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बिहार सरकार

ग्रामीण कार्य विभाग

Rural Works Department, Govt. of Bihar

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

2023-24

TS Copy

BIHAR RURAL ROADS PROJECT

STATE :- BIHAR

DISTRICT :- Munger

BLOCK :- Dharhara

Survey ID :- 21987

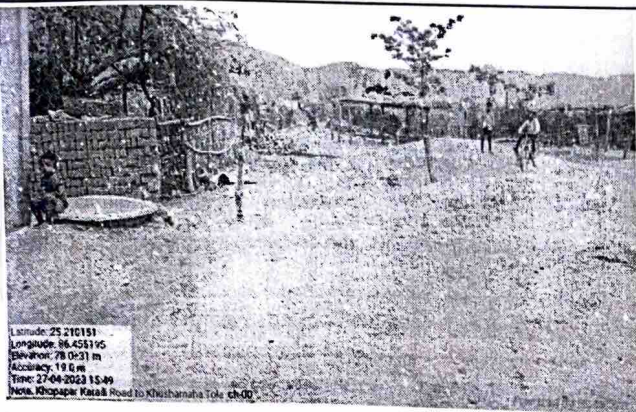
*Khopapar Karaili Road to Khushamaha Tola.***DETAILED PROJECT REPORT**

TOTAL LENGTH OF ROAD	1.050	KM
TOTAL NO. OF CD WORKS	5	Nos.
TOTAL COST OF CD WORKS	Rs. 32.03	Lacs
TOTAL COST OF PAVEMENT	Rs. 70.41	Lacs
GST COST	Rs. 18.44	Lacs
LABOUR CESS	Rs. 1.02	Lacs
SEIGNIORAGE FEE	Rs. 1.93	Lacs
TOTAL COST OF CONSTRUCTION	Rs. 123.84	Lacs
CONTIGENCY COST	Rs. 2.79	Lacs
TOTAL MAINTENANCE COST	Rs. 15.72	Lacs
TOTAL COST OF PROJECT	Rs. 142.35	Lacs
TOTAL COST OF PROJECT PER KM.	Rs. 135.57	Lacs

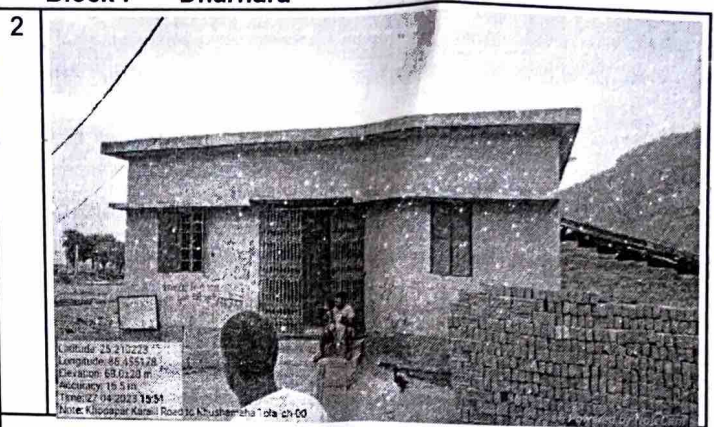
Submitted by :Executive Engineer
RWD (W) Division, Munger
Munger**Prepared by :**Shishir Consultants Pvt. Ltd.
Kriti Appartment, Flat no- 33/A, Road No-3H,
New Patliputtra colony, Patna -13
PH # 0612 - 2270007

Project Name : Khopapar Karaili Road to Khushamaha Tola.
Division : Munger

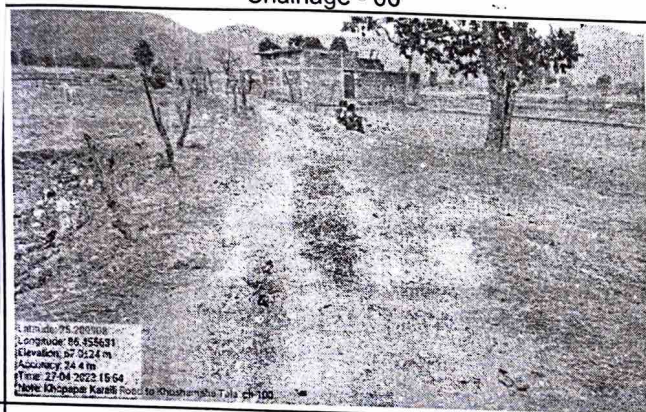
Block : Dharhara



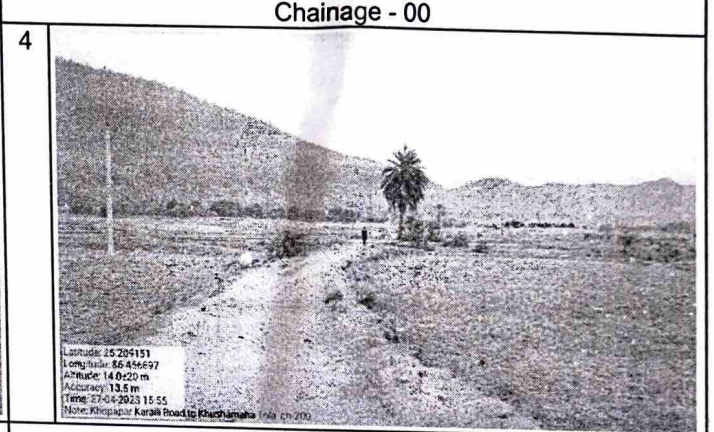
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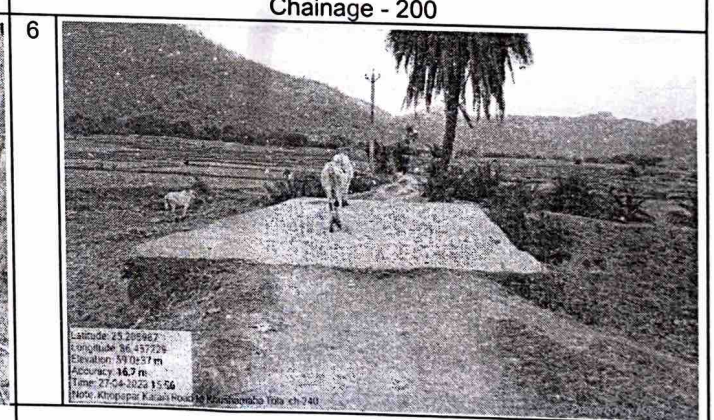
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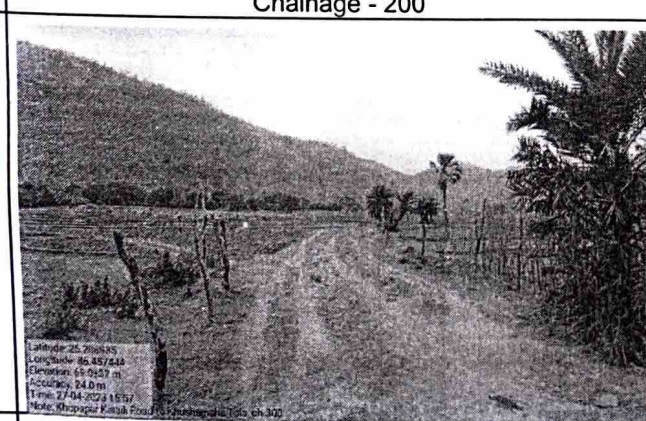
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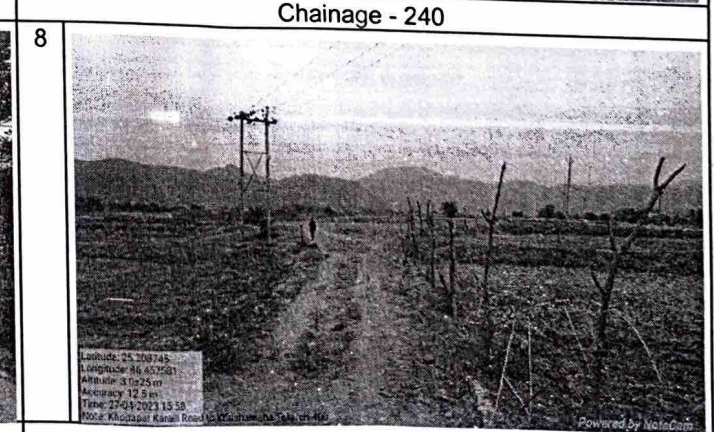
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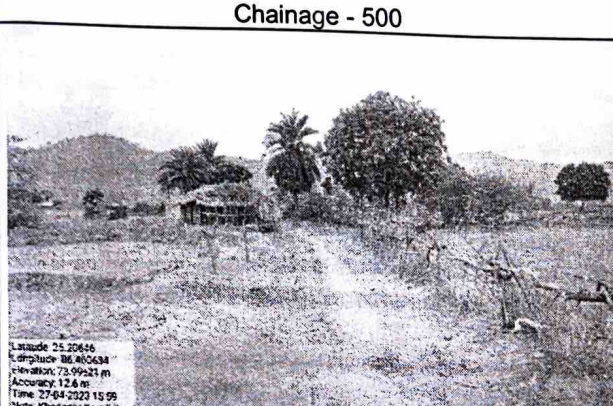
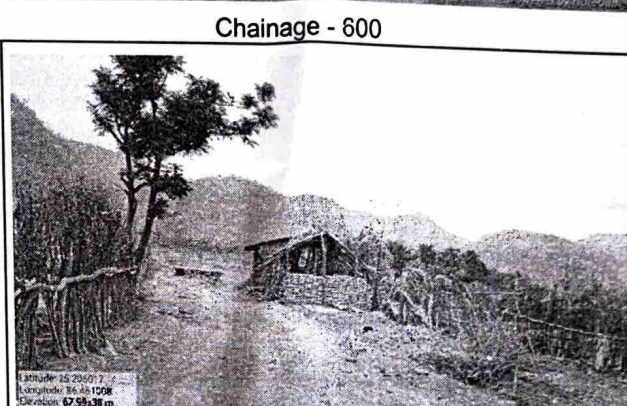
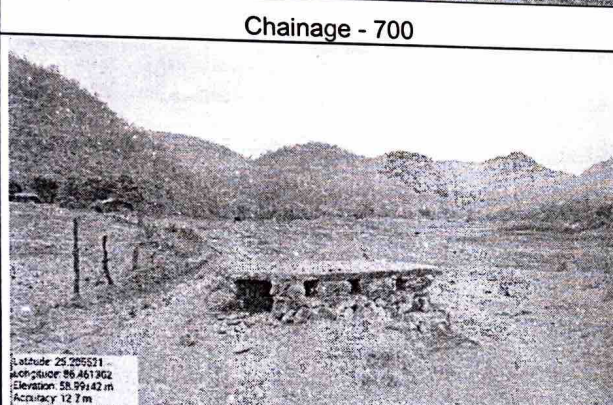
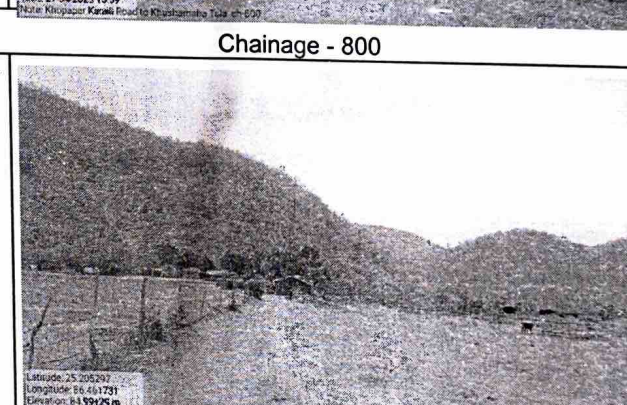
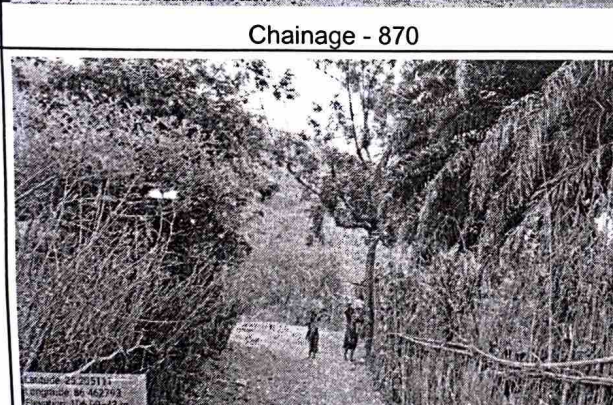
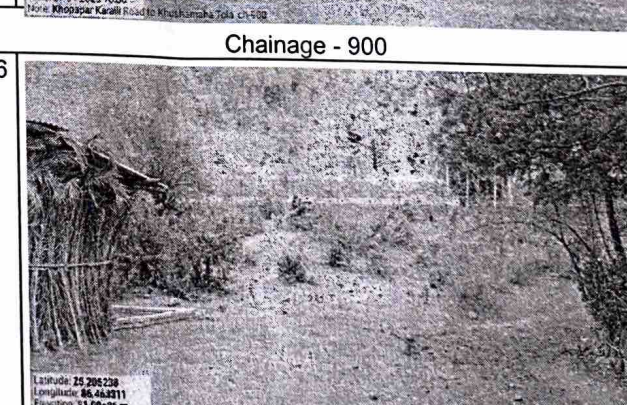
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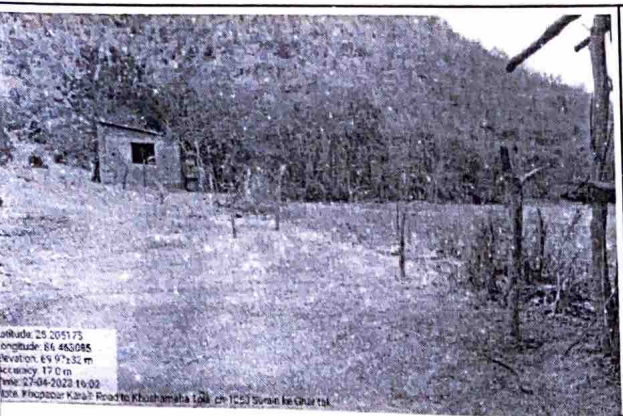


Chainage - 300



Chainage - 400

 Latitude: 25.207633 Longitude: 86.458401 Elevation: 72.99422 m Accuracy: 14.3 m Time: 27-04-2023 15:58 Note: Khopapar Karaili Road to Khushamaha Tola ch-500	10  Latitude: 25.207602 Longitude: 86.458208 Elevation: 78.9917 m Accuracy: 9.5 m Time: 27-04-2023 15:58 Note: Khopapar Karaili Road to Khushamaha Tola ch-600
Chainage - 500  Latitude: 25.206456 Longitude: 86.460494 Elevation: 73.99221 m Accuracy: 12.6 m Time: 27-04-2023 15:59 Note: Khopapar Karaili Road to Khushamaha Tola ch-700	12  Latitude: 25.205917 Longitude: 86.461028 Elevation: 67.99138 m Accuracy: 16.8 m Time: 27-04-2023 15:59 Note: Khopapar Karaili Road to Khushamaha Tola ch-800
Chainage - 700  Latitude: 25.205511 Longitude: 86.461802 Elevation: 58.99142 m Accuracy: 12.7 m Time: 27-04-2023 16:00 Note: Khopapar Karaili Road to Khushamaha Tola ch-870	14  Latitude: 25.205202 Longitude: 86.461731 Elevation: 64.99125 m Accuracy: 18.3 m Time: 27-04-2023 16:00 Note: Khopapar Karaili Road to Khushamaha Tola ch-900
Chainage - 870  Latitude: 25.205111 Longitude: 86.462793 Elevation: 106.99143 m Accuracy: 18.9 m Time: 27-04-2023 16:01 Note: Khopapar Karaili Road to Khushamaha Tola ch-1000	Chainage - 900  Latitude: 25.205238 Longitude: 86.463311 Elevation: 81.99136 m Accuracy: 81.6 m Time: 27-04-2023 16:01 Note: Khopapar Karaili Road to Khushamaha Tola ch-1050
Chainage - 1000 	Chainage - 1050 



18

Chainage - 1050

6/10/23
UE

[Signature]
06/10/23
A.E

EE

SUMMARY OF COST ESTIMATE FOR THE PROJECT

Survey ID 21987
 Name of Road Khopapar Karaili Road to Khushamaha Tola.
 District Munger
 Block Dharhara
 Length of Road As Per Survey List (KM) 0.950
 Length of Road (in Km) 1.050
 Length of New Construction (in Km) 1.050
 Length of BT Pavement 0.860
 Length of CC Pavement 0.190
CD Structures
 Hume Pipe 4
 RCC Culvert 1

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	Preparatory Works ,Site Clearance,Dismantling	0.654
2	Earth Work	9.785
3	GSB For Rigid	2.002
4	GSB For Flexible	19.573
5	WBM Grade III	9.983
6	WBM Grade III For CC Pavement	2.206
7	Prime Coat	1.932
8	Tack Coat	0.661
9	Mix Seal Surfacing	9.113
10	CC Pavement	9.810
11	Hard Shoulder	0.512
12	Road Furnitures,KM Stones,Traffic & Direction Sign,MMGSY Logo,Road Marking.	4.181
	Sub Total of Pavement Cost in Lacs	70.411
13	Cross Drainage Structures	
	Hume Pipe Culvert	8.542
	Rcc Culvert	23.491
	Sub Total of CD Structures Cost in Lacs	32.033
	Construction Cost	102.445
	GST 18 %	18.440
	Labour Cess 1 %	1.024
	Seigniorage Fee of Construction	1.934
A	Total Construction Cost of Project in Lacs	123.843
B	Contingency Charge @ 2.25%	2.79
	Maintenance Cost	13.18
	GST 18 %	2.372
	Labour Cess 1 %	0.132
	Seigniorage Fee for Maintenance	0.039
C	Total Maintenance Cost of Project in Lacs	15.723
	Total Cost of Project Including GST , Labour Cess & Contingency Cost in Lacs (A+B+C)	142.353
	Cost of Construction Per Km (In Lacs)	117.946
	Total Cost of Project Per Km (in Lacs)	135.574


 J.E.

Superintending Engineer
Rural Works Department

A.E.

E.E.

Munger Circle, Munger

Khopapar Karaili Road to Khushamaha Tola

A/A vide letter No - 1630 dt. 21.09.23

A/A Amount

Const. cost - ₹ 125.466 lac;
Maint. cost - ₹ 15.516 lac
Contingency - ₹ 2.82 lac

₹ 143.802 lac

Estimate Amount

Const. cost - ₹ 123.843 lac
Maint. cost - ₹ 15.723 lac
Contingency - ₹ 2.79 lac

142.356 lac

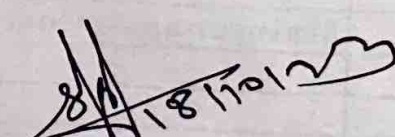
T.S. No.- 346 dt- 18.10.23

Ref. SE Letter No- 1142 dt- 14.10.23

Technically Sanctioned for Rs. 142.356 lac.

(Rupees. One Crore forty two lac
thirty five thousand six hundred) only.

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


Chief Engineer-2
Rural Works Department
Patna
18/10

SUMMARY OF 5 YEARS MAINTENANCE COST

District Munger
Block Dharhara
Name of Road Khopapar Karaili Road to Khushamaha Tola.
Survey Id 21987
Length of Road (in Km) 1.050

Particulars	Amount in Rs.	Amount in (Lakh)
1st Year Maintenance cost	58242.65	0.582
2nd Year Maintenance cost	159590.21	1.596
3rd Year Maintenance cost	379752.84	3.798
4th Year Maintenance cost	272718.37	2.727
5th Year Maintenance cost	447616.65	4.476
Cost of 5 years Maintenance	1317920.72	13.179
GST 18 %	237225.73	2.372
Labour Cess 1 %	13179.21	0.132
Seigniorage Fee	3913.00	0.039
Total Cost of 5 years Maintenance	1572238.66	15.722

ESTIMATE FOR 5 YEARS MAINTENANCE WORKS

Total Length Of Road = 1050 m
Length Of the Flexible Pavement = 860 m
Length Of the Regid Pavement = 190 m
Width Of the Road (Br) = 3.75 m
Width Of the Shoulder (Bs) = 1.125 m
No. Of Hume Pipe Culvert = 4
No. Of Slab Culvert = 1
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)

SOR No.	Description of Items	Unit	% Taken	Yearly Estimated	Rate (Rs.)	Amount (Rs.)
15.1	Restoration of Raincuts/Berms with soil.moorum etc(Qty=L*Bs*0.3*%taken) X 1.25	Cum	6	53.16	477.89	25402.84
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	295.31	71.08	20990.81
15.3 (i)	Repair of Pot holes filled with 75 mm BM X 1.25	Cum	0	0.00	14042.71	0.00
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	374.70	0.00
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
15.6	Maintenance of Earthen Drains	M	-	0.00		0.00
15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	4.00	1577.08	6308.32
15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	1.00	3202.21	3202.21
15.9	Maintenance of Road signs	Km	0	0.00	1447.13	0.00
15.11	Maintenance of 200 m and km stones	Km	0	0.00	974.61	0.00
15.12	(i)Cutting of branches of trees and shrubs	No.	-	2.00	162.17	324.34
	(ii) Cutting of shrubs from roadway	No.	-	9.00	9.97	89.73
	(iii) Trimming of grass and weeds	Sqm	-	22.00	3.32	73.04
15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	84.00	22.04	1851.36
Estimate For First Year Maintenance Work					Rs.	58242.65