ग्रामीण कार्य विभाग

बिहार सरकार

Rural Works Department, Govt. of Bihar

DETAILED PROJECT REPORT FOR REPAIRING OF ROAD

F.D.R PART-A(2020-21)

DETAILED ESTIMATE FOR F.D.R. RESTORATION WORK

DISTRICT :	**BHAGALPUR**	**BLOCK :**	**KHARIK**

NAME OF ROAD :	**NH-31 To SINHKUND**

Total Length of Road	:	8.891	KMS	
Total Cost of FDR "Part –A"	:	9.295	LACS	
Add GST @ 12 %	:	1.115	LACS	
Add labour cess @ 1%	:	0.093	LACS	
Add SF @10 %	:	0.575	LACS	
Total cost of restoration work	**:**	**11.079**	**LACS**	

SUBMITTED BY

Executive Engineer
Works Division, Navgachhia

GENERAL ABSTRACT OF COST

Name of Road : NH 31 TO SINHKUND — District : BHAGALPUR

Length : 8.891 KM — Block : KHARIK

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	8.891 KM	929538.00
2	Add GST @ 12 %	:		111545
3	ADD L.C @1 %	:		9295
4	S.F.@ 10%	:		57499
	Total Cost of Restoration work	:		1107877
			Say	~~1107877~~ 11,07,900

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Executive Engineer
RWD(W) Division
Navgachhia

Technically Approved for Rs 11,07,900=00 (Rupees Eleven lac seven thousand nine hundred) only.

12/01/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
12/01

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road : NH-31 To Sinhkund

Length : 8.891 KM **Block : Kharik** **District : Bhagalpur**

Sl. no.	SSR Item no.	Description	No	Length (m)	Width (m)	H/D (m)	Qty	Unit	Rates (in Rs.)	Amount (in Rs)
1	4.5	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 etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.								
		As per attached "Annexure - A"					540.91			
							540.91	cum	1718.47	929537.61
			Total Cost of Flood Protective work =							929538

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Executive Engineer
RWD (W) Division
Navgachhia

Sl. No.	[illegible]	Nos	[illegible]	[illegible]			[illegible]	[illegible]			[illegible]	[illegible]
1	[illegible]	1	[illegible]	[illegible]	[illegible]		[illegible]	0.60			0.60	17.55
2	645-675	1	30.0	3.0	2.8		2.90	0.50			0.50	43.50
3	675-686	1	11.0	3.0	3.0		3.00	0.50			0.50	16.50
4	690-697	1	7.0	2.0	2.5		2.25	0.45			0.45	7.08
5	738-768	1	30.0	2.5	2.8		2.65	0.30			0.30	23.85
6	768-792	1	24.0	2.3	2.8		2.55	0.30			0.30	18.36
7	820-850	1	30.0	1.8	2.5		2.15	0.40			0.40	25.80
8	970-976	1	6.0	2.0	2.5		2.25	0.45			0.45	6.08
9	1024-1032	1	8.0	3.0	2.5		2.75	0.50			0.50	11.00
10	1044 ~~1074~~ 1104	2	30.0	3.0	3.2		3.10	1.00			1.00	186.00
11	1104-1120	1	16.0	3.2	3.0		3.10	1.00			1.00	49.60
12	1196-1204	1	8.0	2.2	2.6		2.40	0.60			0.60	11.52
13	1241-1269	1	28.0	3.5	3.8		3.63	0.75			0.75	76.13
14	1300-1314	1	14.0	3.2	3.5		3.35	0.60			0.60	28.14
15	1416-1425	1	9.0	7.5	3.5		5.50	0.40			0.40	19.80
												540.91

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Rate Analysis for Carriage of Materials

Name of Road : MD. MUSTAKIN KE GHAR TO MURLIDHAR THAKUR KE GHAR TAK VIA MAHADALIT TOLA

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km: Pucka / Surface				Katcha				Loading & Unloading Cost	Carriage Cost by Rail Head	Total (By Road)
1	Stone Metal Gr-III / GSB	Cum	Mirjachauki	8.00 / 4.99	x 16.32 x	80.00 Km	= Rs 2093.21	8.00 / 4.99	x 25.47 x	0.00 Km	= Rs 0.00	172.07	0	Rs. 2265.28
2	Brick/ Brick Bats	Cum	Local	3.60 / 1.91	x 16.32 x	7.00 Km	= Rs 215.33	3.60 / 1.91	x 25.47 x	1.00 Km	= Rs 48.01	172.07	0	Rs. 435.40
3	Local Sand	Cum	Local	3.60 / 2.04	x 16.32 x	2.00 Km	= Rs 57.60	3.60 / 2.04	x 25.47 x	1.00 Km	= Rs 44.95	172.07	0	Rs. 274.62
4	Earth	Cum	Local	8.00 / 6.00	x 16.32 x	0.00 Km	= Rs 0.00	8.00 / 6.00	x 25.47 x	1.00 Km	= Rs 33.96	172.07	0	Rs. 206.03
5	Hume Pipe (1000 mm)	M	Godda ~~Purnia~~	8.00 / 10.00	x 16.32 x	52.00 Km	= Rs 678.93	8.00 / 10.00	x 25.47 x	0.00 Km	= Rs 0.00	164.19	0	Rs. 843.12
6	Hume Pipe (600 mm)	M	Godda ~~Purnia~~	8.00 / 25.00	x 16.32 x	52.00 Km	= Rs 271.57	8.00 / 25.00	x 25.47 x	0.00 Km	= Rs 0.00	164.36	0	Rs. 435.93

Cost of Haulage Excluding Loading & Unloading as per SOR

*** Subjected to Verification of Lead**

Type of Road	Per Ton. Km by Tractor	Per Ton. Km by Tipper
For Surface Road	16.32	
Unsurface Gravel Road	0.00	
Kachha Road	25.47	

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SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.5	**Providing and Laying of Brick Bats**				
	Placing tractor at loading point loading with front end loader dumpong ,turning for return trip exluding time for haulage and return tirp				
	Unit = cum				
	Taking output = 2.832 cum				
a)	**Labour**				
	Mazdoor (Unskilled)	day	2.170	287.00	622.79
b)	**Materilas**				
	Brick Bats	cum	2.830	1,063.00	3008.29
c)	**Carriage**				
		cum	2.830	435.40	1232.19
					4863.27
	Cost for 5.5 cum = a+b+c				
	Rate per cum = (a+b+c+d)/2.83	cum			1718.47
	Total per cum	cum			1,718.47
10.7.40 WRD	**Labour for filling Cement Bag, swing and laying materilas**				
	Unit = Per Bag				
A	**Supply Empty cement Bag with Sand**	kg	1	7.460	7.46
					7.46
B	Unskilled Mazdoor for filling sand into bag and swing	No	2	287.00	574.00
	Unskilled Mazdoor for filling sand Bad to work site	No	3	287.00	861.00
					1,442.46
	Rate per 100 Nos.				14.42
	Total per bag				
C	**Supply Local sand Cost of Fine Sand**				
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 No.				
	Labour				14.42
	Cost of cemnt bag with Sand				7.46
	Cost of Local Sand				
	1.2 Cft = 0.034 m^3	cum	0.034	274.62	9.34
	Carriage				
	Total per bag	Bag			31.22
	Total cost of (A + B+C) =				31.22
5.7.52	Supply of New bag and N.C with labour for filling item E.C. bag with local sand.stiching on two lines by approval (1mx1mx1m)				
	Unit = Per N.C.				
	Taking output = 100 Nos filled new bags in 4 nos N.C..				
A	Supply Empty cement Bag with Sand	No	100	14.30	1430.00
	Nylan crate (N.C.)	No	4	39.85	159.40
	Total =				1589.40
	Rate of Material for each N. C. (Total x 25/100)				397.35
B	Labour for filling stiching and stacking in dry position	No	1.67	287	479.29
	Labour for carrying and placing at work site	No	3	287	861.00
	Skilled Mazdoor for stiching	No	0.33	364	120.12
	Stiching roll (Nylone)	No	2	30	60.00
	Hire charge of stiching Machine	day	0.33	50	16.5
	Hire charge of Generator 3 KVA	hrs	2.67	74	197.58
	Total =				1734.49
	Rate of Material for each N. C. (Total x 25/100)				433.62
	Rate for each N. C. in dry portion (A + B) =				830.97
C	Carriage :				
	Local sand				
	25 bags = 0.85 m^3	cum	0.85	274.62	233.43
	Carriage for each N. C.	No			233.43
	Total cost of (A + B+C) =	No			1064.40

SDB Sl.No	DESCRIPTION	Unit	QTY	Rate	Amount in Rs	Total materil Qty. required	Total Material Amount	Add 10% Seigniorage Fee
4.5	**Providing and Laying of Brick Bats**							
	Placing tractor at loading point loading with front end loader dumping, turning for return trip excluding time for haulage and return trip							
	Unit = cum							
	Taking output = 2.832 cum							
	Materials							
	Brick Bats	cum	2.83	1063.00	3008.29			
	Total per cum	**cum**			**1063.00**	540.91	574987.33	57498.73
10.7.40 WRD	**Labour for filling Cement Bag, swing and laying materilas**							
	Unit = Per Bag							
	Supply Empty Cement Bag with Sand							
	Cost of Local sand							
	1.2 cft = 0.034 m^3	cum	0.034	141.85	4.82			
	Total per bag	Bag			4.82			
	Total cost of (A+B+C) =	**Bag**			**4.82**	0	0	0
5.7.52	**Supply of New bag and N.C with labour for filling item E.C bag with local sand, stiching on two lines by approval (1m x 1m x 1m)**							
	Unit = per N.C							
	Carriage							
	Local sand							
	25 bags = 0.85 m^3	cum	0.85	141.85	120.57			
	Carriage for each N.C	No			120.57			
	Total cost of (A+B+C) =	**No**			**120.57**	0	0	0
							Total Amount =	**57499**

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