



ग्रामीण कार्य विभाग

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 :	L045 CHORHAR GHAT KALUCHAK TO RATANPURA (VR25)		
TOTAL LENGTH OF ROAD	:	0.936	KMS
TOTAL COST OF FDR. PART - A	:	15.766	LACS
ADD. S.E.T. @ 12 %	:	1.892	LACS
ADD. LABOUR CESS @ 1%	:	0.158	LACS
ADD. WP @ 10%	:	0.207	LACS
	:	18.022	LACS

SUBMITTED BY
The Executive Engineer
Works Division, Naugachhiya

GENERAL ABSTRACT OF COST

Name of Road : L045 CHORHAR GHAT KALUCHAK
TO RATANPURA (VR25)

District : BHAGALPUR

Block : KHARIK

Length : 0.936 KM

No.	Particulars	Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	: 0.936 KM	15,76,588.00
2	Add G.S.T @ 12 %	:	1,89,191.00
3	Add L.C. @ 1 %	:	15,766.00
4	S. F. @ 10 %	:	20,684.00
	Total Cost of Restoration work	:	18,02,229.00
		Say,	18,02,229.00 18,02,229.00

Accepted
21/10/2020
J. E.

A.E.
21-10-2020
A. E.

E.E.
16/11/20
E. E.

*Technically Approved for Rs 18,02,229.00 (Rupees
Eighteen Lacs two thousand two hundred only.)*

*Not
filed*
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

8
12/10

ESTIMATE FOR ROAD RESTORATION WORK

Location: 1548 CHORHAR GHAT KALUCHAK TO RATANPURA (VR25)

Block: KHARIK

Length : 0.936 KM

District: BHAGALPUR

Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (In Rs.)	Amount (In Rs.)
Providing sand bag with sand and labour including carriage / laying, filling etc. all complete as per specification and direction of E/I								
As per attached "Annexure - B"					21,963			
					21,963	/ bags	31.22	6,85,685.00
Providing New bag and N.C with labour for filling item E.C. bag with local sand stitching on two sides by approval (1mx1mx1m)								
As per attached "Annexure - C"					837			
					837	/ N.C	1064.40	890903.00
Total Cost of Flood Protective work =								15,76,588.00

Acad
2/11/2020

J. E.

A.E.
21-10-2020
A. E.

R.T.
16/12/20
E. E.

ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road :

L045 CHORHAR GHAT KALUCHAK TO RATANPURA (VR25)

Length of Road : 0.936 KM

Chainage (m)		Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of bag)
Ch 0 m - 10m	RHS	1	10.00	1.00	1.00		1.00	0.90			0.90	9.00	265
Ch 10 m - 20m	LHS	1	20.00	1.00	1.00		1.00	1.50			1.50	30.00	882
Ch 20 m - 360m	RHS	1	5.00	1.00	1.00		1.00	0.30			0.30	1.50	44
		1	10.00	1.00	1.00		1.00	0.30	0.60		0.45	4.50	132
		2	10.00	1.00	1.50		1.25	0.60	0.90		0.75	18.75	551
		2	15.00	1.00	1.50		1.25	0.90	1.00		0.95	35.63	1048
		1	15.00	1.00	1.50		1.25	1.00	1.30		1.15	21.56	634
		1	15.00	1.50	2.00		1.75	1.30	1.60		1.45	38.06	1119
		1	15.00	1.50	2.00		1.75	1.60	1.90		1.75	45.94	1351
Ch 360 m - 420 m	RHS	1	10.00	2.00	1.00		1.50	1.90	1.60		1.75	26.25	772
		1	15.00	2.00	1.00		1.50	1.60	1.30		1.45	32.63	960
		1	20.00	2.00	1.00		1.50	1.30	1.00		1.15	34.50	1015
		1	15.00	1.00	1.00		1.00	1.00	0.60		0.80	12.00	353
Ch 420 m - 570m	RHS	1	10.00	3.00	2.00		2.50	1.50	1.00		1.25	31.25	919
		2	10.00	2.00	1.00		1.50	1.00	1.00		1.00	30.00	882
		2	20.00	2.00	1.00		1.50	1.00	1.20		1.10	66.00	1941
		1	20.00	2.00	1.00		1.50	1.20	1.30		1.25	37.50	1103
		1	10.00	2.00	1.00		1.50	1.30	1.50		1.40	21.00	618
		1	10.00	3.00	1.00		2.00	1.50	2.00		1.75	35.00	1029
Ch 570 m - 700m	LHS	1	10.00	3.00	2.00		2.50	1.50	1.00		1.25	31.25	919
		2	10.00	2.00	1.00		1.50	1.00	1.00		1.00	30.00	882
		2	20.00	2.00	1.00		1.50	1.00	1.20		1.10	66.00	1941
		1	20.00	2.00	1.00		1.50	1.20	1.30		1.25	37.50	1103
		1	10.00	2.00	1.00		1.50	1.30	1.50		1.40	21.00	618
		1	10.00	3.00	1.00		2.00	1.50	1.50		1.50	30.00	882
Total =											747	21,963	


 21/10/2020
 J. E.


 21-10-2020
 A. E.


 R.P. 16/11/2020
 E. E.

ANNEXURE - " C "

Measurement of N. C. Bags

Name of Road :

L045 CHORHAR GHAT KALUCHAK TO RATANPURA (VR25)

Length of Road : 0.936 KM

Chainage (m)		Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of NC)
CH 30 m - 10m	RHS	1	10.00	2.00	1.00		1.50	2.00			2.00	30.00	30
CH 30 m - 20m	LHS	1	20.00	2.00	1.00		1.50	2.00			2.00	60.00	60
CH 350 m - 420 m	RHS	2	5.00	3.00	2.00		2.50	2.00			2.00	50.00	50
		1	10.00	3.00	2.00		2.50	2.00			2.00	50.00	50
		1	15.00	3.00	2.00		2.50	2.00			2.00	75.00	75
		1	25.00	3.00	1.00		2.00	2.00			2.00	100.00	100
CH 400 m - 500 m	RHS	2	5.00	3.00	1.00		2.00	2.00			2.00	40.00	40
		1	10.00	3.00	1.00		2.00	1.00			1.00	20.00	20
		1	15.00	3.00	1.00		2.00	2.00			2.00	60.00	60
CH 500 m - 570 m	RHS	2	10.00	2.00	1.00		1.50	2.00			2.00	60.00	60
		2	15.00	2.00	1.00		1.50	2.00			2.00	90.00	90
		1	15.00	2.00	1.00		1.50	2.00			2.00	45.00	45
		1	5.00	3.00	2.00		2.50	2.00			2.00	25.00	25
CH 400 m - 480 m	LHS	2	5.00	3.00	2.00		2.50	2.00			2.00	50.00	50
		1	10.00	3.00	1.00		2.00	2.00			2.00	40.00	40
CH 500 m - 570 m	LHS	2	5.00	2.00	1.00		1.50	2.00			2.00	30.00	30
		1	8.00	2.00	1.00		1.50	1.00			1.00	12.00	12
Total =											837.00	837.00	

James
21/10/2020
J. E.

A
21/10/2020
A. E.

P.V.
16/12/20
E. E.

Rate Analysis for Carriage of Materials

Name of Road

: L045 CHORHAR GHAT KALUCHAK TO RATANPURA (VR25)

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

Cost of Haulage Excluding Loading & Unloading as per SOR

Cost of Haulage Excluding Loading & Unloading as per SOR

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

* Subjected to Verification of Lead

Approved
21-10-2020
J. E.

21-10-2020
A. E.

R. 16/12/20
E. E.

S. E.

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 dumping, turning for return trip excluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)				
b)	Materials	div	2.170	287.00	622.79
	Brick Bats				
c)	Carriage	cum	2.830	1,063.00	3008.29
	Cost for 5.5 cum = a+b+c	cum	2.830	435.40	1232.19
	Rate per cum = (a+b+c+d)/2.83				4863.27
	Total per cum	cum			1718.47
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materials				1,718.47
	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 Bag to work site	No	3	287.00	861.00
	Rate per 100 Nos.				
	Total per bag				1,442.46
C	Supply Local sand Cost of Fine Sand				14.42
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 No.				
	Labour				
	Cost of cement bag with Sand				14.42
	Cost of Local Sand				7.46
	1.2 Cft = 0.034 m ³				
	Carriage	cum	0.034	274.62	9.34
	Total per bag				
	Total cost of (A + B+C) =	Bag			31.22
					31.22
5.7.52	Supply of New bag and N.C with labour for filling item E.C. bag with local sand, stitching 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
	Nylon 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 stitching 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 stitching	No	0.33	364	120.12
	Stitching roll (Nylone)	No	2	30	60.00
	Hire charge of stitching Machine	day	0.33	50	16.50
	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				
	Carriage for each N. C.	cum	0.85	274.62	233.43
	Total cost of (A + B+C) =	No			233.43
					1064.40

