TCR ENGINEERING

PRESS RELEASE · AEROSPACE MATERIALS TESTING

FOR IMMEDIATE RELEASE

Indian Group Adds Two Independent NADCAP AC7101 Materials Testing Laboratories to the Global Aerospace Pool

The TCR group is the first Indian group with two laboratories separately accredited by NADCAP for Materials Testing, placing accredited verification capacity alongside a fast-growing aerospace manufacturing base.

NAVI MUMBAI AND VADODARA, INDIA, 17 AUGUST 2026

The TCR group has become the first Indian group with two laboratories separately accredited by NADCAP for Materials Testing, both classified as independent laboratories, adding accredited verification capacity to a global aerospace supply chain that is currently constrained by the availability of qualified suppliers rather than by the availability of parts.

The two laboratories, TCR Engineering Services at Mahape, Navi Mumbai and TCR Advanced Engineering at Makarpura, Vadodara, hold separate Performance Review Institute certificates for the same AC7101 Materials Testing scope. The Navi Mumbai laboratory holds certificate 29415245997 and the Vadodara laboratory holds certificate 29227245998. Both are valid to 31 May 2027 and both are listed on the eAuditNet Qualified Manufacturers List, where any customer can verify the status and scope independently.

A capacity constraint, not a sourcing question

Commercial aerospace rate ramps are limited by how quickly a supplier can be qualified, and qualification runs through accredited materials verification. NADCAP-accredited materials testing is one of the narrower links in that chain worldwide. Two additional accredited laboratories enlarge the pool available to every programme drawing on Asian manufacturing.

The second effect is one of distance. As Airbus, Boeing, Safran, GE Aerospace and Rolls-Royce suppliers place a growing share of forgings, castings, structures and machined detail with Indian manufacturers, the verification of those parts has often travelled back to a European or North American laboratory and the result has travelled forward again. That round trip sits inside the buyer's own programme schedule, not the supplier's. Accredited capacity beside the part removes freight, customs handling and the waiting that goes with them.

> *"Every aerospace programme in the world is short of qualified capacity, not short of suppliers. A part can be made in a dozen places; it can only be verified in a laboratory that holds the accreditation. We have added two such laboratories to the global pool, and we have put them where a growing share of the world's aerospace parts is now being made. A European or American customer buying from an Indian supplier no longer has to fly the specimen back to Europe or America to find out whether the heat treatment held. That week does not come out of our schedule. It comes out of theirs."*
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> **Rohit Bafna, President, TCR Engineering Services**

What the accreditation covers

The accredited scope is the same at both laboratories. Under AC7101/3 it covers room-temperature tensile, elevated-temperature tensile, impact and bend testing. Under AC7101/4 it covers metallographic evaluation, interior microindentation, surface case depth by microindentation, near-surface alpha case on wrought titanium, carburisation and decarburisation, and grain size. Under AC7101/5 it covers Brinell, Rockwell and Vickers hardness together with electrical conductivity inspection. Under AC7101/7 it covers standard mechanical-testing specimen machining, and under AC7101/14 the proficiency testing and internal round-robin requirements that apply to every accredited laboratory.

CRITERIA	CATEGORY	ACCREDITED AT BOTH LABORATORIES
AC7101/3	Mechanical testing	Room-temperature tensile (A), elevated-temperature tensile (B), impact (N), bend testing (XN)
AC7101/4	Metallography and microindentation hardness	Metallographic evaluation (L0), microindentation interior (L1), surface case depth (L5), near-surface alpha case on wrought titanium (L8), carburisation and decarburisation (L10), grain size (L11)
AC7101/5	Hardness testing, macro	Brinell (M1), Rockwell (M2), Vickers (M3), electrical conductivity inspection (M4)
AC7101/7	Mechanical testing specimen preparation	Standard specimen machining (Z)
AC7101/14	Proficiency testing	Proficiency testing and internal round-robin requirements for all laboratories

Two capabilities within that scope carry particular weight in aerospace manufacturing. Near-surface alpha case evaluation on wrought titanium detects the oxygen-enriched brittle layer that forms when titanium is worked or heat treated in an uncontrolled atmosphere, a defect that can initiate cracking in service. Electrical conductivity inspection is the standard means of confirming the temper condition of aluminium alloys after heat treatment. Both are accredited at both TCR laboratories.

Accreditation under AC7101/7 for standard specimen machining means that specimens can be prepared inside the accredited laboratory operation. A customer does not have to qualify a separate machining source for that step and then manage the chain of custody between the two.

Independent by designation

Both certificates record the facility's laboratory type as Independent. TCR does not hold, and does not claim, NADCAP AC7102 accreditation for heat treatment. The company performs no heat treating and manufactures no

aerospace parts. Its role is confined to independent verification of materials and of the results of processes carried out by others, which is the purpose the laboratory accreditation exists to serve.

> *"We are not a heat treater and we have no interest in becoming one. Our certificate says Lab Type: Independent, and that word is the product. The value of a verification result is exactly equal to the distance between the person who produced the part and the person who measured it."*
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> **Rohit Bafna, President, TCR Engineering Services**

Two sites, one scope

The two laboratories provide the same accredited scope from two locations roughly four hundred kilometres apart, giving customers additional capacity and a second qualified source without a second qualification exercise. The accredited facilities are:

> **TCR Engineering Services Pvt. Ltd.**
> VKB House, Plot No. EL-182, MIDC-TTC Industrial Area, Electronic Zone, Mahape, Navi Mumbai 400710, Maharashtra, India
> `PRI certificate 29415245997 · valid to 31 May 2027`

> **TCR Advanced Engineering Private Limited**
> 250-252/9, GIDC, Makarpura, Vadodara 390010, Gujarat, India
> `PRI certificate 29227245998 · valid to 31 May 2027`

Aviation and the trade agenda

Aviation is a named sector in both the India-United States and the India-European Union trade discussions. Tariff schedules and market-access provisions only convert into trade once a supplier base can be qualified against the standards the buyer's regulator and customer already require. Accreditation infrastructure is the layer beneath those agreements that determines whether they deliver volume.

About TCR Engineering Services

Established in 1973, TCR Engineering Services Pvt. Ltd. is an independent materials testing, non-destructive testing and asset integrity firm headquartered at Lower Parel, Mumbai, India, with its operating laboratory at Mahape, Navi Mumbai. Its parent laboratory is accredited to ISO/IEC 17025:2017 by NABL (certificate NABLT0726MH18640), and NABL is a signatory to the ILAC Mutual Recognition Arrangement, under which its reports are accepted across more than ninety economies. The TCR group operates in four countries, India, Saudi Arabia, Qatar and Kuwait, and serves customers in energy, metals, manufacturing, infrastructure, mobility and aerospace. TCR Advanced Engineering Pvt. Ltd., Vadodara, is a group company providing asset integrity engineering, contract research and materials testing.

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