



INDIAN ROAD SURVEY & MANAGEMENT PRIVATE LIMITED

IN THE 15TH YEAR OF OPERATION



**ONE POINT SOLUTION FOR ALL YOUR
CONSULTING AND ROAD ASSESSMENT NEEDS**

AN ISO 9001:2015 & ISO 39001:2012 CERTIFIED COMPANY

Company Overview

IRSM is a pioneer in the industry providing services related to Road condition and assessment. From a modest beginning in 2009, IRSM has now grown to a position where it operates from 3 Locations in India having its registered office in Chennai, with Branches in Hyderabad, and Delhi. IRSM has 100+ qualified and trained Engineers from various related fields.

IRSM is in a joint venture with ARRB NTRO, Australia who are also its technical partners. IRSM enjoys the benefit of having access to the 60 years of Research & Technical Expertise of ARRB NTRO.

IRSM has its own full-fledged multiple sets of NSV, HWD, Axle Load and other advanced technology equipment and these are available for any immediate road conditional assessment requirements of its clientele and prospective clients.

IRSM has to its credit many successfully completed prestigious Projects spanning more than **600,000 kms** of road network conditional assessment including Road Safety and iRAP assessment.

IRSM has also to its credit for having successfully done Airport Pavement Evaluation of more than 10 airports including International, Domestic & Green Field Airports.

IRSM also provides solutions for Pavement Management System and conducts training on different aspect of Road safety, Conditional assessment, Standardization, and utilization of data for Scientific decision making.

OUR SERVICES

1. Functional Evaluation
2. Structural Evaluation
3. Data Coding & Analysis of Road Data Collected
4. Road Safety / iRAP Assessment
5. Airport – PCN/PCR Evaluation
6. Pavement Management System
 - DITMS
 - HDM4
7. Training

OTHER SERVICES

1. Core Cutting
2. Soil Investigation

SPECIALIZED EQUIPMENT

1. Network Survey Vehicle (NSV)
2. Heavy Weight Deflectometer (HWD)
3. iPAVE
4. Skid Resistance
5. Axle Load
6. Automatic Traffic Counter & Classifier (ATCC)
7. Retro Reflectometer (RR)
8. Line Marking
9. Ground Penetrating Radar (GPR)
10. Mobile Bridge Inspection Unit (MBIU)
11. MIT Dowel Bar Scanner



Why Data Collection?

The importance of using accurate data, collected in accordance with national and international test methods, for maintenance and rehabilitation works cannot be underestimated. Additionally knowing both the functional and structural condition of the pavement, helps road network managers make informed decisions as to how they can best maintain their road network.

Why IRSM?

BECAUSE WE ARE
PERFORMANCE MINDED

- First movers in the field in india, backed by technology devolved through 60 years of research and development.
- Impressive past record in completion of prestigious network projects.
- Timely completion & quality of delivery
- Value for money
- Impressive list of satisfied and repeat clients
- Fleet of survey vehicles.
- Compliment of Transportation Engineers
- Compliment of Engineers with IRAP accreditation on IRAP Star ratings & Safe Road investment plan.
- A Company with stringent quality/safety management systems & procedures and one of the very few with both ISO 9001 2015 & ISO39001 2012 certifications



Our services

FUNCTIONAL EVALUATION (NSV)

Wide range of network survey vehicles available for all immediate requirements, for reliable and accurate functional conditional assessment data. All the vehicles are in compliance with all national and international standards.



AIRPORT EVALUATION SERVICES UTILIZING NSV & HWD

The Heavy Weight Deflectometer (HWD) has been widely used in pavement engineering to evaluate pavement structural condition of Airports. The PCN/PCR-based Airport Pavement evaluation can be analyzed using the RoSy® software developed by SWECO. The Network Survey Vehicle (NSV) has been widely used in Airports to evaluate the International Roughness Index (IRI) and Pavement condition.



STRUCTURAL EVALUATION (HWD)

Heavy Weight Deflectometer (HWD) for reliable and accurate pavement structural assessment of roads. This weight deflectometer that has capable loading ability (typically 350+ kN capability), supporting to test all type of pavements



RETRO-REFLECTOMETER

The Retro Sign GRX retro reflectometer is a handy tool used in the field to check and ensure the quality of various things like road signs, bright clothing, reflective tapes, and license plates. It's especially useful for inspecting items that need to be visible when lit up by car headlights in the dark, such as at night or in tunnels. Retro Sign GRX is a retro reflectometer with LED source technology. It measures retro reflectivity up to 7 observation angles.



AXLE LOAD

Axle load survey is essential for collecting the preliminary information regarding the load spectrum of heavy commercial vehicles running on the highway. The vehicle damage factor (VDF) values arrived through field Axle load surveys, is a multiplier for converting the number of commercial vehicles of different axle loads and axle configurations to the number of standard axle-load repetitions.



PAVEMENT MAINTENANCE MANAGEMENT SYSTEM (PMMS)

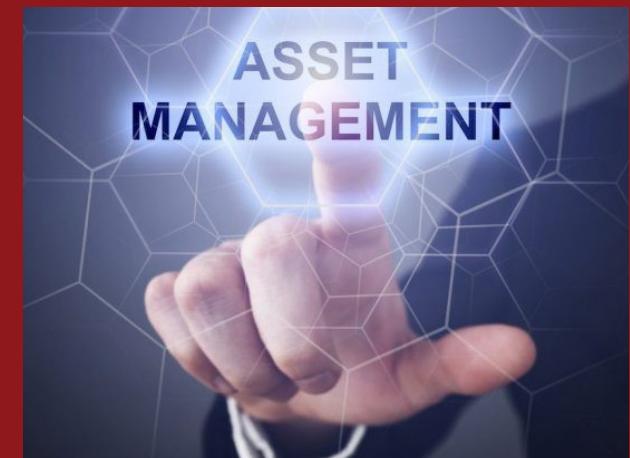
Maintenance plays an essential and integral part in the life of a pavement. The pavement maintenance management system (PMMS) is a systematic method for inspection and rating the pavement condition in each area. The system also performs a cost effectiveness analysis of various maintenance and rehabilitation strategies. Finally, the system prioritizes and recommends pavement rehabilitation and maintenance to maximize results within a given budget amount.



ASSET MANAGEMENT

We help clients shift from reactive asset management, where assets are fixed only when unusable or unsafe, to a predictive approach. This enables accurate forecasting of asset condition to inform future budget planning, capacity needs, and enhancement requirements to ensure asset longevity.

We have extensive experience setting levels of service (LoS) with clients, exploring risk profiles, and turning data into information to create choices for asset managers. We apply decision support and life cycle costing tools, including custom built and commercial pavement management and investment analysis systems. These help us investigate and provide long-term solutions with a focus on performance and cost savings. Network assessment, Deterioration models, Risk assessment, deflection & residual life cycle analysis are some of our offerings.



RETROTEK ROAD MARKING RETROREFLECTOMETER

RetroTek-D front of vehicle mounted road pavement marking retroreflectivity measurement system to survey all line markings including centre road markings across the full width of the lane travelled. This enables to measure day contrast and retroreflectivity, day or night, at all legal traffic speeds. It also simultaneously assesses the absence & presence of RPMs (Road reflective studs).



SKID RESISTANCE

Skid resistance is a condition parameter that characterizes the contribution that a road surface makes to the level of friction available at the contact patch between a road surface and vehicle tyre during acceleration, braking and cornering manoeuvres.

Our T-5 Trailer Friction Tester has been developed to enable us to offer our customers a complete product range within Surface Friction Measurement Equipment. The T-5 trailer is based around a modified version of the rear-axle found in our integrated friction testers. This comes with ASFT's New Generation Computer System to offer a completely new method to collect, store, view and trace not only friction data but also additional information such as Operator ID, GPS position, temperature (Ground and air), tire pressure, map-view, etc.



INTELLIGENT PAVEMENT ASSESSMENT VEHICLE

ARRB's Intelligent Pavement Assessment Vehicle (iPAVE) is changing the way road agencies manage their road network. iPAVE combines Capabilities of NSV & FWD to provide functional and structural assessment in one go. A series of lasers mounted in the trailer measures the deflection velocity of the pavement in the left-hand wheel path as the truck travels down the road at highway speeds.



INTERNATIONAL ROAD ASSESSMENT PROGRAMME (IRAP)

The IRSM is qualified to execute iRAP Projects. Our technical partner ARRB-NTRO is also the iRAP centre of excellence and this adds to our pool of expertise on the projects. IRSM has already successfully completed many World Bank GRSF and other iRAP projects in India. IRSM is the First Company to execute iRAP Data Collection and Coding in India. Since 2011 IRSM has accumulated a wealth of experience by executing large network assessments in India and other geographies.



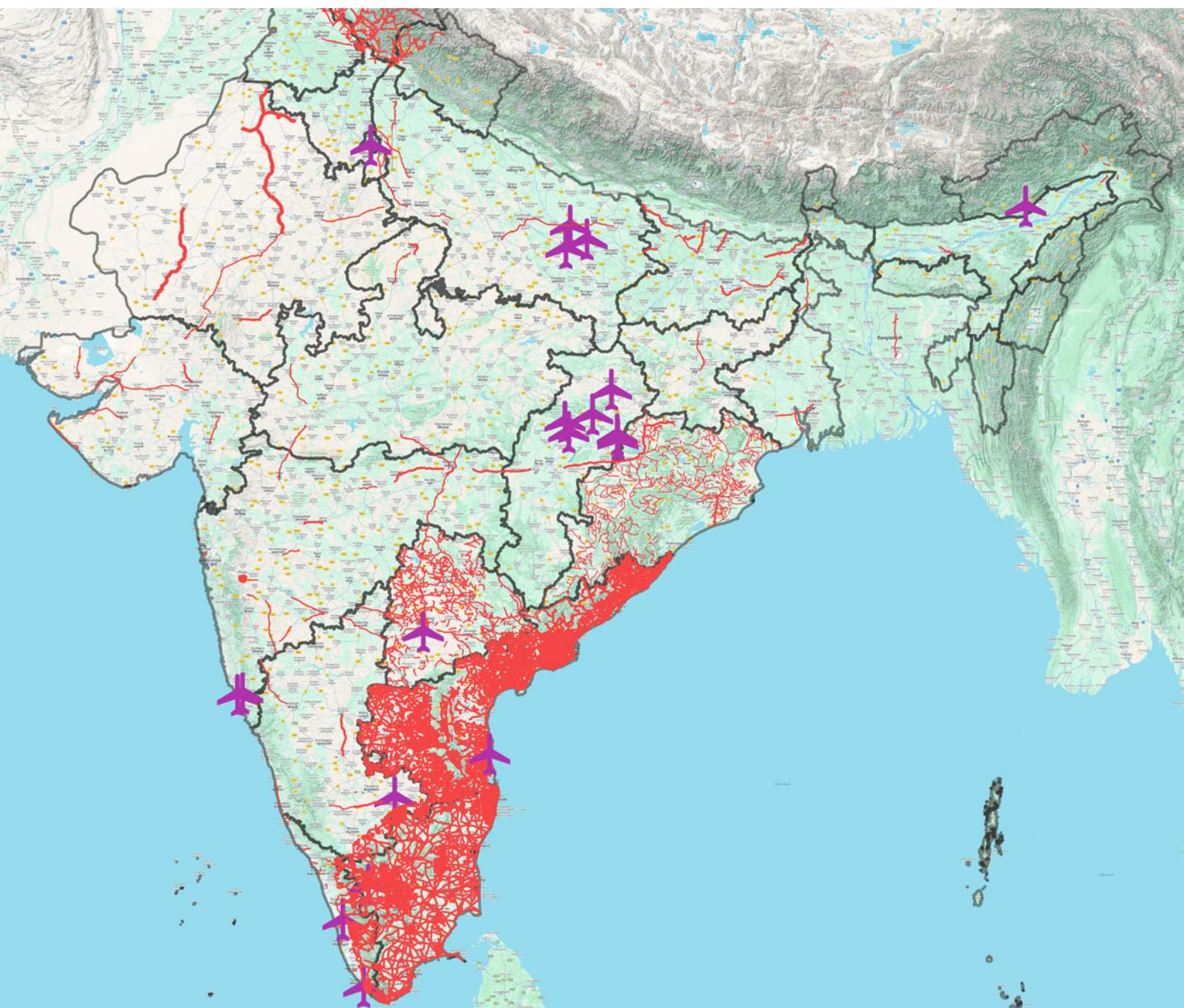
Our Major Projects

IRSM has assessed more than 6,00,000 kms of road data.

Network Level Projects – assessed more than 3 lacs of kms which includes in the states of Andhra Pradesh, Telangana, Tamil Nadu, Kerala, Odisha, Himachal & Sikkim and other.

Airports assessed: Various Airports are evaluated for functional condition assessment and PCN/PCR evaluation. This covers various types of Airports.

- Domestic
- International
- Airstrips



Indicates Road Network Covered by IRSM



Indicates Airport Surveyed by IRSM

EMPANELLED WITH



IRAP ACCREDITED



RESEARCH STUDIES WITH



OUR ESTEEMED CLIENTS



AND MANY MORE...



LET'S COME TOGETHER TO WORK FOR QUALITY AND SAFER ROADS

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SCAN TO LEARN MORE