	10.50	10.80	3.75	21.00	11.25	10.50	7.43	15.75	8.40	12.60	16.88	2.70	8.00	15.75	15.75	15.75	2.16	3.60	21.00	4.05	4.13	16.88	21.00	2.10	0.45	31.50	6.30	0.30	4.86	3.15	15.20	3.50	2.80	4.80
HEIGHT		layers not ex ob as per spe	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.2
WIDTH		. Hammer in cot.plete jo	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
HENGLIH		ting with C.I	3.50	3.00	2.50	3.50	2.50	3.50	2.75	3.50	3.50	2.10	3.75	1.80	2.00	3.50	3.50	3.50	1.80	2.00	3.50	1.50	2.50	3.75	3.50	2.00	1.50	3.50	2.10	1.00	1.80	1.50	4.00	3.50	2.00	2.00
SON		and compacidar,taxes,rc	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	x	×	×	x	×	×	×	×	×	×	×	×	×	×	×	×
Control of the Contro		eading laying hand packing iers, danger signals,chowk cost of bricks.	20	18	10	30	30	15	18	30	12	30	30	10	20	30	30	30	8	12	30	18	11	30	30	7	2	09	20	2	18	14	19	2	7	12
Description	301.4 Brick Bats	Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royality etcall complete job as per specification and direction of E/I including carriage cost of bricks.																																		
ST.NO Ref.No	301.4																																	+	1	+
N. T	3.2																																			

(in Re.)																															14,32,237.00	
RATE																															1,868.70	
QUANTITY	2.40	1.80	2.70	1.20	1.44	7.13	16.88	3.68	1.50	2.97	1.62	1.62	66.0	3.60	1.13	1.88	3.68	4.20	63.00	3.15	1.50	1.80	7.88	2.25	5.40	2.03	3.60	101.25	76.50	103.13	766.44	
HEIGHT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	9.0	9.0	0.8		
WIDTH	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		
LENGTH	3.00	3.00	3.30	2.00	1.20	2.50	3.75	3.50	2.00	06.0	09'0	1.20	09.0	2.00	3.75	2.50	3.50	3.50	3.50	3.00	2.00	3.00	3.50	1.50	3.00	1.50	2.00	4.50	4.25	5.50		
NOS	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		
Unit	4	3	9	4	8	19	30	7	S	22	18	6	==	12	2	S	7	8	06	7	2	4	15	10	12	6	12	30	30	22		
io Description																																
SL.NO Ref.No																																





Quarry Map

Name of Road :-- Maheshpatti Babulal Chowk To Dhamua Road Under Ujiyarpur

Block

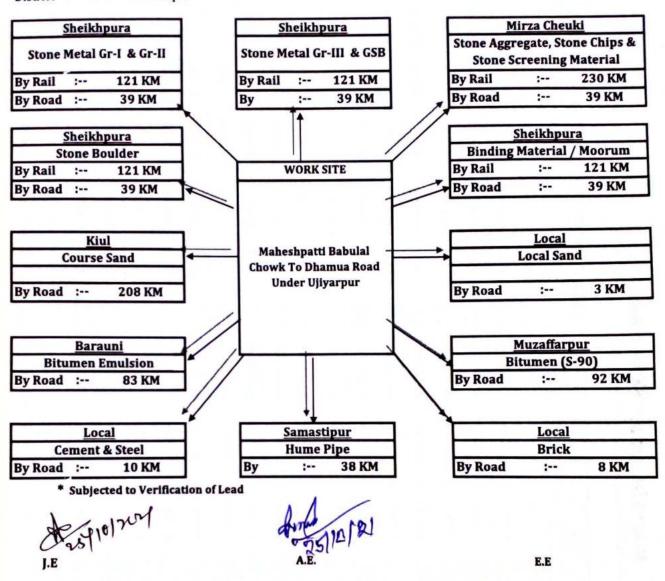
:-- Ujiarpur

District

:-- Samastipur

Length of the Road:-

3.400 KM



Name of Road:--District:-

Analysis for Carriage by Road & Rail
Maheshpatti Babulal Chowk To Dhamua Road Under Ujiyarpur
Samastipur Block:- Ujiarpur

100	THE RESERVE THE PARTY OF THE PA	200	lasupui	Contract of the last of the la	ASSESSMENT OF THE PARTY.	Carriage Cost	& Lead in)	Cm	ANGES H		Loading &	Carriage	(S) (E) (E)	Total
51	No Item with Source	Un	it Source Up to	-	ucka / Surface	•			Katcha		Unloading	Cost by Raff	Total	Minimum
	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cur	n Sheikhpura	8.00 x 10.10	x 39.00 Kr	n = Rs 686.54	4.59	x 24.30	x 0.00 Km	= Rs 0.00	105.12	1025.87	Rs. 1817.53	Rs. 1817.53
1	Stone Metal Gr-I & Gr-II	Cun	n Sheikhpura	8.00 x 7.94	x 138,00 K	m = Rs 1909.7	8.00 4.59	x 19.22	x 0.00 Km	= Rs 0.00	210.19		Rs. 2119.94	
2	Stone Metal Gr-III (Sheikhpur by Rail 121 Km)	Сил	Sheikhpura	8.00 x 10.10	x 39.00 Km	n = Rs 631.50	4.99	x 24.30	x 0.00 Km	= Rs 0.00	105.12	1128.34	Rs. 1864.96	Rs. 1864.9
Z	Stone Metal Gr-III	Cum	Sheikhpura	8.00 x 7.94	x 138.00 K	m = Rs 1756.6	4.99	x 19.22	x 0.00 Km	= Rs 0.00	210.19	1128.34	Rs. 3095.20	N. Controller
3	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00 4.99 x 10.10	x 39.00 Kn	n = Rs 631.50	4.99	x 24.30	x 0.00 Km	= Rs 0.00	105.12	1588.15	Rs. 2324.77	Rs. 2324
3	Stone Aggregate / Chips	Cum	Sheikhpura	8.00 x 7.94	x 138.00 Kr	m = Rs 1756.6	7 <u>8.00</u> 4.99	x 19.22	x 0.00 Km	= Rs 0.00	210.19	1588.15	Rs. 3555.0	ľ
	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10	x 39.00 Km	= Rs 656.50	4.80	x 24.30	x 0.00 Km	= Rs 0.00	105.12	1159.81	Rs. 1921.4	3 Rs. 192
, ,	Stone Boulder	Cum	Sheikhpura	8.00 x 7.94	x 138.00 Kr	n = Rs 1826.20	4.80	x 19.22	x 0.00 Km	= Rs 0.00	210.19	1159.81	Rs. 3196.	10
1	Course Sand	Cum	Kiul	8.00 x 7.94	x 208.00 Kr	n = Rs 2647.73	8.00	x 19.22	x 0.00 Km	= Rs 0.00	113.67	100	Rs. 2761	40 Rs. 27
	Binding Material/Moorum Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10	x 39.00 Km	= Rs 525.20	6.00	x 24.30	x 0.00 Km	= Rs 0.00	113.67	851.49	Rs. 1490	.36 Rs. 1
-	inding Material/Moorum	Cum	Sheikhpura		x 138.00 Kn	n = Rs 1460.96	8.00	x 19.22	x 0.00 Km	= Rs 0.00	66.31	851.49	Rs. 2376	.76
L	ocal Sand	Cum	Local	0.00	x 2.00 Km	= Rs 32.38	8.00 4.99	x 24.30	x 1.00 Km	= Rs 38.96	113.6	7	Rs. 18	.01 Rs.
Br	ick	1000 Nos	Local	8.00 x 7.94	x 7.00 Km	= Rs 222.32	2.00	x 19.22	x 1.00 Km	= Rs 76.88	477.44	4	Rs. 776	.64 Rs.
Ce	ment	мт	Local	8.00 x 7.94	x 10.00 Km	= Rs 79.40	8.00	x 19.22	x 0.00 Km	= Rs 0.00	347.32	2	Rs. 426	.72 Rs.
Ste	rel	мт	Local	0.00	x 10.00 Km	= Rs 79.40	8.00	x 19.22	0.00 Km	= Rs 0.00	370.58	1	Rs. 449	98 Rs.
Bit	tumen Emulsion	мт	Barauni	0.00	x 83.00 Km	= Rs 659.02	8.00	x 19.22	x 0.00 Km	= Rs 0.00	396.98		Rs. 1056,	00 Rs. 10
Bi	tumen	мт	Muzaffarpur	0.00	x 92.00 Km	= Rs 730.48	8.00	x 19.22	x 0.00 Km	= Rs 0.00	396.98		Rs. 1127.4	6 Rs. 112
H	ume Pipe (1000 mm)	m	Samastipur	8.00 x 7.94	x 38.00 Km	= Rs 241.38	8.00	x 19.22	x 0.00 Km	= Rs 0.00	70.84		Rs. 312.22	100000000000000000000000000000000000000
1	Hume Pipe (600 mm)	m	Samastipur	8.00 x 7.94	x 38.00 Km	= Rs 96.55	25.00			= Rs 0.00	30.36		Rs. 126.91	Rs 126.5
5	Hume Pipe (300 mm)	m	Samastipur	8.00 × 7.94	x 38.00 Km	= Rs 40.23	60 00	19.22	0.00 Km -	R: 0.00	30.36		FURM FO	A. Justy

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	7.94
Unsurface Gravel Road	12.10	9.55
Kachha Road	24.30	19.22

EE RWD

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead	in k	(m					Loading &		Total
Pucka / Surface			Katch	a			Unloading		
x 10.10 x 4.00 Km = Rs 70.41 + 8.00 4.59	- x	24.30	x	0.00 Km	= Rs 0.00	+	Rs 105.12	=	Rs 175.5
UnSurface 8.00 4.59	- х	12.10	x	1.00 Km				=	Rs 21.
Loading & Unloading Cost by manual	=					=	Rs 210.19 Total	<u>-</u>	Rs 210.
Less for O.H & C.P = Rs 406.81 / 1.166	0000	THE REAL PROPERTY.		Rs 348.89		200	Total "A"		Rs 348.
1	III III	BOIL NAMES AND	O'STA	113 340.03	SEARCH SHEET		IUIAI A	1000	NS SAGN
ikhpura Railway Yard to Karpurigram	Ra	ilway Yar	d =	121.00 Km					
Railway freight charge from Sheikhpura Railway									
station to Karpurigram Railway station	=	For 1 MT		121.00 Km	1	=	Rs 231.30	=	Rs 231
Busy Seasion charge 15% of Railway freight charge	=		For 1	мт		=	15%	=	Rs 34
Railway Development Charge to 5% of Railway freight									
Charge			For 1	МТ		=	5%	=	Rs 11
Terminal charge @Rs.40.00 per Terminal per MT			For 1	МТ		x	Rs 40.00	=	Rs 0
GST 0 % "(4% included in Overhead Charges) = Rs 277.57	x	0%						=	Rs 0
Total	=			For 1 MT				=	Rs 277
Rail Fright = 1.743 x Rs 277.57	100	1000		For 1 MT	are to the l	THE C	"B"	=	Rs 483
Gross Cost for Railway freight charge "A" + "B"	33	The state of	For 1	MT		100			Rs 832
		Ad	d 12%	Overhead (Charge	=	12%	=	Rs 99
		Ad	d 10%	Contractor	Profit	=	10%	=	Rs 93
Carriage Cost from Quarry to Karpurigram Railway Ya	ard	STATE OF THE PARTY OF	For	1 Cum	NAME OF TAXABLE PARTY.	Maria		=	Rs 1025

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-III / GSB

Juarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface	Cost & Lead in Km	Katcha			Loading & Unloading	Tota	d
8.00 x 10.10 x 4.00 Km = Rs 64.77	8.00 4.99	24.30 x	0.00 Km	= Rs 0.00	+ Rs 105.12	= Rs 16	69.89
UnSurface	8.00 x	12.10 x	1.00 Km			= Rs	19.40
Loading & Unloading Cost by manual					= Rs 210.19	= Rs 2	10.19
					Total	= Rs 3	99.48
Less for D.H & C.P = Rs 399.48	1.166		Rs 342.61		Total "A"	= Rs 34	42.61

heikhpura Railway Yard to Karpurigram		ailway Yard = 121.00 Km					
Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station		For 1 MT 121.00 Km			Rs 231.30		Rs 231.3
Busy Seasion charge 15% of Railway freight charge		For 1 MT			15%		Rs 34.7
Rallway Development Charge to 5% of Railway freight Charge		For 1 MT			5%		Rs 11.5
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2	×	Rs 40.00	•	Rs 80.0
GST 0 % "(4% included in Overhead Charges) = Rs 357.57	7 x	0%				•	Rs 0.0
Total		For 1 MT					Rs 357.5
Rail Fright = 1.603 x Rs 357.57		For 1 MT	770	101	"B"		Rs 573.2
Gross Cost for Railway freight charge "A" + "B"	G)	For 1 MT	E/s	63	A SHEET	-	R# 915.6
		Add 12% Overhead Charge			12%		Rs 109.9
		Add 10% Contractor Profit			10%		Rs 102.5
Carriage Cost from Quarry to Karpurigram Railway	www.hon	For 1 Cum	-	-	WELL BOOK OF THE PARTY OF THE P		Rs 1128.3

Analysis for Carrige Through Railway from Quarry Site to Work Site

Mirza Chowki to Karpurigram

Material -Stone Aggregate / Chips

Quarry Site to Mirza Chowki Railway Yard (By Road)

Pucka / Su	rface	Carria	ge Cost & Le	ad in K		Catcha	ALL STATES			Loading & Unloading	The second	Total
0 9 x 10.10 x 4.00	Km =	Rs 64.77	+ 8.00		24.30	x	0.00 Km	= Rs 0.00	+	Rs 105.12	•	Rs 169.
Uni	urface	walls.	8.00	— ×	12.10	x	1.00 Km				=	Rs 19.
Loading & Unloadin	g Cost b	y manual		=					=	Rs 210.19	=	Rs 210.
										Total	-	Rs 399.
Less for O.H & C.P		Rs 399.48	/ 1.166	No. of	CHARLES	}- 9:	Rs 342.61	State of the	Town	Total "A"	04	Rs 342.
za Chowki Railway				Rail	lway Yard	= 2	230.00 Km					
Railway freight char station to Karpurigr			ki Railway	=	For 1 MT		230.00 Kr	n		Rs 425.30	=	Rs 425.
Busy Seasion charge	15% of	Railway frei	ght charge	=		For 1 N	ſΤ		=	15%	=	Rs 63
Railway Developme Charge	nt Charg	e to 5% of R	ailway freigh	t		For 1 N	/IT		=	5%	-	Rs 21.
Terminal charge @R	s.40.00 p	oer Terminal	per MT			For 1 N	I T	2	x	Rs 40.00	=	Rs 80.
GST 0 % "(4% included	in Overh	ead Charges)	= Rs 590.3	37 x	0%						=	Rs 0.
	Total			=			For 1 MT				-	Rs 590.
Rail Fright =		1.603	x Rs 590.3	7			For 1 MT			B		Rs 946.
Gross Cost for Railwa	y freigh	charge 'A"	W BI		17.75	terri l			L			Re 1289
					Add	12%	Overhead	Charge	=	12%		Rs 154.

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram Material -Stone Boulder

Total	GST 0 % *(4% included in Overhead Charges) = Rs 357.57 x	Terminal charge @Rs.40.00 per Terminal per MT	Railway Development Charge to 5% of Railway freight Charge	Busy Seasion charge 15% of Railway freight charge =	Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station = F	ay Yard to Karpurigram	Less for O.H & C.P = Rs 402.81 / 1.166	UnSurface Loading & Unloading Cost by manual	Pucks / Surface 8.00 x 8.00 x 10.10 x 4.00 Km = Rs 67.33 + 4.80 x	Quarry Site to Sheikinpura come Carriage Cost & Lead in Kim
For 1 MT	0%	For 1 MT 2	For 1 MT	For 1 MT	For 1 MT 121.00 Km	Railway Yard = 121.00 Km	= Rs 345.46	12.10 × 1.00 Km	24,30 x 0.00 Km = Rs 0.00	Katcha
·9· .		x Rs 40.00 =	= 596 =	= 15% =	= Rs 231.30 =		Total A.	= Rs 210.19 =	+ Rs 105.12 a	Unidending &

Add 12% Overhead Charge Add 10% Contractor Profit 12% = 10% =

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Binding Material /Moorum

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ess for O.H.	oading & Ur			10.10 ×	Puck
& C.P	Loading & Unioading Cost by manual	UnSurface		4.00 Km	Pucka / Surface
= Rs 249	t by manual			8.00 x 10.10 x 4.00 Km = Rs 53.87	Carri
1 86		1	6.00		Carriage Cost & Lead in Km
1166	0.00	8.00	6.00	8.00	Lead in
	"	× 12	x 24.		K
		12.10	24.30 ×	6	
	T.OO.AM	100.6	0.00 Km = Rs 0.00 + Rs 60.5	na	
			= Rs 0.00	Distriction and	
	11		+		9.5
Total	= Rs 113.67 *		S 00.3	1631	Landing A

Rs 77.41	*	10%	n	nt.	Add 10% Contractor Profit	A		
Rs 82.94	n	12%	18	28	Add 12% Overhead Charge	Ac		
The said					For a William			larger Children Sallieney Freight charge "A" + "B"
Ra 476.71					For 1 MT			Rall Fright = 1.333 x Rs 357.57
Rs 357.57	"				For 1 MT		ш	Total
Rs 0.00	"					0%	×	GST 0 % *(4% Included in Overhead Charges) = Rs 357.57 x
Rs 80.00		Rs 40.00	*	2	For 1 MT			Terminal charge @Rs. 40.00 per Terminal per MT
Rs 11.57		5*			For 1 MT			Railway Development Charge to 5% of Railway freight Charge
Rs 34.70	**	15%	"		For 1 MT		11	Busy Seasion charge 15% of Railway freight charge
Rs 231.30	11	Bs 231.30			121.00 Km	For 1 MT		Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station
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DESCRIPTION

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	9	(E)	C
		Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = Lkm Taking output 10 t load and lead 10 km = 100 t.km Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overhead @ 12% Contractor's grofit @ 10% on (a+b) Cost for 100 t-km = a+b+c Cost for 100 t-km = a+b+c Cost for 100 t-km = a+b+c Cost for 100 t-km = (a+b+c) / 100	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = Lkm Taking output 10 t load and lead 10 km = 100 km Case-1. Surfaced Road Speed with load: 25 km per hour Speed with load: 25 km per hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100 Rate Per Km.
hour hour	Cum	hour	hour
		0.50	0.40
1.00 1183.00 0.67 1183.00		0 118300	1183,00 1183,00
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The second secon	1.10	1.10
1.1 1.0			-
RCD Loa agg Plan (Unit 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	e) SS CC Table 18		
Bimby return rtp Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100 Loading and Unloading of Stone Boulder/Stone Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and Unit = cum Triking output = 5.5 cum Trime required for 1) Positioning of tipper at loading point 1) Positioning of tipper at loading point 1) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour 11) Maneuvering, reversing, dumping and turning for return 10) Waiting time, unforesseen contingencies etc	naulage of materials by tipper excluding cost of loading, unloading unit = t.km Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-II: Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed with load: 10 km per hour Machinery Truck 10 t capacity Haulage with load	Haulage excluding Loading & Unloading Haulage of materials by lipper excluding cost of loading unloading and stacking. Unit = Lkm Taking output 10 t load and lead 10 km = 100 t km Case-It 'Unsurfaced Gravel Road. Speed with load: 20 km/hour Machinery Truck 10 t capacity Haulage with load Empty return trip: 30 km/hour Bullage with load Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = [a+b+c] / 100 Rate per cum = [a+b+c] / 100	Haulage excluding Loading & Unloading and stacking. Haulage of materials by tipper excluding cost of loading unloading unit taken that it is the cost of loading unloading unit = 1.00 tm Taking output 10 t load and lead 10 km = 100 tm Case-1 : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 tkm = a+b+c Rate per cum = (a+b+c) / 100
cum		hour	
I Min		0.50	Quantity 0.40 0.29
934.30		93430	934.30 934.30
934.30 625.29 187.23 174.75 1922.27 19.22 19.22		7.94 467115 30832 93.06 86.85 9553 9.55	373.72 270.95 77.36 77.20 79.42

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Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate,	Overheads @ 12% Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5	Machinery Truck	Labour Mate	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means Including a lead upto 30 m. Unit = cum	Rate per cum = (a+b+c+d) /5.5 Total Cost	Cost for 5.5 cum = a+b+c+d	Truck Overheads @ 12% Contractor's profit @ 10% on [a+b+c]	Machinery	our Circlellad	Taking output = 5.5 cum	Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m	Rate per (onnes = [a+b+c+u]/10	d) Contractor's profit @ 10% on (a+b+c) Cost for 10 tonnes = a+b+c+d	Truck 10 tonne capacity Overheads @ 12%	Mazdoor for loading and unloading b) Machinery	Labour	Loading and Unloading of Cement of Steel by Manual Picalis and Unit = tonne Taking output = 10 tonnes	Unloading will be by apping.	Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d)/5.5	Tipper 5.5 conne capacity Overheads @ 12% Overheads @ 10% on [a+b+c]	Machinery	Mate Mazdoor for loading and unloading	Taking output = 5.5 cum a) Labour	Loading and Unloading of Boulders by Manual Picers Unit = cum	Rate per cum = (a+b+c)/5.5 Unioading will be by tipping.	c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c	Tipper 5.5 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour Overheads @ 12%
ggregate, Cum		day	day		Cost Cum		100	half (day		nual	er e		Thori	day	day		No. of the last of			hour	day	day		The same of	-	nour
The state of the s								5	0.0			No. of the last		200-2	20	0.08		The same of			0.75	0.75	011		0.000		4.00
	9.23		-0.					3	0.02 321.00 0.50 304.00							-0000					1183.00		321.00		200		
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	٠.	ے د	E	<u>B</u>	3		8	ල ල	9	:	<u>a</u>	3	3			ي و	. 5		<u>.</u>	3		100		و و		:	<u>.</u>
	Contractor's profit @ 10% on (a+b+c) Cost for 2000 Nos. = a+b+c+d Rate for 1000 bricks = (a+b+c+d)/2 Total Cost no. Total Cost no.	Truck Overheads @ 12%	Mazdoor (Unskilled) Mazdoor (Unskilled)		unioauni and siacking of bricks by manual means including a lead upto 30 m Unit = 1000 Nos.	Total Cost	Cost for 2000 Nos. = a+b+c+d Rate for 1000 bricks = (a+b+c+d)/2	Overheads @ 12% Contractor's profit @ 10% on (a+h+r)	Machinery	Mazdoor (Unskilled)	Taking output = 2000 Nos. Labour Mate	Loading of Bricks by manual means including a lead upto 30 m. Unit = 1000 Nos.	Loading. Unloading and Stacking of Bricks by Manual Means	Total Loding & Unloading of Sand / Moorum	Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5	Overheads @ 12% Contractor's profit @ 10% on (a+b+c)	Mazdoor (Unskilled) Machinery Truck	Mate	ont = cm Taking output = 5.5 cum Labour	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.	waing a Unloading of Stone Aggregate	fotal Coding a 12-12-22	Cost for 5.5 cum = a+b+c+d Rate per cum = fa-b+c+d	Overheads @ 12% Contractor's profit @ 10% cm /	Machinery	Mate Mazdoor (Unskilled)	Taking output = 5.5 cum
	no. er 1000	hour	day	•		no.			hour	day			1	Cum		hour	day				Cum	1		hour	day		ONE
	= 238.72 + 238.72 =	0.33	0.25			No. of Concession,			0 33	0.01			- 10.00			0.17	0.01			The second second	= 140.7			0.25	0.25		Quantit
	3	93	304			Section 1		2	934 30	321.00			# 70.Fe a 00.m			934.30	321.00				1+70.06			934.30	321.00		Page
	38.72	934.30	304.00							100			100			100	-				-			-			

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total Loding & Unloading of Steel		Loading and Union manual means Loading of Structura Loading of Structura lead upto 30 m Unit = t Taking output = 10 t Labour Mate Mazdoor (Unskilled) Machinery Trucks Overheads @ 12% Contractor's profit @ Cost for 10 t = a+b+ Rate per tonnes = (
	day day hour	day day	day day hour
=185.2	0.07 1.80 1.00	0.07 1.80	Quantity 0.06 1.50 1.00 1.00
=185.29 + 185.29 =	321.00 304.00 934.30	321.00 304.00 934.30	andity Rate 321.00 1.50 304.00 1.00 934.30 1.00 321.00 304.00 1.50 304.00 1.50 934.30
		No.	
by mechanical means including a lead me pipes	C. 600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipe a) Labour Mare Mazdoor (Unskilled) Machinery Truck Crane C) Overheads @ 12% Overheads @ 12% Cost for 21 pipes = a+b+c+d Rate per pipe = (a+b+c+d)/21 Rate per pipe = (a+b+c+d)/21	Loading and Unloading of Hume Pipes (1) Loading of RCC Hume pipes by mechanical means including a lead 1000 / 1200 mm dia Hume pipe Unit = per pipe Taking output = 9 pipes Labour Mate Mazdoor (Unskilled) Machinery Truck Crane Contractor's profit @ 10% on (a+b+c) Cost for 9 pipes = a+b+c+d Rate per pipe = (a+b+c+d)/9 Loading of RCC Hume Pipes day day hour Truck Contractor's profit @ 10% on (a+b+c) Cost for 9 pipes = a+b+c+d Rate per pipe = (a+b+c+d)/9 Tomi Cost per p	DB St. MORD 1.6 (I) Loading and Unloading of Bitumen Drums by Manual Means 30 m Unit = t Taking output = 10 t Labour Maze Maze (c) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Unit = t Taking output = 10 t Mate (ii) Unloading of Bitumen Drums by manual means including a lead upto Whit = t Taking output = 10 t Labour Mate (iii) Unloading of Bitumen Drums by Manual Means including a lead upto Unit = t Taking output = 10 t Labour Maze Maze Maze (c) Cortination's profit @ 10% on (a+b+c) Contractor's profit @ 10% on (a+b+c) Contractor's profit @ 10% on (a+b+c) Truck Cortination's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Cost for 10 t = a+b+c+d Total Cost The rate is inclusive of the self-weight of drum Total Cost Total Cost Total Cost Total Cost Total Cost Total Cost
pacp		99 99	F F2 F F2
DAT D	0.02 0.50 0.33 0.33	0.02 0.50 0.33 93	1.25 93 1.25 93 1.25 93
PRED		0.02 321.00 0.50 304.00 0.33 934.30 0.33 909.00	1.50 321.00 19.26 1.60 321.00 486.40 1.25 934.30 1167.88 1.25 934.30 200.87 187.44 206.18 706.18 706.18 125 934.30 1167.88 1120 304.00 364.80 1.25 934.30 1167.88 1190.80 1290.80 190.80 190.80 190.80

Analysis of Rates (FORMAT F8)

			A SHARE WATER TO THE TAX A SHARE WATER TO THE	Unit	Quantity	Rate
	DB SL	MORD	DESCRIPTION	The same		
500 M	A COLUMN TWO IS NOT THE OWNER.	Ref No.	THE WINDS NOW AND THE PROPERTY OF THE PARTY	day	0.02	321.00
	No.	a)	Labour	day	0.50	304.00
- 1		aj	Mate	uay		
1			Mazdoor (Unskilled)	hour	0.20	934.30
1		b)	Machinery	and the second	0.20	909.00
- 1		, ,	Truck	hour	1	
1		1	Crane			1
		(c)			V	
		(d)	Contractor's profit @ 10% on (a			
			I - c - O -inor = 3+D+C+U	The second second	manufacture of the second	1012406 F10136
	1	1	Total Cost	регр	- 104.9	5 + 72.15 =
8	No. of Contract of		ting & Unloading of RCC Hume Pipe	per Pipe	- 177	1 / 2.50 =
	State of		Total Loding & Unloading of RCC Hume Pipe Total Loding & Unloading of RCC Hume Pipe	m	= 1///	1 2100-
560	NA SANA	E POSSIBILITY	Total Loding & Union			1 3
25	O Company	C.	600/450 mm dia Hume pipe		1	
23			linit - per pipe			
	1	- 1	Taking output = 21 pipes			321.00
		a)	Labour	day	0.02	304.00
	1	1	Mate	day	0.50	304.00
	1	1	Mazdoor (Unskilled)	3.65	1	00400
		b)	Machinery	hour	0.20	934.30
		1	Truck	hour	0.20	909.00
			Crane			1
		(c)	Overheads @ 12%			1
		ď	Contractor's profit @ 10% on (a+b+c)	1	1	1
4				1	1	
1	1	1	Cost for 21 pipes = a+b+c+d			
			Rate per pipe = $(a+b+c+a)/21$ Total Cos	per		
			Rate per pipe = (a+b+c+d)/21 Total Cos Total Loding & Unloading of RCC Hume Pip	per per Pi	ne = 44.9	8 + 30.92 =
			Rate per pipe = (a+b+c+d)/21 Total Cos Total Loding & Unloading of RCC Hume Pip	per per Pl	ne = 44.9	8 + 30.92 = 9 / 2.50 =
			Rate per pipe = (a+b+c+d)/21 Total Cos Total Loding & Unloading of RCC Hume Pipe Total Loding & Unloading of RCC Hume Pipe	m m	e = 44.9 = 75	9 / 2.50 =
	8.	D SOR 1.3.2 (iii)	Rate per pipe = (a+b+c+d)/21 Total Loding & Unloading of RCC Hume Pipe Total Loding & Unloading of RCC Hume Pipe Providing brick bats including spreading laying hand packing and com 75 mm thick including cost of light barriers, danger signals, chow specification and direction of E/I including carriage cost of bricks. Unit = cum Assuming- 2.832 Cum Labour (Unskilled) i) Carrying, spreading, laying & Packing ii) Compaction brick bats with C.I. Hammer. iii) Brick Bat iv) Local Sand Over Heads @ 12 % on (a+b+c) C. Profit @ 10 % on (a+b+c+d) d) Cost for 2.832 cum = a+b+c+d e) Rate Per cum=(a+b+c+d)/2.8	pacting kidar,tax	e = 44.9 = 75 with C.I. Har tes,royality s 1.50 s 0.67 m 2.83	304.00 304.00 1063.0
	8.	1.3.2	Rate per pipe = (a+b+c+d)/21 Total Loding & Unloading of RCC Hume Pipe Total Loding & Unloading of RCC Hume Pipe Providing brick bats including spreading laying hand packing and com 75 mm thick including cost of light barriers, danger signals, chow specification and direction of E/I including carriage cost of bricks. Unit = cum Assuming- 2.832 Cum Labour (Unskilled) i) Carrying, spreading, laying & Packing ii) Compaction brick bats with C.I. Hammer. iii) Brick Bat iv) Local Sand Over Heads @ 12 % on (a+b+c) C. Profit @ 10 % on (a+b+c+d) d) Cost for 2.832 cum = a+b+c+d	pacting kidar,tax	e = 44.9 = 75 with C.I. Har tes,royality s 1.50 s 0.67 m 2.83 m 0.63	304.00 304.00 304.00 141.89