

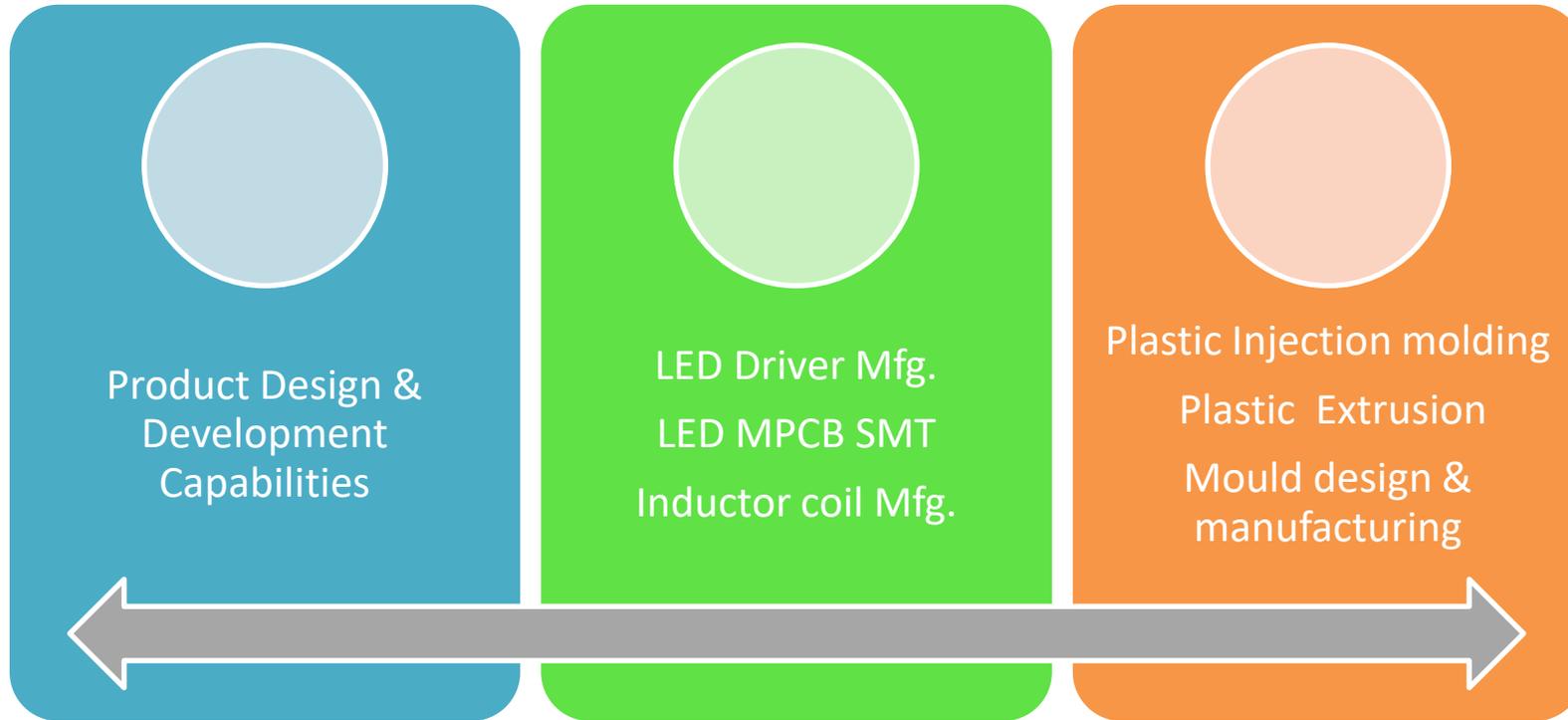
# Lighting Innovations Illuminating the Future

Radhika Opto Electronics Limited has roots dating back almost 4 decades and has come a long way since its humble beginnings. The company started off making conventional lighting fixtures for Crompton Greaves and steadily grew its operations till 2012 where it reached an inflection point with the advent of commercialized LED lights after which the company grew at a rapid pace. We had the foresight to see how disruptive this new technology would be and we decided on capitalizing on this opportunity. Driven by our visionary approach, relentless hard work, exceptional teamwork and uncompromising ethical standards, we constantly added new and innovative products to our portfolio and expanded our customer base to reach all major LED brands of India.

02 April 2024



# Infrastructure Overview



# Our Infrastructure

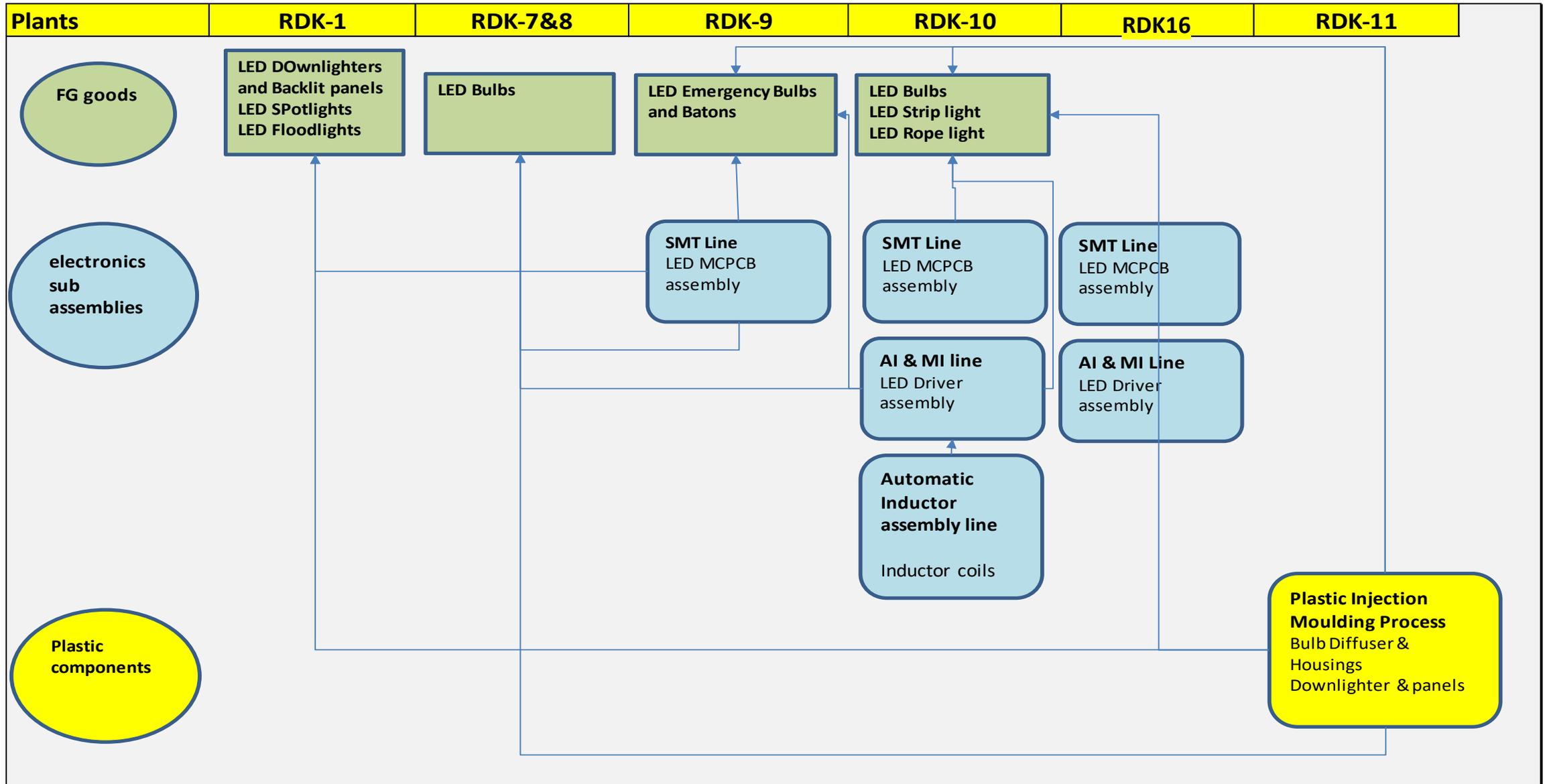
Our manufacturing operations are spread across six strategically located plants in Daman (a Union Territory of Daman Dadra Nagar Haveli and Diu) and two facilities in the adjoining Valsad District of Gujarat. These modern and state-of-the-art facilities are equipped with high-quality machinery and assembly lines that allow us to meet the stringent quality requirements of our customers in a timely manner.



# Infrastructure Overview

Plant	LED Bulbs Assembly and Packing	Emergency Bulbs & baton Assembly and packing	LED Driver AI (SMT) + Driver MI Line	LED MCB SMT line	Inductor coil Mfg.	Powder coating line	LED backlit panels Assembly and packing	LED down lighters assembly and packing	Plastic Injection molding + Mould Mfg.	Sheet metal fabrication	Tool room
RDK-1						●	●	●			
RDK-16			●								
RDK-7&8	●										
RDK-9		●		●							
RDK-10			●	●	●						
RDK-11									●	●	●

# Manufacturing flow chart



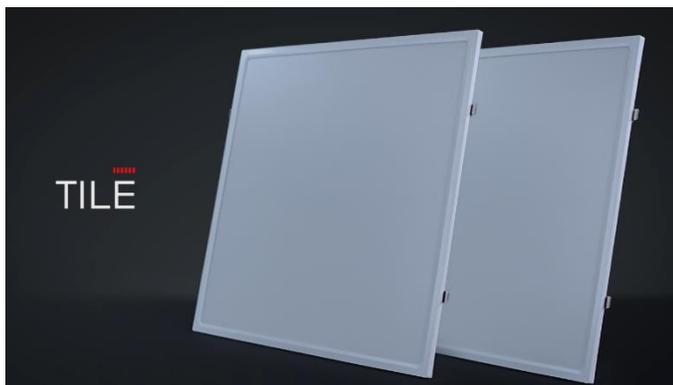
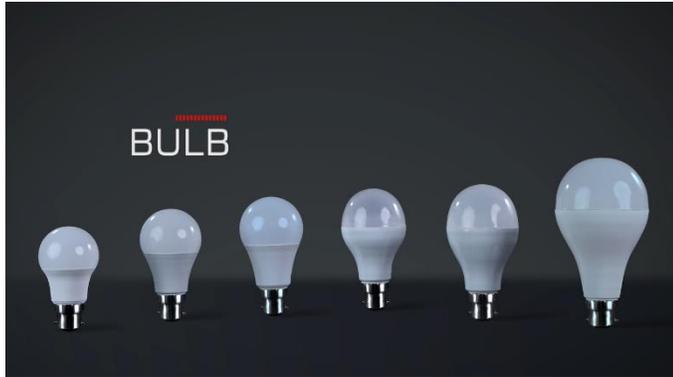


# Product Portfolio



# Our Core Products

At our company, we strive to offer the highest quality lighting solutions that are energy-efficient, eco-friendly, and durable.





# Existing Product Portfolio-Complete

ID	PRODUCT TYPE	SUB TYPE	WATTAGE
1	BULB	WITH DRIVER	3W,5W,7W,9W,12W,14W,15W,18W,20W,23W,30W,40W,50W,60W,70W
		DRIVER ON BOARD	5W,7W,9W,12W
		FLICKERFREE	9W
		3CCT	7W,9W
		RED,BLUE,PINK	7W,9W
		DECO BULB	0.5W
2	BATTEN	PC BATTEN 1FEET	5W
		PC BATTEN 2FEET	10W,12W
		PC BATTEN 4FEET	18W,20W,22W,24W,25W
		AL BATTEN 2FEET	20W
		AL BATTEN 4FEET	20W,22W,24W,25W,28W,30W,32W,36W,40W
3	PANEL LIGHT	RDL	5W,6W,8W,10W,12W,15W,18W,20W,22W
		EDGELITE	3W,6W,12W,15W,18W
		RIMLESS	10W,15W,20W
4	DOWNLIGHT	LOTUS DOWNLIGHT	3W
		ZANIA DOWNLIGHT	5W,7W
		JASMIN DOWNLIGHT	5W
		TULIP DOWNLIGHT-SLIM DOB	5W
		LILLY DOWNLIGHT	5W,7W,9W
5	SPOTLIGHT		3W,6W,8W,9W,12W
6	STRIKER		3W,6W
7	FLOOD LIGHT		30W,50W,100W,120W,200W

## Product being manufactured at the unit is as follows RADHIKA OPTO ELECTRONICS LIMITED (Unit 10) under PLI Scheme

- LED Drivers



- LED Engines



- Wire Wound Inductors



## Product being manufactured at the unit is as follows RADHIKA OPTO ELECTRONICS LIMITED (Unit 11) under PLI Scheme

- Mechanicals- Housing



- Diffusers



- Heat Sinks



# Key Manufacturing Process – SMT – LED Engine (ROEPL-10) Green field

SMT (Surface Mounting Technology) Surface-Mount Technology, or SMT, is a method for attaching electrical components directly onto the surface of a **printed circuit board**, or a PCB. This process allows for automated production to complete more of the required assembly to create a working board. It lowers the cost of production and increases the maximum output by eliminating bottlenecks on the assembly line. It uses a special glue to stick parts to PCB and then put thru a reflow oven to fix them permanently.

Assembled LED PCB

FEED to FINAL LED LUMINAIRE ASSEMBLY LINE



SMT Machines



Reflow Oven

Bare PCB



Feeding SMT parts – LED, IC etc.



Finished LED PCBA

# Key Manufacturing Process – AI/MI/WSM for LED Driver (ROEPL-10)

## Green field

**AI : Automatic Insertion Process** for through-hole technology refers to the mounting electronic components, which involves the use of leads on the components that are inserted into holes drilled in printed circuit board (PCB) and soldered to pads on the opposite side by the use of automatic insertion mount machines.

PCB sub assy with thru holes auto inserted parts

**MI: Manual insertion of parts** like cables, resistors etc. – PCB with all parts inserted either thru AI or MI

**WSM- Wave soldering Machine-** It is a machine which automatically solders the thru hole parts inserted in the PCB thru AI/MI at large speeds and volumes



bare PCB



AI: thru hole parts feeding

MI: thru hole parts

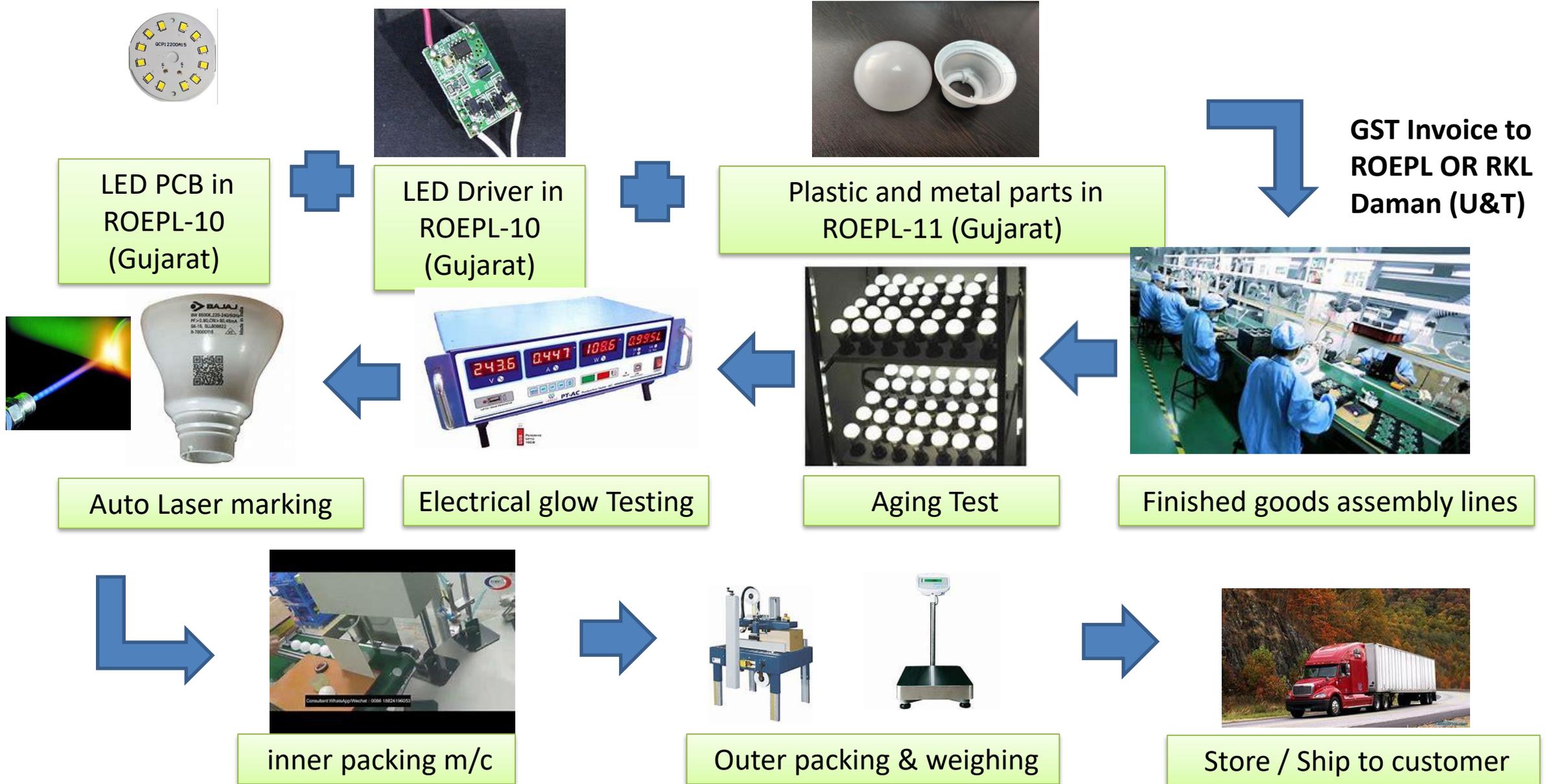


WSM- Wave soldering machine



Finished LED Driver

# Key Manufacturing Process – Finish Assembly, Aging ,testing ,Laser marking and packing.



# Contact Us

## Let's Get Started

If you have any queries or lighting requirements, please feel free to contact us.



### Address

223 Adhyaru Industrial Estate,  
Sunmill Compound, Lower Parel,  
400013 Mumbai, India



### Phone Number

022 69369900  
022 67124461



### Email

info@radhikaled.com

