



LitAir Solutions LLP

Smart Solutions for Products & Processes



Sachinkumar Shah – Founder Partner



Rohan Nadkarni – Founder Partner

About Us

LitAir Solution LLP is a start up Based at Baroda, GJ & Ponda, Goa. We are registered as Start up Reg no: **DIPP59721** with Startup India and Incubated by iHub & STBI under Govt. of Gujarat. Recently we have started manufacturing of BLDC Controllers at Nalagarh, HP.

- LitAir was conceived with the below Objectives.
 - To initiate BLDC Electronic Manufacturing in India.
 - To Work on Energy Efficient Product & Make them Smart.
 - Focus on Two Basic aspects of Life- **Air & Light**.
- Along with **Electronic Manufacturing** we are also Consulting in Supply Chain, Operational efficiency, Sourcing, Quality Improvement Projects with small MSMEs Who are struggling to meet the quality and cost requirements of Big OEMs.
- Our Aspiration is to be a preferred Company for Electronic Manufacturing in India specially for **BLDC** applications and **Lighting** along with **Smart Integration**.





The Problem

- ❖ BLDC Technology has been available since years; however, its end usage has been very limited in Consumer Durable Industry in India.
 - ❖ BLDC Technology saves 50-60% energy compared to existing Induction motor technology. There is a huge potential to save energy in our country with usage of same
 - ❖ Due to lack of value chain presence in India, people use to buy finish products from other countries
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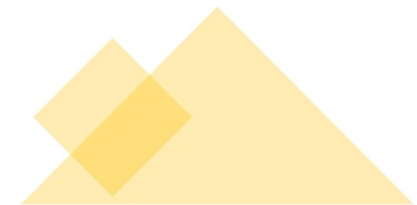




The Solution

- ❖ Provide Design, Development & Supply Chain support to Industry for localization of BLDC Technology
- ❖ Localization of BLDC Electronics Controller Manufacturing
- ❖ Localization of Permanent Magnet Manufacturing

Committed to solve industry problems around Consumer Durable related to energy saving products





The Market Opportunity

- Target Industry / Customers :Consumer Durable
 - ❖ Ceiling Fan / TPW Fan
 - ❖ Mixer Grinder
 - ❖ AC
 - ❖ Washing Machine
 - ❖ Domestic Pumps
 - ❖ Electrical Vehicle Motor Drive
 - Ceiling Fan Market Size in India
 - ❖ Total Market Size – 8600 Cr INR
 - ❖ BLDC Market Size – 4 ~ 5%, Expected to grow at 20% in FY22-23 due to star rating scheme of BEE
 - Global BLDC Market Trends
 - ❖ 10.0 Billion USD – 2022 - Expected
 - ❖ 15.2 Billion USD – 2025 - Projected
- 




Source of data : IFMA



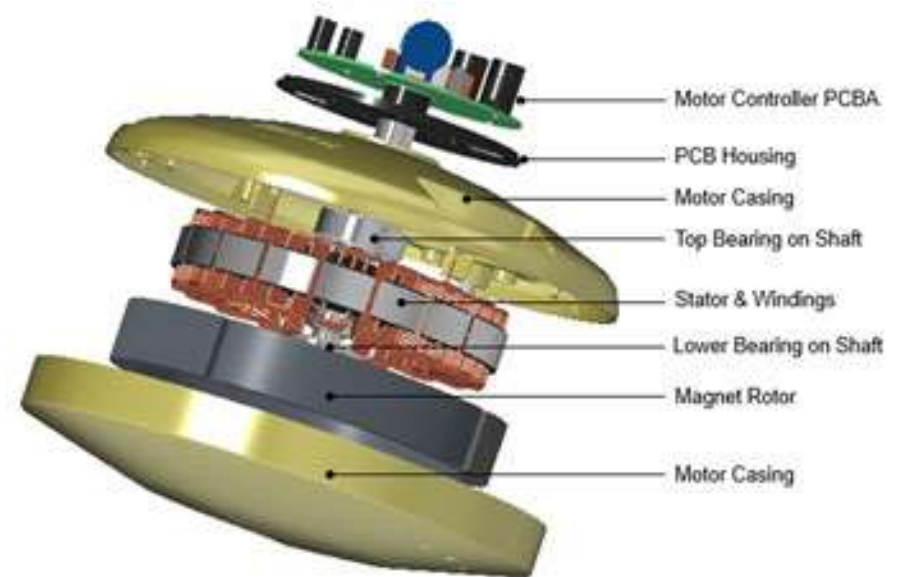
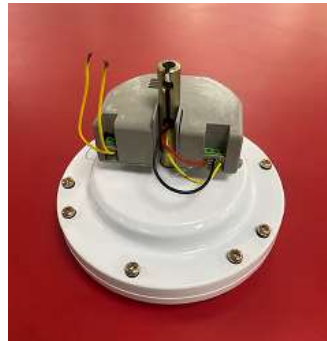
The Product

Product line up:

- ❖ Construction / Architecture
 - ❖ Functionality / Features
 - ❖ Advantages
- 



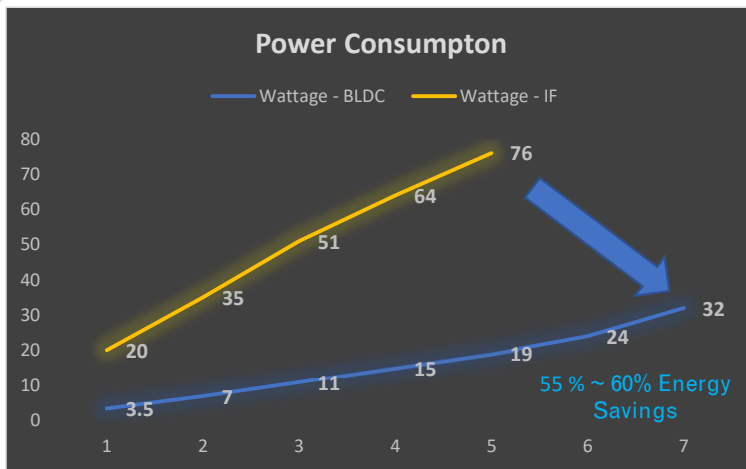
Construction of BLDC Fan Motor



BLDC CEILING FAN MOTOR



Salient Features and Power Consumption Details - BLDC



Speed	RPM	Wattage - BLDC	RPM	Wattage - IF
1	120	3.5	140	20
2	160	7	190	35
3	202	11	250	51
4	245	15	310	64
5	287	19	370	76
6	329	24		
7	372	32		

Salient Features of BLDC Fan:

- ❖ Low Power Consumption compared to Conventional Ceiling Fan
- ❖ Longer Run on Inverter
- ❖ Super Efficient Brushless Direct Current Motor with Smart Technology
- ❖ Uniform performance on wide Range of Voltage 100V to 300V
- ❖ Silent Operation
- ❖ Input Surge Protection up to 4.0 KV
- ❖ Power Factor > 0.9 and THD – 10%

Induction Fan

BLDC Fan



Energy Saving Calculation – BLDC Fan v/s Induction Fan

Fan Type	Wattage	Electricity Consumption			Yearly Cost @ 7.6 Rs/ Unit
		Per Hour Consumption	Per Day @ 14 Hrs	Per Year @ 305 Days	
BLDC	32	0.032	0.448	136.64	1038
Regular	76	0.076	1.064	324.52	2466
				Savings / Fan / Year	1428

One BLDC Fan Can help to save 1428 Rs per Year

Payback Calculation:

Cost of One BLDC Ceiling Fan – Approx 2900 Rs

Simple Payback in Years – $2900 / 1428 = 2 \text{ years}$



The Team

Sachin
Rohan
Dayanand
Hrishikesh
Yashpal
Guru

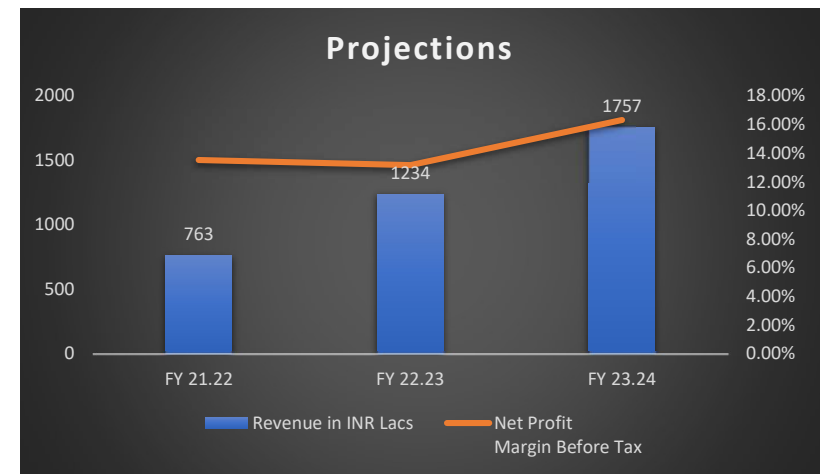
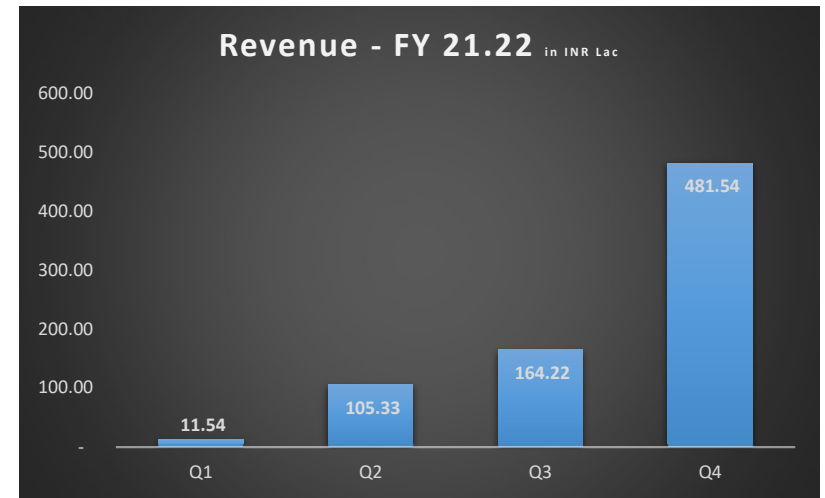
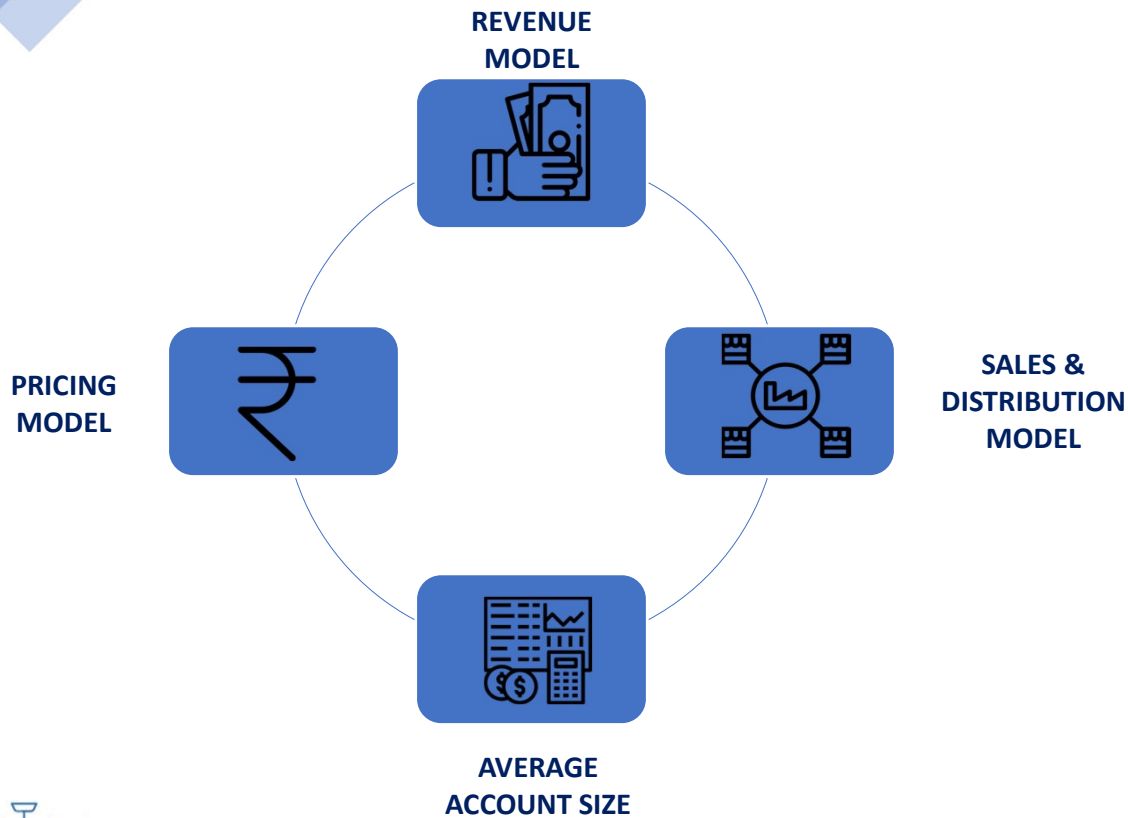


Dedicated Associates

- ❖ Tecote – Design House
- ❖ Dewcon – EMS Partner



Business Model



Expectations

- Mentorship in area of Electronics Startup for future growth
- Fund Management for Working Capital Management
- IPR Feasibility check for Consumer Durable Electronics





Our Coordinates



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Thank You
and

Ready for New Opportunities



LitAir Solutions LLP

