



# HOSHANG PATEL TECH CENTRE



# ANNUAL REPORT

**2022-2023**

## Index

Introduction & Background

Ownership & Structure

Facilities and production capacity

Service area

Commencement of activities

Certifications

Students projects and visits by schools and Polytechnique

Development of tools for use in projects

Solar innovations

Solar power run Centre

Proposed Project Implementation for 2022 2023

Proposed Technologies under development

Collaborations in progress

Technical mentors

Linkages for student projects and internships

Team members

Trained local manpower

Summary financials

Certifications

Photos

## Introduction & Background

Hoshang Patel Tech Centre is a not-for-profit Company in India set up to help develop, test and disseminate renewable energy technologies. It is supported by the Gharda Foundation, Mumbai, a leading foundation in India committed to technologies in ecology and renewable energy, health, and education. The Centre has the latest facilities for the production of solar panels, assembly of lithium ferro phosphate (LiFePo<sub>4</sub>) batteries, plastics design, 3d printing, injection moulding, portable solar lights, and low-cost solar streetlights, and other fabrication works. It runs production using these facilities and generates revenues while employing student interns for their knowledge enhancement along with hands-on skill development.

It has acquired the products, patents, and resources of the erstwhile Thrive Solar Energy Private Ltd, Hyderabad which has 15 years of experience in LED lighting and solar panel production among others. Thrive has won many awards in the renewable energy space including the Lighting Africa Award. It has made the world's lowest-cost portable lights, starting from \$2 and has populated 13 million lights across India and Africa.



## Ownership & Structure

Hoshang Patel Tech Centre (HPTC) is a Section 8 not-for-profit Company formed for the exclusive purpose of developing, demonstrating and operating technology-based enterprises in the campus of Gharda Institute of Technology, Lavel in Ratnagiri District of coastal Maharashtra State.

At present the company has 2 Directors on its Board and 3 Investors:

**Mrs. Almitra H. Patel**, BS and MS MIT (1958, 1959) was a Member of, the Supreme Court Committee for Solid Waste Management and is a National Expert with the Govt of India's Swachh Bharat Mission.

**Er. Porus P Shroff** is an entrepreneur technocrat and owner of Equipment Fabricators, an ISO 9001 certified Specialty Skid and Process Systems solution company based out of Bengaluru, Karnataka.

**Ranga Bodavala** MBA, PhD is a Takemi Fellow in International Health, Harvard School of Public Health. He has 10 years of experience as a development specialist in India and Africa and 15 years of experience as an entrepreneur and renewable energy expert.





The Centre's main facilities and production unit are located in Gharda Institute of Technology, Lavel in a two-level 7,500 Sft. building.

The core technical staff of HPTC can help at around 4,200 man-days of training for the GIT students, 280 hrs. for the visiting students (in groups of 20 to 40 each), 20 to 25 long-term projects and 50 short-term projects.

It has a range of production machinery and jigs in solar panel production (all sizes), PCB design and population, lithium battery assembly, plastic injection molding among others.



## Its present facilities include:

- 1, 5 MW solar panel making unit with all production and testing facilities
- 2, A plastic injection molding facility for producing 100,000 units per Month
- Solar street light assembly to produce 5000 solar streetlights per annum
- Solar portable lights production facility for producing upto 25,000 lights per annum.
- Solar pumps production (mostly installation as pump is procured) capacity of 50 per annum.

## Service area

The Lote Industrial Estate in Ratnagiri District of Maharashtra in the Konkan region is host to many chemical companies who need to fulfil their environmental obligations through renewable energy initiatives and waste treatment plants among others.

Being located in the Western Ghats, the local technical institutes lack access to a large city, demonstrated technology, incubation facilities and even internship programs which they have to seek in faraway Mumbai or Pune at present.

So HPTC will offer similar technology space to local students, faculty and businesses to develop concepts into ideas, products and working units.

By operating production facilities for solar panels, accessories, plastics, electronics assembly units and more, it will offer internship, incubation, and entrepreneurship support facilities.



There are nearly 10 engineering colleges and institutes in the district without access to any advanced technology demonstration and production units. Around 10,000 college students of all semesters and their 700 to 800 faculty members are the potential primary clients for HPTC. The Government of Maharashtra and its various bodies are engaged in skill development and entrepreneurship development activities.

There is no organization offering similar facilities in the district within a 100 km distance from us. Pune and Mumbai have institutions offering incubation facilities as part of their engineering recognition setup, but they do not themselves do any pilot or regular production.

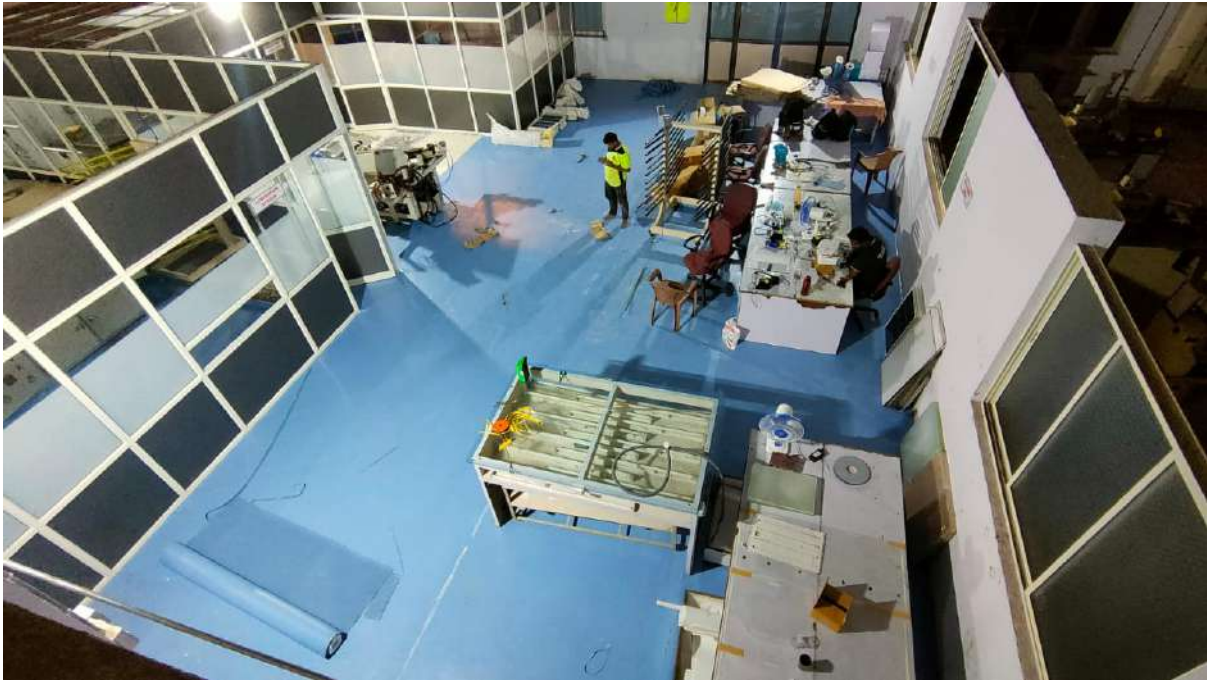
## **Commencement of the Centre's activities at GIT**

HPTC was incorporated on 22nd March 2021 with Registration No. U85300KA2021NPL145668. Modification of premises at GIT and shipment of solar plant, machinery, furniture and stocks from Hyderabad to Lavel was completed by July 2021 despite Covid travel restrictions and very heavy monsoon rains from July to October.

Structural constraints and access ramp construction meant some heavy equipment had to be stored outdoors. Rains and even indoor humidity damaged equipment electronics. One laser machine became totally nonfunctional and two small machines needed repairs and replacement of PCBs.

Power connection in August enabled commencement of operations in September 2021, using locally trained 4 women and 2 local technicians. Additionally there is a senior manager, Electronics and programming expert/trainer, machine operator, led lights technician and installer (these staff on deputation from Hyderabad)

The photos below give an idea of the setup.



# Infrastructure & Certifications



HPTC made major improvements to the bare GIT shed initially handed over. It retrofitted windows and access doors added a loading ramp and first floor with staircase, partition walls for rooms and machines, false ceilings and vinyl flooring, custom lighting and an independent power connection. Bathrooms and plumbing were installed, as well as an intercom system, CCTV and internet provision.

The first floor has provision for 20 workstations, 2 machine rooms, LED assembly lab with 25-seater worktables and suitable equipment for battery assembly, LED lights assembly, PCB making, label printing and others

It also has provision for a gaming centre with gaming hardware, software and a 20 feet screen projector system. Hardware for a flight simulation centre will be set up next year.

All this was achieved in record time despite the scarce availability of GIT ?? masons, plumbers, electricians, welders and mechanics because of Covid. The real hardship faced was due to heavy rains and roof leakages resulting in moisture formation in some hardware that required spares and replacements.

Yet by February 2022 HPTC received both ISO-2001:2015 Certification for Quality Management Systems and a QVA Certificate of Good Manufacturing Practices. It also obtained an SME – GOI Udayam Registration Certificate.

# Production Capacity

The Centre has a mechanized production capacity of 5mw large solar panel production a year in 2 shifts. Even with limited staff it can produce daily 20 large and 100 small solar panels. Currently production is sub-optimal as firm orders for net-metering power projects like 100 kw for the Bai Ratanbai Gharda Hospital will be received in the next financial year.

It also has both solar and non-solar LED assembly systems consisting of LiFePO4 batteries assembly, electronics PCB population, mechanical assembly and testing and finalization of the product process.

- 1, 5 MW solar panel making unit with all production and testing facilities
- 2, A plastic injection molding facility for producing 100,000 units per Month
- Solar street light assembly to produce 5000 solar street lights per annum
- Solar portable lights production facility for producing upto 25,000 lights per annum.

Solar pumps production (mostly installation as pump is procured) capacity of 50 per annum.



Meanwhile, 180 solar street lights of 40, 80 and 100 watts capacity were produced and installed: 65 in the GIT campus and 115 in nearby villages. 18 solar street lights were sent to an NGO for a nomad settlement in Gujarat.





The Centre continuously operates two production lines for electronics assembly – PCB populating, fixing, testing and others. Random production of PCBs, small pocket lights and study lights is being done regularly by the Centre’s own staff, GIT students and by groups of visiting students from nearby polytechnics who enjoy this experience immensely.

## Student Projects, visits & Internships

During Covid restrictions in Ratnagiri district and Maharashtra State, the college hostels were converted to Covid wards for housing local Covid patients. Hence GIT students could not visit or stay even for short term projects until physical classes opened fully in early March 2022. Since then, HPTC is focusing its efforts on 3rd and 4th year students from the Departments of Electronics, IT, and Mechanical Engineering. Students are encouraged to work or associate with the centre during semester breaks, on college holidays and weekends, and after office hours on normal days.



From January 2022 to March 31st, 2022, around 28 GIT students have attended up to month-long training programs, project activities and association with the Centre.



Three groups of students were supported with project material (batteries, solar panels and others) for their projects that require them.



The Centre has received visitors from several high schools, polytechnics, and degree colleges, with 21 such visits till end March 2022. These students are encouraged to observe, participate and ask questions on solar and related renewable energy subjects. Generally, students in a group of 30 to 40 arrive with their teachers and spend 90 minutes to 2 hrs. in the Centre, posing useful and valid questions and cheerfully assembling a solar lamp in half an hour (in groups). Students are accompanied by teachers and principals who equally enjoy the Centre's industrial ambience.



## Development of tools for use in projects

The Centre's mechanical division has designed (along with senior students) and assembled several tools needed for project execution, like -

1. Folding ladders,
2. Indoor trolleys for carrying material
3. Trolleys for carrying material outside
4. Hand tools for cleaning solar panels
5. Modular angular towers to fix flood lights in parks and sports areas.



## Solar Innovations

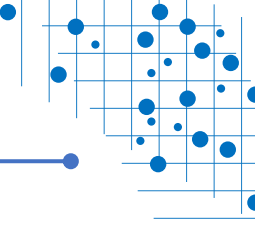
The Centre has planned, produced and replaced around 45 old failed solar streetlights in the GIT campus with new, brighter, smart movement-sensor lights.

Most of the college campus is wooded with trees of 30 to 35 canopy height and normally it is impossible to position a solar streetlight under tall trees.

The Centre, after a couple of months of improvements, has developed an electrical circuit to boost the solar-panel line voltage appropriately, fixed solar panels on top of nearby buildings and connected them to a light unit on the campus road. In this way the solar panel gets full sunlight, and the streetlight continues to work even under heavy shade. This innovation is the first of its kind in the country to our knowledge and will be shared in the MNRE magazine soon.



The Centre has also fixed solar yard lights on the roofs of buildings so as to give ambient lighting over a large area. It has deployed 60-degree and 30-degree focused LEDs for the first time in India (where generally 120-degree LEDs are used). This way, though the light is at a height of 45 feet, the focused light illumination matches that of a normal light fixed at 18 feet height.



# Solar panels on the roof of the Centre



The Centre has installed 10kw of solar panels on the roof of its workshop, which along with two 4kw solar inverters with back-up batteries are able to power all the machines, tools, lights and others in its own workshop and office area, except the main laminator machine which consumes high power.

## Making the Centre fully solar-powered

We have sufficient large inverters of 50kw to handle and supply power to every machine and additionally available 10kw solar panels can be installed on the roof on demand. But this will require an additional Rs 5 lakhs worth of battery back-up support to power the large laminator and any other machine in the workshop to make the Centre fully off-grid. We will deploy lithium iron phosphate batteries which last 10 to 15 years under optimal use conditions.

# Proposed Project Implementation for 2022 2023

**1. Streetlights:** regular production and installation of solar streetlights of various capacities will continue and aiming to do around 500 of them.

**2. Classroom Lights:** At present, GIT uses normal florescent tube lights which are energy inefficient and deliver bluish-tinged light. We can install photo-sensitive LED-based lighting to reduce power consumption to one-fourth of present levels. We are developing an intelligent circuit to maintain consistent brightness (lux) levels at student desks, based on the available day light that enters classrooms and professors' rooms. That way the lights are dynamically adjusted by electronic circuitry to maintain the exact luminosity required. This project to maintain constant ambient lighting in workspaces will be the first of its kind in India and attract the attention of industry leaders for optimizing work comfort and productivity.

**3. Corridor Lighting:** GIT has vast lengths of corridors which are lighted up in the evenings using grid power to CFLs or sometimes LED bulbs. These need to be routinely switched on in the evenings and switched off in the mornings by security guards. We are experimenting with our low-cost street-light circuit and a suitable lighting dome in the corridor. This light will be properly connected with 10 / 20-watt solar rooftop panel to charge the corridor light.

**4. Gharda Hospital –** A 100 KW solar project has received in-principle approval and the process started for completion by June-July 2022.

**5. GIT – 200 KW on-grid project:** The energy consumption data of various GIT Departments / divisions / rooms or functions is being collected and analyzed. Various strategies for meeting those requirements, upgrading to LEDs, solar pumps and energy efficient ACs is being worked out.

# Proposed Technologies under development

- 1. Low-cost solar streetlights:** The present cost of solar streetlights is upward of Rs. 10000. There is always a need and demand for low-cost streetlights equivalent to a 40 watt tube light (8 watt LED light delivering 1000 lumens light) that costs less than Rs. 5000.
- 2. Photo-sensitive classroom lights:** explained above.

# Collaborations in progress

- 1. Indian Association for Technical Education:** This society is the apex body meant to provide accreditation and standardization services to engineering, polytechnic and other institutes in the country. Several rounds of discussions and site visits were made with the office bearers of the Association. An ideal energy generation / conservation / optimal utilization plan is being developed. After successfully implementing some or all of those components in GIT, a big campaign, website and app will be launched to popularize solar renewable energy practices for quick adoption by technical institutes across the country. **HPTC will hope to get technical fees, limited orders and nationwide publicity and credit for this work.**
- 2. Concept documents for sustainable technical education projects:**
  - A. Solar failed/defunct streetlights – a great concept of recycling
  - B. GOI science cluster project. (work in process)

# Technical Mentors

Hoshang Patel Tech Centre identified, made presentations to and got the consent of some technical entrepreneurs to support it as mentors, advisors or visiting professors.

All of them agreed to visit the Hoshang Centre for 2 to 3 days every quarter. During their visit, interaction meetings, short seminars and other events can be organised by the Centre in collaboration with concerned GIT faculty members.

### Some Mentors:

**Ankur Bal** working with ST micro controller (world's largest chip maker) is a leading scientist who personally holds around 60 patents in chip design.

**Hrishikesh Borude** is a product of the National Institute of Design and a successful entrepreneur in the design space. He is located in Pune and specializes in medical equipment design and prototype production.

**Ashok Mittal** is a German educated and trained engineer and metallurgist.

**Satish Meriga** is a Pune-based entrepreneur in automobile design and development with 25 years of experience.

**Sirish Aphale** is a solar energy expert with experience in energy conservation.

**Ram Reddy, Hyderabad** is an expert in machine learning and artificial intelligence.



## Linkages for student projects and internships

The Centre has developed technical collaborations with 8 large enterprises employing many engineers and has sophisticated work facilities led by technical entrepreneurs. 4 are based in Pune, 2 in Hyderabad, 1 in Mumbai and 1 in Noida.



## Summary financials

<b>HOSHANG PATEL TECH CENTRE 2021-22</b> GHARDA INSTITUTE OF TECHNOLOGY CAMPAUS LEVEL, KHAD TALUK, RATNAGIRI MAHARASHTRA 415708 CIN: 27AAFCH7162N1Z2			
<b>Balance Sheet</b> 1-Apr-21 to 31-Mar-22			
<b>Liabilities</b>	as at 31-Mar-22	<b>Assets</b>	as at 31-Mar-22
<b>Capital Account</b>	<b>38,000.00</b>	<b>Fixed Assets</b>	<b>6,35,469.00</b>
<i>Almitra Patel</i>	<i>26,000.00</i>	<i>CC Tv</i>	<i>35,000.00</i>
<i>Pesi Shroff</i>	<i>12,000.00</i>	<i>Cell Cutter</i>	<i>4,00,000.00</i>
		<i>Computers</i>	<i>41,250.00</i>
<b>Loans (Liability)</b>	<b>49,89,543.00</b>	<i>Computer Speckers</i>	<i>620.00</i>
<i>Gherda Foundation(Donation)</i>	<i>6,000.00</i>	<i>CPU</i>	<i>5,000.00</i>
<i>Ocol (Loans &amp; Adv)</i>	<i>32,75,226.00</i>	<i>Furniture Sai</i>	<i>10,000.00</i>
<i>Ranganayakulu Loan</i>	<i>17,08,317.00</i>	<i>Lab Tools &amp; Fixtures</i>	<i>1,22,359.00</i>
		<i>Tally Software</i>	<i>21,240.00</i>
<b>Current Liabilities</b>	<b>31,39,730.00</b>	<b>Current Assets</b>	<b>18,55,684.56</b>
<i>Duties &amp; Taxes</i>	<i>(-)3,15,669.78</i>	<i>Closing Stock</i>	<i>13,87,234.57</i>
<i>Provisions</i>	<i>12,00,000.00</i>	<i>Cash-in-Hand</i>	<i>47,802.00</i>
<i>Sundry Creditors</i>	<i>22,55,399.78</i>	<i>Bank Accounts</i>	<i>2,59,580.99</i>
		<i>Partition Work</i>	<i>1,18,967.00</i>
		<i>Tds Receivable</i>	<i>42,100.00</i>
		<b>Suspense A/c</b>	<b>4,91,445.00</b>
		<i>X</i>	<i>4,91,445.00</i>
		<b>Profit &amp; Loss A/c</b>	<b>51,84,674.44</b>
		<i>Opening Balance</i>	<i>17,98,044.00</i>
		<i>Current Period</i>	<i>33,86,630.44</i>
<b>Total</b>	<b>81,67,273.00</b>	<b>Total</b>	<b>81,67,273.00</b>

## Photos of production and facilities





**Team members and staff**

Around 11 member staff working at present.

1. Raju: Sr. Manager, Production
2. Ramesh Nagepally Sr. Manager Accounts and finance
3. Tadi Srinivas: GM technical
4. Upendra Singh Rajput – asst manager production/installation
5. Rupesh (electrician, installation)
6. Siddhesh electrical assistant
7. Vinod: fabrication in charge
8. Meithili Chandivade (reception plus production and general computer operation)
9. Parchi Chandivade
10. Sucita Gamare
11. Kavita Mahade

## Training

1. 4 local women are trained in solar panel and lights assembly, and they are able to participate in production activities.
2. 2 numbers of local youth are trained in led related assembly, installation, repair and maintenance activities.
3. One person is being groomed to become a plastic entrepreneur.
4. Two people are accepted to the Hoshang fellows to work a month an year and continue guiding students projects or their own projects.



## Ranga visits to organizations.

Ranga has visited several organizations, companies, museums in search of collaborative ideas and projects.

- **Museum:** Pune mini train museum, Boston science museum, Boston children museum
- **Colleges:** Maharshi Karve engineering colleges, Pune,
- **NGOs:** Prayas, Govardhan eco-village,
- **Institutions:** National institute of rural development, Hyderabad, Acharya Jayashankar agriculture university, Shivaji Rao university, Kolhapur, Gokhale institute of political sciences, Pune

- **Companies:** Pune pumps, Sarita solar, Ahmedabad, Pedilite units in Mahad industrial area
- **Others:**

## Certifications received

**ISO 9001:2015 Quality Management System For the following scope of activities:**

NOT FOR PROFIT RESEARCH ORGANIZATION FOR THE PROMOTION OF TECHNOLOGY ENTREPRENEURSHIP IN RENEWABLE ENERGY, ENERGY CONSERVATION, SOLID STATE ELECTRONICS AND OTHER RELATED FIELDS WITH ENGINEERING, MANAGEMENT STUDENTS AND FACULTY

### **Good manufacturing certificate**

HOSHANG PATEL TECH CENTRE  
A/P - LAVEL, TAL - KHED, DISTRICT - RATNAGIRI, MAHARASHTRA - 415 708,  
INDIA.

Has been assessed and found working satisfactorily as per the norms of  
“Good Manufacturing Practice” as laid down by World Health Organization  
Good Manufacturing Practice (GMP) System

For the following scope:

NOT FOR PROFIT RESEARCH ORGANIZATION FOR THE PROMOTION OF TECHNOLOGY ENTREPRENEURSHIP IN RENEWABLE ENERGY, ENERGY CONSERVATION, SOLID STATE ELECTRONICS AND OTHER RELATED FIELDS WITH ENGINEERING, MANAGEMENT STUDENTS AND FACULTY.



## *Certificate of Registration*

This is to certify that

### **HOSHANG PATEL TECH CENTRE**

A/P - LAVEL, TAL - KHED, DISTRICT - RATNAGIRI  
MAHARASHTRA - 415 708, INDIA.

has been independently assessed by QRO  
and is compliant with the requirement of:

**ISO 9001:2015**

### **Quality Management System**

For the following scope of activities:

**NOT FOR PROFIT RESEARCH ORGANIZATION FOR THE PROMOTION OF  
TECHNOLOGY ENTREPRENEURSHIP IN RENEWABLE ENERGY, ENERGY  
CONSERVATION, SOLID STATE ELECTRONICS AND OTHER RELATED  
FIELDS WITH ENGINEERING, MANAGEMENT STUDENTS AND FACULTY.**

Date of Certification: 18th February 2022

2<sup>nd</sup> Surveillance Audit Due: 17th February 2024

1<sup>st</sup> Surveillance Audit Due: 17th February 2023

Certificate Expiry: 17th February 2025

**Certificate Number: Draft**



Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.  
(In case surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

**The Validity of this certificate can be verified at [www.grocert.org](http://www.grocert.org)**

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

**India Office : QRO Certification LLP**

142, IInd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)

Website : [www.grocert.org](http://www.grocert.org), E-mail : [info@grocert.org](mailto:info@grocert.org)



## Certificate of Compliance

This is to certify that

### **HOSHANG PATEL TECH CENTRE**

A/P - LLEVEL, TAL - KHED, DISTRICT - RATNAGIRI, MAHARASHTRA - 415 708, INDIA.

Has been assessed and found working satisfactorily as per the norms of "Good Manufacturing Practice" as laid down by World Health Organization

#### **Good Manufacturing Practice (GMP) System**

For the following scope:

**NOT FOR PROFIT RESEARCH ORGANIZATION FOR THE PROMOTION OF TECHNOLOGY ENTREPRENEURSHIP IN RENEWABLE ENERGY, ENERGY CONSERVATION, SOLID STATE ELECTRONICS AND OTHER RELATED FIELDS WITH ENGINEERING, MANAGEMENT STUDENTS AND FACULTY.**

Certificate Number: QVA-HLHL-22-171003

To verify this certificate please visit at [www.gaafs.us](http://www.gaafs.us)

Date of Certification	17 <sup>th</sup> February 2022
Issuance Date	17 <sup>th</sup> February 2022
1st Surveillance Due	16 <sup>th</sup> February 2023
2nd Surveillance Due	16 <sup>th</sup> February 2024
Re-Certificate Due	16 <sup>th</sup> February 2025



  
Authorized Signatory



QVA Certification  
CAB Address : Maryland Avenue, SW Washington, D.C. 20202  
Validity of this certificate is subject to annual surveillance audits to be done successfully  
This certificate is the property of QVA Certification and shall be returned immediately on request  
QVA Certification is an independent Systems Products and Personal assessment Body, QVA Certification is accredited by GAAFS.US



## Certificate of Compliance

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A/P - LAVEL, TAL - KHED, DISTRICT - RATNAGIRI, MAHARASHTRA - 415 708, INDIA.

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"Good Manufacturing Practice" as laid down by World Health Organization

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Certificate Number: QVA-HLHL-22-171003

To verify this certificate please visit at [www.gaafs.us](http://www.gaafs.us)

Date of Certification	17 <sup>th</sup> February 2022
Issuance Date	17 <sup>th</sup> February 2022
1st Surveillance Due	16 <sup>th</sup> February 2023
2nd Surveillance Due	16 <sup>th</sup> February 2024
Re-Certificate Due	16 <sup>th</sup> February 2025



  
Authorized Signatory



QVA Certification  
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QVA Certification is an independent Systems Products and Personal assessment Body, QVA Certification is a accredited by GAAFS.US

## Thank You



**Hoshang Patel Tech Centre**  
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Lavel, Ratnagiri-415708,  
Maharashtra, India

**Phone:** +9181495-33077  
**Email:** [info@hoshang-tech.com](mailto:info@hoshang-tech.com)