



सत्यमेव जयते

# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

## NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport and Highways, Govt. of India)

### क्षेत्रीय कार्यालय / REGIONAL OFFICE

ई-6/47, स्मृति परिसर, साईबोर्ड के पास, अरेरा कॉलोनी, भोपाल (म.प्र.)-462016

E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (M.P.)-462016

दूरभाष/Phone: 0755-2426638, फैक्स/Fax: 0755-2426698, ई-मेल/E-mail ID: robhopal@nhai.org



भाराराप्रा/क्षे.का.-म.प्र./जोरासी-ग्वालियर/रा.रा.44/2025/53366

दिनांक 11.03.2025

### Invitation of Public Comments/ सार्वजनिक टिप्पणियों का आमंत्रण

**विषय:** जी एंड एम परियोजना दस्तावेज़ अनुमोदन के लिए खनिजों के अवैध परिवहन पर अंकुश लगाने के लिए एआई आधारित प्रणाली प्रस्तुत करना।

**संदर्भ:** परियोजना निदेशक, ग्वालियर का ई-फाइल नं. 275690.

1. परियोजना निदेशक, पीआईयू ग्वालियर, भाराराप्रा द्वारा ई-ऑफिस क्रमांक 275690 के माध्यम से जोरासी रा.रा. 44 (ग्वालियर-झांसी सेक्शन) में आई-चेकगेट की स्थापना का प्रस्ताव प्रस्तुत किया है।

PD, PIU-Gwalior, NHAI vide e-office no. 275690 has submitted the proposal for installation of I-check gate at Jorasi of NH-44 (Gwalior-Jhansi Section).

2. मंत्रालय के कार्यालय ज्ञापन संख्या OM No. RW/NH-33044 S&R (R) dated 22.11.2016 के अनुसार, दावे और आपत्तियां (सार्वजनिक असुविधा, सुरक्षा और सामान्य सार्वजनिक हित के आधार पर) मांगने के लिए आवेदन को 30 दिनों के लिए सार्वजनिक डोमेन में रखा जाएगा।

As per Ministry vide OM No. RW/NH-33044 S&R (R) dated 22.11.2016, the application shall be put out in public domain for 30 days for seeking claims and objections (on ground of public inconvenience, safety and general public interest).

3. तदनुसार, दावे और आपत्तियां मांगने के लिए उपरोक्त प्रस्ताव (आवेदन की प्रति संलग्न) पर 30 दिनों के भीतर (यानी 10.04.2025 तक) सार्वजनिक पोर्टल (यानी MoRT&H की वेबसाइट (www.morth.nic.in)) पर जनता की टिप्पणियां आमंत्रित की जाती हैं, जिसके बाद किसी भी टिप्पणी पर विचार नहीं किया जाएगा। टिप्पणी आमंत्रित करने वाले प्राधिकारी का पता इस प्रकार है:-

(V2)

4. Accordingly, the public comments are hereby invited on the above proposal (copy of application enclosed) for seeking claims and objections within 30 days (i.e. by **10.04.2025**) on public portal (i.e. website of MoRTH (www.morth.nic.in)) beyond which no comments will be considered. The address of comments inviting authority is as under:

राजमार्ग प्रशासक, क्षेत्रीय अधिकारी कार्यालय भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, ई-6/47, स्मृति परिसर, साई बोर्ड अरेरा कॉलोनी के पास, भोपाल (मप्र)-462016	The Highway Administrator O/o Regional Officer, National Highways Authority of India E-6/47, Smriti Parisar, Near Sai Board Arera Colony, Bhopal (MP)-462016
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यह पत्र राजमार्ग प्रशासक सह क्षेत्रीय अधिकारी के अनुमोदन उपरान्त जारी किया जा रहा है।

  
(रामविलास पटेल)  
प्रबंधक (तक.)

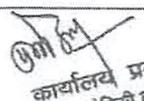
**संलग्न:- उपरोक्तानुसार।**

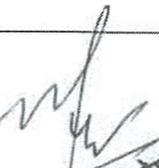
**प्रतिलिपि:-**

1. वेब एडमिन, भा.रा.रा.प्रा., मुख्यालय, नई दिल्ली की ओर सर्वजनिक टिप्पणियों के लिए भा.रा.रा.प्रा. की वेबसाइट पर अपलोड करने के अनुरोध के साथ।
2. वरिष्ठ तकनीकी निदेशक, एनआईसी, परिवहन भवन, नई दिल्ली की ओर सार्वजनिक टिप्पणियों के लिए सड़क परिवहन की वेबसाइट पर अपलोड करने के अनुरोध के साथ।
3. परियोजना निदेशक, ग्वालियर की ओर सूचनार्थ प्रेषित ।
4. भूविज्ञान एवं खनिकर्म निदेशालय, मध्य प्रदेश की ओर सूचनार्थ प्रेषित।
5. खनिज अधिकारी (खनन विभाग) जिला ग्वालियर की ओर सूचनार्थ प्रेषित।

Check List - Gwalior - Dabra - Jorasi MP			
Project - AI Based system to curb illegal transportation of Minerals			
Sr.No	Description	As per site	Remarks
1	State Highway No	NH-44	
2	Crossing Name	Jorasi , Gwalior, Madhya Pradesh	
3	System of supply (i.e. Voltage) frequency, no of phases wheather	2 kilo watts	
4	Position of Tower	Latitude-26.061877, Longitude-78.245623	
5	Normal / Basic Span of gantry	25.4 Mtr	
6	Maximum Sag at Normal Span of gantry	35.4 Mtr	2.5 Mtr both side will be spared from the shoulder of the road. ( As per MORTH Norms )
7	Crossing Span of gantry	Both Side of Road	
8	Preceding Span with LOC	Both Side of Road	
9	Successing Span With LOC	Both Side of Road	
10	Height of structure above ground and Below Ground Separately	Above=7mtr & Below=2.30 mtr	both sides of gantry structure
11	gantry height & weidth	height= 6.5mtr & weidth=30.4mtr	
12	Clearance Over Road	7.0 mtr	
13	Height of lower base / foundation of gantry	2.65 mtr	
14	Height / Difference of Lower foundation from level of NH at LOC	2.65 mtr	
15	Angle of Road crossing	90 degree	with respect to ground
16	Distance from NH Boundry from center of tower/ gantry	500 mtr	
17	Perndicular distance from center of Tower to Center of Road	6.5 mtr	
18	Protection of gantry	GI with 86 micron	
19	Foundation Type	square foundation with M 25 grade	
20	No of Stay required	NA	
21	Minimum factor of Safety	2	
22	Two legs of Tower earthend	Yes as per specification	
23	Plain paper digram	profile enclosed	
24	Earthing	Pipe Type	
25	Praposal to lay underground electrical cable/OFC/Water-Pipeline	Yes as per specification	
25A	Left side from central line towards increasing chainage/km direction.	NA	
25B	Right side from centre line towards increasing chainage/km direction	NA	
26	Praposal to aquire Land		
26A	Left side from centre Line	17.7 Mtr	Includes 2.5 meters from shoulder of road as spare
26B	Right side from centre line	17.7 Mtr	Includes 2.5 meters from shoulder of road as spare
27	Whether proposal is in the same side where land is not to be acquired	Yes as per specification	
27 A	if not then where to lay the cable	NA	
28	Details of already laid services, if any, along with the proposed route	NA	
29	Number of Existing Lanes ( 2/4/6/8 Lanes )	4 Lane	
30	Proposed number of Lanes ( 2 Lanes with paved shoulders/4/6/8 lanes )	NA	
31	Service road existing or not	NA	
	if yes then which side	NA	
31A	Left side from centre line	NA	
31B	Right side of centre line	NA	
32	Proposed service road	NA	
32A	Left side from centre line	NA	
32B	Right side of centre line	NA	
33	Whether proposal to lay water pipeline is after the service roador between the service road or main carriageway	NA	
34	Whether carrying of sewage / water pipeline has been proposed on highway bridges, if yes then mention the methodology proposed for same	NA	
35	Whether carrying of sewage / water pipeline has been proposed on the parapet/any part of the bridges, if yes then mention the methodology proposed for the same	NA	
36	if crossing of the road involved	Yes	
37	if yes it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line	Yes as per specification	
38	whether exsiting drainage structure are allowed to carry sewage / water pipeline	NA	
39	Is it on a line Normal to NH	Yes	
40	What is the distance of crossing the sewage /water pipeline from the existing structures, shall not be too near the existing structure on the national highway, the minimum distance being 15 meters.	NA	
41	the casing pipe ( or conduit pipe in the case of electric / OFC cable ) carrying the utility line shall be of steel. Cast iron or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casing	Yes	
42	Ends of the casing conduit pipe shall be sealed from the outside so that it does not act as a drainage path	Yes	
43	the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being atleast 0.3 meter below the drain inverts, Mention the proposed details	Yes as per specification	

  
 SITE ENGINEER  
  
 प्रबन्धक (प्रौ.)  
 Manager (Tech.)  
 का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
 ग्वालियर (म.प्र.)

  
 कार्यालय प्रमुख  
 संश्लेषण बौतिकी तथा खनिकन  
 भोपाल (म.प्र.)

  
 परियोजना निदेशक  
 PROJECT DIRECTOR  
 का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
 ग्वालियर (म.प्र.)

44	Mention the methodology proposed for crossing of road for the proposed water pipeline crossing shall be by boring method ( Trench-less technology ) especially where the existing road Pavement is of cement concrete or dense bituminous concrete type	NA	
45	The casing /conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	Yes	
46	Document / Drawing to be enclosed with the proposal	Yes , Enclosed	
47	gross section showing the size of trench for open trenching method ( is it normal size of 1.2 m deep X 0.3m wide	Yes	
48	Should not be greater than 60cm wider than the outer diameter of the pipe	Yes as per specification	
49	Located as close to the extreme edge of the right of way as possible but not less than 10meters from the centrelines of the nearest carriageway	Yes as per specification	
50	shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall these be laid over the existing culverts and bridges	NA	
51	These should be so laid that their top is atleast 0.6 meter below the ground level so as not to obstruct drainage of the road land	Yes as per specification	
52	Cross section showing the size of pit and location of cable for HDD method	Yes as per specification	
53	Strip plan / route plan showing water pipeline chainage width of ROW, distance of Proposed water pipeline with OFC from the edge of ROW in important milestone intersection, cross drainage works etc	Yes as per enclosed Drawing	
54	Methodology for laying of water pipeline	NA	
55	open trenching method ( may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type if yes what is the methodology of refilling of trench	NA	
56	The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe	NA	
57	for filling of the trench, bedding shall be to a depth of not less than 30cm it shall consist of granular material free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value, unsuitable soil and rock edged should be excavated and replaced by selected material	NA	
58	the backfill shall be completed in two stages 1) side fill to the level of the top to the pipe and 2) overfill to the bottom of the road crust	Yes as per enclosed Drawing	
59	the side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctors density, over fill shall be compacted to the same density as the material that had been removed, consolidation by saturation of pending will not be permitted	Yes as per enclosed Drawing	
60	The road crust shall be built to the same strength as the existing crust on either side of the trench, care shall be taken to avoid the formation of dip at the trench	Yes	
61	The excavation shall be protected by flagman signs and barricades and red light during night hours	Yes as per specification	

*Ravi*  
 SITE ENGINEER  
 PIU,  
 Gwalior (M.P.)

*(Signature)*  
 प्रबंधक (तक.)  
 Manager (Tech.)  
 पी.का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
 ग्वालियर (म.प्र.)

*(Signature)*  
 कार्यालय प्रमुख  
 संयोजनालय भौतिकी तथा खनिकर्मा  
 भोपाल (म.प्र.)

*(Signature)*  
 परियोजना निदेशक  
 PROJECT DIRECTOR  
 पी.का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
 ग्वालियर (म.प्र.)

Application Details [20240829/114/27591/9727]	
Highway	NH44 [NH44]
Name of Highway Authority	NHAI Dwarka New delhi
Highway Administration Address	RO-UP West RO-UP West
Whether the Fuel Station is part of Rest-area complex	No
Name of Applicant/Oil Company	Mineral Resources Departmen Address: 29 A Khanij Bhawan Arera Hills Bhopal MP 462010, BHOPAL (MADHYA PRADESH), PIN: 462010 Phn: 9425014338 Email: vinod.bagde@mp.gov.in
Application Category	Public Utility
Utility	Towers
State	MADHYA PRADESH
Type	New
Remarks	Geology and Mining team has esteern project AI-Based Enforcement System to curb illegal transportation of mineral. we need to implement various check gates across Madhya Pradesh state. Hence we require permission for implement the gantry / Check gates
Submitted On	30 Aug 2024 13:09:28

*Kavya*  
SITE ENGINEER  
NHAI, PIU,  
Gwalior (M.P.)

*[Signature]*  
प्रबन्ध  
Manager (Tech.)  
प.का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
ग्वालियर (म.प्र.)

*[Signature]*  
परियोजना निदेशक  
PROJECT DIRECTOR  
प.का.ई. (PIU)-भा.रा.रा.प्र. (NHAI)  
ग्वालियर (म.प्र.)



# SURVEY REPORT

## AI-Based Smart Enforcement System to Curb Illegal Transportation of Minerals

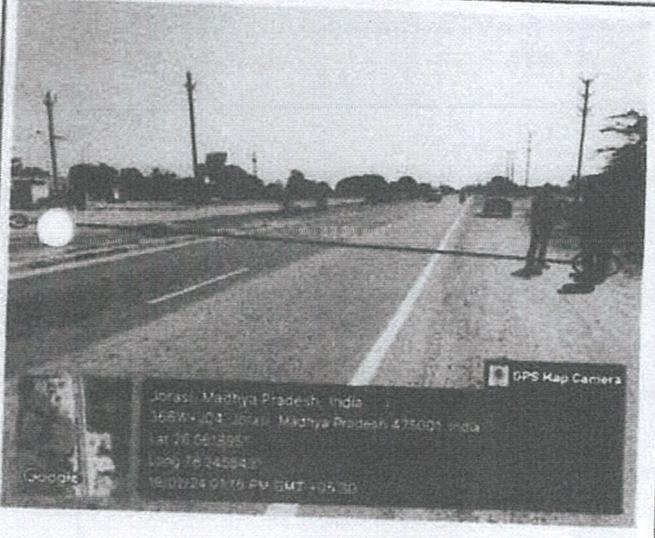
The survey covered various aspects, including structural integrity, equipment functionality, safety measures, and Soil bearing capacity. Through on-site inspections, interviews with relevant stakeholders, and the examination of technical specifications, the report provides a detailed overview of the surveyed areas.

<b>Site Name</b>	Jorasi, Gwalior ( recommended)		
<b>Address/ Location</b>	Jorasi , Gwalior, Madhya Pradesh – 475001		
<b>District</b>	Gwalior	<b>Tehsil</b>	Dabra
<b>Site Visit Date</b>	19-02-2024	<b>Survey Number</b>	05
<b>Latitude</b>	26.061877	<b>Longitude</b>	78.245623
<b>Lane type</b>	# 4	<b>Nearby Outpost / Toll Plaza</b>	No toll plaza around the place/location
<b>Internet Connectivity</b>	Internet is not available	<b>Electricity Connectivity</b>	Yes, Need permission from Govt. Officials
<b>Temperature Condition</b>	25 C	<b>Dust Condition</b>	Normal dust
<b>Wind Condition</b>	8 KM/Hr	<b>Rain Condition</b>	Normal
<b>Survey Points</b>			
<b>Sr. No.</b>	<b>Particular</b>		
#1	National Highway 44		
#2	High Traffic. Road condition is good and fast movement as its NH		

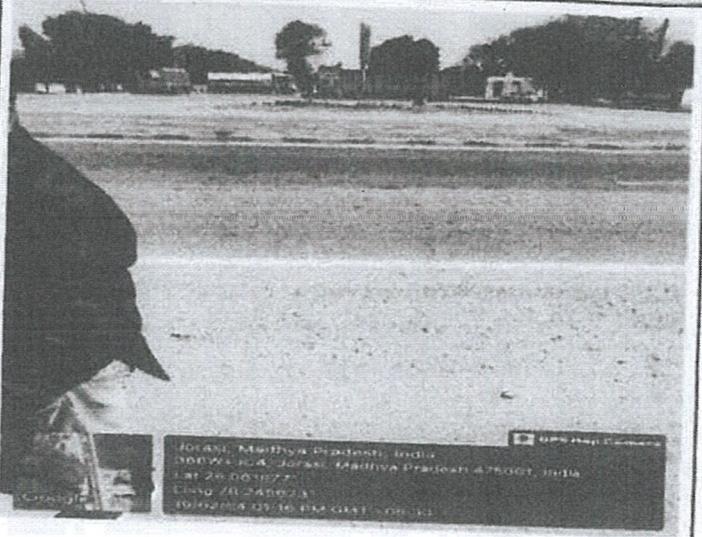
#3	Most of vehicle carry Sand and Gitti (Crushed Stone)
#4	Average speed of vehicle is around 50/60 KM/Hr

**Attachment/ Photo**

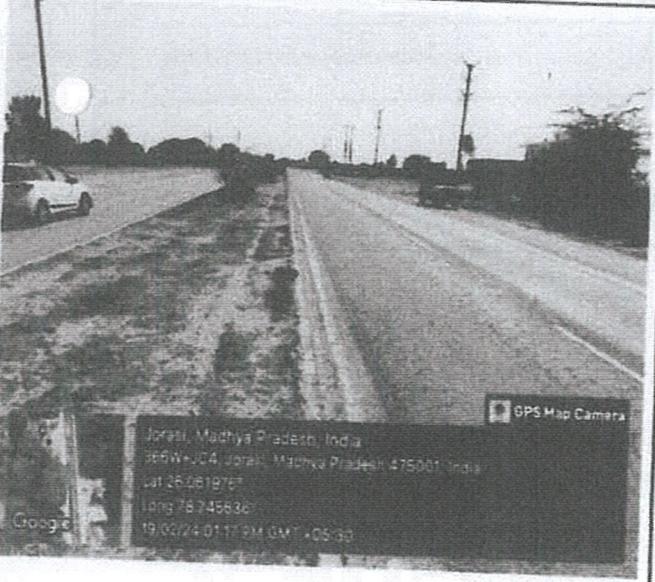
**Photo 1**



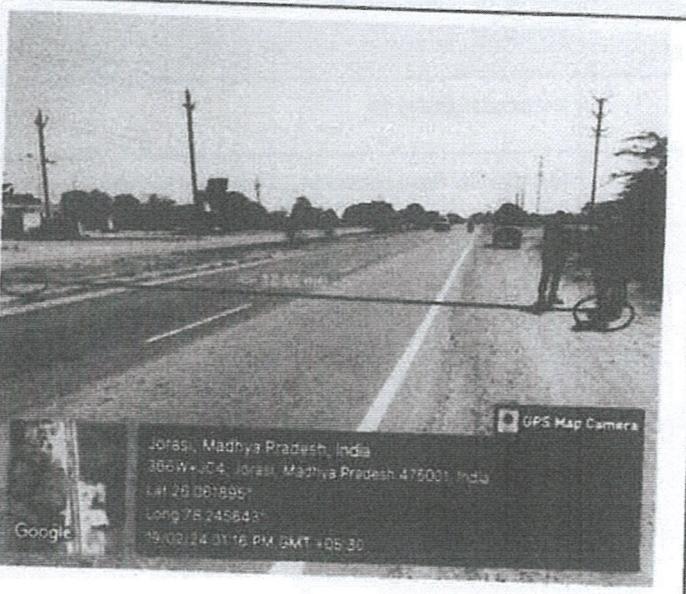
**Photo 2**

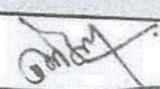


**Photo 3**

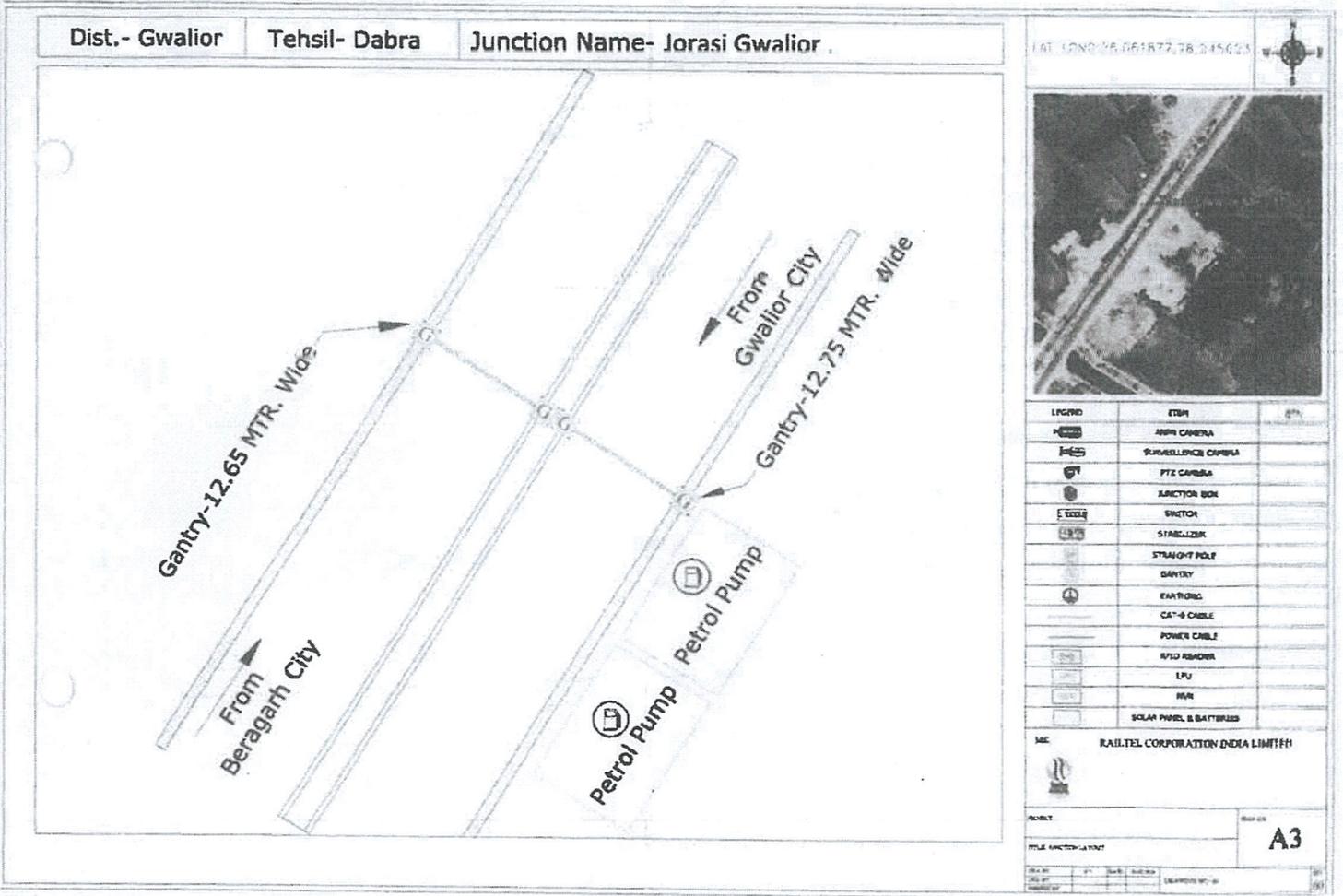


**Photo 4**



Approval Authority		
Sr. No.	Prepared By / Department	Approved By / Reviewed By & Department
01	Mr. Rohit Pawar / Mr. Mohit Kamble	
Surveyor		
Name	Team/ Dept.	
Mr. Prashant Gupta	Project Coordinator	
Mr. Rajesh Kumar Gangele	Mining dept. Gwalior	
Mr. Mohit Kamble	Site Survey	
Mr. Rohit Pawar	Site Survey	
Remark		
<p>Site Survey done on 19-02-2024.</p> <p># Distance measured by Rodo meter and laser distance meter</p> <p># Its State Highway and need permission from State Govt. Department</p> <p># Electricity (meter) permission and installation to be done. Nearby distance and cabling can be done easily</p> <p># 4 Lane : 4 box cameras , 4 verifocal cameras , 4 RFID , 4 IR illuminator, 4 LED.</p> <p># Total length is 25.4 meter.</p>		

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संयोजनालय भौतिकी तथा खनिकर्म  
मध्य प्रदेश, भोपाल



कार्यालय प्रमुख  
 संचालनालय भौतिकी तथा खनिकार्य  
 मध्यप्रदेश, भोपाल

