

Govt. of Bihar



**DETAILED ESTIMATE FOR REPAIR OF FLOOD
FDR-(2024-2025)**

**NAME OF WORK:-REPAIR OF FLOOD DAMAGE
ROAD SHAMBHUGANJ-ROAD TO BIRNAUDHA**

RURAL WORKS DEPARTMENT GOVT. OF BIHAR



**NAME OF ROAD:-DETAILED ESTIMATE FOR REPAIR OF FLOOD
DAMAGE ROAD SHAMBHUGANJ-ROAD TO BIRNAUDHA**

STATE :-	BIHAR	DISTRICT :-	BANKA
BLOCK :-	SHAMBHUGANJ	DAMAGE LENGTH-20 M	

Total Construction cost (including GST and Labour Cess & S.F.) (Excluded CP & Overhead charge) :-	3.7760	Lakh
Drone Photography @ Rs.-5000/ per stage + still Photography of damage and Restoration work Rs.-5500/ = 15000+5500=20500/-	0.2050	Lakh
Total Construction cost:-	3.77595 3.9810	Lakh

Submitted By:- Executive Engineer
RWD (w) Division, Banka-1

ग्रामीण कार्य विभाग कार्य प्रमंडल बांका-1

Details of FDR Road & Bridge

Sl.No	Block	Road/Bridge Name	Scheme	Status	Is Maintenance	Length	Approximate Damage Length During Flood(In Km)	Restoration Amount	Remarks	FDR Fin Year	Type
			Name	(Comp/Outgoing)	(Y/N)	(In Km)		(In Lakhs)			(R/O)
1	Shambhuganj	Shambhuganj Asarganj path to bhainsudha path	MIR	Completed	No	4.64	0.015	15	Road damage due to excessive rainfall and heavy current of Canal	2024-25	Road
2	Shambhuganj	Pakariya More Rampur Dhaubi to Pakariya Uttarai Tola	MMGSY[SC]	Completed	Yes	0.895	0.041	1	Road damage due to excessive rainfall and heavy current in the Canal	2024-25	Road
3	Shambhuganj	KHESHAH TARAPUR TO JILANI	MIR	Completed	No	18.4	0.022	8	Constructed diversion damaged due to excessive discharge in the River	2024-25	Road


 13/11/24
 J.E.


 13/11/24

तकनीकी प्रतिवेदन (FDR-2023-24)

कार्य प्रमंडल का नाम	- बांका-1
कार्य अंचल का नाम	- भागलपुर
योजना शीर्ष	- FDR
योजना का नाम	- शंभुगंज असरगंज से बिरनौधा
पथ की लंबाई	- 4.64 KM
प्राक्कलित राशि	- 2.9810 लाख 3.77595 लाख

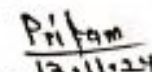
वर्णित पथ वर्ष 2024 में खुनिया नदी में आयी अतिवृष्टि से ग्रामीण कार्य विभाग, कार्य प्रमंडल बांका-1 अन्तर्गत शंभुगंज असरगंज से बिरनौधा पथ के क्षतिग्रस्त पथांश में यातायात पुर्नवहाल कराने हेतु प्राक्कलन तैयार किया गया है। पथ के क्षतिग्रस्त भाग को तत्काल 1000 MM dia का Hume Pipe का दो परत में डालकर Cement बैग के साथ ही मिट्टी और GSB का कार्य मोटरेबुल हेतु कराया गया है।

कराये गये कार्य का प्राक्कलन स्वीकृत दर पर तैयार किया गया है, तथा कार्य का विवरण MIS के FDR Module में प्रविष्टि किया गया है।

कार्य पूर्ण कराये जाने के उपरान्त प्राक्कलन की तकनीकी अनुमोदन सह तकनीकी स्वीकृति अपेक्षित है।


कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, शंभुगंज-2

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल, शंभुगंज


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, बांका-1

GENERAL ABSTRACT OF COST		
NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE RAOA SHAMBHUGANJ-ASARGANJ ROAD TO BIRNAUDHA		
DISTRICT BLOCK		
Banka SHAMBHUGANJ		
Sl. No.	DESCRIPTION	AMOUNT (IN RS.)
A	Total Construction cost (including GST and Labour Cess & S.F.) (Excluded CP & Overhead charge) :-	377595.00
B	Drone Photography @ Rs.-5000/ per stage + still Photography of damage and Restoration work Rs.-5500/ = 15000+5500=20500/-	20500.00
		3,77,595.00
	Total Construction cost:-	398095.000
	SAY Rs. In Lakh-	3.9810

3.775 lakh

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Prithvi
13.11.24
Executive Engineer
RWD (w) Division,
Banka-1

T/S (provisionally) is accorded for Rs. : 3,77,595.00 (Rupees three lakh seventy seven thousand five hundred ninety five) only.

Prithvi
27/11/24
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

SUMMARY OF COST ESTIMATE FOR THE PROJECT		
NAME OF WORK :-DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE		
RAOA SHAMBHUGANJ-ASARGANJ ROAD TO BIRNAUDHA		
DISTRICT	Banka	
BLOCK	SHAMBHUGANJ	
Sl. No.	DESCRIPTION	AMOUNT
1	SAND BAG PITCHING	160125.63
2	RCC NP3 PIPE	118500.00
3	E/W EMBANKMENT	58145.44
4	GSB GRADING- II	40824.00
	SUB TOTAL OF PAVEMENT COST =	377595.07
Total Construction cost (including GSt and Labour Cess & S.F.) (EXCLUDING CP & OVERHEAD) :--		377595.07
	SAY Rs.-	377595.000

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Priyam
19.11.24
Executive Engineer
RWD (w) Division,
Banka-1

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Sl. No.	SDB Sl. No.	MORD Ref. No.	Description	Unit	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
4	4.1	401	Granular Sub-base with 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.							
				Cum	1	20.00	4.05	0.20	16.20	
								16.20	2,520.00	40824.00
			Total Construction Cost (including Gst, Labour Cess and S.F.) (A) :-							377595.07
			SAY RS.-							377595.00

Junior Engineer

RWD (w) Section, Shambhuganj

Assistant Engineer

RWD (w) Sub Division, Shambhuganj

Executive Engineer

RWD (w) Division, Banka-1

P. K. M.
13/11/24

Rate Analysis of Sand Bag with Local Sand

I	PROVIDING SAND BAG WITH LOCAL SAND				
	Providing sand bag with local sand, stiching with sutli & placing stacking in position				
	Taking output 100 no of bags				
A	Materials	UNIT	QTY.	RATE	AMOUNT
	RATE OF LOCAL SAND	CUM	3.47	350.00	1214.50
	RATE OF EC BAG	NO	100	7.90	790.00
	STICHING ROLL (NYLON)	NO.	1	30.00	30.00
B	Labour				
	U/S LABOUR FOR FILLING & STICHING	NO.	2	450.00	900.00
	U/S LABOUR FOR CARRYING & PLACING	NO.	3	450.00	1350.00
	TOTAL-				4284.50
C	CARRIAGE OF LOCAL SAND	CUM	3.470	0.00	0.00
	TOTAL-				4284.50
	ADD OHC+CP 22 % OHC				0.00
					4284.50
	RATE FOR PER BAG				42.85
	RATE PER BAG INCLUDING GST + L.CESS+S.F.				42.85
	Density of cement		1440Kg/m3		
	1 Bag cement weight		50Kg		
	Nos of bags required in 1 m3 (1440/50)		28.80		
	Volume of 1 bag (1/28.80)		0.0347 m3		

Rate Analysis of E/W EMBANKMENT						
3.4	302	Construction of Embankment with Material Obtained from Borrow Pits				
	(A)	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 1000 m</u> as per Technical Specification Clause 301.5				
SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		Unit = cum Taking output = 100 cum				
	a)	Labour				
		Mate	day	0.04	470.00	18.80
		Mazdoor (Unskilled)	day	1.00	450.00	450.00
	b)	Machinery				
		Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	1600.00	2,672.00
		Tipper 5.5 cum with 10 t capacity	hour	4.50	1,700.00	7,650.00
		Add 10 % of the cost of carriage by tipper				0.00
		Dozer D-50 for spreading @ 100 cum per hour	hour	0.50	2,997.00	1,498.50
		Tractor monted grader for grading @ 100 cum per hour	hour	1.00	843.71	843.71
		Water tanker 6 kl capacity	hour	2.00	800.00	1,600.00
		Three wheel 80-100 kN Static Roller @ 80 cum per hour	hour	1.25	1,800.00	2,250.00
	c)	Material				
		Water	kl	12.00	61.40	736.80
		Compensation for earth taken from private land	cum	100.00	35.25	3,525.00
	d)	Overheads & Contractor's profit @ 22.00 % on (a+b+c)				0.00
		Cost for 100 cum = a+b+c+d				21,244.81
		Rate per cum = (a+b+c+d)/100=				212.45
	0		CUM			212.45

Rate Analysis of Sand Bag with Local Sand

1	PROVIDING SAND BAG WITH LOCAL SAND				
	Providing sand bag with local sand, stiching with sutli & placing stacking in position				
	Taking output 100 no of bags				
A	Materials	UNIT	QTY.	RATE	AMOUNT
	RATE OF LOCAL SAND	CUM	3.47	350.00	1214.50
	RATE OF EC BAG	NO.	100	7.28 7.28	728.00
	STICHING ROLL (NYLON)	NO.	1	30.00	30.00
B	Labour			450	
	U/S LABOUR FOR FILLING & STICHING	NO.	2	470.00 450	940.00
	U/S LABOUR FOR CARRYING & PLACING	NO.	3	470.00 450	1410.00
	TOTAL-				4322.50
C	CARRIAGE OF LOCAL SAND	CUM	3.470	0.00	0.00
	TOTAL-				4322.50
	ADD OHC+CP 22 % OHC				0.00
					4322.50
	RATE FOR PER BAG				43.23
	RATE PER BAG INCLUDING GST + L.CESS+S.F.				43.23
	Density of cement		1440Kg/m ³		
	1 Bag cement weight		50Kg		
	Nos of bags required in 1 m ³ (1440/50)		28.80		
	Volume of 1 bag (1/28.80)		0.0347 m ³		

EARTH WORK CALCULATION

NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE ROA
SHAMBHUGANJ - ASARGANJ ROAD TO BIRNOUDHA

CH.	DISTANCE.	FILL AREA	MEAN AREA	QUANTITY IN M3	REMARK
0	0	10.05	0	0	
3	3	15.27	12.660	37.980	
5	2	25.25	20.260	40.520	
10	5	28.27	26.760	133.800	
15	5	25.85	27.060	135.300	
17	2	14.65	20.250	40.500	
20	3	9.76	12.205	36.620	
TOTAL QTY. ;				424.72	M3
LESS GSB GR-I				16.20	M3
LESS SAND BAG 2X10MX(2.0+1.0)/2X2.00				60.00	M3
LESS SAND BAG BELOW HP 1X10MX9.50X0.60				57.00	M3
LESS 1000MM DIA NP3 RCC PIPE VOLUME				17.83	M3
2ROW X 7.50MX0.7857X1.23X1.23					

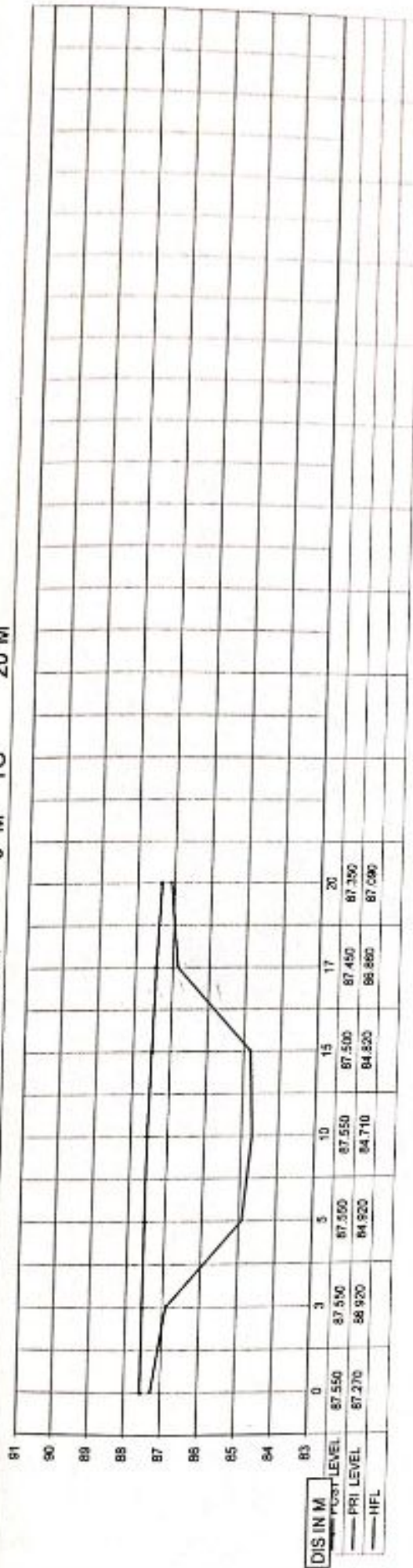
TOTAL QTY.- 273.690 M3

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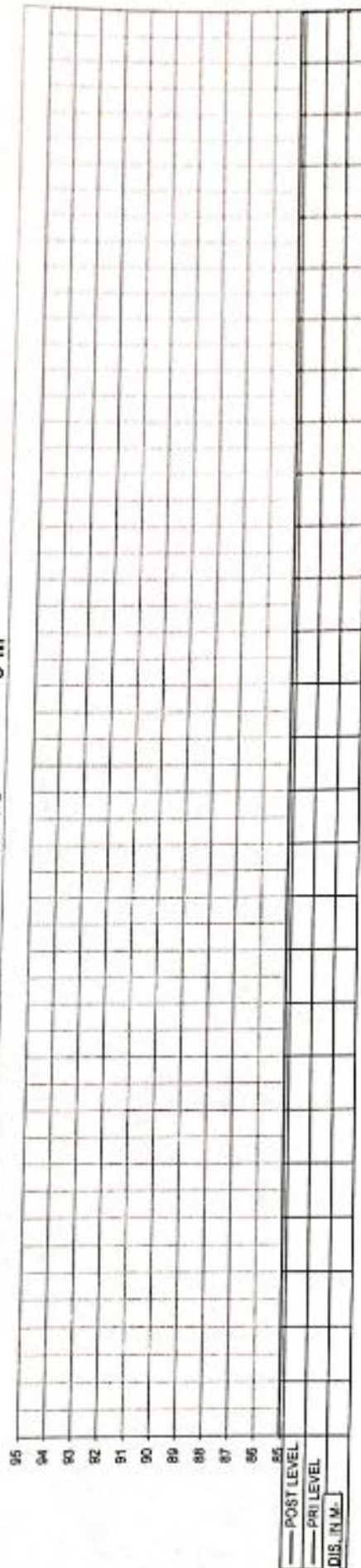
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A. K. M
13.11.24
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L/S FROM 0 M TO 20 M



L/S FROM 0 M TO 0 M



SCALE :-

V = 1 DIV. = 1 M NAME OF WORK :- REPAIR OF FLOOD DAMAGE ROAD
H - 1 DIV. = M SHAMBHUGANJ - ASARGANJ ROAD TO BIRNOUDHA

GOVT. OF BIHAR
R. W. D. WORK DIVISION BANKA-1

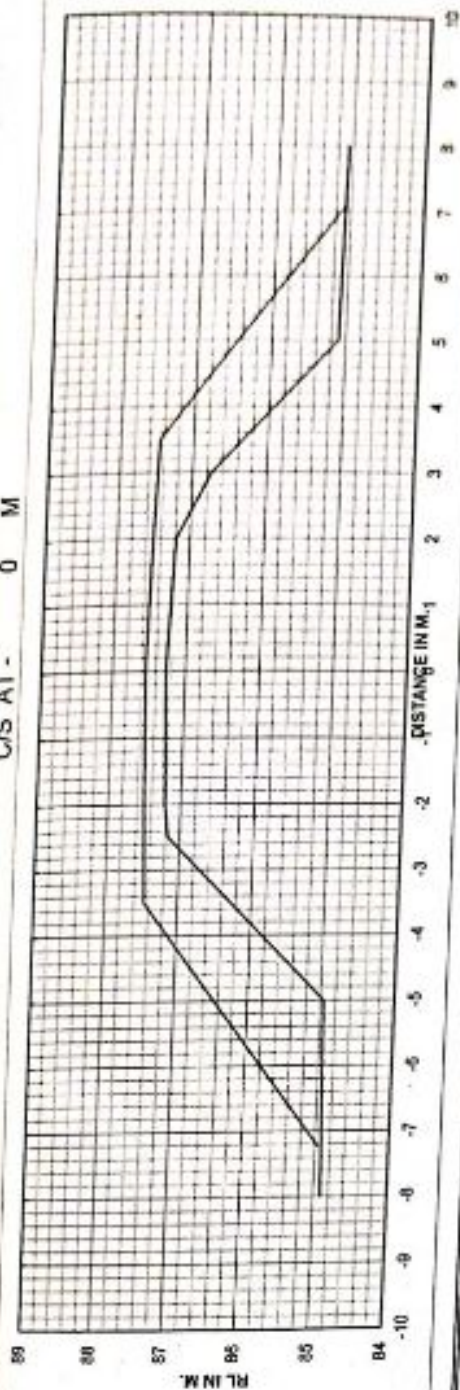
J. E.

A. E.

E. E.

EXT. ROAD LEV.	
DIS IN M	R.L.
-8.000	84.910
-5.000	84.970
-2.500	87.160
-2.000	87.220
0.000	87.270
2.000	87.190
3.000	86.740
5.000	85.100
8.000	85.060

C/S AT - 0 M

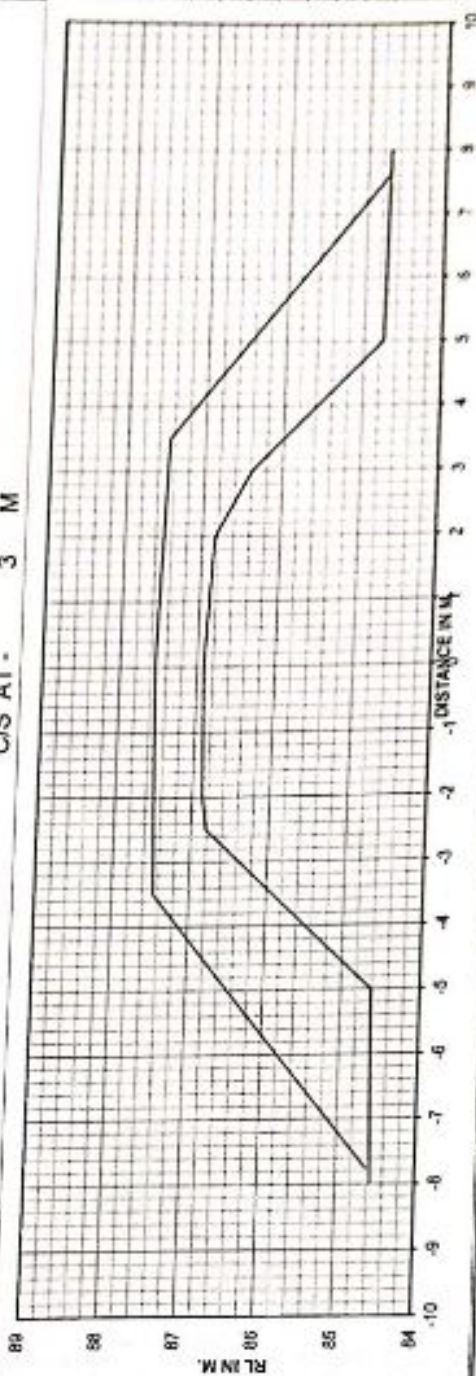


FORMATION LEVEL	
-7.23	84.970
-3.50	87.460
-2.00	87.500
0.00	87.550
2.00	87.500
3.50	87.460
7.10	85.060

NET FILLING AREA 10.05 m2

EXT. ROAD LEV.	
DIS IN M	R.L.
-8.000	84.560
-5.000	84.620
-2.500	86.810
-2.000	86.870
0.000	86.920
2.000	86.840
3.000	86.390
5.000	84.750
8.000	84.710

C/S AT - 3 M



FORMATION LEVEL	
-7.75	84.620
-3.50	87.460
-2.00	87.500
0.00	87.550
2.00	87.500
3.50	87.460
7.63	84.710

NET FILLING AREA 15.27 m2

1 Small Div. = 0.2m
1 Small Div. = 0.04 Sqm.

NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE ROAD
SHAMBHUGANJ - ASARGANJ ROAD TO BIRNODHA

GOVT. OF BIHAR
R.W. D. WORK DIVISION BANKA-1

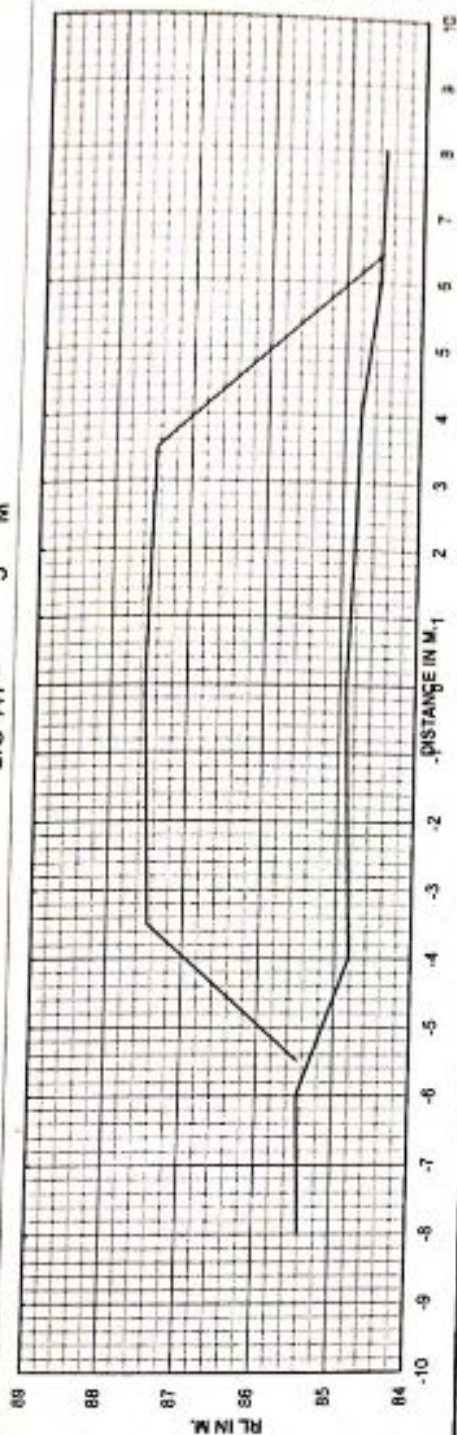
Signature

Signature
13/11/24
EE

J.E. A.E.
J.E. A.E.

C/S AT - 5 M

EXT. ROAD LEV.	DIS IN M	R.L.
	-8.000	85.410
	-6.000	85.470
	-4.000	84.820
	-2.000	84.870
	0.000	84.920
	2.000	84.840
	4.000	84.790
	6.000	84.560
	8.000	84.520

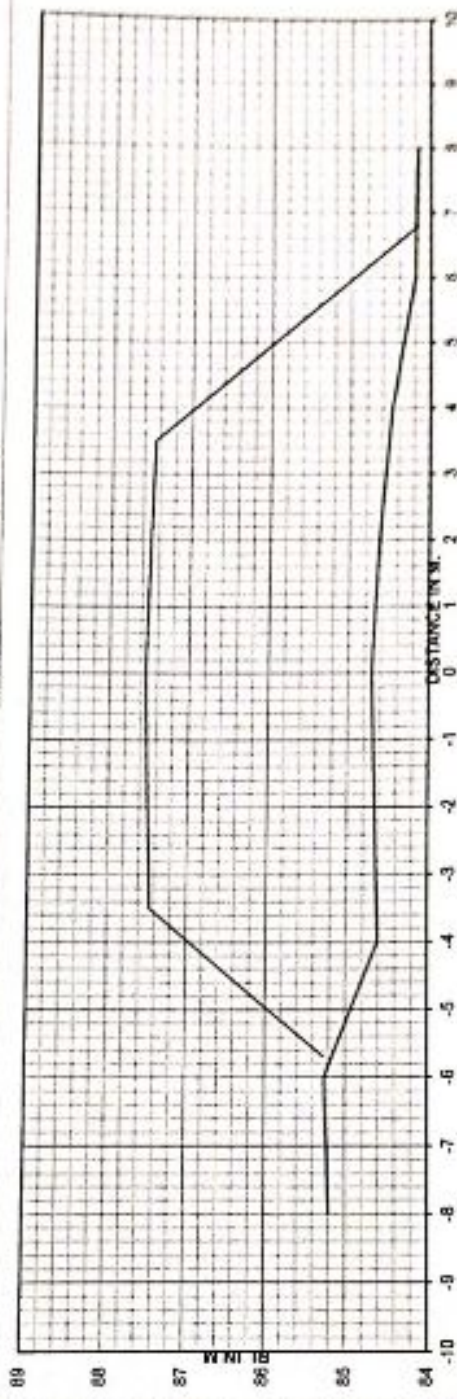


FORMATION LEVEL
-5.49
-3.50
-2.00
0.00
2.00
3.50
5.44

NET FILLING AREA 25.25 m²

C/S AT - 10 M

EXT. ROAD LEV.	DIS IN M	R.L.
	-8.000	85.200
	-6.000	85.260
	-4.000	84.610
	-2.000	84.660
	0.000	84.710
	2.000	84.630
	4.000	84.480
	6.000	84.200
	8.000	84.160



FORMATION LEVEL
-5.70
-3.50
-2.00
0.00
2.00
3.50
5.80

NET FILLING AREA 28.27 m²

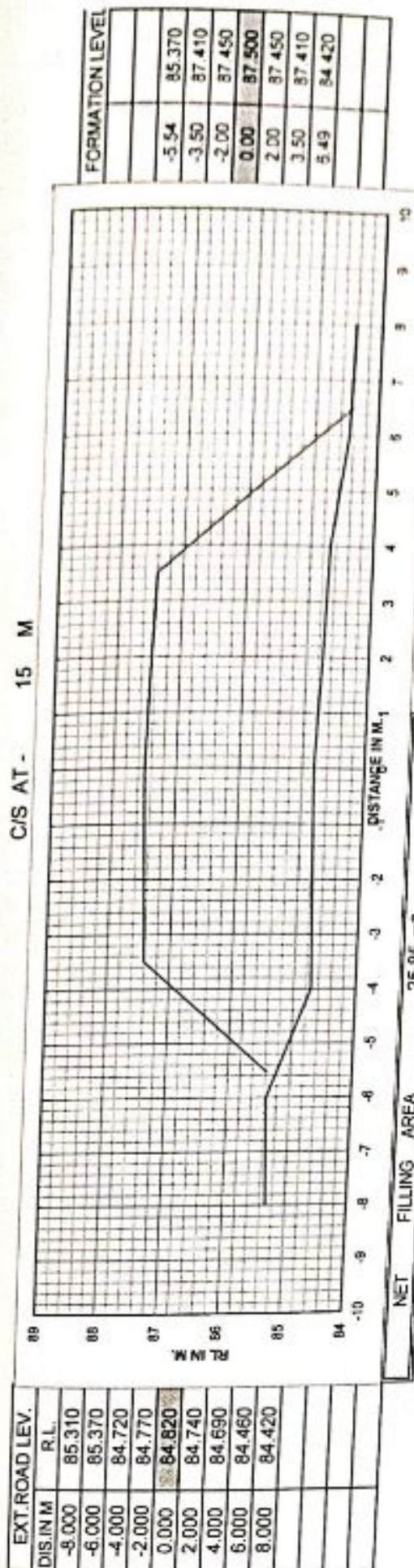
GOVT. OF BIHAR
R.W.D. WORK DIVISION BANKA-1

NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE ROAD
SHAMBHUGANJ - ASARGANJ ROAD TO BIRNOUDHA

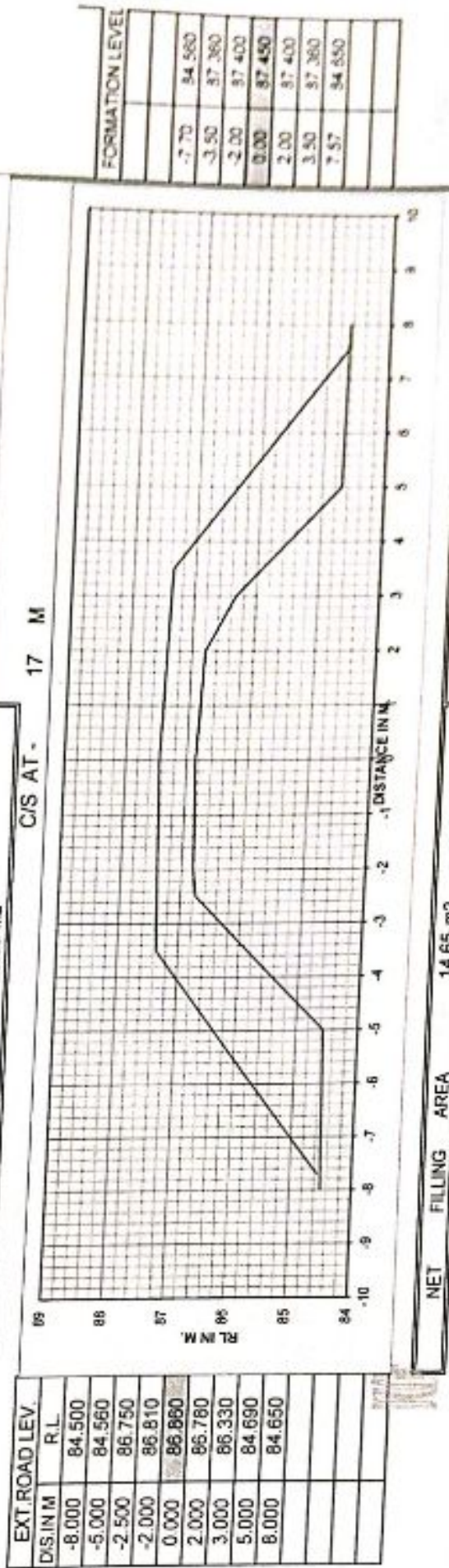
1 Small Div. = 0.2m V/H
1 Small Div. = 0.04 Sqm.

Signature
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EE EE

C/S AT - 15 M



C/S AT - 17 M



1 Small Div. = 0.2m V.H.
1 Small Div. = 0.04 Sqm.

NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE ROAD
SHAMBHUGANJ - ASARGANJ ROAD TO BIRNOUDHA

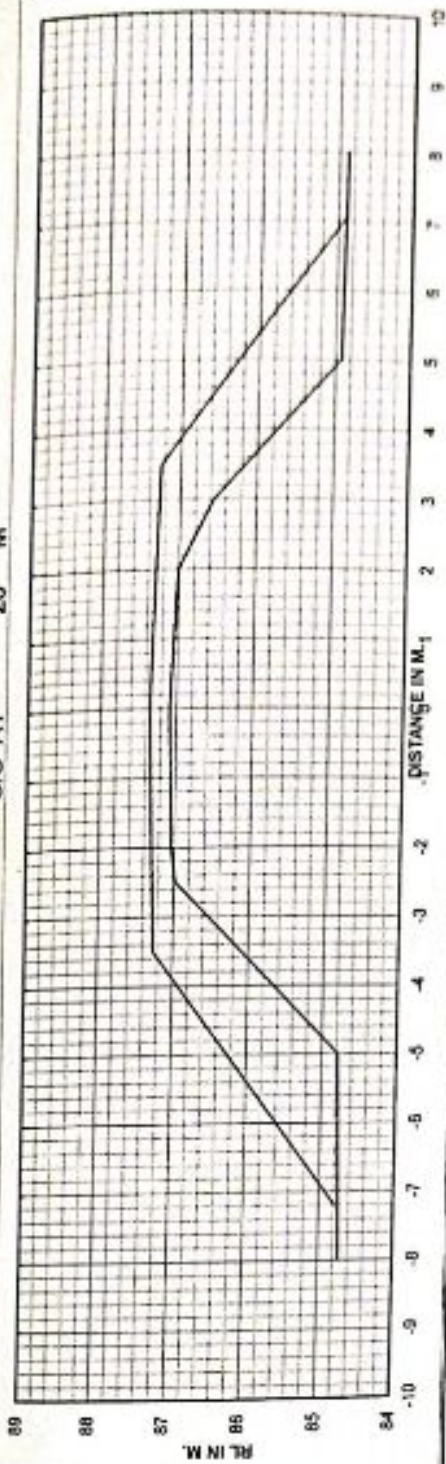
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R.W.D. WORK DIVISION BANKA-1

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C/S AT - 20 M

DIS IN M	EXT. ROAD LEV.
-8.000	84.730
-5.000	84.790
-2.500	85.980
-2.000	87.040
0.000	87.090
2.000	87.010
3.000	86.560
5.000	84.920
8.000	84.880

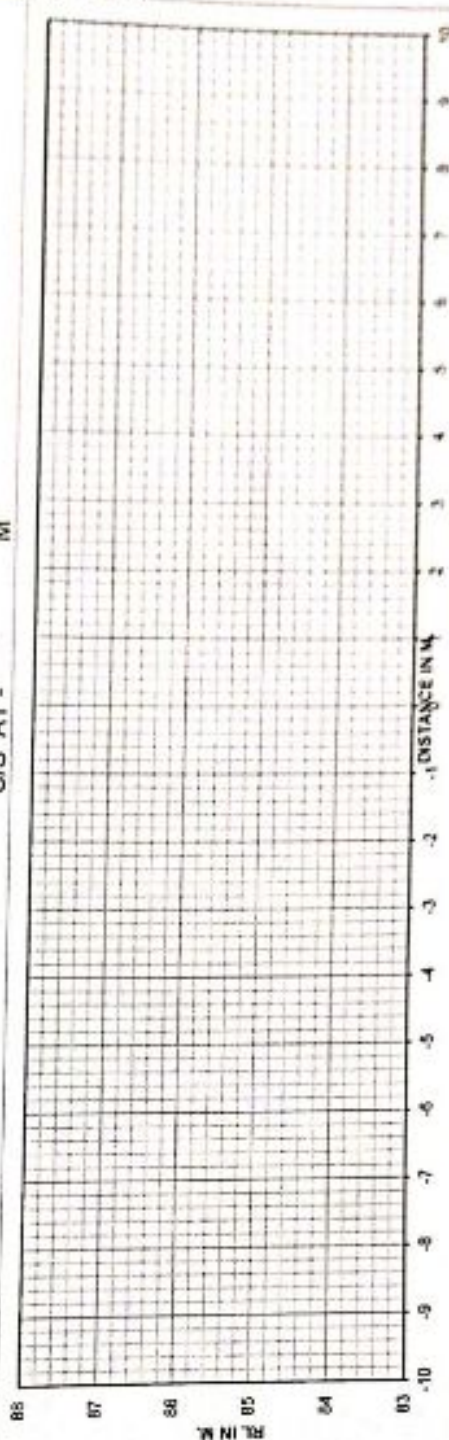


		-7.21	84,790
		-3.50	87,260
		-2.00	87,300
		0.00	87,350
		2.00	87,300
		3.50	87,260
		7.07	84,850

NET	FILLING	AREA
		9.76 m2

C/S AT - M

EXT. ROAD LEV.	
D/S IN M	R.L.



FORMATION LEVEL		

NET	FILLING	AREA
		0 00 m2

GOVT. OF BIHAR
R. W. D. WORK DIVISION BANKA-I

1 Small Div. = 0.2m V/M NAME OF WORK :- DETAILED ESTIMATE FOR REPAIR OF FLOOD DAMAGE ROAD
SHAMBHUGANJ - ASARGANJ ROAD TO BIRNOLCHA
1 Small Div. = 0.04 Sqm.

Jan 13/1924