



# **GEOLOGICAL & METALLURGICAL LABORATORIES**

**A Division of IRClass  
Systems and Solutions Pvt. Ltd**



## NEW SERVICES

- Polymer Testing
- Calibration
- Testing of lube oil and hydraulic oil used in Material Handling Equipments

Geological and Metallurgical Laboratories (GML) was established in 1980 to serve mineral and metal-based industries on their quality control requirements.

Geological and Metallurgical Laboratories has presently operating with three main segments

- Chemical
- Mechanical
- Metallurgy

GML also focuses on civil, environmental testing, calibration, failure analysis and geological investigations

Product-oriented tests for complete characterization.



GML carries out tests according to National/ International standards and maintains a constant quality level in all the testing while continuously upgrading testing methods and facilities in order to meet the varied requirements of the customers.





### **CHEMICAL**

GML mainly undertakes chemical analysis of ferrous and non ferrous alloys and materials such as minerals, ceramics, polymers, coal, water as per IS/ASTM standards. Chemical analysis is carried out by arc emission spectrometry, instruments such as C & S analyser, ONH analyser and wet conventional methods.

### **MECHANICAL**

GML undertakes tensile, impact, bend and hardness tests ( as per IS and ASTM standards) on as received raw materials. It also undertakes Dimensional Inspection of steel tubes, plates and welded wire mesh, Static load test in compression for helical compression springs and various tests on welds.

### **METALLURGY**

GML's engineers and technicians use their metallurgy expertise for macro structural studies of metallic materials, Grain flow studies, Evaluation of welds, Photo macrographs and provide accurate analyses and reports.



GML's has a strong clientele of more than 2000 customers which includes Public sector units, inspecting agencies, academic institutions, small, medium and large scale industries are among the various categories of customers utilizing the services of GML.



GML has approval from Directorate General of Aircraft Quality Assurance (DGAQA) since 1992, accreditation from NABL since 2000, approvals from NPCIL, RITES, Naval Inspectorate, other inspecting agencies and several MNCs.



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