

Index of Road

NAME OF ROAD

Detailed Estimate for Temporary And
permanent restoration of Road from T06
Kishunpur Ratwara To Sukharghat

DISTRICT :-

Madhepura

BLOCK :-

Alamnagar

Head :-

F.D.R.

Year :-

YEAR (2020 - 2021)

Actual Length of Road :-

2.586 Km

Flood Affected Length of F :-

0.520 Km

Sr. No.	Description	Page No.
1	Prativedan	
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5	Estimate of Road	
6	Carriage of Road	
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प्रतिवेदन

पथ का नाम:- To 6 kishunpur Ratwara To Sukkarghat.

प्रखंड:- Alamvagar.

जिला:- मधेपुरा

पथ की कुल लम्बाई:- 2.586 कि०मी०

प्रसासनिक स्वीकृति की राशि:- लाख

प्रस्तुत प्राक्कलन मो०:- 24.645 लाख का वर्ष 2020 में आयी बाढ़ एवम् अतिविस्ति से क्षत्रिग्रस्त पथों को मानक अवस्था में लाने हेतु विभागीय पत्रांक- मु०अ०-4(मु०)विविध (कार्य)-23-291/2019 726 पटना,दिनांक-12-02-2020 ,पत्रांक- मु०अ०-4(मु०)विविध (कार्य)-23-116/2017 3446 दिनांक 18.09.2020 एवम् पत्रांक- मु०अ०-4(मु०)विविध (कार्य)-23-56/2016 726 पार्ट-1-4665 पटना,दिनांक-15.12.2020 के द्वारा दिए गये निर्देश का अनुपालन कर ग्रामीण कार्य विभाग,कार्य प्रमंडल,उदाकिशुनगंज के अधीन स्वीकृत प्राक्कलन के दर पर तैयार की गयी है।


29/12/20

कनीय अभियंता


29/12/20

सहायक अभियंता


29/12/20

कार्यपालक अभियंता

ग्रामीण कार्य विभाग,कार्य प्रमंडल

उदाकिशुनगंज

FDR
YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Alamnagar

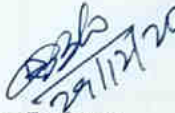
District:--Madhepura

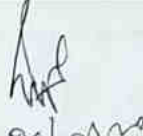
Length of Road:-- 2.586 KM

Length of Affacted Road in 520
meter

Name of Road:-- Detailed Estimate for Temporary And permanent
restoration of Road from T06 Kishunpur Ratwara To

SL. No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION PART -A	. 11.110
B	TOTAL COST OF CONSTRUCTION PART-B	. 10.795 Lacs
C	Add 1% LCESS ON PART-A	. 0.111 Lacs
	Add GST @ 12% ON TOTAL CONSTRUCTION COST	2.629 Lacs
	TOTAL	. 24.645 Lacs


29/12/20
Junior Engineer
RWD (w) SUB Division,
ALAMNAGAR


29/12/20
Asstt. Engineer
RWD (w) SUB Division, ALAMNAGAR


29/12/20
Executive Engineer
RWD (w) Division,
Udakishunganj

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Detailed Estimate for Temporary And permanent restoration
of Road from T06 Kishunpur Ratwara To Sukharghat
DISTRICT Madhepura
BLOCK Alamnagar
LENGTH OF ROAD (In Km) 2.59
LENGTH OF AFFECTED ROAD (In m) 520.000

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	Empty cement bags with local sand	7.5755
2	Brick bat	3.5348
3	EARTHWORK	1.073
4	GSB	0.930
5	WBM GRADE II	1.281
6	WBM GRADE III	1.718
7	PRIME COAT	0.270
8	TACK COAT	0.328
9	PREMIX CARPET	3.939
10	SEAL COAT	1.256
11	CULVERT	0
	Sub Total :-	21.9056672
	GST @12%	2.6286801
	Add L.cess Charges @ 1% of Sub Total of temporary restoration :-	0.1111029
	TOTAL COST OF PROJECT IN LACS =	24.6454501

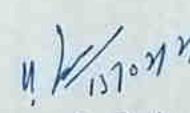

Junior Engineer


Assistant Engineer


Executive Engineer
RWD (w)
Division,
Udakishunganj

RWD (w) SUB Division, ALAMNAGAR RWD (w) SUB Division, ALAMNAGAR

*Technically approved AS = 2464500 (Rupees twenty four lac
Sixty four thousand five hundred only)*


Superintending Engineer
Rural Works Department
Works Circle Madhepura

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Page 1

DETAILED ESTIMATE FOR PAVEMENT

Sl. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
			AS PER ANNEXTURE CLOSED For 1000 m lead @ 100 %						736.50	145.68	1,07,293.00
			Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS (By mix in place method)								
4	4.1 (A)	401	Granular Sub-base with Well Graded Material (Table 400.1) (ii) For Grading II Material								
			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.								
			Net GSB Qty. Required form Grading II Material as per anecture closed						37.8875	2,455.69	93,040.00
5	4.7 (2-A)	405	Water Bound Macadam with Stone Screenings WBM Grading 2 (By Manual Means)								
			Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.								
			Net WBM -2 Qty as per anecture closed						28.05	4,567.09	1,28,124.00
6	4.7 (3-A)	405	WBM Grading 3 (By Manual Means)								
			Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.								
			Net WBM -3 Qty as per anecture closed						39.375	4,362.69	1,71,781.00
			SUB HEAD : BITUMINOUS ITEMS								

DETAILED ESTIMATE FOR PAVEMENT

Sl. No.	SDB Sl. No.	MORD Ref. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
7	5.1	502 (1)	Prime Coat (Low porosity) Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm		0.00			525.00		
			AS PER ANNEXTURE CLOSED	Sqm					525.00	51.48	27,027.00
			Net Area	Sqm							
8	5.2	503 (III)	Tack Coat Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and cleaned with hydrilloc broom as per technical specification clause 503.	Sqm	1.00	0.00	3.75		1,907.500		
			AS PER ANNEXTURE CLOSED	Sqm					38.150		
			Add for extra widening on curve (2%)	Sqm					1,945.65	16.85	32,784.00
			Net Area	Sqm							
9	5.90	508	Premix Carpet Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508.	Sqm	1.00	0.00	3.75		1,907.50		
			AS PER ANNEXTURE CLOSED	Sqm					38.15		
			Add for extra widening on curve (2%)	Sqm					1,945.65	202.43	3,93,858.00
			Net Area	Sqm							
10	5.12	510	Seal Coat Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type B, as per Technical Specification Clause 510	Sqm	1.00	0.00	3.75		1,907.50		
			AS PER ANNEXTURE CLOSED	Sqm							

DETAILED ESTIMATE FOR PAVEMENT

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At
or before
your

25/11/20

T06 Kishunpur Ratwara To Sukharghat

earth work

	Times	DISTANCE	wth	hgt	AREA
	8	30	1.25	0.5	150.00
	5	30	1.3	0.45	87.75
	5	30	1.25	0.4	75.00
	6	30	1.5	0.6	162.00
	8	30	1.5	0.35	126.00
	5	30	1.25	0.4	75.00
	3	30	1.5	0.45	60.75
					736.50

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T06 Kishunpur Ratwara To Sukharghat					GSB	
CHAINAGE	Times	DISTANCE	WIDTH2	Height	volume	REMARKS
1st km	1	5	0.5	0.175	0.438	
	2	8	2	0.175	5.600	
	5	4	1.5	0.175	5.250	
	1	5	2	0.175	1.750	
	1	5	1	0.175	0.875	
	6	3	1.5	0.175	4.725	
2nd km	1	6	2	0.175	2.100	
	1	8	3	0.175	4.200	
	5	4	2.5	0.175	8.750	
	4	5	1.2	0.175	4.200	
					37.888	

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T06 Kishunpur Ratwara To Sukharghat			WBM2			
CHAINAGE	TIMES	DISTANCE	WIDTH1	height	volume	remarks
1st km	1	5	0.75	0.075	0.28	
	1	10	2.25	0.075	1.69	
	1	12	1.75	0.075	1.58	
	1	8	3.75	0.075	2.25	
	1	5	1.5	0.075	0.56	
	1	15	1.25	0.075	1.41	
2nd km	1	14	2.2	0.075	2.31	
	1	25	3.2	0.075	6.00	
	1	16	1.5	0.075	1.80	
	1	28	1.5	0.075	3.15	
	1	10	3.75	0.075	2.81	
	1	15	3.75	0.075	4.22	
					28.05	

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T06 Kishunpur Ratwara To Sukharghat			WBM3		
CHAINA GE	TIMES	DISTANCE	AVG	height	volume
1st km	1	8	1	0.075	0.60
	1	15	2.5	0.075	2.81
	1	15	2	0.075	2.25
	1	12	3.75	0.075	3.38
	1	10	1.75	0.075	1.31
	1	18	1.5	0.075	2.03
2nd km	1	16	2.5	0.075	3.00
	1	25	3.5	0.075	6.56
	1	30	2	0.075	4.50
	1	30	3.75	0.075	8.44
	1	15	3.75	0.075	4.22
	1	1	3.75	0.075	0.28
					39.38

21/12/20
SE

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AE

20/1/21

T96 Kishunpur Ratwara To Sukharghat		PRIME COAT		
	TIMES	length	AVG width	AREA
1ST KM	1	8	1	8.00
	1	15	2.5	37.50
	1	15	2	30.00
	1	12	3.75	45.00
	1	10	1.75	17.50
	1	18	1.5	27.00
2ND KM	1	16	2.5	40.00
	1	25	3.5	87.50
	1	30	2	60.00
	1	30	3.75	112.50
	1	15	3.75	56.25
	1	1	3.75	3.75
				525.00

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20/12/20

T06 Kishunpur Ratwara To Sukharghat			TACCK COAT&PREMIX CARPET		
	TIMES	DISTANCE	AVG	AREA	
		E	width		
1ST KM	3	30	3.75	337.50	
	4	25	3.00	300.00	
	3	25	3.75	281.25	
	3	30	3.00	270.00	
	2	30	3.75	225.00	
2ND KM	2	30	2.50	150.00	
	2	25	3.50	175.00	
	1	25	3.75	93.75	
	2	25	1.50	75.00	
				1907.50	

22/12/20
SE

22/12/20
AC

22/12/20

CALCULATION SHEET

Annexure-A

Name of Road:- T06 Kishunpur Ratwara To Sukharghat
Block:- Alamnagar

Length of Road:- 3.580 Km.

Affected Length of Road:- 0.520

District:- MADHEPURA

Description	distance	Nos.	Length(m)	Width(m) avg	Height/Thicknes(m)	Quantity(cum)
1 1st KM	5	1	5.00	3.75	0.300	5.625
	9	1	4.00	3.00	0.30	3.600
	19	2	5.00	3.75	0.35	13.125
	27	2	4.00	3.75	0.40	12.000
	75	8	6.00	3.00	0.35	50.400
	87	3	4.00	3.00	0.30	10.800
	112	5	5.00	3.75	0.25	23.438
2 2nd KM	124	3	4.00	3.50	0.30	12.600
	136	2	6.00	3.00	0.35	12.600
	161	5	5.00	3.75	0.35	32.813
	165	1	4.00	3.50	0.25	3.500
	171	2	3.00	2.00	0.20	2.400
	186	3	5.00	2.50	0.15	5.625

188.525

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29/12/20

Junior Engineer

RWD (w) SUB Division, ALAMNAGAR

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29/12/20

Asstt. Engineer

RWD (w) SUB Division,

[Signature]
29/12/20

Executive Engineer

Name of Road:-

Block :-

District:-

Madhepura

District:-		Madnepura		Carriage Cost & Lead in Km												Loading & Unloading Cost	Carriage Cost by Rail Head	Total	
Sl No	Item	Unit	Source	Pukka / Surface						Kuchcha / Surface									
1	Brick Bats	Nos	Local	3.60 2.25	x	18.58	x	5.00 Km	=	Rs 148.64	3.60 2.25	x	29.03	x	2.00 Km	=	Rs 92.90	Rs 184.38	Rs 425.92
2	Local Sand	cum	Local	3.60 2.25	x	18.58	x	2.00 Km	=	Rs 59.46	3.60 2.25	x	29.03	x	1.00 Km	=	Rs 46.45	Rs 184.38	Rs 290.29
3	Bamboo	Nos	Local	3.6 2.25	x	18.58	x	2.00 Km	=	Rs 59.46	3.60 2.25	x	29.0805	x	1.00 Km	=	Rs 46.53	Rs 184.38	Rs 290.37

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tractor
For Surface Road	18.58
Unsurface Gravel Road	23.21
Kachha Road	29.03

* Subjected to Verification of Lead

Signature
Junior Engineer

Signature
Asstt. Engineer

Signature

Executive Engineer

RWD (W) Division, Udakishunganj