

Route Analytics Pro

Enhanced Route Safety Analysis with Regulatory Compliance

Enhanced Route Analysis Report with API Intelligence

Enhanced Analysis Report

June 06, 2025 at 01:06 AM

Features: Individual Turn Analysis, Street Views, Maps

Compliance: CMVR, AIS-140, RTSP Analysis Included

Analysis: GPS Coordinates & Turn-by-Turn Details

Enhanced Route Overview

ROUTE INFORMATION

From Address	Unnamed Road, Ansal's Sushant City, Meerut, Uttar Pradesh 25
To Address	Muzaffarnagar Thanabhawan Rd, Azizpur, Uttar Pradesh 251311,
Total Distance	74.1 km
Estimated Duration	1 hour 22 mins
Route Points Analyzed	949
Overall Safety Score	8/100
Individual Turn Pages	4 detailed pages included

HAZARD ANALYSIS SUMMARY

Extreme Blind Spots (>80 degrees)		CRITICAL DANGER - Individual Pages Added
Sharp Danger Turns (70-80 degrees)		HIGH DANGER - Individual Pages Added
Moderate Turns (45-70 degrees)		CAUTION REQUIRED
Network Dead Zones	0	NO SIGNAL
Poor Coverage Areas	8	WEAK SIGNAL
Weather Monitoring Points	10	CONDITIONS TRACKED

CRITICAL: 4 DANGEROUS TURNS REQUIRE DETAILED ANALYSIS

Each critical turn has a dedicated page with street view, satellite map, and safety recommendations.

SEASONAL TRAFFIC CONGESTION ANALYSIS

Winter	light	0.0%	N/A
Spring	light	0.0%	N/A
Summer	light	0.0%	N/A
Monsoon	light	0.0%	N/A

SEASONAL TRAVEL RECOMMENDATIONS

- 1. Check seasonal traffic updates before departure
- 2. Plan alternate routes during festival seasons
- 3. Monitor monsoon forecasts for route adjustments

CONSTRUCTION ZONES & DETOURS

SUMMER WEATHER RISKS ANALYSIS

EXTREME HEAT ZONES: 1 IDENTIFIED

Zone	Max Temp (°C)	Risk Level	Recommendations
1	48	extreme	Check vehicle cooling system before travel, Carry extra water and electrolytes

MONSOON WEATHER RISKS ANALYSIS

Flood Prone Areas	0
Landslide Risk Zones	2
Overall Monsoon Risk	MODERATE
Travel Recommendation	Avoid during heavy rainfall warnings

MONSOON TRAVEL PRECAUTIONS

- 1. Monitor rainfall forecasts and flood warnings
- 2. Carry emergency supplies including food, water, and phone charger
- 3. Avoid travel during heavy rainfall warnings
- 4. Keep emergency contact numbers ready
- 5. LANDSLIDE ALERT: Hilly areas with landslide risk - travel during daylight only

SUPPLY & CUSTOMER LOCATION DETAILS

SUPPLY LOCATION DETAILS

Location Name	Supply Location
GPS Coordinates	28.950300, 77.659380
Formatted Address	Unnamed Road, Ansal's Sushant City, Meerut, Uttar Pradesh 250002, Indi
Location Type	route
Area Classification	Rural Area
Geocoding Status	[OK] Verified with Google Geocoding API

CUSTOMER LOCATION DETAILS

Customer Name	Customer Destination
GPS Coordinates	29.514080, 77.617280
Formatted Address	Muzaffarnagar Thanabhawan Rd, Azizpur, Uttar Pradesh 251311, India
Location Type	route
Area Classification	Rural Area
Delivery Accessibility	Moderate - May need local directions

ROUTE SUMMARY

Total Distance	74.1 km
Estimated Duration	1 hour 22 mins
Route Type	Supply to Customer Delivery
Geocoding Accuracy	High (Google API verified)

TERRAIN CLASSIFICATION ANALYSIS

OVERALL TERRAIN: PREDOMINANTLY URBAN

TERRAIN DISTRIBUTION

Terrain Type	Segments	Percentage	Description
Urban	22 segments	91.7%	Built-up areas, cities, heavy traffic
Semi Urban	2 segments	8.3%	Town areas, moderate development
Rural	0 segments	0.0%	Open areas, villages, agricultural land

DETAILED TERRAIN SEGMENTS

Segment	Coordinates	Terrain	Distance (km)	Location
1	28.9503, 77.6594	Urban	0.0	Unnamed Road, Ansal's Sus
2	28.9589, 77.6398	Urban	2.1	XJ5Q+GQW, Meerut, Uttar P
3	28.9771, 77.6431	Urban	3.4	N. H 58, Tyre puncture, A
4	29.0001, 77.6464	Urban	5.7	111, Shobha Pur, Meerut,
5	29.0134, 77.6561	Urban	7.0	420, NH58, Partapur, Meer
6	29.0333, 77.6732	Urban	9.3	6, Nangla Rd, Shardha Pur
7	29.0456, 77.6928	Urban	11.0	NH58, Meerut, Uttar Prade
8	29.0493, 77.7074	Urban	11.9	357/1A, Akshar Puram, Mod
9	29.0743, 77.7093	Urban	14.6	3PF5+VV2, Modipuram, Siwa
10	29.1065, 77.7116	Urban	18.0	4P46+6QC, NH334, Daurala
11	29.1609, 77.7155	Urban	24.0	5P68+9C9, Kanora, Uttar P
12	29.1966, 77.7211	Urban	28.0	5PWC+93M, Sakoti, Uttar P
13	29.2132, 77.7203	Urban	29.7	6P7C+929, Dadri, Uttar Pr
14	29.2470, 77.7245	Urban	33.5	6PWF+HQM, Mubarikpur, Utt
15	29.2750, 77.7093	Semi_Urban	36.3	Delhi - Haridwar Rd, Utta
16	29.2901, 77.7163	Urban	38.1	Khatauli Bypass, Ajeetpur
17	29.3128, 77.7232	Urban	40.7	Delhi - Haridwar Rd, Muna
18	29.3550, 77.7120	Urban	45.2	9P46+2PM, Mansurpur, Khan
19	29.3957, 77.7010	Urban	49.5	9PV2+W58, NH334, Bahadarp
20	29.4296, 77.6988	Urban	53.3	CMHX+WJ4, Muzaffarnagar,

MAJOR HIGHWAYS ANALYSIS

HIGHWAY COVERAGE STATISTICS

Total Major Highways	2
Highway Segments	4
Total Highway Distance	8.9 km
Highway Percentage	12.0% of total route
Analysis Method	Google Directions API with highway detection

MAJOR HIGHWAYS IDENTIFIED

S.No	Highway Name	Highway Type	First Encounter (km)
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LIVE TRAFFIC CONDITIONS

Segments Analyzed	13
Average Congestion Level	18.2% above normal
Current Traffic Status	LIGHT
Last Updated	2025-06-06T01:07
Data Confidence	HIGH - Real-time API data

ACTIVE TRAFFIC INCIDENTS: 4 DETECTED

Type	Location	Severity	Delay	Status
Police_Activity	Minor collision clea	minor	20 minutes	active
Police_Activity	Minor collision clea	minor	12 minutes	active
Road_Closure	Minor collision clea	major	23 minutes	active
Police_Activity	Minor collision clea	major	16 minutes	active

REAL-TIME FUEL PRICE TRACKING

Stations Analyzed	15
Average Petrol Price	Rs. 97.09/L
Price Range	Rs. 4.10/L
Cheapest Station	HP Petrol Pump
Market Trend	Stable

FUEL COST OPTIMIZATION RECOMMENDATIONS

- 1. PRICE VARIATION: Up to Rs.4.10 difference between stations
- 2. CHEAPEST PETROL: HP Petrol Pump at Rs.95.34/L
- 3. Compare prices at multiple stations for best deals
- 4. Consider station ratings and service quality
- 5. Check for loyalty programs and discounts
- 6. Plan fuel stops to avoid emergency refueling at high prices

VEHICLE PERFORMANCE ANALYSIS

Base Consumption Rate	25.0 L/100km
Adjusted Rate (Route)	28.9 L/100km
Estimated Fuel Needed	21.4 liters
Efficiency Rating	Poor
Weight Adjustment	1.10x
Route Difficulty	1.05x

FUEL EFFICIENCY RECOMMENDATIONS

- 1. Maintain steady speeds for optimal fuel efficiency
- 2. Plan route to avoid heavy traffic and stop-and-go conditions
- 3. Regular vehicle maintenance improves fuel efficiency by 10-15%
- 4. Proper tire pressure can improve efficiency by 3-5%

DRIVER BEHAVIOR ANALYSIS

DRIVER SAFETY SCORE: 50/100 - HIGH RISK

Overall Safety Score	50/100
Turn Safety Score	30/100
Communication Safety	100/100
Safety Rating	Poor
Critical Factors	0

REGULATORY COMPLIANCE TRACKING

COMPLIANCE SCORE: 60/100 - NEEDS REVIEW

COMPLIANCE ACTION ITEMS

- 1. CRITICAL: Verify AIS-140 compliance certification
- 2. Ensure all required permits are current and valid
- 3. Verify vehicle meets BS6 emission standards
- 4. Complete pre-trip documentation checklist
- 5. Verify insurance coverage for commercial operations
- 6. Ensure driver has valid commercial license
- 7. Check vehicle fitness certificate validity

EMERGENCY RESPONSE PLAN

Hospitals Along Route	16
Police Stations	16
Fire Stations	18
Overall Coverage	Excellent
Coverage Score	100/100
Emergency Preparedness	GOOD

EMERGENCY COMMUNICATION SYSTEM

Primary Channels	4
Backup Methods	4
Dead Zones	0
Satellite Options	Optional
Emergency Contacts	Comprehensive database available

EMERGENCY CONTACT HIERARCHY

Level	Contact Type	Response Time	Purpose
L1 Immediate	Emergency services	Immediate	Life-threatening emergencies
L2 Urgent	Company emergency coordinator	Within 15 minutes	Company notification and coord
L3 Important	Fleet manager/supervisor	Within 30 minutes	Operational decisions and supp
L4 Notification	Family/personal contacts	When situation permits	Personal notification and supp

ROUTE DEMOGRAPHICS ANALYSIS

Average Density	1919 people/sq km
Density Type	Low
Urban/Rural Ratio	38% Urban
Route Character	Mixed
Density Variation	High

ECONOMIC DEVELOPMENT INDICATORS

Development Index	34/100
Economic Level	Underdeveloped
Average Income	Rs. 23,353/year
Income Disparity	8.7x
Economic Trend	Stable

BUSINESS OPPORTUNITIES ASSESSMENT

Commercial Centers	2
Market Opportunities	1
Investment Grade	B
Risk Level	Moderate
Payback Period	5-7 years

RECOMMENDED INVESTMENT OPPORTUNITIES

- 1. Service stations
- 2. Small retail
- 3. Vehicle maintenance

COMPREHENSIVE ROUTE MAP WITH ALL MARKERS

COMPREHENSIVE ROUTE MAP:



MAP LEGEND:

S	Green	Route Start Point
E	Red	Route End Point
T#	Red/Orange/Yellow	Sharp Turns (by danger level)
Blue Line	Blue	Complete Route Path

REGULATORY COMPLIANCE ANALYSIS

COMPLIANCE SCORE: 60/100 - NEEDS ATTENTION

ROUTE COMPLIANCE SUMMARY

Vehicle Type	Heavy Goods Vehicle
Vehicle Weight	18,000 kg
Route Distance	74.1 km
Estimated Duration	1 hour 22 mins
States Crossed	Delhi, Haryana (Estimated)
Compliance Category	HIGH RISK - Heavy Goods Vehicle

GOOGLE API ENHANCED HEAVY VEHICLE ANALYSIS

HEAVY VEHICLE SUITABILITY: 0/100 - POOR

ROAD INFRASTRUCTURE ANALYSIS

Road Width Assessment	Unknown
Bridge Compatibility	Unknown
Weight Restrictions	Unknown
Height Clearance	Unknown
Turning Radius Compatibility	Unknown
Overall Infrastructure Score	0/100

HOSPITALS - Emergency Medical Services

S.No	Name	Location	Latitude	Longitude	Distance (km)
1	Sanjeevani Yoga And Natur...	Unnamed Road, Surya Pa...	28.9670	77.6458	0.5
2	Chhatrapati Shivaji Subha...	Swami Vivekanand Subha...	29.0007	77.6474	0.2
3	Dr Lal PathLabs - Patient...	Shop No 17, Khana Plaz...	29.0291	77.6647	0.4
4	Prakash Hospital	1/108, Dantal Jatoli R...	29.0471	77.6988	0.3
5	kailashi super speciality...	C-2 Shardhapuri Phase ...	29.0674	77.7109	0.2
6	Hans Multispeciality Hosp...	512, Sardhana Road, Om...	29.1212	77.7092	0.5
7	Amar Child Care Hospital	4PC4+9J6, Daurala Rura...	29.1919	77.7237	0.4
8	Arjun hospital	4PG7+H7G, Sardhana - D...	29.2309	77.7200	0.4
9	Vety Hospital Daurala	4PG7+M3J, Mataur	29.2731	77.7084	0.2
10	St. Francis Hospital	6PWF+CM7, Mubarikpur	29.2940	77.7246	0.6
11	Dr.Smeer Saifi(Gastro hea...	Budhana-Khatauli Road,...	29.3480	77.7155	0.1
12	Family Hath Care Hospital	7PFG+M6R, Shivpuri, Kh...	29.4163	77.7010	0.2
13	Patanjali aarogya Kendra	CP93+XJ6, Saini nagar,...	29.4389	77.6655	0.2
14	Jagdish Hospital	CMJV+G5P, Muzaffarnaga...	29.4666	77.6405	0.5
15	Lala Chatarsen Memorial N...	CMHQ+RCH, Vehalna	29.5102	77.6128	1.1

Total HOSPITALS: 15 locations identified along the route

FUEL STATIONS - Petrol Pumps

S.No	Name	Location	Latitude	Longitude	Distance (km)
1	IndianOil	Ground Floor, Jansath ...	28.9960	77.6475	0.2
2	Hindustan Petroleum Corpo...	Ground Floor, Crossing...	29.0291	77.6775	0.6
3	cng pump meerut	WMJ5+6X6, Block 4A, Se...	29.0618	77.7042	0.4
4	Nayara Filling Station - ...	279/1, Shradha Puri Ro...	29.1773	77.7175	0.1
5	Bharat Petroleum	4PC7+24G, Daurala Rura...	29.2479	77.7229	0.3
6	Reliance Petroleum	Khasra No 1733K, Khata...	29.2975	77.7241	0.4
7	Petrol Pump	4MMH+H44, Sardhana - D...	29.3912	77.7031	0.6
8	HP PETROL PUMP - MANGALAM...	Opposite Cheetl Grand ...	29.4509	77.6494	0.4
9	Hindustan Petroleum	Nara muzaffarnagar , N...	29.5101	77.6158	0.8

Total FUEL STATIONS: 9 locations identified along the route

SCHOOLS - Speed Limit Zones (40 km/h)

S.No	Name	Location	Latitude	Longitude	Distance (km)
1	Dewan Public School Inter...	143, Delhi Road, Phase...	28.9731	77.6449	0.2
2	Bhai Joga Singh Public Sc...	WMXM+H76, Surya Palace...	29.0002	77.6448	0.2
3	METRO PUBLIC SCHOOL	Shatabdi Nagar, Rithan...	29.0236	77.6641	0.1
4	St Mary's Academy	2M4X+H44, Cariappa Rd,...	29.0453	77.6929	0.1
5	St. Francis' Convent Scho...	Sardhana Road, Kanker ...	29.0704	77.7073	0.3
6	Kendriya Vidyalaya Punjab...	Circular Road, Near, G...	29.1285	77.7116	0.5
7	MSB EDUCATIONAL MAHAVIDHY...	4P2J+FW3, Bahrala	29.1891	77.7219	0.3
8	Swami Vivekananda Vidya K...	4PC7+5H6, Daurala	29.2300	77.7214	0.3
9	Navjeevan School	4P96+XF3, Daurala Rura...	29.2769	77.7117	0.2
10	Golden Heart Academy Grea...	7P99+G98, Budhana-Khat...	29.3038	77.7188	0.3
11	Maples Academy	7P2G+3J9, Karnal - Mee...	29.3533	77.7162	0.7
12	Jamia Imam Shah Waliullah...	7PH2+R26, Phulat	29.4213	77.7010	0.2
13	S.F.D.A.V. Public School	CPW3+GXW, Circular Roa...	29.4396	77.6629	0.3
14	Education	CPWG+Q9P, Phase 2 Road...	29.4678	77.6409	0.4
15	NEW HORIZON SCHOOL	FP37+CW7, Parikrama Ro...	29.5106	77.6218	0.3

Total SCHOOLS: 15 locations identified along the route

RESTAURANTS/FOOD STOPS - Rest Areas

S.No	Name	Location	Latitude	Longitude	Distance (km)
1	Hotel Bravura Gold Resort	Delhi Roorkee, Bypass,...	28.9707	77.6401	0.2
2	CROWN Hotel & Restaurant	Ved Vyas Puri -Phase 1...	29.0051	77.6429	0.5
3	Domino's Pizza Shopprix...	Shop No. 7A, Upper Gro...	29.0219	77.6629	0.3
4	Meera's Bistro Amoroso Ca...	2MF8+M9, Kanker Khera,...	29.0500	77.6903	0.6
5	Biggies Restaurant	NH-58, NH58, Meerut	29.0659	77.7112	0.4
6	Aangan restaurant	160, opposite Hotel De...	29.1263	77.7095	0.4
7	Jain shikanji	3PM6+45G, Near siwaya ...	29.1890	77.7236	0.5
8	Ghanshyam bhai	9, Sardhana - Daurala ...	29.2259	77.7188	0.5
9	OLVEZ PIZZA	4PC6+5WR, near Tiranga...	29.2699	77.7108	0.4
10	Cheetal Grand	Khatauli Bypass, 334, ...	29.3034	77.7230	0.3
11	Grand Haveli Restaurant &...	adjacent HP Petrol pum...	29.3564	77.7129	0.3
12	Gulshan Dhaba	7P77+WP6, Khatauli Rur...	29.4222	77.7039	0.5
13	Apna Punjabi Dhaba NARA	CP62+94V, near musafer...	29.4405	77.6680	0.2
14	Moolchand Resorts	8th km stone, Meerut R...	29.4731	77.6387	0.4
15	Kanahiya Shudh Bhojnalaya	NH58 Meerut, to, Muzaf...	29.5158	77.6217	0.9

Total RESTAURANTS/FOOD STOPS: 15 locations identified along the route

POLICE STATIONS - Security Services

S.No	Name	Location	Latitude	Longitude	Distance (km)
1	Nauchandi Police Station	Mohsin Bagh, Manzoor N...	28.9722	77.6432	0.1
2	Shatabdi Nagar Police Cho...	WMPG+W37, Shatabdi Nag...	28.9994	77.6467	0.1
3	Police Choki Shubharti Un...	XJ5Q+9R6, NH58, Meerut	29.0294	77.6668	0.3
4	Lalkurti Police Station	2P35+5M3, Mall Road, M...	29.0509	77.6965	0.6
5	Police chawki	2MMF+C6W, Unnamed Road...	29.0628	77.7089	0.2
6	Police Station, Kankarkhe...	B30 Sardhana Road, Kan...	29.1211	77.7146	0.4
7	Police Station Daurala	4PF7+V22, Delhi Road, ...	29.1914	77.7233	0.4
8	Cng patrol pump	Cng patrol pump, patro...	29.2348	77.7185	0.6
9	Binesh Home Guard	4PHP+X27, Samoli-Salem...	29.2728	77.7101	0.1
10	Police Chowki Mandi Samit...	7P6G+6VR, Avas Vikas C...	29.2999	77.7165	0.4
11	Mustufa malik	7PGJ+89R, Bhoor, Khata...	29.3556	77.7102	0.3
12	Khatauli Police Station	Old, Gt Marg, Khatauli	29.4203	77.6995	0.1
13	Police Check Post	CMHX+MMC, Muzaffarnaga...	29.4430	77.6624	0.4
14	Police Chowki Vahalna	CMHX+X78, State Highwa...	29.4714	77.6385	0.3
15	Industrial Area Police Ch...	Swadheenta chowk, Civi...	29.5157	77.6175	1.0

Total POLICE STATIONS: 15 locations identified along the route

NETWORK COVERAGE ANALYSIS - REAL-TIME DATA

NETWORK COVERAGE STATISTICS

Total Points Analyzed	48
API Success Rate	100.0%
Overall Coverage Score	60.0/100
Dead Zones Detected	0
Poor Coverage Areas	8
Data Quality	REAL_API_DATA

NETWORK COVERAGE POINTS - TESTED LOCATIONS

S.No	Coverage Quality	Signal Strength	Latitude	Longitude	Technologies
1	Fair	-90 dBm	28.9503	77.6594	UMTS, GSM
2	Fair	-90 dBm	28.9544	77.6528	UMTS, GSM
3	Fair	-90 dBm	28.9589	77.6399	UMTS, GSM
4	Fair	-90 dBm	28.9697	77.6412	UMTS, GSM
5	Fair	-90 dBm	28.9764	77.6430	UMTS, GSM
6	Fair	-90 dBm	28.9929	77.6455	UMTS, GSM
7	Fair	-90 dBm	28.9992	77.6462	UMTS, GSM
8	Fair	-90 dBm	29.0056	77.6501	UMTS, GSM
9	Fair	-90 dBm	29.0118	77.6548	UMTS, GSM
10	Fair	-90 dBm	29.0237	77.6648	UMTS, GSM
11	Fair	-90 dBm	29.0313	77.6714	UMTS, GSM
12	Fair	-90 dBm	29.0355	77.6757	UMTS, GSM
13	Fair	-90 dBm	29.0439	77.6898	UMTS, GSM
14	Fair	-90 dBm	29.0456	77.6967	UMTS, GSM
15	Fair	-90 dBm	29.0484	77.7069	UMTS, GSM
16	Fair	-90 dBm	29.0564	77.7080	UMTS, GSM
17	Fair	-90 dBm	29.0684	77.7088	UMTS, GSM

NETWORK COVERAGE POINTS (Continued)

18	Fair	-90 dBm	29.0837	77.7101	UMTS, GSM
19	Fair	-90 dBm	29.0906	77.7107	UMTS, GSM
20	Fair	-90 dBm	29.1243	77.7127	UMTS, GSM

TURN 1/4: EXTREME BLIND SPOT - 172.95 degrees

CRITICAL TURN ANALYSIS:

Turn Classification	EXTREME BLIND SPOT
Turn Angle	172.95 degrees (DANGEROUS)
GPS Coordinates	28.961680, 77.640150
Danger Level	EXTREME BLIND SPOT
Recommended Speed	15-20 km/h
Visibility Status	ZERO visibility around corner
Safety Priority	HIGHEST

TURN LOCATION ANALYSIS:

STREET VIEW - Driver Perspective:



SATELLITE MAP - Overhead View:



TURN 2/4: EXTREME BLIND SPOT - 106.31 degrees

CRITICAL TURN ANALYSIS:

Turn Classification	EXTREME BLIND SPOT
Turn Angle	106.31 degrees (DANGEROUS)
GPS Coordinates	28.962620, 77.640410
Danger Level	EXTREME BLIND SPOT
Recommended Speed	15-20 km/h
Visibility Status	ZERO visibility around corner
Safety Priority	HIGHEST

TURN LOCATION ANALYSIS:

STREET VIEW - Driver Perspective:



SATELLITE MAP - Overhead View:



TURN 3/4: SHARP DANGER TURN - 78.27 degrees

CRITICAL TURN ANALYSIS:

Turn Classification	BLIND SPOT
Turn Angle	78.27 degrees (DANGEROUS)
GPS Coordinates	29.493920, 77.641300
Danger Level	SHARP DANGER TURN
Recommended Speed	25-30 km/h
Visibility Status	LIMITED visibility
Safety Priority	HIGH

TURN LOCATION ANALYSIS:

STREET VIEW - Driver Perspective:



SATELLITE MAP - Overhead View:



TURN 4/4: SHARP DANGER TURN - 76.43 degrees

CRITICAL TURN ANALYSIS:

Turn Classification	BLIND SPOT
Turn Angle	76.43 degrees (DANGEROUS)
GPS Coordinates	29.469890, 77.637150
Danger Level	SHARP DANGER TURN
Recommended Speed	25-30 km/h
Visibility Status	LIMITED visibility
Safety Priority	HIGH

TURN LOCATION ANALYSIS:

STREET VIEW - Driver Perspective:



SATELLITE MAP - Overhead View:

