



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR FDR



FDR

Road Name:- *Amawa bhaya ghusiyar murli road*

DISTRICT	:	East Champaran	
DIVISION	:	Areraj	
BLOCK	:	Sengraampur	
TOTAL LENGTH OF ROAD	:	6.042 km	
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL (including 1%labour cess , 12% GST & 10% Seigniorage Fee)	:	1.71591	Lac
TOTAL COST OF PROJECT	:	1.71591	Lac

1.69000

Submitted by :
Bihar Rural Road Development Agency
RWD (W) Division, Areraj

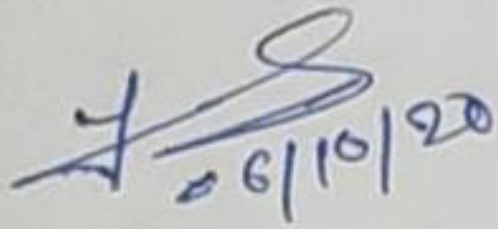
प्रतिवेदन

पथ का नाम :-	अमवा भाया घुसियार मुर्ली पथ
प्राक्कलित राशि :-	1.71591 लाख
पथ की लम्बाई :-	6.042 कि०मी०।
प्रखण्ड :-	संग्रामपुर।

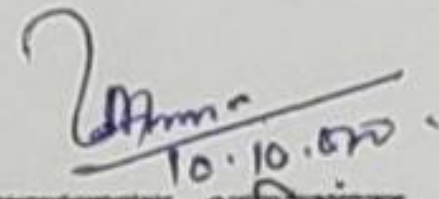
प्रस्तुत प्राक्कलन माह जुलाई एवं अगस्त-2020 में आयी बाढ़ एवं चम्पारण तटबंध, संग्रामपुर प्रखण्ड में बांध टूटने के कारण पथ अनेक स्थलों पर क्षतिग्रस्त हो गया था। जिसमें यातायात बाधित हो गया था। विभागीय निदेश के आलोक में टूटे पथांशों में यातायात बहाल करने हेतु तत्काल ईट टुकड़ा एवं लोकल बालु भर कर यातायात पुर्नस्थापन का कार्य करा दिया गया एवं यातायात बहाल किया गया।

प्रस्तुत प्राक्कलन में ईट टुकड़ा भरने एवं लोकल बालू से लेबल करने का प्रावधान किया गया है। प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है। प्राक्कलन में संवेदक लाभांस सम्मिलित नहीं है।

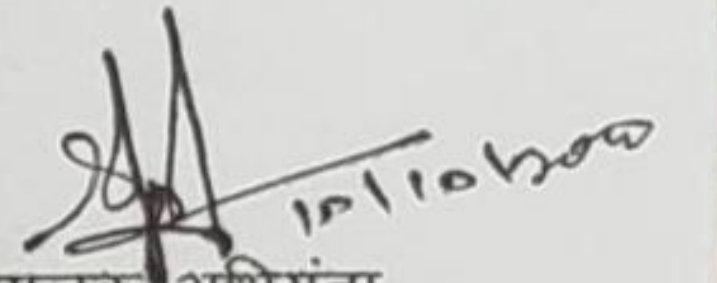
प्राक्कलन का तकनीकी अनुमोदन प्रदान करने की कार्यवाई की जाए। *कृपा प्रदान किया जाय /*


26/10/20

कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।


10.10.20

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।


10/10/20

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।

GENERAL ABSTRACT OF COST FOR EDR OF ROAD

NAME OF ROAD: Amawa bhaya ghushiyar murali road

DISTRICT East Champaran
BLOCK Sangrampur
DIVISION Areraj
LENGTH OF ROAD (in Km) 6.042

Sl. No.	DESCRIPTION	AMOUNT (Rupees)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	Sand Piling	5639-95
2	Brick Bat	165951-07
	SUB TOTAL OF INTIAL RECTIFICATION INDLICDING SURFACE RENEWAL	171591-02
	TOTAL COST OF CONSTRUCTION	171591-00

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RWD (W) Division, Areraj

DETAILED COST ESTIMATE

No.	Sub-Item	Description	Unit	Qty	Rate	Amount	Rate	Amount
1	11.2	Local Sand Filling - Filling in Foundation Trenches as per drawing and technical Specification Clause 305.3.9	cum	1	15.80	15.80	635.13	3061.80
2	with the help of WRD 5.7.48	Providing and Laying Spreading Brick Bats in Cut Portion as Required Do All C Job			as per Calculation Sheet		2147.40	165951.07
								171591.02
								169,012.80

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Post facto T.A. is accorded for Rs. 1,69,000.00
(Rupees one lakh sixty nine thousand only.)

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अधीक्षक अभियन्ता
ग्रामीण कार्य विभाग
नियंत्रण अंचल, नरसिंहपुर

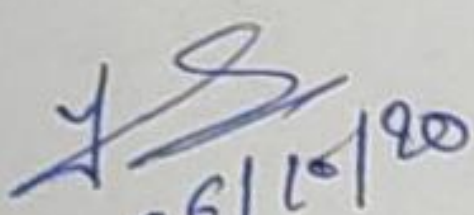
Measurement of damaged portion of brick Bat

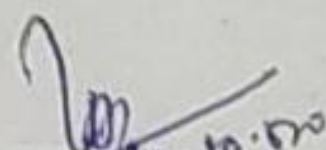
Road Name - Amawa Via ghusiyar to musali road.

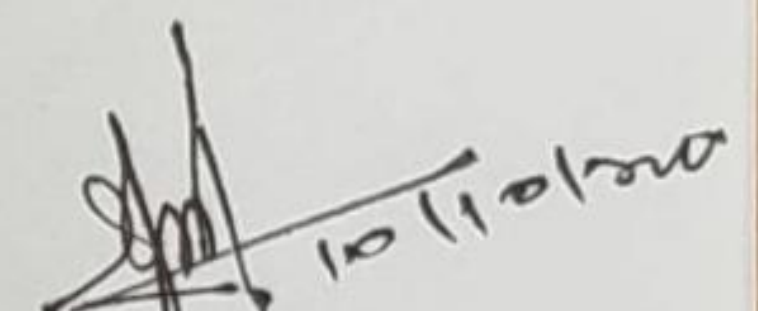
Length - 6.042 km.

S.No.	chainage	length(m)	width(m)	depth(m)	Qty(m ³)
01.	3.800 to 3.900	2 x 4.30	$\times \frac{1.30+2.60}{2}$	$\times 1.30$	= 21.80 m ³
02.	4.200 to 4.300	3.50	$\times \frac{3.75+4.35}{2}$	$\times 0.30$	= 4.25 m ³
03.	'' ''	2.50	$\times \frac{3.75+4.55}{2}$	$\times 0.40$	= 4.15 m ³
04.	4.400 to 4.500	5.50	$\times \frac{3.75+6.95}{2}$	$\times 1.60$	= 47.08

Total Qty = 77.28


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Quarry Map

Name of Road :-
Block :- Sangrampur
District :- East Champaran

Length of the Road:- 1.240 KM

WORK SITE
<i>Amawa bhaji ghasiyas musal road.</i>

Local
Local Sand
By Road :- 3 KM

Local
Brick
By Road :- 8 KM

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Analysis for Carriage by Road & Rail

Amawa bhaja ghudiyar musli road.

Name of Road:-

Amawa bhaja ghudiyar musli road.

Block :- Sangrampur

District:- East Champaran

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha			
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpur	$\frac{8.00}{4.59} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 599.55$	$8.00 \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$	92.01	1416.71	Rs. 2108.27
2	Stone Metal Gr-III / GSB	Cum	Sheikhpur	$\frac{8.00}{4.99} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 551.49$	$8.00 \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$	92.01	1317.69	Rs. 1961.19
3	Stone Aggregate / Chips	Cum	Mirjachowki	$\frac{8.00}{4.99} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 551.49$	$8.00 \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$	92.01	1706.09	Rs. 2349.59
4	Stone Boulder	Cum	Sheikhpur	$\frac{8.00}{4.80} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 573.32$	$8.00 \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$	92.01	1347.62	Rs. 2012.95
5	Course Sand	Cum	Koilwar	$\frac{8.00}{4.99} \times 7.52 \times 134.00 \text{ Km} = \text{Rs } 1615.52$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	106.19		Rs. 1721.71
6	Binding Material/Moorum	Cum	Sheikhpur	$\frac{8.00}{6.00} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 458.65$	$8.00 \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$	57.27	1057.27	Rs. 1573.19
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.52 \times 2.00 \text{ Km} = \text{Rs } 24.11$	$8.00 \times 18.19 \times 1.00 \text{ Km} = \text{Rs } 29.16$	106.19		Rs. 159.46
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.52 \times 7.00 \text{ Km} = \text{Rs } 210.56$	$8.00 \times 18.19 \times 1.00 \text{ Km} = \text{Rs } 72.76$	446.72		Rs. 730.04
9	Cement	MT	Motihari	$\frac{8.00}{8.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 308.32$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	322.54		Rs. 630.86
10	Steel	MT	Motihari	$\frac{8.00}{8.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 308.32$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	343.32		Rs. 651.64
11	Bitumen Emulsion	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.52 \times 160.00 \text{ Km} = \text{Rs } 1203.20$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	369.96		Rs. 1573.16
12	Bitumen	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.52 \times 160.00 \text{ Km} = \text{Rs } 1203.20$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	369.96		Rs. 1573.16
13	Hume Pipe (1000 mm)	m	Motihari	$\frac{8.00}{10.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 246.66$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	76.58		Rs. 323.24
14	Hume Pipe (600 mm)	m	Motihari	$\frac{8.00}{25.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 98.66$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	32.82		Rs. 131.48
15	Hume Pipe (300 mm)	m	Motihari	$\frac{8.00}{60.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 41.11$	$8.00 \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$	32.82		Rs. 73.93

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	8.39	7.52
Unsurface Gravel Road	10.09	9.04
Kachha Road	20.31	18.19

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Sl. No.	SDS Sl. No.	WORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1.1		RCD	<p>Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moerum</p> <p>Placing Tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip</p> <p>Unit = cum</p> <p>Taking output = 2.25 cum</p> <p>Time required for</p> <p>i) Positioning of Tractor at loading point</p> <p>ii) Loading by front end loader 1 cum bucket capacity @ 2.5 cum per hour</p> <p>iii) Maneuvering, reversing, dumping and turning for return</p> <p>iv) Waiting time, unforeseen Contingencies etc</p> <p>Total</p> <p>a) Labour</p> <p>Mate</p> <p>Mazdoor for loading and unloading</p> <p>b) Machinery</p> <p>Tractor 3.60 tonnes capacity</p> <p>Front end-loader 1 cum bucket capacity @ 25 cum/hour</p> <p>c) Overhead charges @ 6% on (a+b)</p> <p>Cost for 2.25 cum = a+b+c</p> <p>Rate per cum = (a+b+c)/2.25</p>				
					1 Min		
					5 Min		
					0 Min		
					0 Min		
					6 Min		
				Day	0.03	305.00	9.15
				Day	0.72	287.00	206.64
				hour	0.1	549.10	54.91
				hour	0.083	1403.00	116.45
							23.23
							410.38
							182.39

Sl. No.	SDS Sl. No.	WORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount In Rs.
	6.6.1 WRD Bihar		Labour for Laying dry graded Jhama Khos or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I				
			Unit :- per cum Taking output = 2.832 cum Unskilled Mazdoor Add 6% overhead Charges Rate for 2.832 Cum	Nos.	3.00	287.00	861.00 51.66 912.66
			Rate per Cum (Rs.) -				322.27
1.4	RCD		Cost of Haulage Excluding Loading and Unloading Haulage of Material by Tractor Excluding cost of Loading, Unloading and Stacking. Unit = t.km Taking output 3.60 tonnes load and lead 10 Km = 36.0 t.km				
	(I)		Surface Road Speed with Load : 15 km/hour Speed while Returning empty : 25 km / Hour				
	a)		Machinery Tractor 3.6 tonne capacity Time taken for onward haulage with load	hour	0.667	549.1	366.25
			Time taken for empty return trip.	hour	0.400	549.1	219.64
	b)		Overhead charges @ 6% on (a) cost for 36 t km = a+b Rate per t.km = (a+b)/36				35.15 621.04 17.25
			Say Rs.				17.25
	(II)		Unsurfaced Graveled Road Speed with load : 12 k / hour Speed for empty return trip : 20 km / hour				
	a)		Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load	hour	0.833	549.1	457.40
			Time taken for empty return trip.	hour	0.500	549.1	274.55
	b)		Overhead charges @ 6% on (a) Cost for 36 t km = a+b 840.34 Rate per t.km = (a+b)/36 23.34				43.92 775.87 21.55
			Say Rs.				21.55

Sl. No.	SDS Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1	11.2		Local Sand Filling:- Filling in Foundation Trenches as per drawing and technical Specification Clause 305.3.9				
		I	Sand Filling Unit = cum				
		a)	Labour				
			Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.30	287.00	86.10
		b)	Material				
			Find Sand (assuming 20 per cent)	cum	1.20	141.85	170.22
		c)	Overheads @6 % on (a+b)				15.56
			Rate per cum = a+b+c				274.93
			Surface Lead	Km	2		
			Unsurface Lead	Km	1		
			Factor (3.6/2.25)	cum	1.60		
		d)	Carriage (with OH)				
			$(1.6 \times 2 \times 17.25) + 1.6 \times 1 \times 21.55 + 182.39$				272.07
			Total (A+B+C+D) =				547.00
			Add 1% Labour cess (A+B+C+D)				5.47
			Add 12% GST (A+B+C+D)				65.64
			Add 10% Cost of Material for Seigniorage Fee		10%	170.22	17.02
			Total Cost per Cum	Cum			635.13
2			Supplying for Brick Bats (with OH)				
		A)	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00
			Add Overhead Charges		6%		61.02
			Total -				1078.02
			Surface Lead	Km	7		
			Unsurface Lead	Km	1		
			Factor (3.6/2.25)	cum	1.60		
		B)	Carriage (with OH)				
			$(1.6 \times 7 \times 17.25) + 1.6 \times 1 \times 21.55 + 182.39$				410.07
		C)	Ramming as per WRD SOR 6.61 (With OH)				322.27
			Total (A+B+C) =				1810.36
			Add 1% Labour cess (A+B+C)				18.10
			Add 12% GST (A+B+C)				217.24
			Add 10% Cost of Material for Seigniorage Fee		10%	1017.00	101.70
			Total Cost per Cum	Cum			2147.40



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Latitude: 26.504781
Longitude: 84.749883
Elevation: 75.63 m
Accuracy: 3.8 m
Date: 22-09-2020 09:29
Location: amawa bhaya ghushiya

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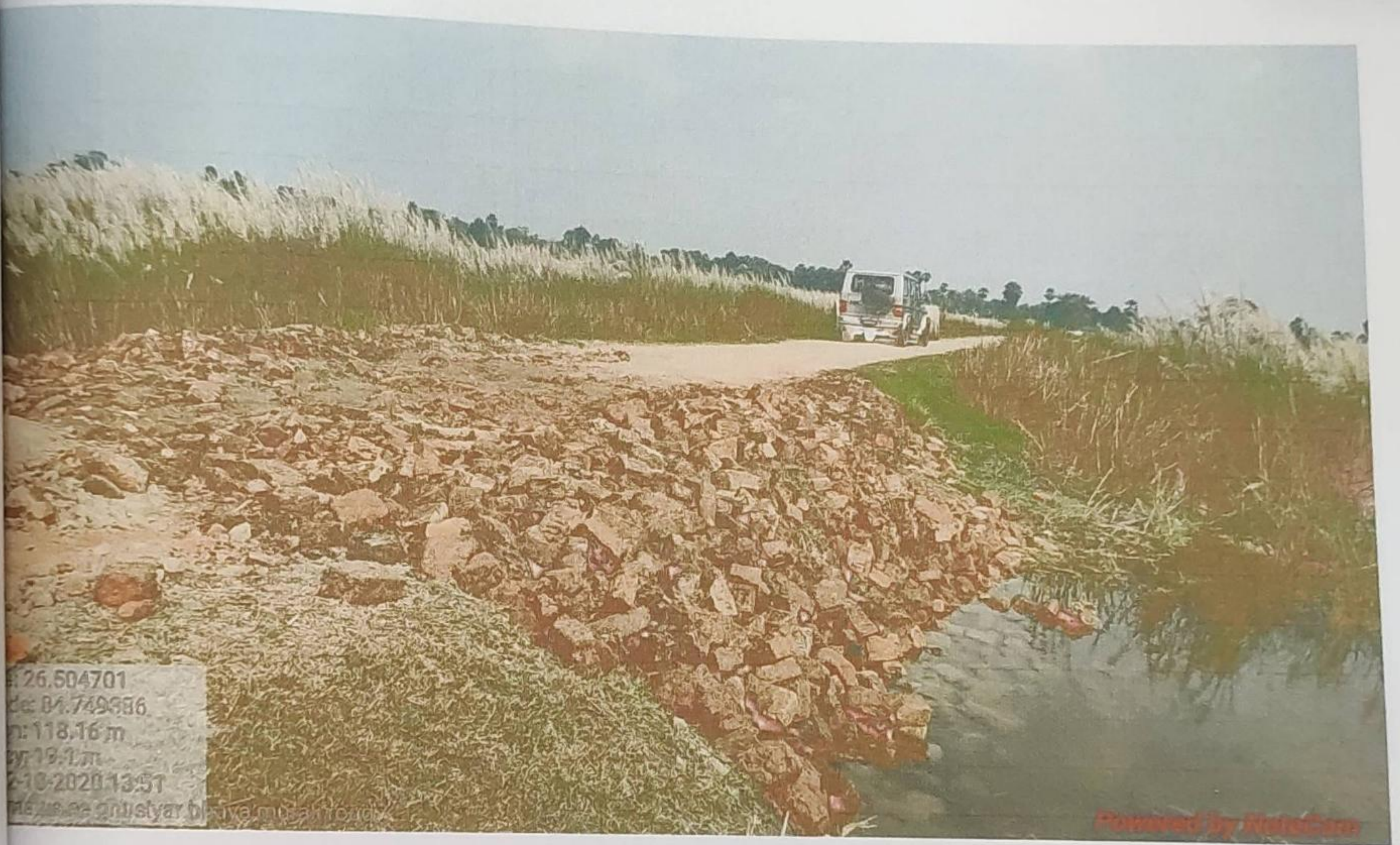
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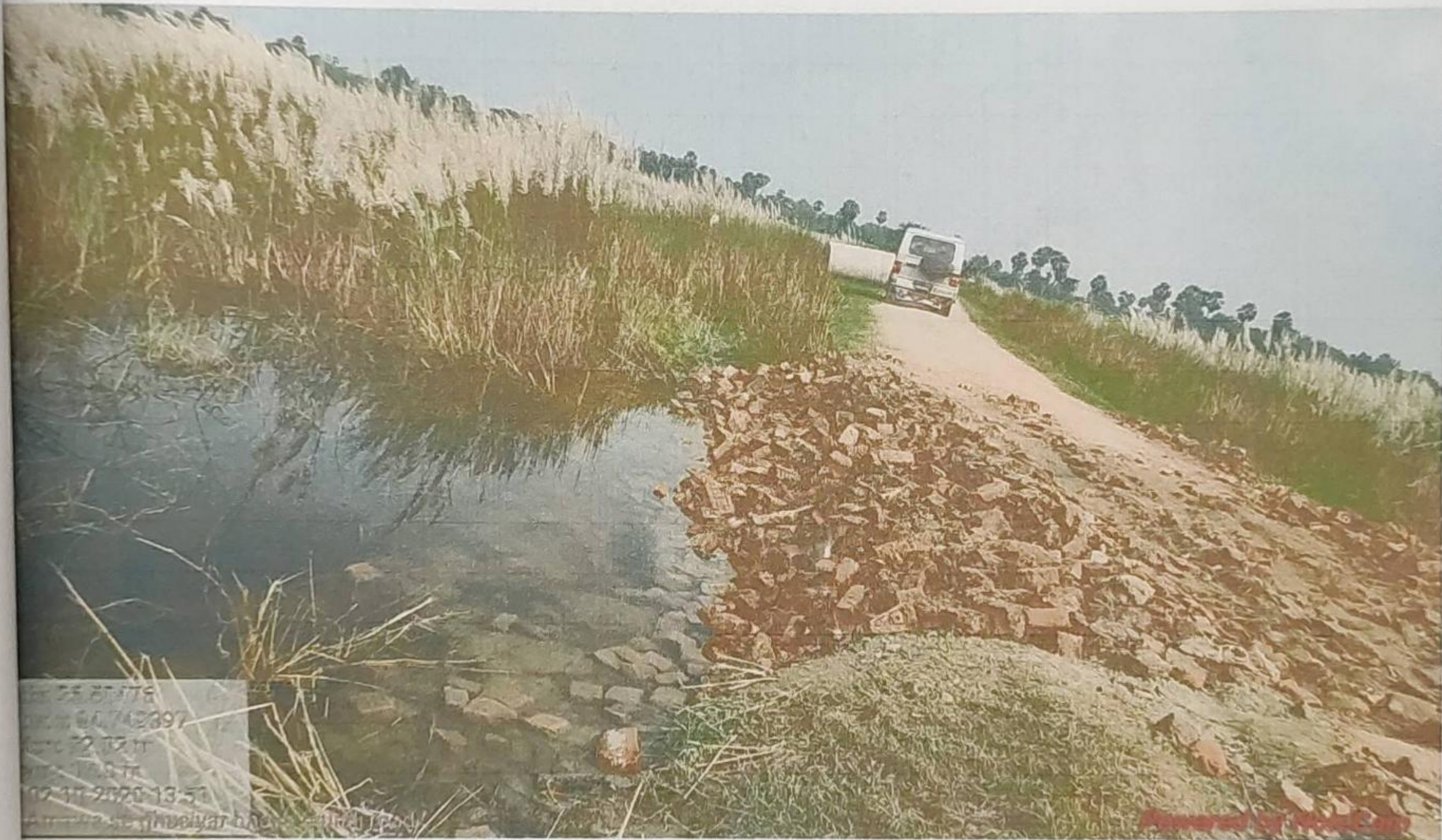
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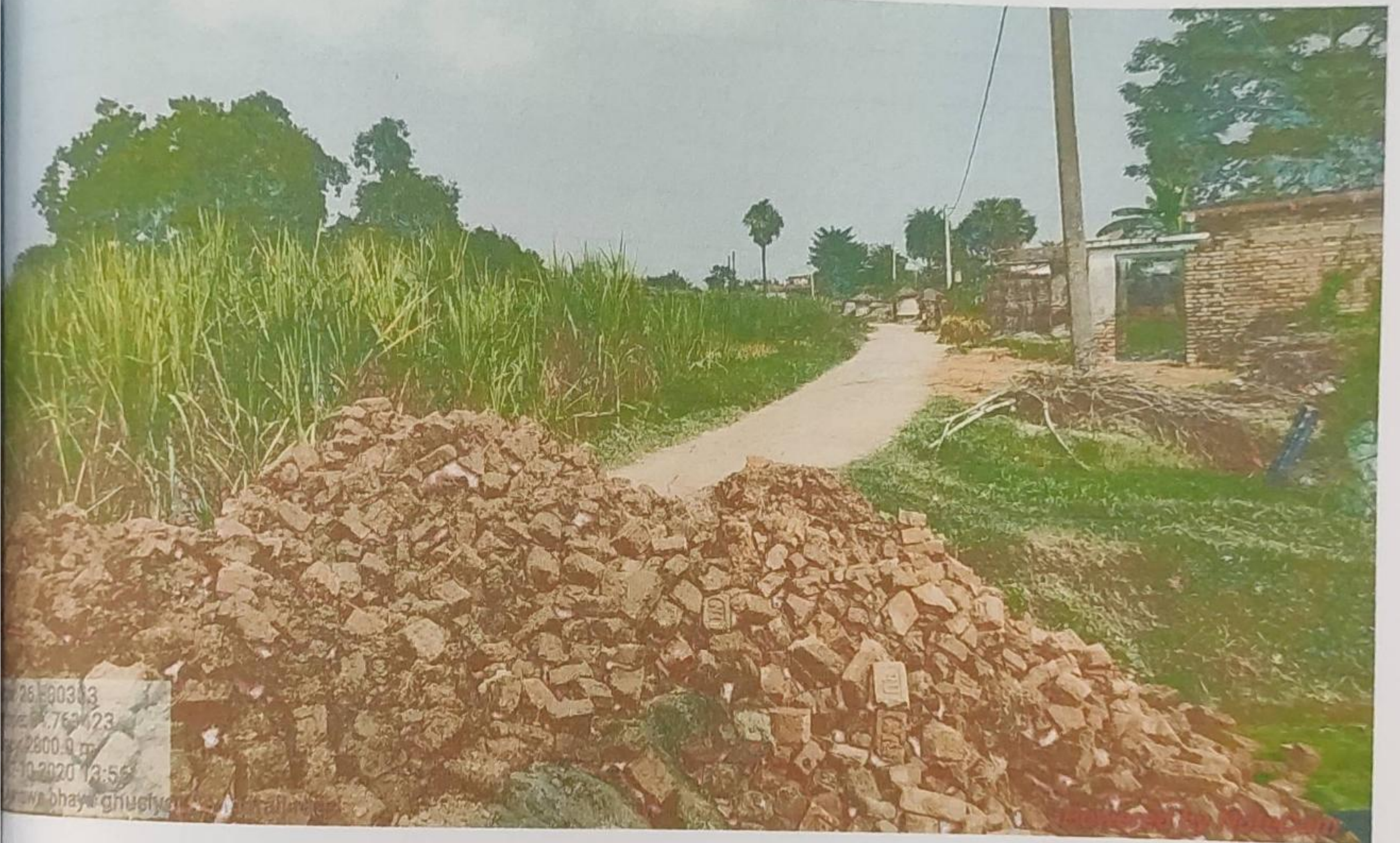


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Inspection Report for Flood Damage Works

Date :-

1. Name of PIUs - Executive Engineer, RWD, Anwaraj

2. Name of Block - Sanyasapur

Name of Road - Amul Road via Gharigaon Muli Road.

(A) For Road

1. Damage Location/Chainage :- 3.800 to 3.900, 4.200 to 4.300, 4.200 to 4.300, 4.400 to 4.500

2. Damage Length :- 400 M

3. Nature of Damage:- HAVY Rain and Flood

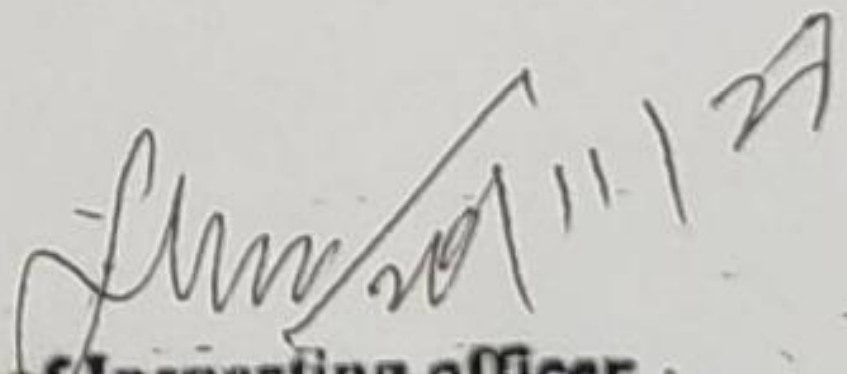
4. Details of Restoration Works:-

(i) Material being used in Restoration works:- Brick bats and local sand

(ii) Equipments/ Tools being used in Restoration works:- Tractor and front end loader

(iii) Procedure taken up in Restoration works:- Brick bats filled in ditches

(iv) Restored Length:-


Signature of Inspecting officer
(Executive Engineer) आभयता
ग्रामीण कार्य विभाग
R.W.D, W.D. कार्य प्रमण्डल, चकीया

SINo	District	Division	Road Name	Scheme	Road Status	Is Maintenance(Y/N)	Is Agreement(Y/N)	Length(In Km.)	Length of Damage Part Due to Flood	Tentative Restoration Amount(In Lac)
1	EastChamparan	Areraj	Kararia Charanchin - Pachbhirwa Road	PMGSY-NEA	On Going	No	Yes	6	4.5	0
2	EastChamparan	Areraj	Amawa Via Ghushiar - Murli Road	PMGSY	On Going	No	Yes	6.042	6.042	0

Actual Restoration Amount:(In Lac)	Remarks	FDR Year	Start Latitude	Start Longitude	Mid Latitude	Mid Longitude	End Latitude	End Longitude	Block
0	RESTORATION IS GOING ON	2020-21	26.523475	84.781589	26.524816	84.777198	26.532599	84.750765	Sangrampur
0	RESTORATION WORK GOIN ON	2020-21	26.511833	84.785507	26.50478	84.749883	26.573756	84.738455	Areraj