



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR FDR



FDR

Road Name:- *Karariya chitane mashine to pachbhivara road*

DISTRICT	:	East Champaran	
DIVISION	:	Areraaj	
BLOCK	:	Sangrampur	
TOTAL LENGTH OF ROAD	:	4.50 Km	
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL (including 1%labour cess , 12% GST & 10% Seignoirage Fee)	:	3.24152	Lac
TOTAL COST OF PROJECT	:	3.24152	Lac

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

प्रतिवेदन

पथ का नाम :-	कररिया चिरान मशीन से पचभरवा पथ
प्राक्कलित राशि :-	3.2415 लाख
पथ की लम्बाई :-	4.50 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 स्थलो 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। *हुया प्रदान किया जाय*


कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।


सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।

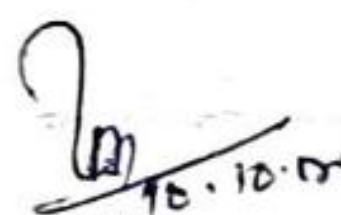

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।

GENERAL ABSTRACT OF COST FOR FDR OF ROAD		
NAME OF ROAD :		Karariya chisan machine to pach bhirawa road
DISTRICT	East Champaran	
BLOCK	Sangrampur	
DIVISION	Areraj	
LENGTH OF ROAD (in Km)	4.50	

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	Sand Filling	31439.93
2	Brick Bat	292712.09
	SUB TOTAL OF INTIAL RECTIFICATION INDLUCDING SURFACE RENEWAL	324152.02
	TOTAL COST OF CONSTRUCTION	324152.00

Pay 3,24,200/-


 JE
 RWD (W) Division, Areraj


 AE
 RWD (W) Division, Areraj


 EE
 RWD (W) Division, Areraj

Post facto T. N is accorded for Rs 3,24,200.00
 (Rupees three lakh twenty four thousand
 Two hundred only)


 अधीक्षक अभियन्ता
 ग्रामीण कार्य विभाग
 कार्य अंचल, मोतिहारी

 23/11/20

DETAILED COST ESTIMATE

No.	SDB SL NO	NORD Ref No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (Rs Rs.)
1	11.2		Local Sand Filling:- Filling in Foundation Trenches as per drawing and technical Specification Clause 305.3.9	cum	1	176.00	3.75	0.075	49.50	635.13	31439.93
2	with the help of WRD 5.7.40		Providing and Laying Spreading Brick Bats In Cut Portion as Required Do All C Job	cum		as per Calculation Sheet			136.31	2147.40	292712.09
A) SUB TOTAL =											324152.02

Day 3242.00.00

7/06/2020

AE

EE

JE
RWD (W) Division, Areraj

RWD (W) Division, Areraj

RWD (W) Division, Areraj

Measurement of damaged portion of brick bat

Name of Road:- Kanariya chiran machine to pach bhrawa Road
Length :- 4.5 km.

S.No.	chainage	length(m)	width(m)	depth(m)	Qty(m ³)
	0.500 to 0.600	3.00	$\times \frac{1.5 + 1.725}{2}$	$\times 0.225$	= 1.08
		3.00	$\times \frac{0.90 + 1.125}{2}$	$\times 0.225$	= 0.68
	0.600 to 0.700	9.00	$\times \frac{0.60 + 0.825}{2}$	$\times 0.225$	= 1.44
		3.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 2.60
	1.300 to 1.400	9.00	$\times \frac{3.75 + 4.00}{2}$	$\times 0.250$	= 8.71
		5.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 4.34
		3.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 2.60
		5.00	$\times \frac{0.90 + 1.725}{2}$	$\times 0.225$	= 4.34
		6.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 5.20
	2.400 to 2.500	6.00	$\times \frac{3.75 + 3.90}{2}$	$\times 0.150$	= 3.43
	2.800 to 2.900	8.00	$\times \frac{3.75 + 3.90}{2}$	$\times 0.150$	= 4.58
		3.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 2.60
	3.400 to 3.500	8.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 6.94
		6.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 5.20
	3.500 to 3.600	8.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.225$	= 6.94
		11.00	$\times \frac{3.75 + 3.975}{2}$	$\times 0.200$	= 8.47

3.700 to 3.800

$$13.50 \times \frac{3.75 + 3.95}{2} \times 0.200 = 10.39$$

$$12.00 \times \frac{3.75 + 3.975}{2} \times 0.225 = 9.54$$

$$5.00 \times \frac{3.75 + 3.975}{2} \times 0.225 = 4.34$$

3.800 to 3.900

$$16.00 \times \frac{3.75 + 3.975}{2} \times 0.225 = 13.88$$

$$15.00 \times \frac{3.75 + 3.975}{2} \times 0.225 = 13.02$$

3.900 to 4.00

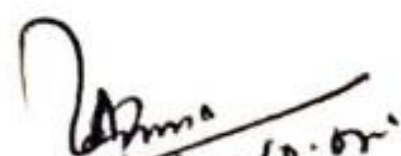
$$10.00 \times \frac{3.75 + 3.975}{2} \times 0.225 = 8.68$$

$$9.50 \times \frac{3.75 + 3.95}{2} \times 0.200 = 7.31$$

$$\text{Total qty} = 136.31 \text{ m}^3$$

 06/10/20

J. E.


10.10.20
A. E.

 10/10/20
E. E.

Quarry Map

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

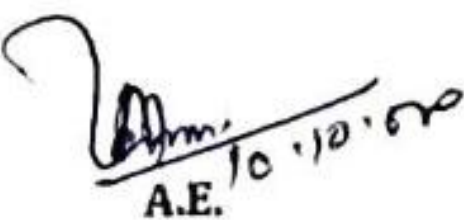
Length of the Road:- 1.240 KM

Local	
Local Sand	
By Road	:-- 3 KM

WORK SITE
kaavriga chipan maschine to pachbhawar road.

Local	
Brick	
By Road	:-- 8 KM


J.E


A.E. 10.10.20

S.E.


E.E

Analysis for Carriage by Road & Rail

Name of Road:--

District:- East Champaran

Block :- Sangrampur

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	$\frac{8.00}{4.59} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 599.55$	$\frac{8.00}{4.59} \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$		92.01	1416.71	Rs. 2108.27
2	Stone Metal Gr-III / GSB	Cum	Sheikhpur	$\frac{8.00}{4.99} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 551.49$	$\frac{8.00}{4.99} \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$		92.01	1317.69	Rs. 1961.19
3	Stone Aggregate / Chips	Cum	Mirjachowki	$\frac{8.00}{4.99} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 551.49$	$\frac{8.00}{4.99} \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$		92.01	1706.09	Rs. 2349.59
4	Stone Boulder	Cum	Sheikhpur	$\frac{8.00}{4.80} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 573.32$	$\frac{8.00}{4.80} \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$		92.01	1347.62	Rs. 2012.95
5	Course Sand	Cum	Koilwar	$\frac{8.00}{4.99} \times 7.52 \times 134.00 \text{ Km} = \text{Rs } 1615.52$	$\frac{8.00}{4.99} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		106.19		Rs. 1721.71
6	Binding Material/Moorum	Cum	Sheikhpur	$\frac{8.00}{6.00} \times 8.39 \times 41.00 \text{ Km} = \text{Rs } 458.65$	$\frac{8.00}{6.00} \times 20.31 \times 0.00 \text{ Km} = \text{Rs } 0.00$		57.27	1057.27	Rs. 1573.19
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.52 \times 2.00 \text{ Km} = \text{Rs } 24.11$	$\frac{8.00}{4.99} \times 18.19 \times 1.00 \text{ Km} = \text{Rs } 29.16$		106.19		Rs. 159.46
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.52 \times 7.00 \text{ Km} = \text{Rs } 210.56$	$\frac{8.00}{2.00} \times 18.19 \times 1.00 \text{ Km} = \text{Rs } 72.76$		446.72		Rs. 730.04
9	Cement	MT	Motihari	$\frac{8.00}{8.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 308.32$	$\frac{8.00}{8.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		322.54		Rs. 630.86
10	Steel	MT	Motihari	$\frac{8.00}{8.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 308.32$	$\frac{8.00}{8.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		343.32		Rs. 651.64
11	Bitumen Emulsion	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.52 \times 160.00 \text{ Km} = \text{Rs } 1203.20$	$\frac{8.00}{8.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		369.96		Rs. 1573.16
12	Bitumen	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.52 \times 160.00 \text{ Km} = \text{Rs } 1203.20$	$\frac{8.00}{8.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		369.96		Rs. 1573.16
13	Hume Pipe (1000 mm)	m	Motihari	$\frac{8.00}{10.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 246.66$	$\frac{8.00}{10.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		76.58		Rs. 323.24
14	Hume Pipe (600 mm)	m	Motihari	$\frac{8.00}{25.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 98.66$	$\frac{8.00}{25.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		32.82		Rs. 131.48
15	Hume Pipe (300 mm)	m	Motihari	$\frac{8.00}{60.00} \times 7.52 \times 41.00 \text{ Km} = \text{Rs } 41.11$	$\frac{8.00}{60.00} \times 18.19 \times 0.00 \text{ Km} = \text{Rs } 0.00$		32.82		Rs. 73.93

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SO aa

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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RWD (W) Division, Areraj

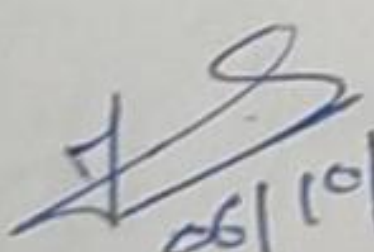
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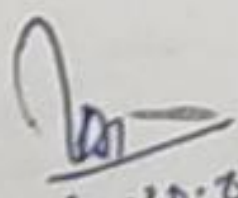
Sl. No.	SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	1.1	RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moornm Placing Tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip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

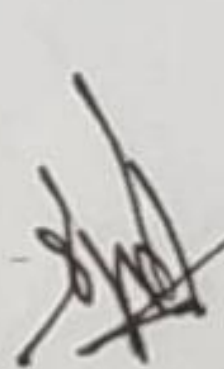
Sl. No.	SDS Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	6.6.1 WRD Bihar		Labour for Laying dry graded dhama Khoa or stone filter under Brick Pitching or Boulder potching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I				
			Unit :- per cum Taking outpur = 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 Returnning 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)					35.15
		cost for 36 t km = a+b					621.04
		Rate per t.km = (a+b)/36					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 tibbes caoacut 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)					43.92
		Cost for 36 t km = a+b					775.87
		Rate per t.km = (a+b)/36					21.55
			Say Rs.				21.55

SL No.	SDB 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 x 2 x 17.25) + 1.6 x 1 x 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 x 7 x 17.25) + 1.6 x 1 x 21.55 + 182.39				410.07
							322.27
		C)	Ramming as per WRD SOR 6.61 (With OH)				1810.36
			Total (A+B+C) =				18.10
			Add 1% Labour cess (A+B+C)				217.24
			Add 12% GST (A+B+C)				101.70
			Add 10% Cost of Material for Seigniorage Fee		10%	1017.00	101.70
			Total Cost per Cum	Cum			2147.40




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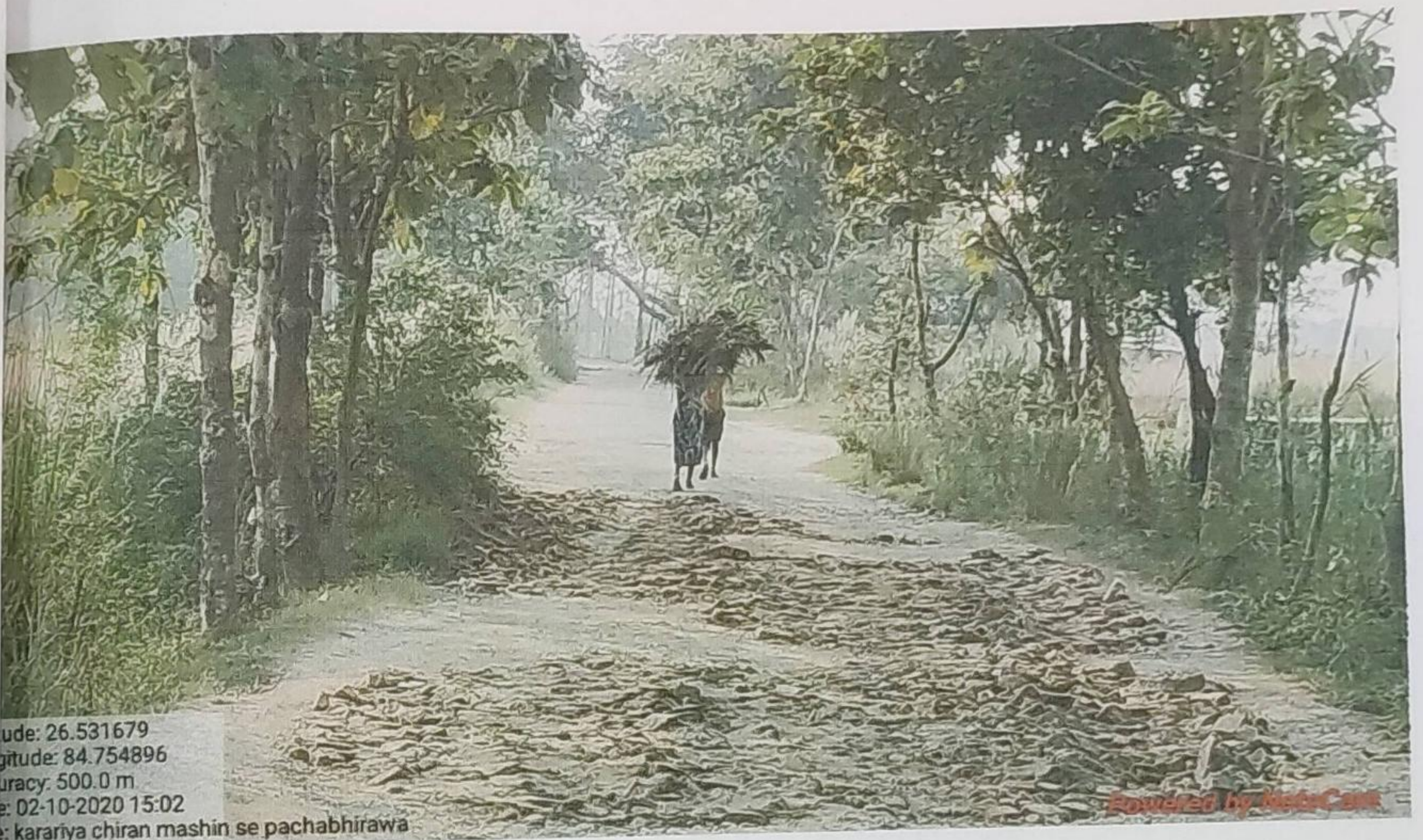


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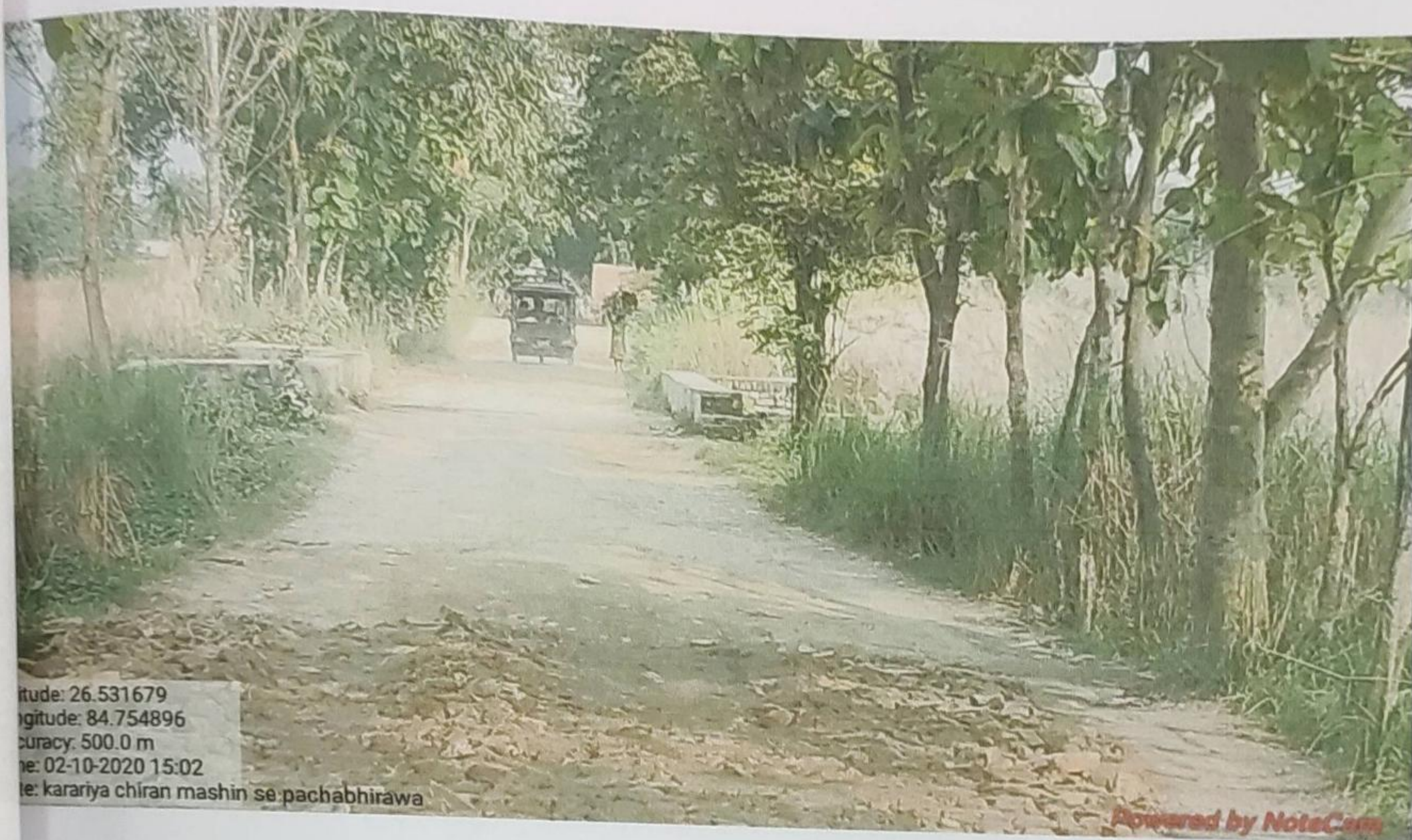
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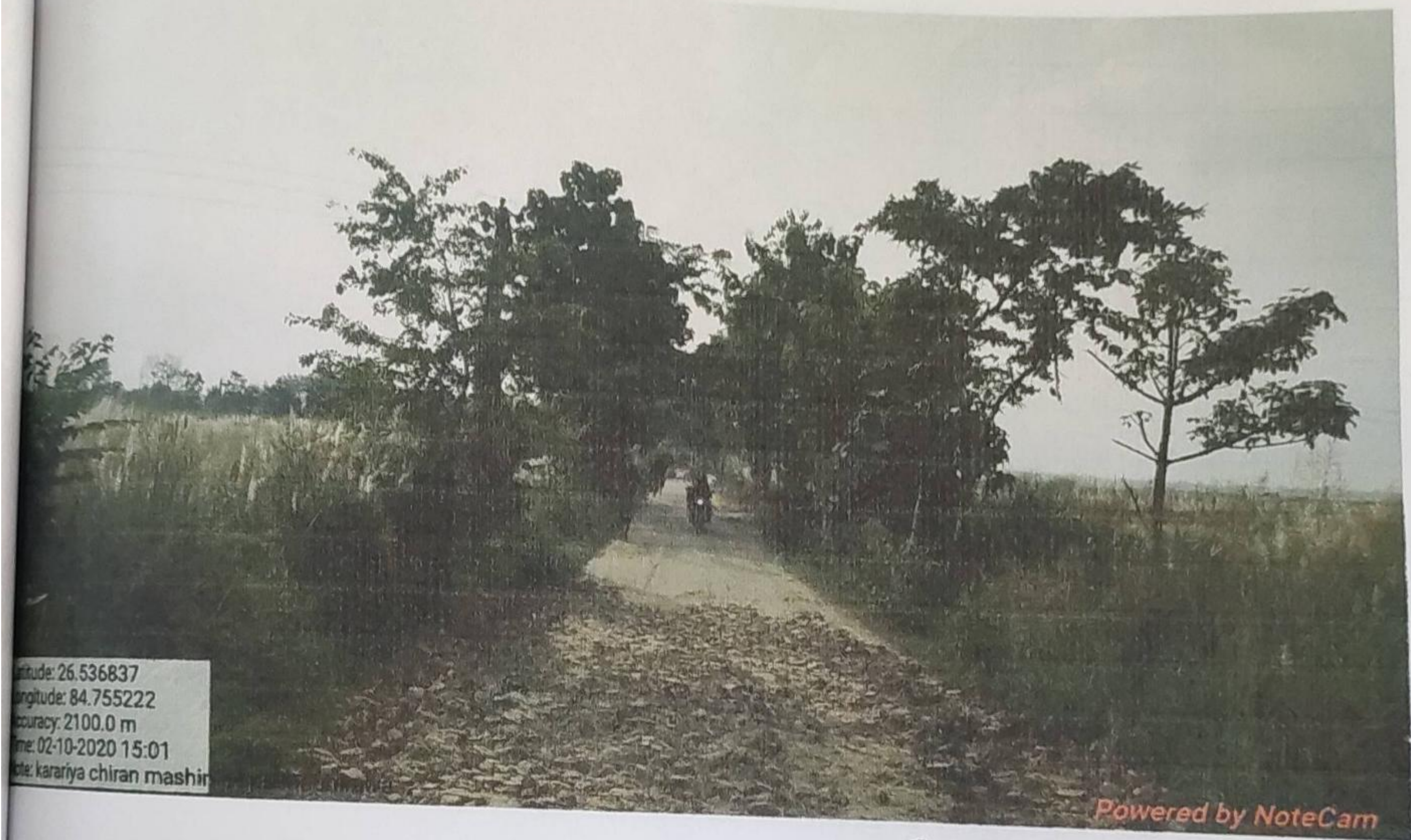
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Inspection Report for Flood Damage Works

Date :-

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

2. Name of Block - Sangoanpur

Name of Road - Karnarya chisare Nalson to Pauchbherwa road.

(A) For Road

1. Damage Location/Chainage :- 0.500 to 0.600, 0.600 to 0.700, 1.300 to 1.400, 2.400 to 2.500, 2.800 to 2.900, 3.400 to 3.500, 3.500 to 3.600, 3.700 to 3.800, 3.800 to 3.900, 3.900 to 4.00

2. Damage Length :- 1000 m

3. Nature of Damage:- Heavy Rain & Flood

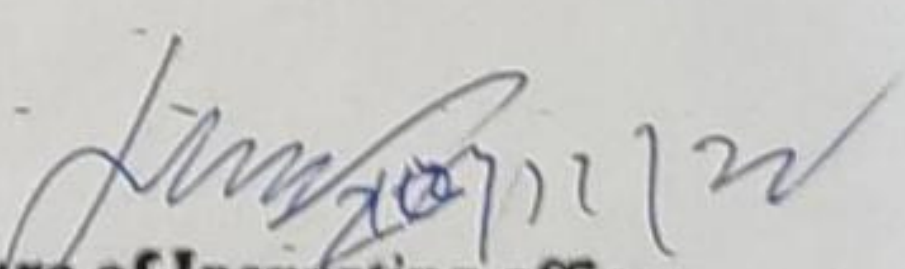
4. Details of Restoration Works:-

(i) Material being used in Restoration works:- Brick bats & Local Sand

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

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

(iv) Restored Length:- 1000 m


Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D. प्रमण्डल, चकोरा

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	Temporary Restoration Amount(In Lac)
1	EastChamparan	Areraj	Kararia Charamchin - Pachbhirwa Road	PMGSY-NEA	On Going	No	Yes	6	4.5	0
2	EastChamparan	Areraj	Amawa Via Ghushlar - 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