



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

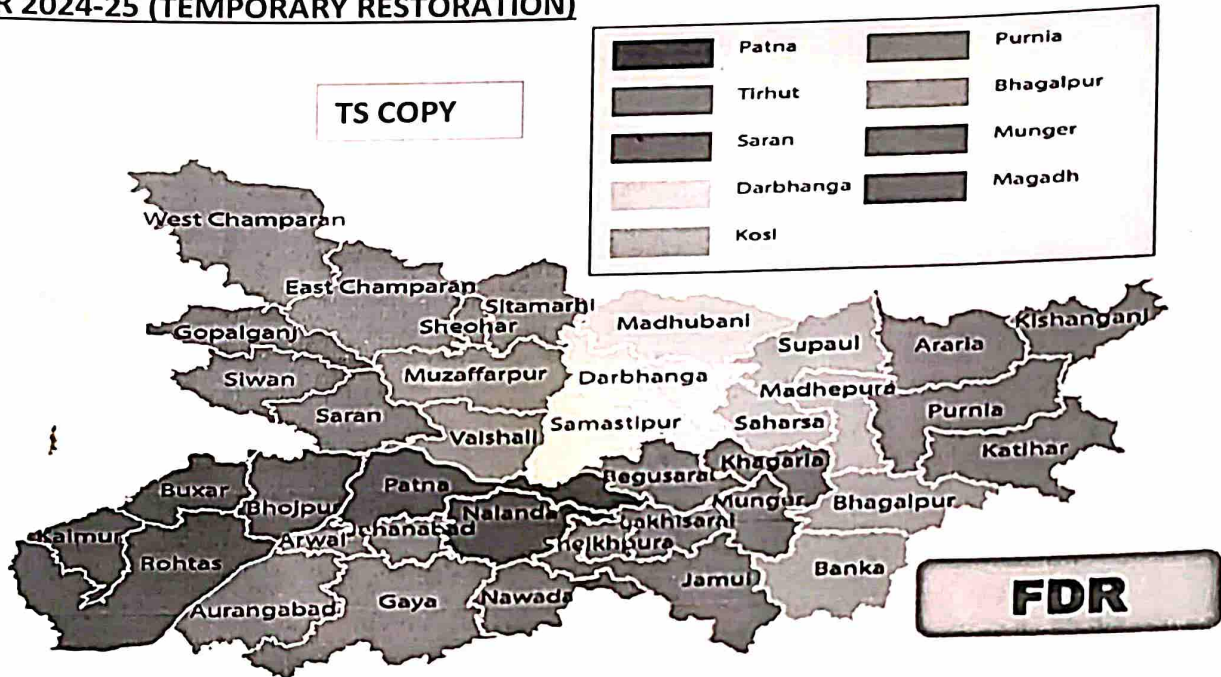
BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABILITY OF [REDACTED] ROAD BREACHES DAMAGED DURING FLOOD IN 2024

FDR 2024-25 (TEMPORARY RESTORATION)

TS COPY



DISTRICT :

BEGUSARAI

BLOCK :

BACHHWARA

NAME OF ROAD :

SHIVJATAN RAI TO LANKA TOL

LENGTH OF ROAD

:

5.000

KM

TOTAL COST FOR MOTORABLE OF DAMAGED ROAD

:

2015 739
28.522

Lakhs

Submitted By:

Executive Engineer
RWD (w) Division, TEGHRA
BEGUSARAI

प्रतिवेदन

पथ का नाम - Shivjatan Rai to Lanka Tol.

पथ की लम्बाई - 5.00 KM

बाढ़ से क्षतिग्रस्त पथांश की लम्बाई- 612 M

प्रखण्ड - Bachhwara

योजना शीर्ष - FDR 2024-25 20.15739

अस्थायी कार्य का प्राक्कलित राशि - ~~28.522~~ Lakh

प्रस्तुत प्राक्कलन FDR 2024-25 अन्तर्गत बेगूसराय जिलान्तर्गत बछवाड़ा प्रखण्ड में आई-2024 के बाढ़ के कारण पथ-Shivjatan Rai to Lanka Tol में क्षतिग्रस्त पथ का अस्थायी पुर्नस्थापन कार्य 20.15739 के तकनीकी अनुमोदन हेतु तैयार किया गया है जिसका प्राक्कलित राशि ~~28.522~~ Lakh मात्र है।

उपर्युक्त पथ वर्तमान में शीर्ष मुख्यमंत्री ग्राम सम्पर्क योजना के तहत निर्मित है एवं पंचवर्षीय अनुरक्षण अवधि में है। माह सितंबर, 2024 के तीसरे सप्ताह से अक्टूबर, 2024 के प्रथम सप्ताह तक गंगा नदी का जलस्तर अचानक बढ़ने के कारण पथ का कुछ पथांश क्षतिग्रस्त हो गया, जिससे वहाँ के लगभग 36,000 आबादी का आवागमन ठप्प हो गया है।

अभियंता प्रमुख-सह-अपर-आयुक्त-सह विशेष सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पत्रांक-मु०अ०-7 (नि० एवं गु०) FDR-09-03/2024-1999 पटना दिनांक -04.06.2024 के आलोक में पानी घटने पर यातायात बहाल करने हेतु क्षतिग्रस्त पथांश में Bricks Bat से Filling करते हुए अस्थायी पुर्नस्थापन कार्य कराया गया।

प्रस्तुत प्राक्कलन में निहित दर कार्य कराने के समय के अनुसूचित दर के आधार पर सामग्री, यंत्र-संयंत्र एवं श्रम बल के दर का प्रावधान कर तैयार किया गया है।

कार्यहित एवं कार्य की महत्ता के मद्देनजर प्रस्तुत प्राक्कलन की तकनीकी अनुमोदन अपेक्षित है।


15/11/24

कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, बछवाड़ा।


15/11/24

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, बछवाड़ा।


15/11/24

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, तेघड़ा।

एथल निरीक्षण प्रतिवेदन

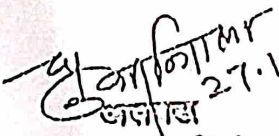
विभागीय पत्रांक-मु०डा०-३ (अनु० एवं उन्नयन) FDR-03.01.2024, 106 दिनांक-05.11.2024 में विवे गए निरीक्षण के आलोक में दिनांक-25.11.2024 एवं 27.11.2024 को ग्रामीण कार्य विभाग, कार्य प्रमण्डल, रोहता उन्नयन वर्ष-2024-25 में बाढ़ से क्षतिग्रस्त निम्नांकित पथों एवं पहुँच पथ का अवस्थायी पुर्नस्थापन कार्य का स्थल निरीक्षण क्षेत्रीय अभियंताओं के साथ किया गया एवं कार्य का प्राथमिकता स्थल के अनुक्रम पाया गया, विवे गये कार्य की वर्तमान स्थिति संतोषजनक है एवं पथ का क्षतिग्रस्त पर्याप्त मोटरेवल है।

Sl No.	Block	Name of Road/Bridge	Length (in Km)
1	Bachhwara	Chamtha Chhld Harpathhouse Of Maheshwar Rai to Chakdi Road.	0.05
2	Bachhwara	MRL-13 - Chamtha Bajitpur old Bridge to Chiraiyan tola.	0.21
3	Bachhwara	T04 Kali Mandir to Bisanpur.	0.25
4	Bachhwara	T04 to Dadpur Bridge.	0.07
5	Bachhwara	NH JHAMATIA GHAT - GOPALPUR.	2.00
6	Bachhwara	T04 to Chamtha Chakdi.	0.34
7	Bachhwara	Pingsyroad to Bandhpar Chamtha Tola.	0.15
8	Bachhwara	Shivjatan Rai to Lanka Tol.	0.512
9	Bachhwara	T04 To Gauspur Bhagwanpur Diyara.	0.43
10	Bachhwara	X Road - Chan Barkhut C. Ghat.	0.022


 25/11/24
 कर्तीय अभियंता
 ग्रामीण कार्य विभाग,
 कार्य प्रशाखा, रोहता।


 27/11/24
 सहायक अभियंता
 ग्रामीण कार्य विभाग,
 कार्य अवर प्रमण्डल, रोहता।


 27/11/24
 कार्यपालक अभियंता
 ग्रामीण कार्य विभाग,
 कार्य प्रमण्डल, रोहता।


 27.11.2024
 जलसहाय
 कार्यपालक अभियंता
 ग्रामीण कार्य विभाग,
 कार्य प्रमण्डल, रोहता।

GENERAL ABSTRACT OF COST
RESTORATION OF DAMAGED ROAD

Year 2024-25

Name of Road:- Shivjatan Rai to Lanka tol
District Begusarai
Block Bachharwara
Length of Road 5.00 KM

S.L. No.	Particulars	Total Cost (in Rs.)
1	Cost of FDR	15,99,011.00 2834751.57
2	Drone Photography @5000/ per stage + Still Photography of S.Fee. Damaged and Restoration work. 2500 = 15000 + 2500 = 17500/-	L. Cell = 15990 = 00 S. Fee = 93252 = 00 17,500.00
	TOTAL	28,52,251.57 20,15,739 = 00
	Say, Rs. In Lakh	20.15739 = 00 Lakh 28.522


JE
RWD, Teghra


AE
RWD, Teghra


EE
RWD, Teghra

-SE-
RWD, Begusarai

Post-facto technically approved for Rs 20,15,739=00 (Rupees Twenty lakh fifteen thousand, seven hundred thirty nine) only.


28/11/24
SUPERINTENDING ENGINEER
RURAL WORK DEPARTMENT
WORKS CIRCLE-BEGUSARAI


28-11-24

DETAILED ESTIMATE

Sl. No.		Description	Unit	QUANTITY	RATE	AMOUNT (In Rs.)
1	4.5	Providing brick bats including ,spreading,laying, hand packing and Compacting with CI hammers in layers not exceeding 75mm thick including cost of light barriers, danger signals, choudidar, taxes, royalty etc all complete job as per specifications and direction of E/I including cost of bricks,.....all complete job				
		as per QTY sheet	M ³	938.15	3,021.64 17011.13	28,34,751.57 15,99,011.00
TOTAL COST OF TEMPORARY RESTORATION IN RS.						28,34,751.57

15,99,011.00


JE
RWD


AE
RWD


EE
RWD

Measurment for items of Restoration /Motarable of Road damaged during Flood 2024

HEAD : FDR
 Division : Teghra
 Block : Bachhwara
 Name of Road : Shivjatan Rai to Lanka Tol
 Length of Road : 5.00 KM

DETAILS OF MEASUREMENT OF DITCHES FILLED BY BRICK BAT AND RABBISH

Ch. (in KM)	No.	Length	Width		Avg width	Depth		Avg Depth	Qty (M ³)
0.950	1	10.60	3.75	0.00	3.75	1.75	0.00	1.75	69.56
1.620	1	2.00	2.50	0.00	2.50	2.00	0.00	2.00	10.00
2.150	1	14.00	8.50	5.50	7.00	4.00	0.00	4.00	392.00
2.160	1	28.00	6.00	5.50	5.75	1.50	1.00	1.25	201.25
2.180	1	10.00	5.00	4.00	4.50	1.40	0.00	1.40	63.00
2.950	1	3.00	3.30	0.00	3.30	0.30	0.00	0.30	2.97
2.960	1	5.50	2.00	0.00	2.00	1.20	0.90	1.05	11.55
	1	1.00	3.00	0.00	3.00	0.30	0.00	0.30	0.90
2.990	1	15.00	6.00	4.00	5.00	2.00	0.00	2.00	150.00
	1	1.50	1.50	0.00	1.50	1.10	0.00	1.10	2.48
4.700	1	7.50	4.60	3.75	4.18	1.10	0.00	1.10	34.44
Total Length		98.10	Total Qty						938.15


 JE
 RWD


 AE
 RWD


 EE
 RWD

Rate Analysis

Sl No.	SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
			No.			39.30
1		Supply of Bamboos (75 mm Dia 6m to 8m Long)				
2	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I				
		Unit = Per mt.				
		Taking Out Put = 30.50 m				
	(i)	Materials	Kg	0.50	61.74	30.87
		Cost of 150 mm long nails				
	(ii)	Labour	No.	0.125	474	59.25
		Carpenter Gr -II	No.	0.25	395	98.75
		Unskilled Labour				188.87
		Rate for 30.5 m				6.19
		Rate for 1 m	M		Say.	7.40
		Total Cost				
3	5.7.7	Labour for cutting 75 mm dia bamboo piles in size and making shoes, driving and sinking etc. complete bob as per specification and direction E/I.				
		Unit = Per m				
		Taking Out Put (Sink depth) = 30.50 m				
		Assurning				
		20 no pile sunk 1.525 m deeps				
		Total depth sunk 30.50 m				
		Labour	No.	0.25	474	118.50
		Carpenter Gr -II	No.	0.65	395	256.75
		Unskilled Labour for piling				375.3
		Rate for 30.5 m				12.30
		Rate for 1 m	M		Say.	12.30
		Rate per m				
4	10.7.40 WRD	Supplying of empty cement bag (sythetic should be old but in good condition) with local sand, carriage, labour cost of roll nylon for stitching of empty bag, laying, stacking properly.....all complete job as per specifications and direction of E/I.				
		Qty= 100Nos				
	A	Materials	No	100	5.50	550.00
		Supply Empty cement Bag	M ³	3.40	145.87	495.96
		Local sand			Total (A)	1045.96
	B	Labour	No	4.67	395.00	1844.65
		Unskilled Labour for filling, stitching, staking, carrying and Placing at work site			Total (B)	1,844.65
		Total per 100 bag	Bag	1	305.21	305.21
	C	Carriage Cost of Local sand	Bag			3,195.82
		Total cost of (A+B+C) =				31.96
		Rate per Bag				

5	Haulage excluding Loading & Unloading				
	Haulage of materials by tipper excluding cost of loading, unloading and stacking.				
	Unit = t.km				
	Taking output 3.6 t load and lead 10 km = 36 t.km				
	Case-I : Surfaced Road				
	Speed with load: 15 km per hour				
	Speed while returning empty: 25 km per hour				
	(a) Machinery				
	Tipper 3.6 t capacity	Hour	0.67	600.00	402.00
	Time taken for Haulage with load	Hour	0.4	600.00	240.00
	Time taken for Empty return trip				642.00
	Total Cost for 36 t.km				17.83
	Rate per t.km				
	Case-II : Katcha Track				
	Speed with load: 10 km per hour				
	Speed while returning empty: 15 km per hour				
	(a) Machinery				
	Tipper 3.6 t capacity	Hour	1	600.00	600.00
	Time taken for Haulage with load	Hour	0.67	600.00	402.00
	Time taken for Empty return trip				1002.00
	Total Cost for 36 t.km				27.83
	Rate per t.km				
6	Loading and Unloading Aggregate, Stone Boulder, Brick, Kankar, Building Rubbish, Stone, Sand, Moorum				
	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 = 2.25 cum				
	Time required for				
	i) Positioning of tipper at loading point		1 Min		
	ii) Loading by front end loader 1 cum bucket capacity @ 45 cum per hour		5 Min		
	iii) Maneuvering, reversing, dumping and turning for return		0 Min		
	iv) Waiting time, unforeseen contingencies, etc.		0 Min		
	Total		6 Min		
	a) Machinery				
	Tractor 3.60 tonnes capacity (Output 2.25 Cum)	Hour	0.1	600.00	60.00
	Front end-loader 1 Cum bucket capacity @ 25 Cum/hour	Hour	0.083	1400.00	116.20
	b) Labour				
	Mate	day	0.03	419.00	12.57
	Mazdoor for loading and unloading	day	0.72	395.00	284.40
	Cost for 2.25 cum = a+b				473.17
	Rate per cum = (a+b)/2.25				210.30
	Labour and Placing of Brick Bats with light raming				
7	a) Brick Bats	Cum	1.00	994.00	994.00
	b) Cost of labour for pitching and light ramming as per wrd sor 6	day	0.72	395.00	284.40
	c) Carriage				
	(surface = 6km, katcha= 1km)	Puckka	Katcha	loading/unloading	
		3.6/2.25 *6*17.83	3.6/2.25 *1*27.83		
		171.17	44.53	210.30	426.00
					1704.43
	Rate per cum = (a+b+c)				

1704.43

Analysis for Carriage by Road

District :-

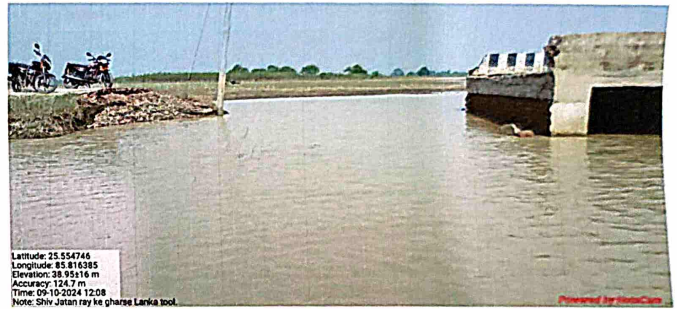
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Block :- Bachhwara

Sl. No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in KM		Loading & Unloading Cost	Total
				Pukka/ Surface	Katcha		
1	Local Sand (Local by Road 13 KM)	M ³	Local	$\frac{8.00}{4.99} \times 7.94 \times 12 \text{ KM} = 152.75$	$\frac{8.00}{4.99} \times 19.22 \times 1 \text{ KM} = 30.81$	121.65	305.21
2	Brick (Local By Road 12 KM)	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.25 \times 7 \text{ KM} = 203$	$\frac{8.00}{2.00} \times 17.55 \times 1 \text{ KM} = 70.20$	506.68	779.88

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	12.10	7.94
Unsurface Gravel Road	14.60	9.55
Kachha Road	29.30	19.22



Signature
14/11/24
SE

Signature
14/11/2024
AE

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14/11/24
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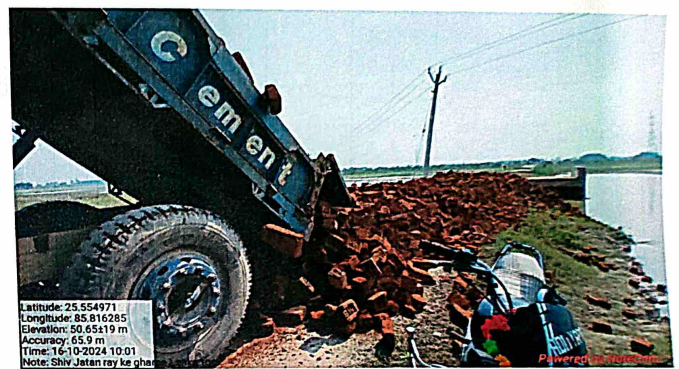
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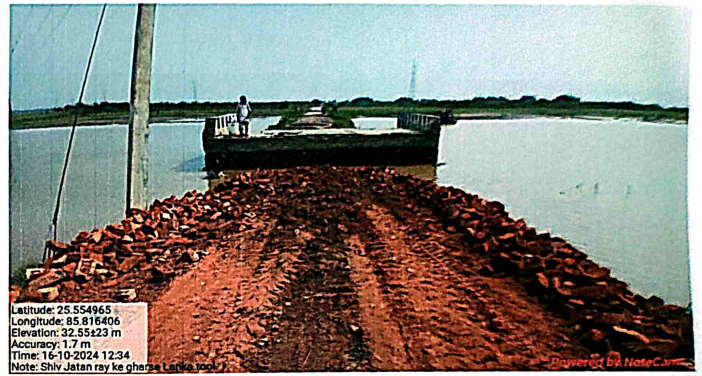
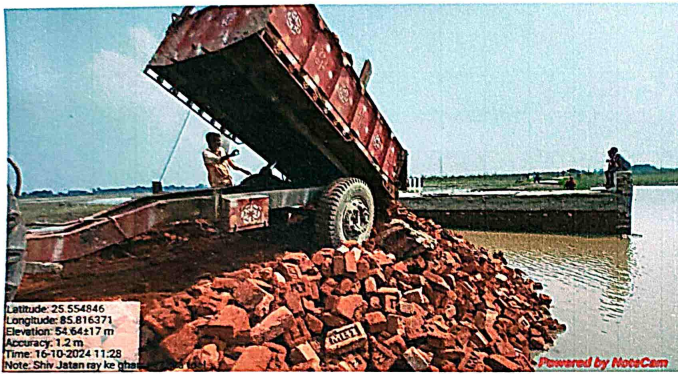
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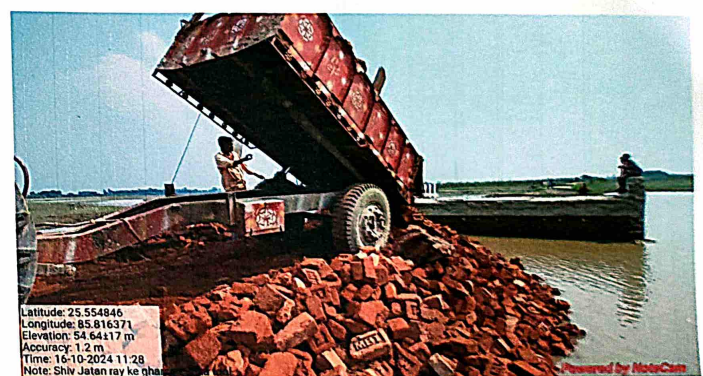
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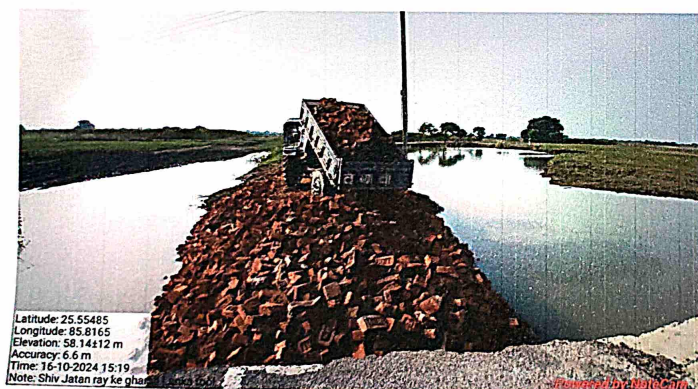
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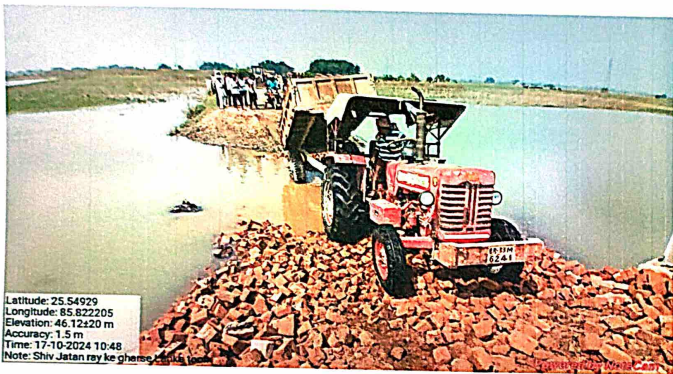


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Name of work -

Situation of work -

Agency by which work is executed -

Date of measurement -

No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
C.H -	E.D.R	2024-25			
Name of work -	Material of Road from Shivjatan Rai to Lanka tol.				
Agency -	Departmental through				
Authority -	E.E, R.W.D, Teghra and S.E's letter no - 271 dt 14-11-24				
Date -	14/11/2024				
Road length -	5.00 km				
Damage length -					
work to	Providing and filling Brick bats in ditches with all complete job as per specification and direction of E.I				
Charge					
950m	1x	10.60	3.75	1.75	= 69.56
1620m	1x	2.00	2.50	2.00	= 10.00
2150 m	1x	14.00	(8.5 + 5.5)		
			X	4.00	= 392.00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2160m	1x	28.00	$\times \frac{(6.00+5.50)}{2}$		
			$\times \frac{(1.50+1.00)}{2}$		201.25
2180m	1x	10.00	$\times \frac{(5.00+4.00)}{2}$		
			$\times 1.40$		63.00
2950m	1x	3.00	$\times 3.30$	$\times 0.30$	2.97
2960m	1x	5.50	$\times 2.00$	$\times \frac{(1.20+0.90)}{2}$	11.55
1)	1x	1.00	$\times 3.00$	$\times 0.30$	0.90
2990m	1x	15.00	$\times \frac{(6.00+4.00)}{2}$		
			$\times 2.00$		150.00
v	1x	1.50	$\times 1.50$	$\times 1.10$	2.48
4900m	1x	7.50	$\times \frac{(4.60+3.75)}{2}$		

$$\times 1.10 = 34.44$$

938.15m²

5/11/24
DE

July
14/11/24
AE

14/11/24
BEB

— 4 —

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17					
Powering brick bats					
including spreading, laying					
— do — do					
— all complete job					
Qty - 938.15 m ³					
@ Rs 1704.43/cum =					15,99,011=00
					1599011=00
L. cess =					15990=00
S. Fee =					93252=00
G. ST @ 18% =					307486=00
					20,15739=00



14/11/24	
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$$SE$$

July
14/11/2024
AE

11/14
14/11/24
E3