



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

Head :- F.D.R. (PHASE-I)

YEAR (2024-25)

STATE :- BIHAR
DISTRICT :- SUPAUL
BLOCK :- KISHANPUR
DIVISION :- SUPAUL

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L058-ASANPUR TO MUSHARI.

Flood affected Length of Road	:-	0.378 Km
TOTAL COST OF PAVEMENT	:-	Rs. 43,10,447.58
TOTAL PROJECT COST	:-	Rs. 43,10,447.58

Submitted By:
Executive Engineer
RWD (W) Division, Supaul

Prepared By:
Executive Engineer
RWD (W) Division, Supaul

Index of Road

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD
FROM L.058-ASANPUR TO MUSHARI.

DISTRICT :- SUPAUL

BLOCK :- KISHANPUR

Head :- F.D.R. (PHASE-I)

Year :- 2024-25

Flood Affected Length of Road :- 0.378 Km

TOTAL COST OF PAVEMENT :- ₹ 43,10,447.58

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SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-	DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L058-ASANPUR TO MUSHARI.
DIVISION :-	SUPAUL
BLOCK :-	KISHANPUR
Flood Affected Length of Road :-	0.378 Km

Sr. No.	Description	Amount (In Rs.)
1	Brick Bats:--	34,73,955.98
	Total=	34,73,955.98
2	Add:GST@18% on amt. =	6,25,312.08
3	Add:-Labour Cess @1% amt. =	34,739.56
4	Add:S.F.@ 10% on Material =	1,76,439.96
TOTAL RESTORATION COST OF THE PROJECT IN LACS=		43,10,447.58

[Signature]
16/10/24

Junior Engineer
RWD (W) Division,Supaul

[Signature]
16/10/24

Assistant Engineer
RWD (W) Division,Supaul

[Signature]
16/10/24

Executive Engineer
RWD (W) Division,Supaul

Technically Approved for Rs. 43,10,448=00 (Rupees forty three lacs ten thousand four hundred forty eight only)

[Signature]
14.11.24

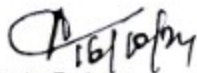
Superintending Engineer
Rural Works Department
Works Circle Machhapura

Calculation of Seigniorage Fees

NAME OF ROAD :-
BLOCK :-
DISTRICT :-

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L058-ASANPUR TO MUSHARI.
KISHANPUR
SUPAUL

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT	Add Seigniorage Fee 10%
1	M:11-5(ii)	Providing & laying Brick Bat....					
		Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.					
		Brick Bats	1694.91	Cum	1041.00	1764399.58	176439.96
		Seigniorage Fees @10% of Basic Amount				Total Rs. =	176439.96



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RWD (W) Division,Supaul


16/10/24

Assistant Engineer
RWD (W) Division,Supaul


16/10/24

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RWD (W) Division,Supaul

Details of Measurement							Quantity.
Detail of Works	No.	Measurement					
		Length	Width(Avg)	Width	Height(Avg)	Height	
		In m.	In m.		In m.		
NAME OF ROAD :-							DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L.058-ASANPUR TO MUSHARI.
Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.							
Item No. 1							
Chainage in 310.000 to 880.000	1	46.00	$(4.0+3.5+4.0)/3$	3.83	$(1.5+1.0+2.0+1.5)/4$	1.50	264.500
	1	60.00	$(3.5+3.0+3.5+3.0)/4$	3.25	$(1.5+2.2+1.8+1.5)/4$	1.75	341.250
	1	65.00	$(3.2+4.0+3.8+3.5)/4$	3.63	$(1.0+1.2+1.6)/3$	1.27	298.458
	1	80.00	$(3.0+3.2+1.5+2.0+1.5)/5$	2.24	$(1.8+2.2)/2$	2.00	358.400
	1	55.00	$(2.5+2.0+3.5+2.0)/4$	2.50	$(1.6+2.0+1.8)/3$	1.80	247.500
	1	72.00	$(2.5+2.0+1.0)/3$	1.83	$(1.6+1.2)/2$	1.40	184.800
Total (In Cum)							1894.908
		378.00					


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Cost Estimate For Flood Restoration Work

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L058-ASANPUR TO MUSHARI.

BLOCK :- KISHANPUR
DISTRICT :- SUPAUL

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	M:11-5(ii)	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	1894.91	Cum	2049.64	3473955.98
		Total			Rs.	3473955.98



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Analysis for Carriage by Road & Rail

Name of Road:-- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM L058-ASANPUR TO MUSHARI.

District:- SUPAUL

Block :- KISHANPUR

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface						
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00 x 11.70 x 35.00 Km = Rs 713.73	8.00	4.59	8.00 x 28.20 x 0.00 Km = Rs 0.00	89.90	1243.54	Rs. 2047.17
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00 x 11.70 x 35.00 Km = Rs 656.51	8.00	4.99	8.00 x 28.20 x 0.00 Km = Rs 0.00	89.90	1166.59	Rs. 1913.00
3	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 x 11.70 x 35.00 Km = Rs 656.51	8.00	4.99	8.00 x 28.20 x 0.00 Km = Rs 0.00	89.90	1166.59	Rs. 1913.00
4	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 x 11.70 x 35.00 Km = Rs 656.51	8.00	4.99	8.00 x 28.20 x 0.00 Km = Rs 0.00	89.90	1248.39	Rs. 1994.80
4	Stone Boulder	Cum	Sheikhpura	8.00 x 11.70 x 35.00 Km = Rs 682.50	8.00	4.80	8.00 x 28.20 x 0.00 Km = Rs 0.00	89.90	1201.54	Rs. 1973.94
5	Coarse Sand	Cum	Jagdishpur	8.00 x 7.47 x 225.00 Km = Rs 2694.59	8.00	4.99	8.00 x 19.22 x 0.00 Km = Rs 0.00	104.88		Rs. 2799.47
6	Binding Material/Moorum	Cum	Sheikhpura	8.00 x 7.47 x 35.00 Km = Rs 348.60	8.00	6.00	8.00 x 28.20 x 0.00 Km = Rs 0.00	104.88		Rs. 453.48
7	Local Sand	Cum	Local	8.00 x 7.47 x 2.00 Km = Rs 23.95	8.00	4.99	8.00 x 17.82 x 1.00 Km = Rs 28.57	104.88		Rs. 157.40
8	Brick	1000 Nos	Local	8.00 x 7.94 x 7.00 Km = Rs 222.32	8.00	2.00	8.00 x 19.22 x 1.00 Km = Rs 76.88	417.46		Rs. 716.66
9	Cement	MT	Local	8.00 x 7.94 x 35.00 Km = Rs 277.90	8.00		8.00 x 19.22 x 0.00 Km = Rs 0.00	299.38		Rs. 577.28
10	Steel	MT	Local	8.00 x 7.94 x 35.00 Km = Rs 277.90	8.00		8.00 x 19.22 x 0.00 Km = Rs 0.00	318.00		Rs. 595.90
11	Bitumen Emulsion	MT	Barauni	8.00 x 7.94 x 220.00 Km = Rs 1746.80	8.00		8.00 x 19.22 x 0.00 Km = Rs 0.00	344.50		Rs. 2091.30
12	Bitumen	MT	Muzaffarpur	8.00 x 7.94 x 178.00 Km = Rs 1413.32	8.00		8.00 x 19.22 x 0.00 Km = Rs 0.00	344.50		Rs. 1757.82
13	Hume Pipe (1000 mm)	m	Karjain	8.00 x 7.94 x 106.00 Km = Rs 673.31	8.00	10.00	8.00 x 19.22 x 0.00 Km = Rs 0.00	73.32		Rs. 746.63
14	Hume Pipe (600 mm)	m	Karjain	8.00 x 7.94 x 106.00 Km = Rs 269.32	8.00	25.00	8.00 x 19.22 x 0.00 Km = Rs 0.00	31.42		Rs. 300.74
15	Hume Pipe (300 mm)	m	Karjain	8.00 x 7.94 x 106.00 Km = Rs 112.22	8.00	60.00	8.00 x 19.22 x 0.00 Km = Rs 0.00	31.42		Rs. 143.64
16	Brick Bats	Nos	Local	3.60 x 18.64 x 7.00 Km = Rs 208.80	3.60		3.60 x 66.03 x 2.00 Km = Rs 211.30	227.60		Rs. 647.70
				2.25	2.25					

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	11.70	7.94
Unsurface Gravel Road	14.00	9.55
Kachha Road	28.20	19.22

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tractor	Per Ton. Km by Tractor
For Surface Road	18.64	18.64
Unsurface Gravel Road	23.29	23.29
Kachha Road	66.03	66.03

Summary of Carriage Cost

Sl. No.	Particulars	Unit	Amount
1	Gr-III GSB	Cum	1913.00
2	Stone Metal Below 40 mm	Cum	1913.00
3	Stone Chips	Cum	1913.00
4	Screening Materials	Cum	1913.00
5	Gr-II	Cum	2047.17
6	Stone Metal above 40 mm	Cum	2047.17
7	Binding Material (Moorum)	Cum	453.48
8	a) Coarse Sand	Cum	2795.47
9	b) Coarse Sand at Site	Cum	3293.47
10	c) Local sand	Cum	157.40
11	d) Local Sand at Site	Cum	300.72
12	Boulder	Cum	1973.94
13	a) Cement	Ton	577.28
14	b) Cement at Site	Ton	6427.68
15	Geo Bags	Nos.	238.20
16	Bitumen (S-90) (FROM MUZAFFARPUR)	Ton	1757.82
17	Bitumen Emulsion SS & RS (FROM BARAUNI)	Ton	2091.30
18	a) Hume Pipe NP 3 (600 MM DIA)	m	300.74
19	b) Hume pie (600 dia) at site	m	2875.55
20	a) Hume Pipe NP 3 (1000MM DIA)	m	746.63
21	b) Hume Pipe NP 3 (1000MM DIA) at site	m	3504.85
22	Steel	Ton	595.90
23	Brick	per 1000	716.66
24	Brick Bats / Rama metal	Cum	647.70

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Works Circle Madhepura

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SUMMARY OF RATE

Sl. No.	Ref. Code No.	Description of Labour	Rate (Rs.)	Unit
1		Filling E.C. Bags	629.20	%nos.
2		Placing E.C. Bags	911.00	%nos.
3		Filling E.C. Bags and Placing	1553.80	%nos.
4		Filling Geo. Bags	26.40	each
5		Placing Geo. Bags	34.30	each
6		Filling Geo. Bags and Placing	81.00	each
7		Filling E.C. Bags and Placing in N.C	388.50	each
8		Filling E.C. Bags and Placing in B.A.Wire Crates	1243.00	each
9		Filling Geo. Bags and Placing in N.C	364.20	each
10		Filling Geo. Bags and Placing in B.A.Wire Crates(Beggy)	1638.90	each
11		Filling Geo. Bags and Placing in B.A.Wire Crates(Box)	2003.10	each
12		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.5	1092.60	each
13		Filling Geo. Bags and Placing in Gabbin 1.8x1.8x0.6	728.40	each
14		Already Filled E.C. Bags Placing in N.C	231.15	each
15		Already Filled E.C. Bags Placing in B.A.Wire crates	739.68	each
16		Already Filled Geo. Bags Placing in N.C	205.80	each
17		Already Filled Geo. Bags Placing in B.A.Wire Crates(Beggy)	926.10	each
18		Already Filled Geo. Bags Placing in B.A.Wire Crates(Box)	1131.90	each
19		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.5	617.40	each
20		Already Filled Geo. Bags Placing in Gabbin 1.8x1.8x0.6	411.60	each
21		Supply of bamboo 75mm dia	162.70	each
22		Carriage of bamboo 75mm dia lead 5km us	8.70	each
23		Supply of bamboo 100 mm dia	173.70	each
24		Carriage of bamboo 100 mm dia lead 5km us	9.30	each
25		Supply of binding wire	75.04	Kg
26		Laying of porcupine Without boat	834.80	each
27		Laying of porcupine with boat	877.90	each
28		Bamboo piling with jet pump	38.20	each
29		Tree spur	358.00	each
30	M-189	Water	56.20	KL
31	e(ii)	Brick Bats	1041.00	per cum
32	M-006	Local/Fine Sand	143.32	per cum
33		Nails	55.84	per kg
34	222(i)	Bamboo 75mm dia 6m to 8m long	117.65	each
35	232	Sutali	19.75	per kg
36	M-120	Coarse Sand	494.00	per cum
	M-121	Sand (Fine)	143.32	per cum
37	M-081	Cement	5850.40	per mt
38		HP 1000mm dia NP3	2758.22	per mt
39		HP 600mm dia NP3	2574.81	per mt
40	M-159	Sand Bags (Cost of sand and empty cement bag)	8.46	per nos.
41	275	Old empty cement bag(synthetic)(Annexure-I)	292.00	per %nos.
42	276	Nylon Crate of size 1mx1mx1m	39.85	Each
43	M-017	Aggregate 40 mm	494.15	Cum
44	M-016	Aggregate 20 mm	604.91	Cum
45	M-015	Aggregate 10 mm	668.8	Cum
46	M-047	Cement Primer	115.16	litre
47	M-103	Paint (Synthetic Enamel)	516.42	litre
48	M-150	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	516.42	Cum
49	M-151	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	411.33	Cum
50	M-152	Well Graded Material for Sub-Base - Grading III 2.36 mm below	185.94	Cum
51	M-105	Polythene sheet (125 micron)	14.35	Sqm
52		G.I. wire 3.15 mm dia	69.3	per kg
53		Compensation for earth taken from private land	34.81	Cum
54		Stitching Role	30	Nos.

**BASIC RATES
(A) Labour**

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	373.00
L-02	Bitumen Sprayer	day	393.00
L-03	Blacksmith	day	503.00
L-04	Blaster	day	619.00
L-05	Carpenter 1st Class	day	503.00
L-06	Carpenter 2nd Class	day	503.00
L-07	Chips spreader	day	449.00
L-08	Chiseller	day	577.00
L-09	Dresser (Skilled)	day	472.00
L-10	Driller	day	449.00
L-11	Electrician	day	503.00
L-12	Fitter	day	511.00
L-13	Mason (1st class)	day	503.00
L-14	Mason (2nd Class)	day	449.00
L-15	Mate	day	397.00
L-16	Mazdoor (Unskilled)	day	373.00
L-17	Mazdoor (Semi skilled)	day	388.00
L-18	Mazdoor (Skilled)	day	472.00
L-19	Painter (1st class)	day	476.00
L-20	Plumber	day	476.00
L-21	Surveyor	day	454.00
L-22	White Washer	day	476.00

BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Machine	Description of Activity	Output of Machine		Usage Rates in Rs.	
			Unit	Output	Unit	Rate
PM-008	Dozer - D 175 HP	Dozing cutting	cum/h	200.00	per hour	4,249.00
			cum/h	100.00		4,249.00
		Excavation	cum/h	100.00	per hour	2,272.00
PM-013	Hydraulic Excavator 0.9 cum	Excavation	Day	50.00	per Day	50.00
			Day	50.00	per Day	50.00
			Hour	74.00	per Hour	74.00
			Hour	74.00	per Hour	74.00
PM-017	Front end-loader 1 cum bucket capacity	Hire Charge of stitching machine	Day	50.00	per Day	50.00
		Hire Charge of Manual Trolley	Day	50.00	per Day	50.00
		Hire Charge of 3KVA generator	Day	50.00	per Day	50.00
PM-032	Motor Grader	Loading Aggregates	cum/h	25.00	per hour	2,033.00
		Loading Soil	cum/h	60.00	per hour	2,033.00
		Scarifier & levelling	cum/h	200.00	per hour	4,403.00
PM-032	Tractor Mounted Grader	Scarifier & levelling	cum/h	50.00	per hour	1,100.75
			Hour	612.00	per Hour	612.00
			Hour	612.00	per Hour	612.00
PM-033	Needle vibrator	Vibrating cement concrete mix	Hour	612.00	per Hour	612.00
			Hour	612.00	per Hour	612.00
			Hour	612.00	per Hour	612.00
PM-035	Paver finisher	Laying/spreading	cum/h	3.50	per hour	386.00
			cum/h	40.00	per hour	2,141.00
			cum/h	40.00	per hour	2,141.00
PM-086	Plate compactor	Compaction	cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
PM-087	Plate vibrator	Compaction	cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
PM-088	Screed vibrator	Compaction	cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
			cum/h	40.00	per hour	469.70
PM-044	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	1,978.00
			cum/h	30.00	per hour	1,978.00
			cum/h	30.00	per hour	1,978.00
PM-045	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	27,581.30
			t/h	200.00	per hour	27,581.30
			t/h	200.00	per hour	27,581.30
PM-046	Three wheel 80-100 kN Static Roller	Compaction/ Rolling				1,518.00
			cum/h	80/70		1,518.00
			cum/h	10.00	per hour	1,518.00
			cum/h	8.00	per hour	1,518.00
			cum/h	16.00	per hour	1,518.00
PM-047	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,426.00
PM-048	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	549.00
PM-049	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	629.00

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-050	Tractor with trolley/with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	629.00
PM-051	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-052	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.50
PM-053	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	2,338.00
		Compaction of BM	cum/h	60.00	per hour	2,338.00
PM-054	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	752.00
PM-055	Wet mix plant (Pug Mill)	Wet Mix	cum/h	25.00	per hour	1,822.30

Analysis of Rate							
Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)	
Carriage of materials (By Tractor)							
1	1.4	Cost of Haulage excluding Loading & Unloading					
	RCD	Haulage of materials by Tractor excluding cost of loading, unloading, and stacking					
		Unit = t.km					
		Taking output 3.60 Tonne load and lead 10 km = 36.0 t.km					
		Case-I: Surfaced Road					
		Speed with load: 15 km per hour					
		Speed while returning empty: 25 km per hour					
	a)	Machinery					
		Tractor 3.6 t capacity					
		Time taken for onwads haulage with load	hour	0.667	629.00		419.54
		Time taken for empty return trip	hour	0.400	629.00		251.60
		Total					671.14
		Add OH@12%					-
							671.14
		Rate per Ton.km					18.64
		Case-II: Unsurfaced Gravel Road					
		Speed with load: 12 km/hour					
		Speed for empty return trip: 20 km/hour					
	a)	Machinery					
		Tractor 3.6 t capacity					
		Time taken for onwads haulage with load	hour	0.833	629.00		523.96
		Time taken for empty return trip	hour	0.500	629.00		314.50
		Total					838.46
		Add OH@12%					-
							838.46
		Rate per Ton.km					23.29
	(c)	Case-III: Katcha Track and Track in River Bed / Nallah Bed and Choe Bed					
		Speed with load : 10 km / hour					
		Speed with returning empty : 15 km / hour					
	(a)	Machinery					
		Tipper 10 tonnes or 5.5 cum capacity	hour	1.000	1,426.00		1,426.00
		Time taken for empty return trip	hour	0.667	1,426.00		951.14
		Total					2,377.14
		Add OH@12%					-
		Cost for 36.0 t.km = a+b					2,377.14
		Rate per Ton.km					66.03
2	6.6.1.	Labour for laying Brick bats /dry graded jhama khoa or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete job as per approved design, specification and direction of E/I					
	WRD	Unit = Per Cum					
		Taking output= 2.832 Cum.					
	a)	Labour					
		Mazdoor (Unskilled)	Nos	3.00	373.00		1,119.00
	b)	Overheads @ 12% on (a)					0.00
		Rate for 2.832 Cum					1,119.00
		Rate Per Cum					395.13
3	1.1	Loading and Unloading of Stone Boulder, Stone aggregate, Sand, Kankar, Moorum, Brick Bats and Sand etc.					
	RCD	Unit = Per Cum					
		Taking output= 2.25 Cum					
		Time required for					
	i)	Positioning of tipper at unloading point	day	1 Min			
	ii)	Loading by front end loader 1 cum bucket capacity @ 25 cum per hour	day	5Min			
	iii)	Maneuvering, reversing, dumping and turning for return		0Min			
	iv)	Waiting time, unforeseen contingencies etc	hour	0Min			
		Total		6Min			
	a)	Labour					
		Mate	day	0.03	397.00		11.91
		Mazdoor for Loading and unloading	day	0.72	373.00		268.56
	b)	Machinery					
		Tractor 3.6 t capacity	Hour	0.10	629.00		62.90
		Front end loader 1 cum bucket capacity @ 25 cum per hour	Hour	0.08	2,033.00		168.74
		Add OH@12%					512.11

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
						512.11
						227.60
		Rate per Cum=(a+b+c)/2.25				
		Note:- Unloading will be done Manually.				
4	9.3	1100 Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row . Providing and Laying Reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .				
		1000 mm dia Hume Pipe				
		Unit-m				
		Taking Out put-7.5 m (3 pipes of 2.5 m lengthg each)				
		a) Material				
		Sand at site	cum	0.04	3,293.47	131.74
		Cement at site	ton	0.03	6,427.68	192.83
		RCC pipe NP3 pipe including collar at site	m	7.50	3,504.85	26,286.38
		b) Labour				
		Mate	day	0.09	397.00	35.73
		Mason (1 class)	day	0.25	503.00	125.75
		Mazdoor(Unskilled)	day	2.00	373.00	746.00
						27,518.42
		Add OH@12%				27,518.42
		Cost for 7.50 m =				27,518.42
		Rate per M=				3,669.12
5		(Providing and laying of brick bats obtained from chimney with machnical means with all spreading gradding to required slope and compacted at OMC to achieve required density with all completed as per direction of E/I)				
		Taking out put=100 cum				
		a) Labour				
		Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)	day	1.00	360.94	360.94
		b) Materials				
		Bricks Bats -Basic Rate Taken From RCD S.O.R. Schedule-M:11-S(ii) dt-30.01.2024	Cum	1	1041.00	1041.00
		Add-Carriage Charge for Brick bats				647.70
		Total Cost				2,049.64
		NET TOTAL COST PER CUM				2,049.64
		SAY Rs				2,049.64
6	5.7.7	Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc.complete job as per specification and direction of E / L.				
	WRD	Unit :- Per M				
		Taking Out put:- 30.50 Mtr				
		(Assuming 20 nos. pile sunk 1.525 mtr deep)				
		Total depth sunk 30.50 meter				
		(a) Labour				
		Carpenter Gr II	Nos	1.00	503.00	503.00
		Unskilled mazdoor for piling	Nos	3.00	373.00	1,119.00
						1,622.00
		Overheads @ 12%				-
						1,622.00
						1,622.00
		Rate Per M				53.18
7	5.7.8	Providing fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire 3.15 mm dia or nails complete job as per specification and direction of E / L.				
		Unit :- Per M2				
		Taking Out put:- 9.30 Sqm				
		(Assuming strip of 3.05x3.05 = 9.30 sqm)				
		a) Material				
		1 75 mm to 100mm long nail	kg	0.25	55.84	13.96
		2 Bamboo -75mm dia to 62 mm dia				
		Bamboo @75mm = 3050/75 = 40.67				
		Sey=41Nosx3.05=125.05M				
		Add for Lower Binder of chachari				
		10x3.75=30.50M				
		Runner @150mmc/c=7x3.05=21.35M				
		Total length of Bamboo=176.9M				
		Total No of Bamboo=176.9/6=30No	No	30	117.65	3529.5

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		b Labour				
		Carpenter Gr II	Nos	1.00	503.00	503.00
		Unskilled mazdoor for piling	Nos	1.00	373.00	373.00
		Overheads @ 12% on labour charge (343.00 + 287.00)				-
						4,419.46
		Rate Per M2				475.21
8	5.7.8	Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire 3.15 mm dia or nails complete job as per specification and direction of E / I.				
	WRD	Unit :- Per M2				
		Taking Out put:- 9.30 Sqm				
		(Assuming strip of 3.05x3.05 = 9.30 sqm)				
	(a)	Material				
		G.I. wire 3.15 mm dia	Kg	0.250	69.30	17.33
	(b)	Labour				
		Carpenter Gr II	Nos	1.00	503.00	503.00
		Unskilled mazdoor for piling	Nos	1.00	373.00	373.00
						893.33
		Overheads @ 12%				-
						893.33
						893.33
		Rate Per M2				96.06
9	5.7.9	Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E / I.				
	WRD	Unit :- Per M				
		Taking Out put:- 30.50 Mtr				
	(a)	Materials				
		Cost of 150 mm long nails	Kg	0.50	55.84	27.92
	(b)	Labour				
		Carpenter Gr II	Nos	0.13	503.00	65.39
		Unskilled mazdoor for piling	Nos	0.25	373.00	93.25
						186.56
		Overheads @ 12%				-
						186.56
						186.56
		Rate Per M				6.12
10		Supplying bamboo 75 mm dia 6 m to 8 m long at..... complete job as per specification and direction of E / I.				
		Taking Out put:- 115 nos				
	(a)	Material				
		Supplying bamboo 75 mm dia 6 m to 8 m long (Cost of bamboo)	Nos	115	162.70	18,710.50
		Add Carriage Charge for Bamboo				292.22
		Add Labour for laying Bamboo				395.13
						19,397.85
		Overheads @ 12%				-
						19,397.85
						19,397.85
		Rate Per each Bamboo				168.68
11	5.7.40.1	Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete as per approved design, specifications and direction of E/I				
	WRD	Unit :- Per % nos				
		Taking Out put:- 100 nos				
	(a)	Supplying of Sand bags (Cost of sand and Empty cement bag)	Nos	100	8.46	846.00
		Carriage cost for Local sand (100 no. of Bags=100x0.034m3)	cum	3.4	300.72	1022.45
					Total	1868.45
	(b)	For filling & stitching & stacking				
		(a) Unskilled mazdoor for filling sand into bags and sewing	Nos	2	373	746.00
		(b) Sutali	Kg	0.5	19.75	9.88
					Total	755.88
	(c)	Labour rate for Carrying & Placing to work site of E.C.Bags				

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
		(a) Unskilled mazdoor for carring filled bags and placing to work site	Nos	3	373	1119.00
		Total (A+B+C)=				3743.32
		Add overhead chrage @12%				0.00
						3743.32
		Total Net Rs.				3743.32
		Rate per %				37.43
		Sand Each Bag			Say	Rs 37.43
12	5.7.40.2 WRD SOR Page 159	Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I				
		Unit :- Each N.C				
		Taking Out Put = 25 nos. filled E.C. Bags in each N/C				
		Cost of 25 nos of filled E.C.Bags (Vide item no. 5.7.40.1	Nos	25	37.43	935.83
		Rate each				935.83
13		Supply of Nylon Crate of size 1mx1mx1m			39.85	39.85
		Material				
	(a)	Nylon Crate				39.85
	(b)	Add Overhead charge @12%				0.00
		Total (a+b)				39.85
		Rate per nos.				39.85
14	11.2	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		Unit = Per Cum				
	a	Material				
		Sand(assuming 20 persent voids)	cum	1.20	143.32	171.98
	b	Labour				
		Mate	day	0.01	397.00	3.97
		Mazdoor(Unskilled)	day	0.3	373.00	111.90
						287.85
		Add overhead chrage @12%				0
						287.854
		total=				287.85
		Carraige cost for Local sand				292.22
		Rate per cum				580.07

Bill of Quantity-(Phase-I)

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY
RESTORATION OF ROAD FROM L058-ASANPUR TO
MUSHARI.

BLOCK :-
DISTRICT :-

KISHANPUR
SUPAUL

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	A/R	Providing & laying Brick Bat....				
		Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.	1694.91	Cum	2049.64	3473955.98
					Total=	3473955.98
						625312.08
		Add @18% GST				34739.56
		Add @1% Lebour Cess				176439.96
		Seigniorage Fees			Total Rs=	4310447.58
					Say	4310448.00


Executive Engineer
RWD (W) Div. Supaul

प्रतिवेदन

पथ का नाम
कार्य का नाम

:- L058-Ashanpur to Mushari Tola
:- Temporary restoration work of L058-Ashanpur to
Mushari Tola (Part-I)

प्रस्तुत प्राक्कलन 27 September 2024 को किरानपुर प्रखण्ड में आयी भीषण बाढ़ से क्षतिग्रस्त L058 Ashanpur to Mushari Tola (BKBDP) पथ में यातायात चालू करने हेतु तैयार किया गया है जिसकी प्राक्कलित लागत राशि 4310447 = 00 है। उक्त पथ का निर्माण BKBDP योजनान्तर्गत हुआ था एवं योजना अनुसूक्षण अवधि से बहर है।

पथ के कटे (क्षतिग्रस्त) भाग में आवश्यकता अनुसार BRICK BATS एवं LOCAL SAND देने के बाद यातायात चालू कराया गया है। पथ के विभिन्न हिस्से में कराये गये कार्य का विवरणी स्पष्ट रूप से प्राक्कलन में दर्शाया गया है।

प्राक्कलन मदों का दर वर्तमान अनुसूचित दर के अनुसार है।

कनीय अभियंता,
ग्रामीण काय विभाग,
कार्य प्रशाखा, सुपौल।

सहायक अभियंता,
ग्रामीण काय विभाग,
कार्य अवर प्रमण्डल, सुपौल।

कार्यपालक अभियंता,
ग्रामीण काय विभाग,
कार्य प्रमण्डल, सुपौल।

Inspection Report for Flood Damage Work

Date :

1. Name of PIUs :- EE RWD WORKS DIVISION, SUPAUL
2. Name of Block/Road :- KISHANPUR, SUPAUL
LOS8 Ashanpur to Mushari (BKBDP)

A. For Road

1. Damage Location/Chainage : ch - 0 to 880 mtr
2. Damage Length :
3. Nature of Damage : FULL BREACH
4. Details of Restoration Works :
 - i. Material being used in Restoration work : BRICK BATS, LOCAL SAND
 - ii. Equipment/Tools being used in Restoration work : JCB, TRACTOR
 - iii. Procedure taken up in Restoration work : PLACING OF MATERIAL, COMPACTION
 - iv. Restored Length : 880 mtr

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration Works :
 - i. Material being used in Restoration work :
 - ii. Equipment/Tools being used in Restoration work :
 - iii. Procedure taken up in Restoration work :
 - iv. Restored Length :

JE

AE

EE

Executive Engineer
Rural Work's Department
Work's Division, Supaul

Signature

(Name of Inspector)

Executive Engineer
Rural Works Department
Works Division Udakishi




10/11/24


10/11/24

Executive Engineer
Rural Work's Department
Work's Division, Sup



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 10/11/24

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Executive Engineer
 Rural Work's Department
 Work's Division, Supaul



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 10/11/24

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Executive Engineer
 Rural Work's Department
 Work's Division, Supaul



Latitude: 26.297634
Longitude: 86.620656
Elevation: 43.61±58 m
Accuracy: 6.3 m
Time: 09-29-2024 14:39
Note: L-058Asanpur se Mushari

Powered by NoteCam



Latitude: 26.296242
Longitude: 86.621485
Elevation: 27.61±100 m
Accuracy: 13.4 m
Time: 09-29-2024 14:35
Note: L-058Asanpur se Mushari

Powered by NoteCam

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10/11/24

[Signature]

Executive Engineer
Rural Work's Department
Work's Division, Supaul



Latitude: 26.296623
Longitude: 86.619385
Elevation: 20.72±120 m
Accuracy: 12.6 m
Time: 09-29-2024 14:47
Note: L-058Asanpur se Mushari

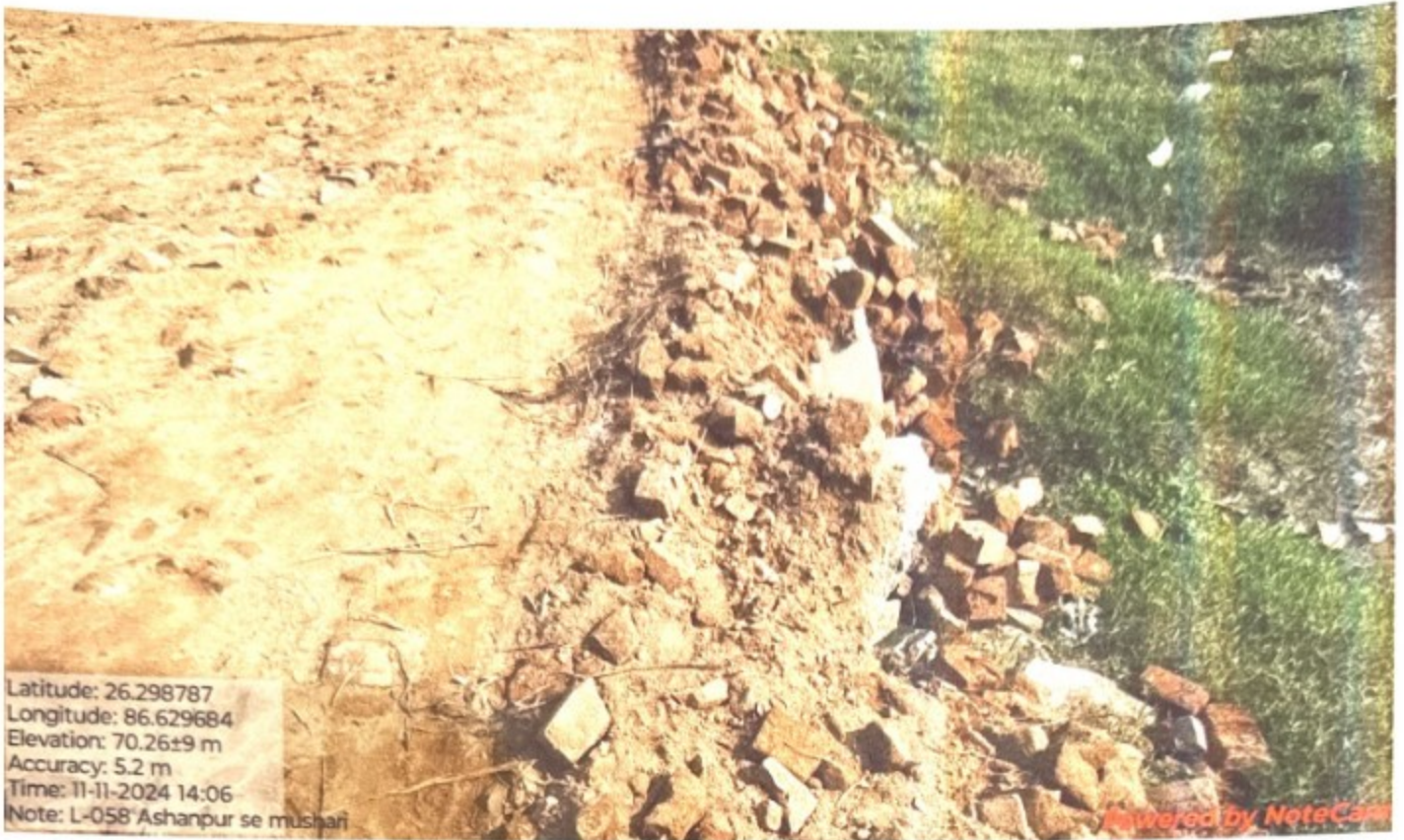


Latitude: 26.297159
Longitude: 86.620135
Elevation: 41.21±80 m
Accuracy: 9.2 m
Time: 09-29-2024 14:44
Note: L-058Asanpur se Mushari

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10/11/24

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Executive Engineer
Rural Work's Department
Work's Division, Supaul



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10/11/24

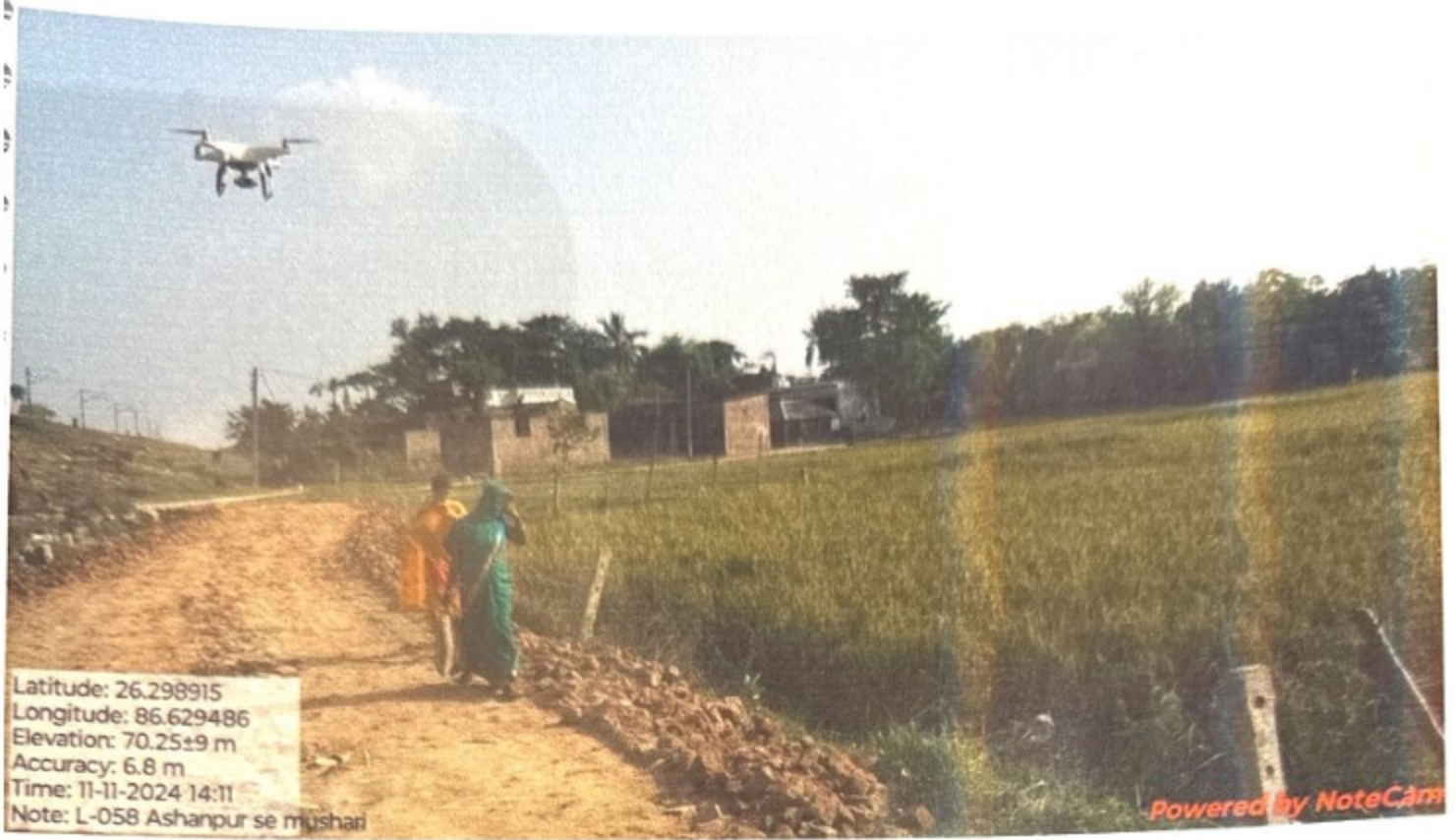
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Executive Engineer
Rural Work's Department
Work's Division, Supaul



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10/11/24

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Executive Engineer
Rural Work's Department
Work's Division, Supaul



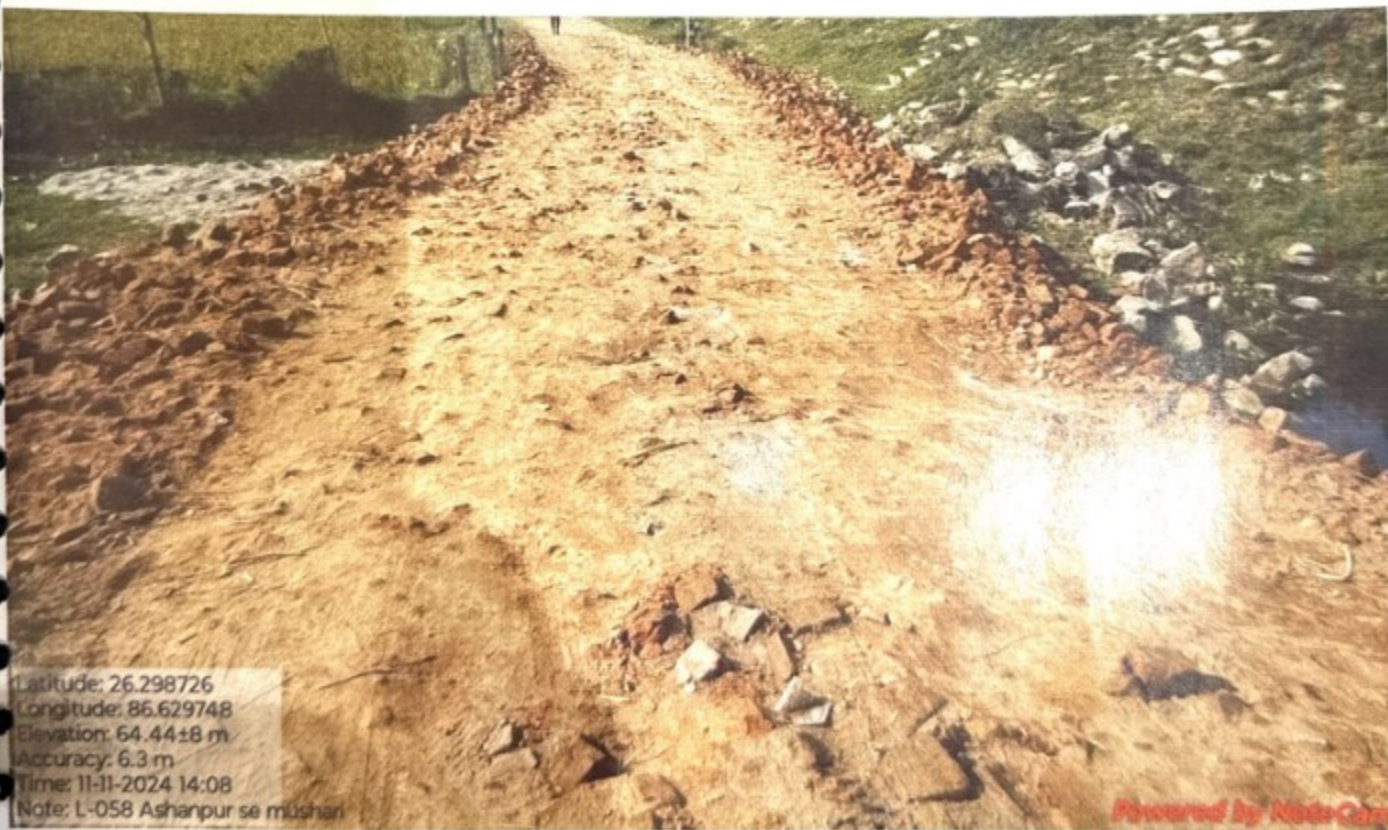
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 Executive Engineer
 Rural Work's Department
 Work's Division, Supaul



11/11/24

Executive Engineer
Rural Work's Department
Work's Division, Supaul



11/11/24

(Signature)

Executive Engineer
 Rural Work's Department
 Work's Division, Supa



Latitude: 26.298819
Longitude: 86.629663
Elevation: 71.47±8 m
Accuracy: 4.6 m
Time: 11-11-2024 14:06
Note: L-058 Ashanpur se mushan

Powered by NanoCam



Latitude: 26.29872
Longitude: 86.629795
Elevation: 73.73±13 m
Accuracy: 6.0 m
Time: 11-11-2024 14:07
Note: L-058 Ashanpur se mushan

Powered by NanoCam

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11/11/24

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Executive Engineer
Rural Work's Department
Work's Division, Supaul