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बिहार सरकार

ग्रामीण कार्य विभाग

Rural Works Department, Govt. of Bihar

TS Copy

MMGSY NDB (AWSESH) BRRP-2 (TRANCHE -I)

2023-24

BIHAR RURAL ROADS PROJECT

STATE :- BIHAR

DISTRICT :- Munger

BLOCK :- Dharhara

Survey ID :- 22034

Mankothiya Adiwasi Tola Road to Yadav Tola

DETAILED PROJECT REPORT

TOTAL LENGTH OF ROAD	0.800	KM
TOTAL NO. OF CD WORKS	3	Nos.
TOTAL COST OF CD WORKS	Rs. 7.06	Lacs
TOTAL COST OF PAVEMENT	Rs. 53.53	Lacs
GST COST	Rs. 10.91	Lacs
LABOUR CESS	Rs. 0.61	Lacs
SEIGNIORAGE FEE	Rs. 1.31	Lacs
TOTAL COST OF CONSTRUCTION	Rs. 73.41	Lacs
CONTINGENCY COST	Rs. 1.65	Lacs
TOTAL MAINTENANCE COST	Rs. 10.74	Lacs
TOTAL COST OF PROJECT	Rs. 85.81	Lacs
TOTAL COST OF PROJECT PER KM.	Rs. 107.26	Lacs

Submitted by :

Executive Engineer
RWD (W) Division, Munger
Munger

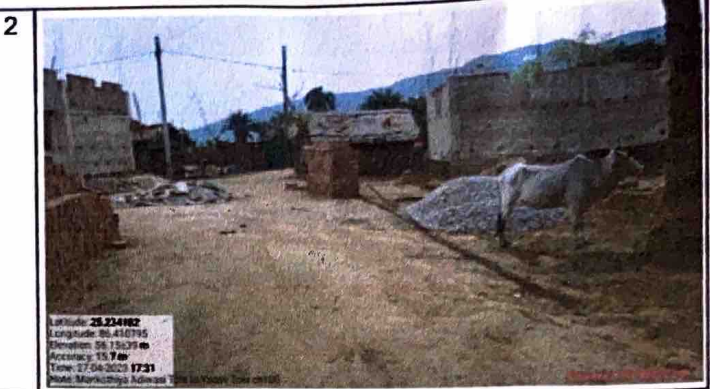
Prepared by :

Shishir Consultants Pvt. Ltd.
Kriti Apartment, Flat no- 33/A, Road No-3H,
New Patliputtra colony, Patna -13
PH # 0612 - 2270007

oad Name : Mankothiya Adiwasi Tola Road to Yadav Tola
Block : Dharhara



Chainage - 00



Chainage - 100



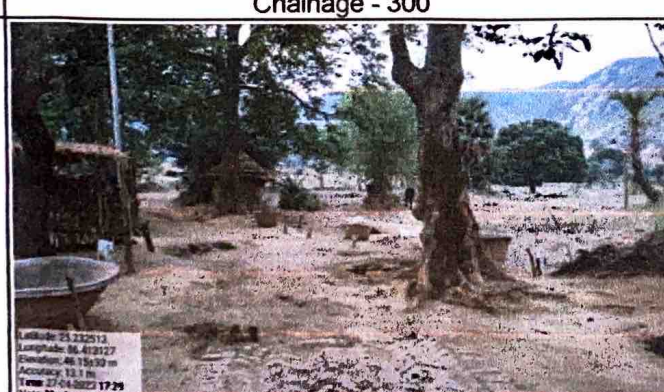
Chainage - 150



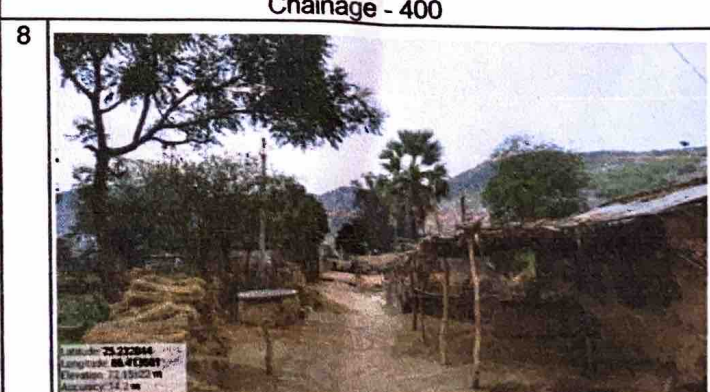
Chainage - 300



Chainage - 400



Chainage - 470



Chainage - 500

 Latitude: 25.23083 Longitude: 86.41304 Elevation: 53.15420 m Accuracy: 98.9 m Time: 27-04-2023 17:28 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370	10  Latitude: 25.23146 Longitude: 86.41371 Elevation: 71.15421 m Accuracy: 24.6 m Time: 27-04-2023 17:28 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370
Chainage - 570	Chainage - 600
 Latitude: 25.23153 Longitude: 86.41407 Elevation: 45.15232 m Accuracy: 24.9 m Time: 27-04-2023 17:28 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370	12  Latitude: 25.23141 Longitude: 86.41408 Elevation: 56.15439 m Accuracy: 29.2 m Time: 27-04-2023 17:28 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370
Chainage - 700	Chainage - 700
 Latitude: 25.23150 Longitude: 86.41501 Elevation: 52.15454 m Accuracy: 19.9 m Time: 27-04-2023 17:27 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370	14  Latitude: 25.23107 Longitude: 86.41512 Elevation: 72.15419 m Accuracy: 40.0 m Time: 27-04-2023 17:26 Note: Mankothiya Adiwasi Tola to Yadav Tola on 370
Chainage - 750	Chainage - 800


JE


A.E 24/08/23

EE

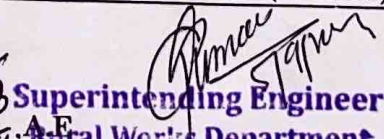
SUMMARY OF COST ESTIMATE FOR THE PROJECT

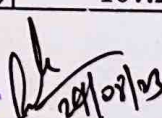
Survey ID 22034
 Name of Road Mankothiya Adiwasi Tola Road to Yadav Tola
 District Munger
 Block Dharhara
 Length of Road As Per Survey List (KM) 0.700
 Length of Road (in Km) 0.800
 Length of New Construction (in Km) 0.800
 Length of BT Pavement 0.520
 Length of CC Pavement 0.280
CD Structures
 Hume Pipe 3
 Cause Way / Minor Bridge 0

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	Preparatory Works ,Site Clearance,Dismantling	0.323
2	Earth Work	5.467
3	GSB For Rigid	1.945
4	GSB For Flexible	11.375
5	WBM Grade III	5.843
6	WBM Grade III For CC Pavement	3.146
7	Prime Coat	1.167
8	Tack Coat	0.399
9	Mix Seal Surfacing	5.460
10	CC Pavement	14.251
11	Hard Shoulder	0.755
12	Road Furnitures,KM Stones,Traffic & Direction Sign,MMGSY Logo,Road Marking.	3.396
	Sub Total of Pavement Cost in Lacs	53.528
13	Cross Drainage Structures	
	Hume Pipe Culvert	7.063
	Sub Total of CD Structures Cost in Lacs	7.063
	Construction Cost	60.591
	GST 18 %	10.906
	Labour Cess 1 %	0.606
	Seigniorage Fee of Construction	1.305
A	Total Construction Cost of Project in Lacs	73.410
B	Contingency Charge @ 2.25%	1.65
	Maintenance Cost	9.01
	GST 18 %	1.621
	Labour Cess 1 %	0.090
	Seigniorage Fee for Maintenance	0.026
C	Total Maintenance Cost of Project in Lacs	10.744
	Total Cost of Project Including GST , Labour Cess & Contingency Cost in Lacs (A+B+C)	85.806
	Cost of Construction Per Km (In Lacs)	91.762
	Total Cost of Project Per Km (in Lacs)	107.258


 J.E.


 Superintending Engineer


 Rural Works Department
 Circle, Munger


 E.E.

A/A vide letter no - 1438

dt - 21.8.23

A/A Amount

Const. cost - ₹ 73.617 lac.
Maint. cost - ₹ 10.538 lac.
Contingency - ₹ 1.66 lac.

₹ 85.815 lac.

Estimate Amount

Const. cost - ₹ 73.410 lac.
Maint. cost - ₹ 10.744 lac.
Contingency - ₹ 1.65 lac.

85.804 lac.

T.S. No.- 217

dt- 8.9.23

Ref. SE Letter No- 959

dt- 5.9.23

Technically Sanctioned for Rs. 85.804 lac.

(Rupees Eighty five lac eight
thousand four hundred) only.

Technically sanction does not mean sanction
of rate Instruction given in technical
should be followed strictly.


Chief Engineer-2
Rural Works Department
Patna

SUMMARY OF 5 YEARS MAINTENANCE COST

District

Block

Name of Road

Survey ID

Length of Road (in Km)

Munger

Dharhara

Mankothiya Adiwasi Tola Road to Yadav Tola

22034

0.800

Particulars	Amount in Rs.	Amount in (Lakh)
1st Year Maintenance cost	41894.63	0.419
2nd Year Maintenance cost	105033.53	1.050
3rd Year Maintenance cost	267161.06	2.672
4th Year Maintenance cost	175752.41	1.758
5th Year Maintenance cost	310812.02	3.108
Cost of 5 years Maintenance	900653.64	9.007
GST 18 %	162117.66	1.621
Labour Cess 1 %	9006.54	0.090
Seigniorage Fee	2572.00	0.026
Total Cost of 5 years Maintenance	1074349.83	10.743

ESTIMATE FOR 5 YEARS MAINTENANCE WORKS

Total Length Of Road =	800	m
Length Of the Flexible Pavement =	520	m
Length Of the Regid Pavement =	280	m
Width Of the Road (Br) =	3.75	m
Width Of the Shoulder (Bs) =	1.125	m
No. Of Hume Pipe Culvert =	3	
No. Of Slab Culvert =	0	
Length of Drain =	0	m

Multiplying Factor for Commercial Vehicle 15 to 45 per days = 1.25 (ref. - Annexure 14.4 operation Manual from Rural Road)

No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimated	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Berms with soil.moorum etc(Qty=L*Bs*0.3*%taken) X 1.25	Cum	6	40.50	477.89	19354.55
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*%taken) X 1.25	Sqm	10	225.00	71.08	15993.00
3	15.3 (i)	Repair of Pot holes filled with 75 mm BM X 1.25	Cum	0	0.00	13911.28	0.00
4	15.3 (ii)	Patch repair over Pot holevs with 13.2 mm to 0.09 mm Mix Seal Surfacing (Qty=L*Br*%taken) X 1.25	Sqm	0	0.00	372.20	0.00
5	15.3 (iii)	Patch repair over bituminous surface with Surface Dressing (Qty=L*Br*%taken) X 1.25	Sqm	0	0.00	0.00	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00		0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	3.00	1577.08	4731.24
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	3202.21	0.00
9	15.9	Maintenance of Road signs	Km	0	0.00	1447.13	0.00
10	15.11	Maintenance of 200 m and km stones	Km	0	0.00	974.61	0.00
11	15.12	(i)Cutting of branches of trees and shrubs	No.	-	2.00	162.17	324.34
		(ii) Cutting of shrubs from roadway	No.	-	6.00	9.97	59.82
		(iii) Trimming of grass and weeds	Sqm	-	13.00	3.32	43.16
12	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	63.00	22.04	1388.52
Estimate For First Year Maintenance Work						Rs.	41894.63

Mankothiya Adiwasi Tola to Yadav Tola.