

JYOTHSNA LI-TECH PVT LTD

INFRACELL
ENERGY

Purpose-Built LFP Cell Manufacturing for India's Infrastructure — Backed by Exclusive Know-How Transfer



Exclusive manufacturing know-how transfer. Experienced battery engineering team. Commercial-scale India deployment roadmap.

China supplier ecosystem. Indian factory. Commercial production roadmap.

₹130 Cr

Raising

₹150 Cr

Total Project Cost

₹23 Cr

Promoter Invested

India remains heavily dependent on imported LFP cells. Domestic cell-manufacturing capacity remains limited.

Domestic Manufacturing Gap

ESS, UPS, telecom backup and battery-pack manufacturers remain substantially dependent on imported lithium-ion cells.

India-Specific Application Needs

Customers require application-optimized cells validated for Indian temperature conditions and stationary-storage duty cycles.

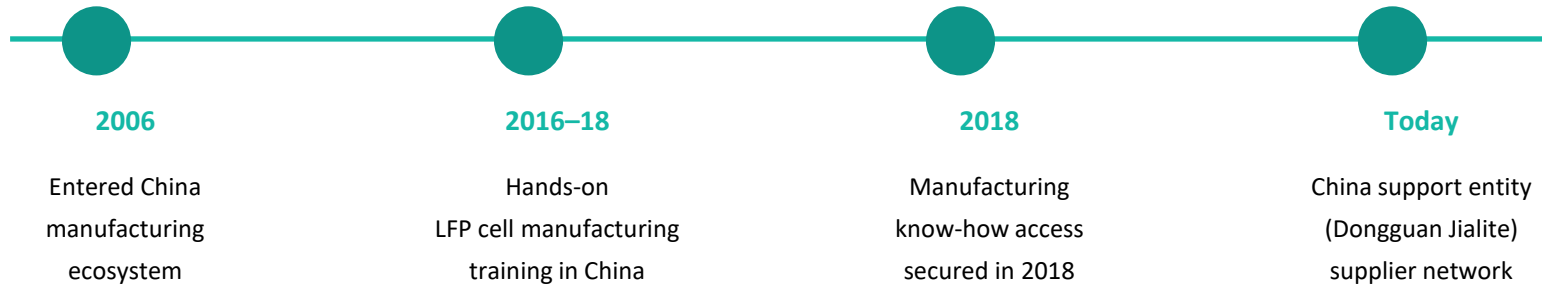
Import Dependency & Supply Volatility

EPC companies and pack OEMs face long lead times, MOQ restrictions, currency exposure and overseas supply-chain risk.

Lead-Acid Replacement Opportunity

Backup infrastructure still relies on lead-acid systems, creating recurring replacement, maintenance and downtime costs.

A manufacturing platform built through multi-year preparation and know-how access.



Transferred Know-How

Manufacturing know-how transfer agreement, process support and supplier access developed through long-term China engagement.

Founder-Controlled China Support

Dongguan Jialite supports raw-material sourcing, equipment procurement, supplier coordination and Chinese technical manpower deployment.

India Application Engineering

India-specific performance remains an engineering design target subject to independent validation, certification and customer qualification.

Leadership & Execution Team

Founder-led industrial execution supported by experienced lithium-ion manufacturing professionals.

Narendra Srirams

Founder & Managing Director

24+ years industrial manufacturing
China manufacturing ecosystem since 2006
Lithium-ion development since 2016

Mr. Wu Yung

Technical Director

Former BYD Engineer
Lithium-ion manufacturing specialist

Mr. Jiang Hu

Factory Director

25+ years lithium-ion manufacturing
experience

Mr. Kris Lingisky

Facilities Manager

Facilities and infrastructure management

Mr. Yixiaoqian

Production Manager

Production operations

Mr. Manjunatha Pappanna

Marketing & Sales Director

Ex-Samsung Korea

Prismatic LFP Cell Platform — Built for Indian Infrastructure

50–380Ah

Capacity Range

140–160 Wh/kg

Energy Density

4,000–6,000 Cycles

Cycle Life

Up to 55°C

Operating Temp

2,000/day

Production Capacity

192 MWh

Annual Capacity

Performance vs Alternatives

	Lead-Acid	Imported LFP	JLT-LFP ✓
Cycle Life	500–800	2,000–3,500	Engineering target
High-Temp (55°C)	Fails	Degrades	Targeted
Local Support	None	None	Full
5-Yr TCO (INR)	Illustrative	Illustrative	Illustrative
Import Risk	None	High	None

First Production Prismatic LFP Cell Specification

3.2V 100Ah LFP

Prismatic cell platform



THERMAL PERFORMANCE

Charge Temperature	0°C to +55°C
Discharge Temperature	-20°C to +60°C
Storage Temperature	-20°C to +45°C
Recommended Operating Temp	+15°C to +35°C

ELECTRICAL SPECIFICATIONS

Cell Model	IFP-100G
Chemistry	LFP (Graphite Anode)
Nominal Voltage	3.2 V
Nominal Capacity	100 Ah
Nominal Energy	320 Wh
Charge Cut-Off Voltage	3.65 V
Discharge Cut-Off Voltage	2.50 V
Recommended Operating Voltage	2.80 – 3.45 V
Max Continuous Charge Current	1C (100 A)
Max Continuous Discharge	1C (100 A)
Peak Discharge Current	2C (10 sec)
Target Internal Resistance	≤0.35 mΩ
Coulombic Efficiency	≥99%

Large and expanding domestic demand. Import substitution creates a strategic manufacturing opportunity.

Entry

Solar ESS & UPS Backup

B2B supply through solar EPC partners.
Partner-led distribution avoids
expensive direct sales. EPC partners
own installation and customer
relationships.

Year 2-3

Telecom Backup

Telecom tower backup is high-volume,
recurring demand with strict reliability
requirements – ideal fit for JLT's
high-cycle, heat-stable cells.

Year 3+

Battery Pack OEMs

Indian pack manufacturers currently
import all cells from China. JLT-Infracell
becomes their domestic, customizable,
warranty-backed cell partner.

Go-To-Market: Factory commissioning -> Engineering samples -> Customer testing -> Factory audit -> Qualification approval -> Supply agreements

Battery-industry qualification cycles typically require engineering samples, validation testing and supplier approval prior to commercial supply agreements.

**Illustrative lifecycle economics indicate potential customer savings.
Actual economics depend on duty cycle, operating environment and system configuration.**

3–5x

Fewer replacements
vs lead-acid

Potentially lower

Lower maintenance
costs

2–3 yrs

Customer payback
period

Illustrative

Lower 5-yr TCO
vs lead-acid

5-Year Total Cost of Ownership — Indicative per System

System	Initial	Replacement	Maintenance	Downtime	5-Yr Total
Lead-Acid	₹80k	₹160k	₹25k	₹20k	₹285k
Cheap Lithium	₹120k	₹60k	₹10k	₹10k	₹200k
JLT-LFP	₹140k	₹0	₹5k	₹3k	₹148k

Illustrative comparison only. Customer economics require validation using actual system size, duty cycle, warranty terms and service model.

Cell sales with qualification-led B2B supply relationships. Profitable from first production run at 28% gross margin.

Illustrative Cost Structure

Selling Price	₹2,800	100%
Raw Materials	50%	50%
Manufacturing	14%	14%
Labour	8%	8%
Gross Profit	28%	8%

01 Direct Cell Sales

EPC companies and battery pack OEMs buy cells in volume. Repeat orders driven by project expansion and replacement demand.

02 Custom Cell Programs

Application-specific variants for telecom, drone, and commercial backup — premium pricing for tailored specs.

03 Long-Term Supply Contracts

Qualified customers may progress to recurring supply agreements after validation and commercial approval.

At full capacity: 2,000 cells/day | 600,000 cells/year | ₹168 Cr annual revenue potential

Integrated manufacturing control - from sourcing through qualification and cell delivery.

01

Raw Material Sourcing

Dongguan Jialite supports raw-material sourcing, equipment procurement, supplier coordination and quality management for the India program.

02

Cell Design & Know-How

Manufacturing know-how transfer, process documentation and technical support underpin the planned India production setup.

03

In-House Dry Room & Testing

Dedicated dry room, formation, aging, grading and testing systems are included. Certification and customer qualification will precede commercial supply.

04

India Application Engineering

India-specific application engineering remains subject to testing, certification and customer qualification.

More deployments → real thermal data → stronger supply contracts → faster path to Phase 2 expansion

Key project-development milestones are in place. The capital raise funds commercial manufacturing deployment.



DPIIT Startup Recognition

Startup India recognized — institutional credibility for banking, licensing and government partnerships.



Karnataka Project Support

State government approval for lithium-ion cell manufacturing project in Karnataka.



KIADB Land Allocated

Sira Industrial Area, Tumkur District. Land allocation process progressing under the approved project framework.



Know-How Transfer Signed

Exclusive manufacturing know-how transfer agreement executed in 2018, supported by hands-on training, process documentation and ongoing technical support.



₹23 Cr Historical Development

Historical promoter expenditure since 2016 toward technology, training, approvals and project preparation.



Customer Qualification Pathway

Target customer segments identified. Engineering samples and validation lots will support qualification after factory commissioning.

India remains import dependent for LFP cells. Infracell is focused on domestic ESS and backup applications.

JLT-LFP

- ✓ Planned India manufacturing
- ✓ Transferred manufacturing know-how
- ✓ Lifecycle engineering target
- ✓ 45–55°C optimized
- ✓ Full local support & warranty
- ✓ Reduced import dependence after ramp-up

Imported LFP (China-made)

- Generic mass-produced
- Heat degradation risk
- 2,000–3,500 cycles
- No local support
- Import & tariff exposure
- MOQ restrictions

Indian Pack Integrators

- Cells still imported from China
- No cell-level control
- Performance cell-dependent
- Medium customization
- Same import risk
- No warranty on cells

Lead-Acid

- Legacy chemistry
- Severe heat degradation
- 500–800 cycles only
- High maintenance
- 18–24 month replacement
- High lifetime cost

Application-focused differentiation through local manufacturing, engineering support, supply security and customer qualification

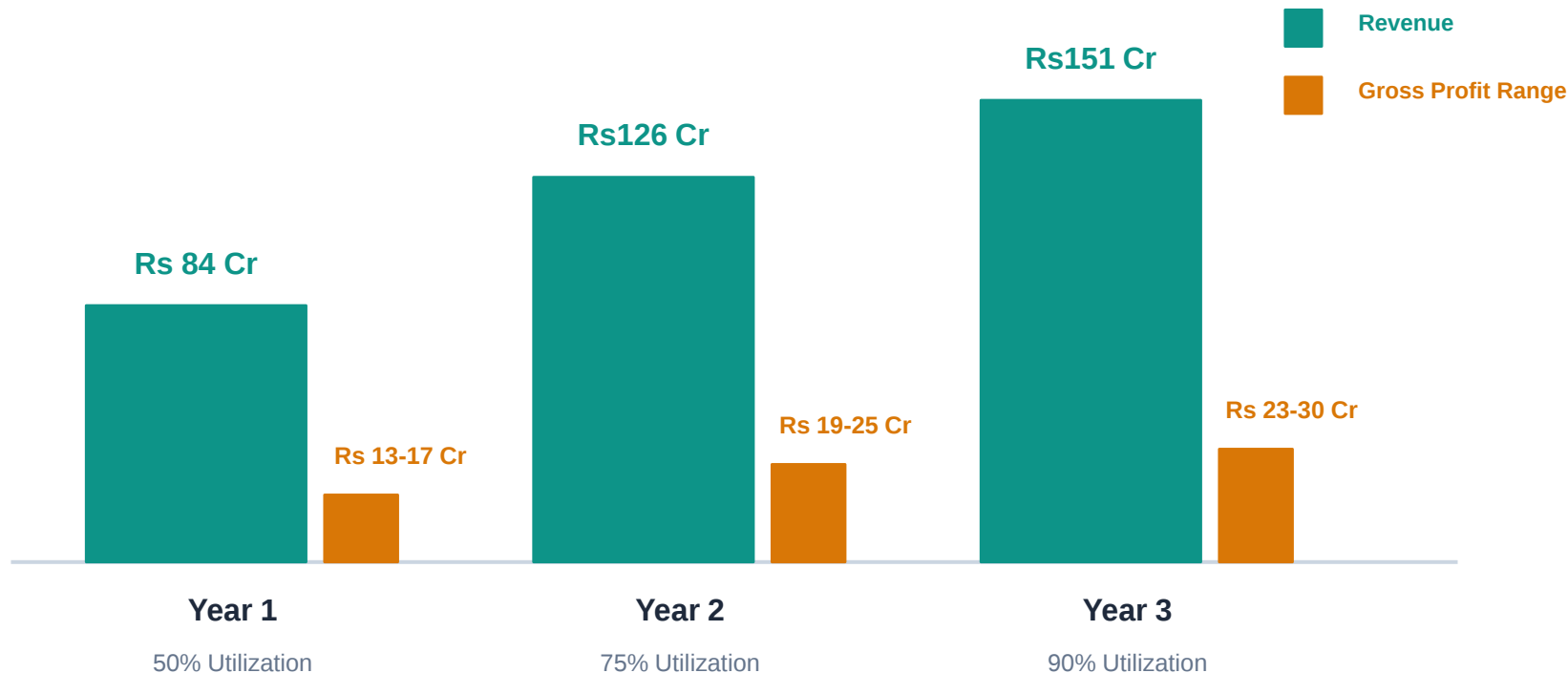
₹150 Cr Total Project Cost | ₹130 Cr Capital Requirement

₹23 Cr historical promoter development expenditure has already been incurred and is not part of the current capital requirement.

40%	₹60 Cr	Machinery & Production Line	Electrode processing, cell assembly and production equipment sized for 2,000 cells/day
10%	₹15 Cr	Factory / Civil / PEB	Factory structure, civil works, pre-engineered building
10%	₹15 Cr	Dry Room / HVAC	Humidity-controlled manufacturing environment — critical for LFP quality
10%	₹15 Cr	Formation & Testing	IS/IEC certification equipment, cycle testing, QC systems
7.3%	₹11 Cr	Utilities / NMP / Compliance	Power, utilities, NMP recovery, ETP, fire safety and environmental compliance
14.7%	₹22 Cr	Raw Materials / Working Capital	Initial inventory for first production runs + working capital buffer
8%	₹12 Cr	Commissioning / Contingency / Pre-op	Chinese engineer deployment, commissioning, pre-operative expenses

Three-Year Utilization Ramp

Cell price: Rs 2,800 | Annual capacity: 600,000 cells | Full-capacity revenue: Rs 168 Cr | Gross margin: 28%



Payback Period & IRR Analysis

~7–8 Yrs

Investment
Payback Period

14–16%

Projected IRR
(10-Year)

₹47 Cr

Gross Profit at
Full Capacity

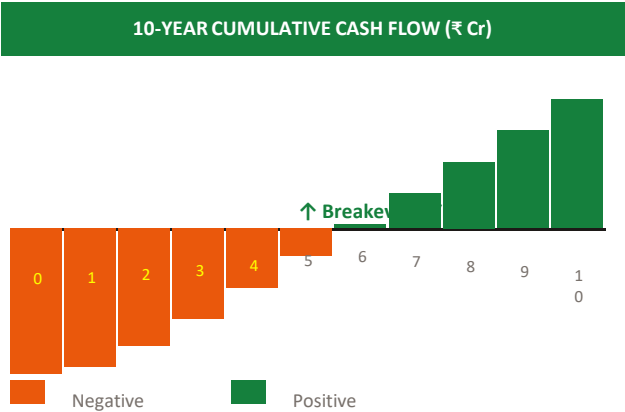
₹168 Cr

Full Capacity
Annual Revenue

	Yr 1 (50%)	Yr 2 (75%)	Yr 3 (90%)	Yr 4 (100%)
Revenue (₹ Cr)	84	126	151	168
Gross Profit	23.5	35.3	42.3	47.0
Fixed Opex	17	17	18	19
EBITDA	6.5	18.3	24.3	28.0
Depreciation	8.7	8.7	8.7	8.7
PBT	-2.2	9.6	15.6	19.3

Key Assumptions

Depreciation: ₹130 Cr over 15 yrs = ₹8.67 Cr/yr · Staff avg: ₹4 Cr/yr · Power & utilities: ₹3 Cr/yr · Admin & insurance: ₹2 Cr/yr · No debt assumed · Pre-tax



IRR Sensitivity

- Base case (28% GM, 90% util Yr3): 14–16%
- Upside (+10% price, full util Yr2): 18–22%



Narendra Srirams

Founder & Managing Director
Jyothsna Li-Tech Pvt Ltd

Founder-controlled Dongguan Jialite supports sourcing,
equipment, supplier coordination and technical
manpower deployment

24+ years of industrial manufacturing experience. Founder-led technology and project development since 2016.

2006

Entered China manufacturing ecosystem — built relationships across LFP supply chain

2016–18

Hands-on lithium-ion cell manufacturing training and process exposure in China

2018

Exclusive manufacturing know-how transfer agreement executed in 2018, supported by hands-on training, process documentation and ongoing technical support.

2018–Now

₹23 Cr historical promoter development expenditure across technology, training, approvals and project preparation

Now

Founder-controlled Dongguan Jialite supports sourcing, equipment, supplier coordination and technical manpower deployment

Raising ₹130 Crore

For an Indian infrastructure-focused LFP cell manufacturing platform

- ✓ Exclusive manufacturing know-how transfer agreement executed in 2018, supported by hands-on training, process documentation and ongoing technical support.
- ✓ India's import dependence creates a strategic domestic manufacturing opportunity
- ✓ ₹23 Cr historical promoter development expenditure since 2016
- ✓ DPIIT recognition, Karnataka project support and KIADB land process established
- ✓ Experienced technical team and China supplier ecosystem identified for deployment
- ✓ ₹168 Cr full-capacity annual revenue potential with 28% gross margin (₹784 per cell)
- ✓ 12-month roadmap from funding closure to commercial production and qualification

**₹130 Crore Capital Requirement | ₹150 Crore Project Cost | Karnataka,
India**