

CAPABILITY STATEMENT · THIRD PARTY INSPECTION

Third Party Inspection from India

Source, vendor and shipment inspection for buyers who cannot stand at the works

1973

Inspecting and testing since

1,483

NABL scope items, certificate
NABLT0726MH18640

10

Inspection stages, from vendor audit to arrival

4 h

Flash report after every visit, in working hours

TCR/TPI/CS-01 · Revision 3 · October 2026

Transparency. Competence. Reliability.

TCR Engineering Services Pvt. Ltd.

Plot EL-182, MIDC-TTC Industrial Area, Electronic Zone, Behind NELCO, Mahape, Navi Mumbai 400 710, Maharashtra, India
Established 1973 · NABL (NABLT0726MH18640) ISO/IEC 17025:2017 · NADCAP AC7101 · BIS, IBR, BMC, CIDCO Approved

SECTION 01

The short version

TCR Engineering inspects goods at Indian manufacturers on behalf of buyers in India and overseas, and has done so since 1973. The inspection runs to a written system, every number in a report is measured, and anything the inspector finds can be tested the same week at TCR's NABL accredited laboratory in Navi Mumbai.

- **Independent.** TCR has no financial interest in the vendors it inspects and does not design, make, supply or install what it inspects. It reports to the purchaser.
- **Evidence, not opinion.** The inspector arrives holding the acceptance criteria, measures before stating, and records what was witnessed separately from what was read off the vendor's records.
- **Fast to the buyer.** A flash report within four working hours of leaving the works, a non-conformance the same day it is found, the full visit report within one working day.
- **Laboratory behind the inspector.** NABL ISO/IEC 17025:2017, certificate NABLT0726MH18640, 1,483 scope items: a suspect sample is tested, not argued about.

SECTION 02

What we are, and what we are not

A buyer is entitled to know these two things before deciding what weight to place on a TCR report.

1. **The laboratory accreditation is real and verifiable.** TCR Engineering holds NABL accreditation to ISO/IEC 17025:2017, certificate NABLT0726MH18640, 1,483 scope items, valid from 3 March 2026 to 2 March 2030, on the NABL public register. It covers testing. A sample drawn during an inspection is tested under it.
2. **TCR is not accredited as an inspection body and does not claim to be.** ISO/IEC 17020:2026, published on 27 March 2026 and replacing the withdrawn 2012 edition, sets the requirements for bodies performing inspection. TCR acts as an independent third party under the terms of each inspection contract. A buyer who requires an accredited inspection body should say so at enquiry, and we will say at once whether we fit.

Inside Saudi Arabia, inspection is delivered by TCR Arabia Company Limited, the 60/40 joint venture of TCR Engineering and GAS Arabian Services, established in 2007 and headquartered in Dammam. Vendor registrations with owners in the Kingdom are held at group level; Section 8 sets out the Saudi Aramco vendor inspection categories TCR Arabia is applying for.

SECTION 03

What we inspect for you

Service	What it does	When it is used
Factory audit and vendor qualification	Verifies that a manufacturer can meet the order for quality, quantity and delivery: the quality system in practice, the control plan walked through the works, calibration, qualified people. Concludes recommended, recommended with conditions, or not recommended.	Before the order

Service	What it does	When it is used
Pre-production meeting and ITP review	Fixes the inspection and test plan, the hold and witness points, the specification revision in force and what constitutes a release.	Order placed
Raw material verification	Material, batch, expiry and mill certificates against every line of the schedule; samples drawn and sealed where testing is ordered.	Before fabrication
Initial production check	The first articles against the order and the approved samples, so a problem is corrected at the start of the run.	Start of production
In-process and during-production checks	Production status, bottlenecks and the semi-finished items sampled to the agreed plan, and confirmation that the corrections raised earlier were made.	Part-way through production
Final and pre-shipment inspection	Quality, quantity, marking and packing on a sample drawn to ISO 2859-1 or the buyer's plan; release note or non-conformance.	Goods complete, usually 80 per cent or more packed
Random inspection	An independent check at any point, alone or combined with the checks above.	Any time
Loading supervision	Container condition, identification of the inspected lot, tally, securing, seal and verified gross mass.	At stuffing
Sampling and laboratory testing	Samples drawn, marked and sealed at the works and tested at TCR's laboratory: mechanical, chemical, PMI, NDT, metallography, corrosion and dimensional.	Any stage
Expediting	Desk and field expediting, a material status report, and flash reports on anything that threatens the date.	Throughout
Destination survey	Unloading and condition survey at the receiving end, and the claim evidence pack where needed.	On arrival
OEM development	First prototype, technical documentation, standards evaluation and production and quality criteria transferred to the supplier.	New sourcing

SECTION 04

An order, stage by stage

The system covers the order from the audit before it is placed to the survey after the goods arrive. Each stage has a guideline note the inspector reads before the visit and a form he completes at the works.

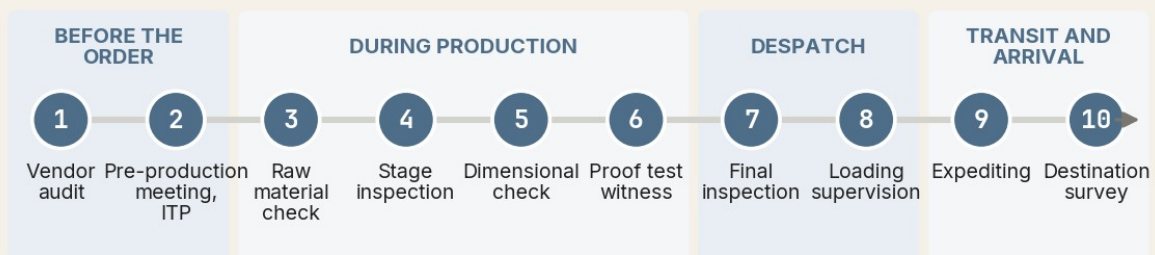


Figure 1. An order in four phases and ten stages, from the audit before the order is placed to the survey after the goods arrive.

Source: TCR third party inspection system, *Inspection Manual* TCR/TPI/M-01.

Stage	Activity	What the buyer receives
1. Before the order	Vendor qualification audit	Audit report with findings and conclusion
2. Order placed	Pre-production meeting and ITP review	Signed ITP with hold and witness points, and the minutes
3. Before fabrication	Raw material and consumable verification	Batch, expiry and certificate against every line of the schedule
4. During fabrication	Stage inspection	Witnessed stages and measured values against the approved criteria
5. Finished item	Dimensional inspection	Measured dimensional record with a marked-up sketch
6. Proof test	Pressure, load or electrical test witness	The witnessed test with its record
7. Before despatch	Final and pre-shipment inspection	Final report, document audit and the inspection release note
8. At stuffing	Container loading supervision	Container condition, tally, securing, seal and verified gross mass
9. In transit	Expediting and progress monitoring	Progress against the contractual date
10. On arrival	Unloading and destination condition survey	Survey report and, where needed, the claim evidence pack

When each report arrives

Deliverable	Issued within
Flash report after any visit	Four working hours of leaving the works
Non-conformance report	The same day it is found
Inspection visit report with photographs	One working day of the visit
Container loading supervision report	The same day the container is sealed
Vendor qualification audit report	Two working days of the visit
Destination survey report	One working day of the survey

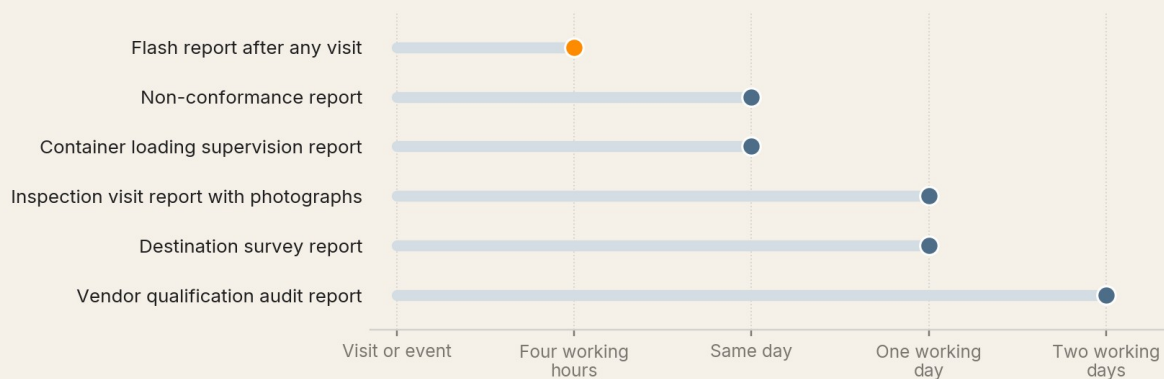


Figure 2. When each report reaches the buyer, measured from the visit, the finding, the sealing of the container or the survey. The axis is the order of the commitments, not a scale of hours; the flash report is the only commitment stated in hours.

Source: The turnaround table above.

Every document carries a number of the form TCR/TPI/year/job/form-sequence, so any report traces to its job without a register. A revised report keeps its number and takes a revision letter; the superseded revision is retained. A worked example of each report is shown to a prospective buyer on request.

SECTION 05

What counts as evidence, and when the inspector stops

- **Measured before stated.** A number in a report was measured or read off an identified instrument. 'Satisfactory' with no number behind it is an opinion.
- **Witnessed and reviewed are kept apart.** What the inspector saw happen is recorded separately from what was taken from the vendor's records.
- **Missing is written MISSING.** A blank cell reads as verified.
- **Every photograph is captioned** with a serial, the item, the location and what it shows; a defect is photographed twice, once to locate it and once close with a scale.
- **An error in the buyer's instruction is flagged, not transcribed.** The inspector records the correct position and asks.

The inspector stops and escalates the same day when a hold point has been passed without notice, when no approved document states the acceptance criterion, when the vendor proposes a material or procedure substitution, when a pneumatic test is proposed in place of a hydrostatic one, when access, photography or a record is refused, when a safety condition prevents the activity, or when the buyer's instruction conflicts with the approved documents. Acceptance of a design or of a deviation from the order is the purchaser's decision.

SECTION 06

Product families and sectors

Family	Typical items	What the inspection covers
Industrial goods	Castings, forgings and machined parts; valves, nuts and bolts; industrial machinery and gearboxes; turbines; heat exchangers, boilers, pressure vessels and tanks; piping and pipelines; steel and minerals	Materials, welding, dimensions, NDT witness, pressure test, coating, marking, packing
FRP and GRP equipment	Pressure vessels, tanks and media filtration vessels	Resin and glass batches, laminate and cure by Barcol hardness and thickness, dimensions, hydrostatic test, loading; ASME BPVC Section X, ASME RTP-1, BS EN 13121-3, ASTM D3299-26
Solar and power	PV modules, string inverters, power transformers, HT and LT panels, HT and DC cables, ACSR conductor, module mounting structures, pile foundations	Pre-dispatch inspection and routine test witness against the approved GTP and QAP
Mechanical parking	Puzzle and pit-type parking structures	Fabrication stage, site erection and installation, functional, safety and load test witness

Family	Typical items	What the inspection covers
Precision rotating equipment	Rotary die cutters, crimpers and similar assemblies	Vendor assessment of machining, heat treatment and metrology; final inspection with a witnessed trial run
Bulk materials	Activated carbon, minerals and similar commodities	Sampling, sealing, chain of custody, NABL laboratory testing, loading supervision
Commercial and trading items	Electrical appliances, furniture, leather, textiles, packaging and similar consumer goods	AQL inspection of quality, quantity, marking and packing

SECTION 07

Sampling and acceptance

Unless the buyer instructs otherwise, TCR samples to ISO 2859-1:2026, the third edition of 22 January 2026, which replaces the 1999 edition; ASQ/ANSI Z1.4 where the order names it; and ISO 3951-1:2022 for inspection by variables. The defaults below apply when the buyer gives no AQL.

Defect class	High-value products	Low-value products
Critical	None accepted	None accepted
Major	AQL 1.5	AQL 2.5
Minor	AQL 2.5	AQL 4.0

Worked example: a lot of 4,000 units at general inspection level II takes sample size code letter L, a sample of 200. At AQL 2.5 the lot is accepted with 10 or fewer defectives and rejected at 11.

What an AQL does and does not protect: under the AQL 2.5 plan a lot that is 2.5 per cent defective is accepted 99 times in 100, and a lot has to be 7.6 per cent defective before it is accepted only once in 10. A buyer who cannot tolerate that margin should name a tighter AQL or a limiting quality at enquiry.

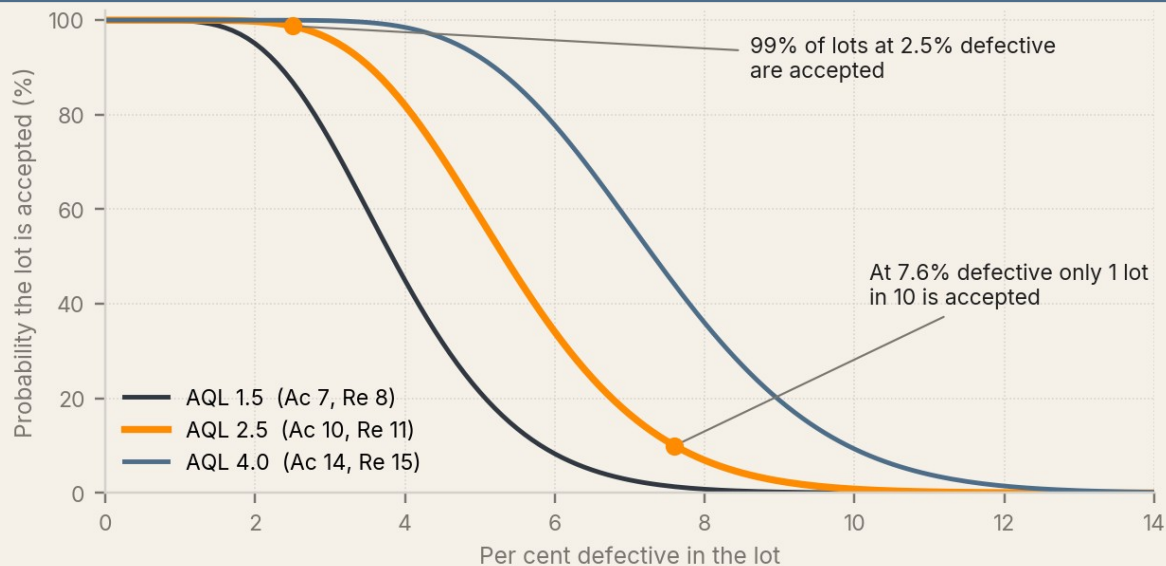


Figure 3. Operating characteristic curves for the three default plans at sample size code letter L, a sample of 200: the probability that a lot is accepted against the per cent defective actually in it.

Source: Computed by TCR from the binomial distribution, $n = 200$; acceptance numbers from ISO 2859-1 single sampling plans for normal inspection, code letter L.

SECTION 08

Oil and gas vendor inspection, and Saudi Aramco

For oil and gas buyers the inspection is run by inspectors holding ASNT or PCN Level II, CSWIP, AWS CWI and API 510, API 570 or API 653 credentials, across line pipe, fabricated piping, valves, fittings and flanges, gaskets, coatings, fasteners, structural steel, cranes, pumps, pressure vessels, heat exchangers, tanks, and relief and control valves.

Saudi Aramco vendor inspection categories: application by TCR Arabia

TCR Arabia is applying, as at September 2026, for six categories of Saudi Aramco's vendor inspector qualification matrix. These are applications, not approvals.

Category	Scope	Prerequisite	Body of knowledge
QM03	Mechanical, general	None	ASME Section II, V and IX; ASME B16.5, B16.9, B16.20, B16.21, B31.3; MSS SP-75; AWS D1.1; SSPC
QM05	Line pipe	QM03	API 5L
QM07	Valves	QM03	API 598, API 6D, API 600, API 602; ASME B16.5, B16.34; MSS SP-25; SSPC
QM30	Pressure vessels	QM03	ASME Section VIII Divisions 1 and 2; SSPC
QM35	Skid-mounted equipment, mechanical	QM03 and QM30	Interview
QM36	Skid-mounted equipment, electrical	QM01 and QM02	Interview

HIC and SSC testing and witness, in India

Saudi Aramco's matrix lists HIC and SSC testing as its own category, QM84, to NACE TM0284 and NACE TM0177. For material made in India, TCR Engineering does both halves of that work in India: HIC to NACE TM0284 and SSC to NACE TM0177, Methods A to D, at its NABL accredited laboratory in Navi Mumbai, a laboratory approved by PDO for HIC and SSC testing; and witness inspection of sample selection, marking, specimen preparation and testing at mills and laboratories in India. TCR Engineering does not hold a Saudi Aramco QM84 qualification; this is testing and witness capability.

SECTION 09

The team

Third party inspection is led by Shailendra Singh, Head, NDT and Third-Party Inspection, under Avinash Tambewagh, Technical Head. Quality release of every test result drawn from an inspection is by Dr. Ajay Essampally, Head of Quality Assurance. Vendor qualification audits are led by an ISO 9001 or API Q1 lead auditor, and each inspector's qualifications and instrument calibrations are recorded on the inspector register and named on the job card before the visit.

SECTION 10

Code of ethics

- **Integrity and independence.** No employee accepts a gift or favour from a customer or supplier; any corrupt offer is reported; no employee holds an interest in a supplier, customer or competitor. Breach is cause for dismissal.
- **Transparency and safety.** Work is carried out to international inspection standards and the customer's instructions; customers are told of major developments on their orders; confidential information is never disclosed.
- **Labour standards.** Inspectors do not deal with a factory employing children below the legal working age of the country, and report it if they find it. Social accountability audits to SA8000 can be added to an inspection.
- **Compliance with law.** TCR complies with the laws of every country it inspects in, and seeks management advice where two jurisdictions conflict.

SECTION 11

Where we are

Office	Address and contact
TCR Engineering, Mahape laboratory (head office laboratory)	Plot EL-182, MIDC-TTC Industrial Area, Electronic Zone, Behind NELCO, Mahape, Navi Mumbai 400 710. +91-22-67380900, +91 98335 30200, sales@tc reng.com
TCR Engineering, registered office	35 Pragati Industrial Estate, N.M. Joshi Marg, Lower Parel, Mumbai 400 011
TCR Advanced Engineering, Vadodara	250-252/9, Naren Hardware Lane, GIDC Estate, Makarpura, Vadodara 390 010. baroda@tc reng.com, www.tcradvanced.com
TCR Eastern, Bhubaneswar	Plot 125/2094, Vishnu Vihar, Bhubaneswar 752 101, Odisha. odisha@tc reng.com
TCR Arabia Company Limited, Dammam	P.O. Box 8143, Dammam 32224, King Abdulaziz Seaport Facility, Dammam. +966-13-8475784, sales@tcr-arabia.com, www.tcr-arabia.com

About this document. This capability statement describes how TCR Engineering Services Pvt. Ltd. carries out third party inspection. It is not an offer, a quotation, a certificate or an inspection report. The scope, standards, acceptance criteria and reporting times for any job are those agreed in writing in the inspection order for that job. TCR's NABL accreditation, certificate NABLT0726MH18640, covers laboratory testing; TCR is not accredited as an inspection body to ISO/IEC 17020. The Saudi Aramco categories in Section 8 are applications by TCR Arabia, not approvals.

THIRD PARTY INSPECTION FROM INDIA

Get in touch

TCR Engineering, Mahape laboratory (head office laboratory)

Plot EL-182, MIDC-TTC Industrial Area, Electronic Zone, Behind NELCO, Mahape,
Navi Mumbai 400 710. +91-22-67380900, +91 98335 30200, sales@tcreng.com

TCR Advanced Engineering, Vadodara

250-252/9, Naren Hardware Lane, GIDC Estate, Makarpura, Vadodara 390 010.
baroda@tcreng.com, www.tcradvanced.com

TCR Arabia Company Limited, Dammam

P.O. Box 8143, Dammam 32224, King Abdulaziz Seaport Facility, Dammam.
+966-13-8475784, sales@tcr-arabia.com, www.tcr-arabia.com

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