



INSIGHTS

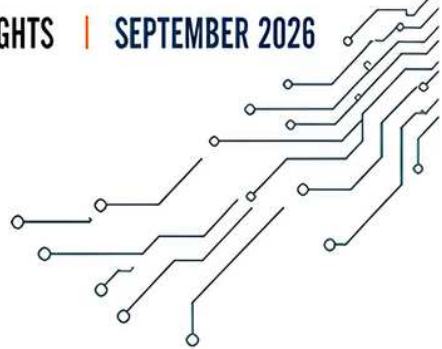
SEMICONDUCTOR MOMENT

What India has built, where the ecosystem stands, and where opportunities are emerging for international businesses.



IN THIS ISSUE

FROM POLICY TO PARTICIPATION

**01****PARTNER NOTE**

From ambition to an operating ecosystem.

PAGE 03**05****WHAT COULD SEMICON 2.0 UNLOCK?**

Notified support across fabs, suppliers, design and R&D.

PAGE 07**02****WHERE INDIA STANDS TODAY**

Policy, approvals and the move into production.

PAGE 04**06****WHERE COULD THE NEXT OPPORTUNITY OPEN?**

Capability gaps international suppliers should watch.

PAGE 08**03****WHERE INDIA IS STRONG AND WHERE IT ISN'T YET**

Established strengths, building capabilities and remaining gaps.

PAGE 05**07****MARKET ENTRY Q&A**

Practical questions on participation, locations and entry.

PAGE 09**04****WHERE IS THE ECOSYSTEM FORMING?**

Clusters, anchor projects and local specialisations.

PAGE 06**08****INDIA CALENDAR**

Semiconductor and adjacent-industry events to plan around.

PAGE 10**GSRA &
ASSOCIATES**

Chartered Accountants

Impactful | Reliable | Responsive



FROM AMBITION TO AN OPERATING ECOSYSTEM

For years, India's semiconductor story was largely about potential.

That is changing. With Semicon 2.0 now notified, policy is also beginning to address the wider ecosystem required around these projects.

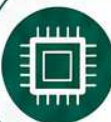
Manufacturing has started in parts of the value chain. Major fabrication projects are being built. And the conversation is moving beyond anchor projects to the suppliers, technology, skills and infrastructure those projects need around them.

That creates a different question for international businesses.



Ravi Sachdeva

Partner, GSRA & Associates



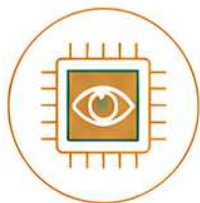
Not simply:

Is India serious about semiconductors?

But:

Which parts of the ecosystem are becoming real, and where could our business participate?

In this edition, we separate what is operational from what is still being built, show where India sits across the semiconductor value chain, map the emerging clusters and examine where the next commercial opportunities may appear.



THE PARTNER VIEW

“ India's next semiconductor chapter will be defined as much by the ecosystem around the fabs as by the fabs themselves. ”

WHERE INDIA STANDS TODAY

FROM POLICY TO PRODUCTION

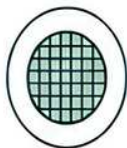
India now has 12 approved manufacturing projects, three facilities in commercial production and a newly notified second phase of national support. Here is how the market reached this point.

WHERE INDIA STANDS TODAY

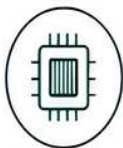


12 APPROVED
MANUFACTURING
PROJECTS

APPROVED PROJECTS SPAN:



SILICON WAFER
FABRICATION



COMPOUND +
DISCRETE
SEMICONDUCTORS



DISPLAY
TECHNOLOGIES



ATMP, OSAT +
ADVANCED
PACKAGING



₹1.64 LAKH CR+
~US\$17.2 Bn
COMMITTED
INVESTMENT



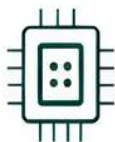
3
FACILITIES IN
COMMERCIAL
PRODUCTION
Micron · Kaynes · CG Semi



6
STATES WITH
APPROVED
PROJECTS



24 CHIP-DESIGN PROJECTS
APPROVED FOR
FINANCIAL SUPPORT



India has moved from policy intent to early production. The manufacturing base is still weighted toward packaging and testing, while large-scale silicon fabrication remains the next major step.

Sources: MeitY · PIB · India Semiconductor Mission | Updated through 31 August 2026
US\$ equivalents calculated at ₹95.4509 per US\$ as at 31 August 2026.

THE JOURNEY SO FAR



2021

₹76,000 CR | ~US\$8.0 Bn

FISCAL OUTLAY

Semicon India Programme launched

Government support begins across fabs, packaging, testing and chip design.



2023–2026

PROJECT PIPELINE FORMS

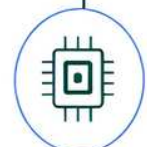
Approvals expand across silicon fabrication, memory packaging, outsourced semiconductor assembly and test (OSAT), SiC, advanced packaging and display driver chips.



2026

THREE FACILITIES IN
COMMERCIAL PRODUCTION

India moves from approved projects to commercial semiconductor manufacturing.



JULY–AUGUST 2026
SEMICON 2.0 APPROVED
AND NOTIFIED

₹1,27,500 CR | ~US\$13.4 Bn

15 July: Cabinet approval

31 August: All six pillars formally notified

The six notified pillars cover design; machines and materials; more fabs; ATMP/OSAT; R&D; and talent development.

Detailed framework on Page 07.

WHERE INDIA IS STRONG AND WHERE IT ISN'T YET

INDIA ACROSS THE VALUE CHAIN



India's semiconductor opportunity is developing at different speeds.

Design and electronics demand are established; packaging is scaling commercially; fabs and the specialist supplier base are still being built.



ESTABLISHED



SCALING



BUILDING



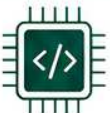
EARLY / EMERGING

LAYER

EVIDENCE TODAY

WHAT IT MEANS FOR FOREIGN FIRMS

1



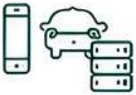
DESIGN

ESTABLISHED

Nearly 20% of the global semiconductor chip-design workforce is based in India.*

Build R&D teams, access engineering talent and pursue design or IP partnerships.

2



ELECTRONICS
DEMAND

ESTABLISHED

Since FY2014/15:
~7× electronics production ·
~11× exports · ~33×
mobile-phone production.

A growing customer base across mobile, EVs, power electronics, data centres and industrial systems.

3



PACKAGING,
ASSEMBLY +
TESTING

SCALING

Micron, CG Semi and Kaynes provide early commercial production proof.

Near-term demand for production equipment, process control, materials, testing and reliability solutions.

4



WAFER
FABRICATION

BUILDING

The Tata Electronics and PSMC Dholera fab is planned for 50,000 wafer starts per month.

Start qualification and local relationships now. Fab supplier cycles are long.

5



EQUIPMENT +
MATERIALS

EARLY

Engagements involving ASML, Tokyo Electron and Merck signal global supplier participation, but local depth remains limited.

Openings in precision equipment, specialty chemicals, gases, cleanrooms and process technology.

6



COMPOUND
SEMICONDUCTORS

EMERGING

SiCSem and Crystal Matrix are approved projects. They are not yet operational.

Early partnership and technology-transfer opportunities in SiC, GaN and advanced displays.

HOW FOREIGN COMPANIES CAN RESPOND



SELL NOW

Packaging, testing, automation and electronics supply-chain solutions



POSITION NOW

Fab equipment, specialty materials, gases and infrastructure



PARTNER EARLY

Compound semiconductor technology and advanced processes



BUILD IN INDIA

Design, engineering and R&D capabilities

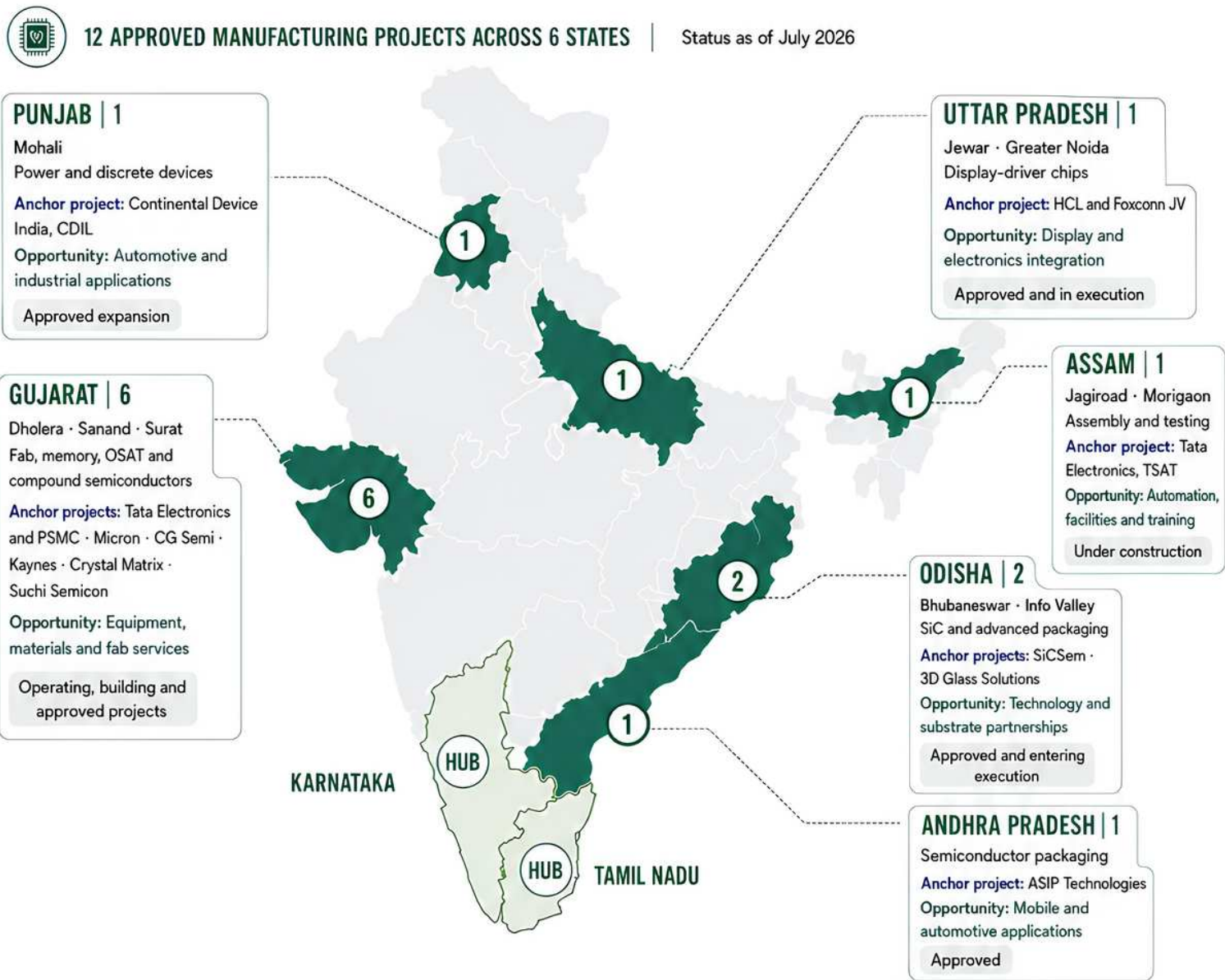
Source: MeitY · PIB · ISM · Tata Electronics · Company announcements | Status as of July 2026

*Industry estimate cited by MeitY/PIB.

WHERE IS THE ECOSYSTEM FORMING?

SIX MANUFACTURING STATES. DIFFERENT ROLES IN THE VALUE CHAIN.

India is developing as a network of specialised locations, not one national semiconductor hub. The right location depends on the capability a company needs.



SUPPORTING CAPABILITY HUBS

Not included in the 12 approved manufacturing-project count



KARNATAKA
Bengaluru and Mysuru
Design, engineering and semiconductor R&D
Best for: Engineering teams and design partnerships



TAMIL NADU
Chennai, Coimbatore and Hosur
Electronics manufacturing and downstream customers
Best for: Electronics integration and customer proximity

Source: MeitY · PIB · India Semiconductor Mission | Status as of July 2026
Project counts refer to ISM-approved manufacturing units; status varies by facility.

WHAT COULD SEMICON 2.0 UNLOCK?

FROM ANCHOR PROJECTS TO THE ECOSYSTEM AROUND THEM

India's clusters are taking shape. Semicon. 2.0 extends support from anchor projects to the capabilities needed around them.



NOTIFIED
31 AUGUST 2026



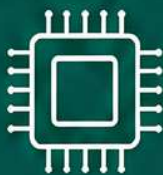
₹1,27,500 CR
~US\$13.4 Bn



6 PILLARS
10 CATEGORIES



INITIAL WINDOW
3 YEARS



ISM 1.0
ANCHOR CAPACITY

Fabs · Packaging · Chip design



SEMICON 2.0
ECOSYSTEM DEPTH

Equipment · Materials · Advanced packaging · Strategic IP · R&D · Talent

THE POLICY NOW FOLLOWS THE ECOSYSTEM INDIA IS BUILDING.

01



TECHNOLOGY

₹15 CR
DESIGN SEED
SUPPORT

9%
NEW CHIP
SALES

UP TO 75%
R&D + TALENT

02



MANUFACTURING

40%
SILICON FABS

35%
COMPOUND, DISPLAY +
ADVANCED PACKAGING

25%
LEGACY
ATMP / OSAT

03



SUPPLY CHAIN

UP TO 30%
EQUIPMENT,
MATERIALS + TEST

2-10%
EQUIPMENT PLI

LOCAL ROUTES
BUILD · JV ·
LICENCE · SERVICE



APPLY DIRECTLY

Establish an Indian operation
and meet category eligibility.



PARTNER

Use a JV, technology
licence, R&D or training
collaboration.



SUPPLY PROJECTS

Serve approved projects
without claiming the
incentive directly.



THE COMMERCIAL SHIFT

Support now extends beyond fabs to design, equipment, materials, packaging, R&D and talent, widening the entry points for foreign suppliers and technology partners.

WHERE COULD THE NEXT OPPORTUNITY OPEN?

THE NEXT OPPORTUNITY IS IN THE ECOSYSTEM AROUND THE FABS

India's first production facilities are creating demand beyond chipmaking itself. For foreign suppliers, the nearer-term openings are in the systems, materials, services and specialist technologies required to commission, qualify and scale them.



01 OPERATE THE FIRST FACILITIES



EQUIPMENT LIFECYCLE + LOCAL SERVICE

Imported tools require installation, calibration, spare parts, maintenance and uptime support.

ENTRY ROUTE

Local service hub or authorised technical partner.



FAB UTILITIES + INFRASTRUCTURE

Cleanrooms, ultrapure water, specialty-gas delivery, power quality and waste treatment determine ramp-up reliability.

ENTRY ROUTE

Specialist technology provider, engineering partner or operations contractor.



TESTING, METROLOGY + YIELD

Commercial production increases demand for process control, reliability testing, failure analysis and expert-grade quality systems.

ENTRY ROUTE

Equipment sales supported by local engineering and laboratory capability.



02 SUPPLY THE PRODUCTION RAMP



MATERIALS, CHEMICALS + GASES

Fabs and packaging plants need recurring, qualified supplies. Qualification cycles are long, so suppliers should engage before volume production.

ENTRY ROUTE

Early qualification, local storage, distribution or selective localisation.

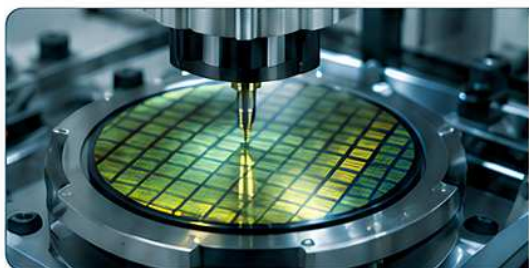


ADVANCED PACKAGING + SUBSTRATES

Commercial packaging creates demand for equipment, substrates, interposers, thermal management and process automation.

ENTRY ROUTE

Equipment supply, technology licensing or manufacturing partnership.



03 BUILD THE NEXT CAPABILITIES



COMPOUND SEMICONDUCTORS + SPECIALISED IP

Approved SiC, GaN and advanced-display projects create early openings in process technology, epitaxy, power devices, packaging and domain-specific semiconductor IP.

ENTRY ROUTE

Joint development, technology transfer, licensing or strategic partnership.

INDIA'S DEMAND ROADMAP



US\$45–50 Bn

Estimated Indian semiconductor market, 2024–25



US\$100–110 Bn

Expected Indian semiconductor market by 2030*

India's opportunity is moving from project approval to supplier qualification and operational execution.

Source: MeitY · PIB · India Semiconductor Mission · Industry estimates | Verified through 31 August 2026

*Industry estimate cited by MeitY/PIB.

MARKET ENTRY Q&A

WHAT INTERNATIONAL BUSINESSES MAY STILL BE ASKING

01



IS THE OPPORTUNITY COMMERCIAL TODAY?

Yes, but not evenly across the value chain.

Packaging, testing, electronics manufacturing and operating facilities create demand now. Fab-related demand will emerge in stages through construction, qualification and production ramp-up.

02



DO WE NEED TO MANUFACTURE IN INDIA?

Not for every participation route.

Foreign firms can export, license technology, work through partners or provide specialist services. An eligible Indian operation becomes relevant when seeking scheme support or delivering recurring local services.

03



WHEN SHOULD SUPPLIER QUALIFICATION BEGIN?

Before equipment selection and pilot production.

Materials, equipment and process technologies can face long qualification cycles. Early engagement helps align specifications, testing requirements and supplier approvals.

04



WHERE SHOULD WE LOCATE?

Follow the customer and service requirement.

Location should reflect anchor customers, response time, specialist logistics, utilities and talent. Gujarat, Karnataka, Tamil Nadu, Assam and Odisha support different parts of the value chain.

05



CAN WE TEST THE MARKET BEFORE ESTABLISHING A COMPANY?

Yes, through a controlled pilot.

A distributor, channel partner or scoped service arrangement can test demand before entity formation. Tax, customs, employment and permanent-establishment implications should be reviewed before activity begins.

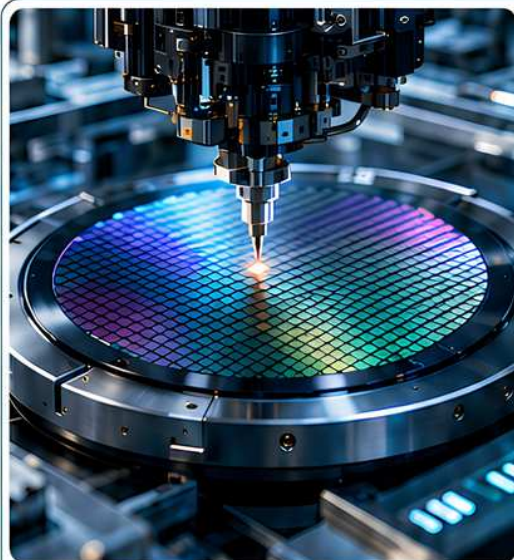
THE DECISION SEQUENCE

CUSTOMER NEED > SERVICE REQUIREMENT > LOCATION > OPERATING MODEL > INCENTIVE FIT

Entry structures should be reviewed for tax, employment, permanent-establishment, FDI and FEMA implications.

INDIA CALENDAR

SEPTEMBER + OCTOBER 2026


17–19 SEPTEMBER

SEMICON INDIA 2026

📍 Yashobhoomi, New Delhi

Silicon to Systems: Building the Ecosystem

India's principal semiconductor platform connecting fabs, equipment, materials, design, packaging, government and investors.



GSRA WILL BE ATTENDING

If you are also attending, we would be pleased to connect and discuss your plans for India.



info@gsra.co.in


16–18 SEPTEMBER

ELECTRONICS + PHOTONICS SHOWS

📍 BIEC, Bengaluru

- electronica India South
- productronica India South
- Laser World of Photonics India

Three co-located exhibitions spanning components, production equipment, automation, lasers, optics and photonics.


7–10 OCTOBER

INDIA MOBILE CONGRESS 2026

📍 Yashobhoomi, New Delhi

India's major telecom and digital-technology platform linking semiconductors with networks, devices, AI infrastructure and emerging technologies.

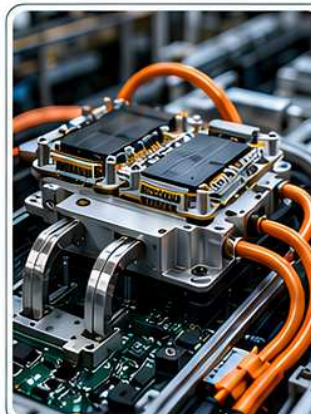

22–24 OCTOBER

INDIA CHEM 2026

📍 NESCO, Mumbai

ADJACENT SUPPLY-CHAIN EVENT

India's flagship chemicals and petrochemicals exhibition, relevant to semiconductor-grade inputs and process infrastructure.


22–24 OCTOBER

BATTERY + CLEAN-ENERGY SHOWS

📍 India Expo Mart, Greater Noida

- The Battery Show India
- Renewable Energy India Expo

Co-located platforms for batteries, EV technology, solar, energy storage and power systems.



PLAN FOR OVERLAPPING DATES

Bengaluru's technology shows and SEMICON India overlap on 17–18 September. India Chem in Mumbai and the battery and clean-energy shows in Greater Noida run simultaneously on 22–24 October. International visitors may need to prioritise or split their teams.

GSRA & ASSOCIATES

Chartered Accountants

Impactful | Reliable | Responsive

READY TO PLAN YOUR INDIA MOVE?

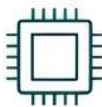
We help international semiconductor businesses enter, establish and grow in India with clarity, compliance and confidence.

From assessing the opportunity to building the right structure, GSRA helps turn market interest into an executable India plan.



MARKET ENTRY

Market sizing, location and entry strategy.



PARTNER SEARCH

Local partners, suppliers and commercial introductions.



SETUP + COMPLIANCE

Entity, tax, payroll and regulatory setup.



ONGOING ADVISORY

Accounting, compliance and long-term support.

LET'S TALK

ATTENDING SEMICON INDIA 2026?

Meet GSRA in New Delhi, 17–19 September.

START A CONVERSATION



info@gsra.co.in



www.gsra.co.in

From market entry and partner search to setup and compliance, GSRA supports your next move in India.