

INDscan[®] tools & technology

for Inline Inspection of Oil & Gas Cross-Country Pipelines

Salient features of technology

*R*eliability and integrity of vast and spread-out pipeline networks of oil & gas industry needs periodic assessment. This can be done using Instrumented Pipeline Inspection Gauge (IPIG) to assure economical and environmentally safe transportation of petroleum products. IPIG is a non-intrusive and non-destructive inspection technology available only with select developed nations to assess the health & integrity of cross-country oil & gas transporting pipelines.

IndianOil R&D has teamed up with Bhabha Atomic Research Centre (BARC) to develop and deploy Magnetic Flux Leakage (MFL) based INDscan[®] series of IPIG tools for inline inspection (ILI) of cross-country pipelines. The indigenous development of IPIG technology & tools have been carried out from the fundamentals. All sizes of IPIGs – ranging from 8” to 30” – are available.



Major Benefits & Commercial Experience

The INDscan® series of ILI tools are high resolution tools backed by AI-ML based software for data analysis. The indigenous IPIG tools are being successfully used in the field for inline inspection of cross-country petroleum pipelines. So far, a cumulative length of over 10,000 km of inline inspection has been carried out in pipelines using the indigenous INDscan® series of tools.

INDscan® tools have detected pipeline anomalies and corrosion defects accurately. In addition, these IPIG tools have also been successful in detecting many third-party interventions & pilferage in the pipelines. Inline inspection services, using INDscan® tools, have also been deployed by other Indian hydrocarbon companies.



For more information, please contact:



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