

3D Printing Startup

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Certificate No.: DIPP14986

nnology Innovation and Precision



Department of Industrial Policy & Promotion
Ministry of Commerce & Industry
Government of India

CERTIFICATE OF RECOGNITION

Department of Industrial Policy and Promotion

This is to certify that <u>IPRO3D TECHNOLOGIES LLP</u> incorporated/ registered as a <u>Limited Liability Partnership</u> on <u>14-10-2017</u>, is recognized as a startup by the Department of Industrial Policy and Promotion.

Date of Issue: <u>18-05-2018</u> Place of Issue: <u>New Delhi</u>

The certificate shall only be valid for the entity:

- Up to seven years from the date of its incorporation/registration; and
- If its turnover for any of the financial years since incorporation/ registration has not exceeded Rs. 25 crores.

Note:

- Authorities accepting this Certificate may check its validity on the Startup India portal (https://www.startupindia.gov.in/)
- This certificate is not the Certificate issued by the Inter Ministerial Board and is NOT VALID for availing Tax benefits
- This is a system generated certificate and hence does not require physical signature
- If such recognition is found to have been obtained without uploading the relevant documents or on the basis of false information, DIPP reserves the right to revoke the recognition certificate immediately without any prior notice or reason.

About us



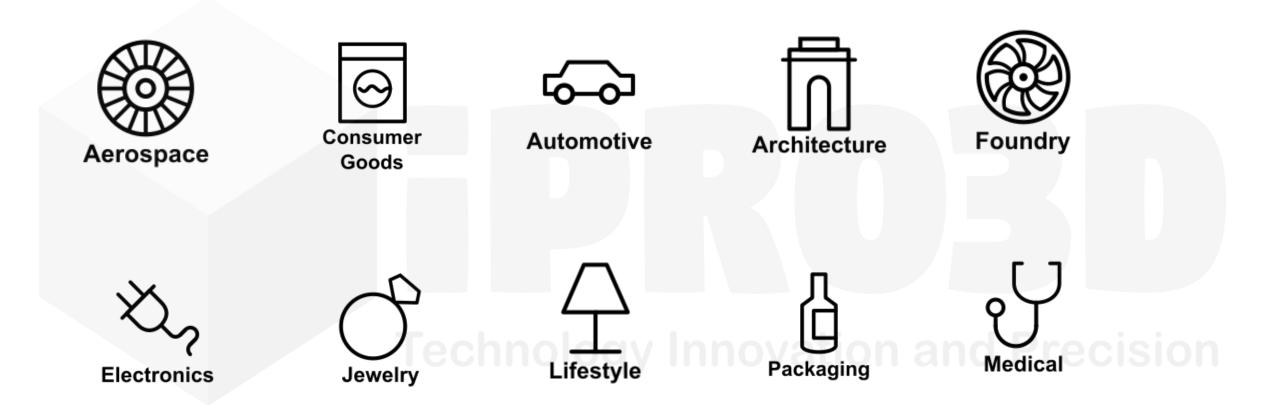
We IPRO3D Technologies LLP are a 3D printing additive manufacturing start-up located at Aurangabad, Maharashtra, India. We have a very passionate team of Engineers working towards the same goal of providing technology for manufacturing more critical parts that were not manufacturable earlier because of manufacturing constraint and making manufacturing technology more accessible and reliable at your door step.

We provide our 3D printing services online and offline for on demand production of prototypes, end use products, as well as batch production for products, etc. using additive manufacturing technology which is also popularly known as 3D printing. IPRO3D provides access to wide range of materials, finishes, techniques and manufacturing processes as well as superior optimization tools for file repair and analysis.

We provide delivery of our 3D printed additive manufactured and traditionally manufactured products all over India. We also process worldwide delivery according to the order quantity.

Industrial applications of 3D Printing





Novelty, corporate gifting, etc. and many more....

Our Machines



We provide service for 3D printing technologies like SLS(Selective Laser Sintering), DMLS (Direct Metal Laser Sintering), SLA (Stereolithography Apparatus) and FDM (Fused Deposition Modeling).

1) SLS (Selective Laser Sintering)

Selective Laser Sintering (SLS) is an additive manufacturing process that belongs to the Powder Bed Fusion family. In SLS, a laser selectively sinters the particles of a polymer powder, fusing them together and building a part layer-by-layer.

The materials used in SLS are thermoplastic polymers that come in a granular form.

Available Machine Specifications

Built size: 340 mm X 340 mm X 600 mm

Layer thickness: 120 microns

Tolerance: 0.15 - 0.2 mm

Note: Any feature less than 0.8 mm is difficult to achieve.

Materials:

- PA 2200
- PA 1101
- PA 3200 GF
- PrimePart ST (PEBA 2301)
- PrimeCast 101

Benefits

- High Accuracy
- Good and consistent mechanical properties
- No supports required
- Good chemical resistance



2) DMLS (Direct Metal Laser Sintering)

Direct Metal Laser Sintering (DMLS) are metal additive manufacturing process that belong to the powder bed fusion 3D printing family. The technology uses a laser to scan and selectively fuse (or melt) the metal powder particles, bonding them together and building a part layer-by-layer. The materials used in this process are metals that come in a granular form.

Available Machine Specifications

Built size: 250 mm X 250 mm X 250 mm

Accuracy achieved: 0.06 mm

Materials:

- Maraging Steel MS1
 (minimum layer thickness 40 micron),
- Aluminum Al Si 10Mg
 (minimum layer thickness 30 micron),
- Titanium –(Ti64, Ti6Al4V, Ti6Al4V ELI, CP Ti)
 (minimum layer thickness 60 micron) ,
- Stainless Steel (316L, Corax, 17-4 PH, 15-5PH, PH1 (minimum layer thickness 20 micron),
- Nickel Alloy –(IN718, IN625, Hastelloy X) (minimum layer thickness 40 micron),
- Cobalt Chrome Alloys (MP1 and SP2)















Benefits

- Complex geometries
- Part weight reduction
- Reduce development time
- Strong and durable components
- Rapid prototypes



Non-Standard Alloys can be Developed IPRO3D has the ability to develop custom AM process for non standard alloys as per business case.



3) SLA (Stereolithography Apparatus)

Stereolithography (SLA) is an additive manufacturing process that belongs to the Vat Photopolymerization family. In SLA, an object is created by selectively curing a polymer resin layer-by-layer using an ultraviolet (UV) laser beam. The materials used in SLA are photosensitive thermoset polymers that come in a liquid form.

Available Machine Specifications

Built size: 145 mm X 145 mm X 175 mm

Layer thickness available: 25, 50 and 100 microns

Materials:

- Standard resin Black
- Standard resin White
- Standard resin Grey
- Standard resin Clear resin
- Flexible resin
- Durable resin
- Tough resin
- Dental resin
- Castable resin
- High temperature resin.

Benefits

- High resolution and smooth surface finish
- Accuracy
- Rapid prototyping with quick iteration
- Functional parts for a wide range of applications











4) FDM (Fused Deposition Modeling)

Fused Deposition Modeling (FDM), or Fused Filament Fabrication (FFF), is an additive manufacturing process that belongs to the material extrusion family. In FDM, an object is built by selectively depositing melted material in a predetermined path layer-by-layer. The materials used are thermoplastic polymers and come in a filament form.

Available Machine Specifications

Built size: 200 mm X 200 mm X 300 mm

Layer thickness: 60, 100, 150, 200, 250, 300, 320 microns.

Nozzle type: Duel nozzle and single nozzle.



PLA, ABS, Nylon, TPU 95A, PC, PP, PVA, HIPS, wood filled, bamboo filled, copper filled, bronze filled, steel filled, etc.

(Materials in different colors are also available as per requirement and availability of material).

Benefits

- Low volume production of complex end use parts
- Prototypes for form, fit and function testing
- Prototypes directly manufactured in production material
- Low cost
- Broad range of materials
- Less time consuming





Product Delivery



- 1) After manufacturing and inspection product delivery will be within 3 days anywhere in India.
- 2) Priority shipping is also available.
- 3) Delivery out of India is also available for products that cost below Rs. 50,000/-

Part Confidentiality MOU and Non-Disclosure agreements are also available on demand for R&D related activities.

Technology Innovation and Precision

Applications of 3D Printing for manufacturing



1) Research and development

During research and development of any part there are n number of iterations done on the design / geometry of the part. For every iteration it is not possible to make a die or mold for making a prototype as it would be of any use once there is change in design.

Design topology optimization is a tool that can used to optimize the design by

keeping the required constraints constant.

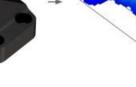


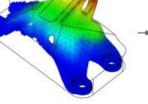














Original Part esign Space) Multi-Load Case TopOpt Faceted Model Result

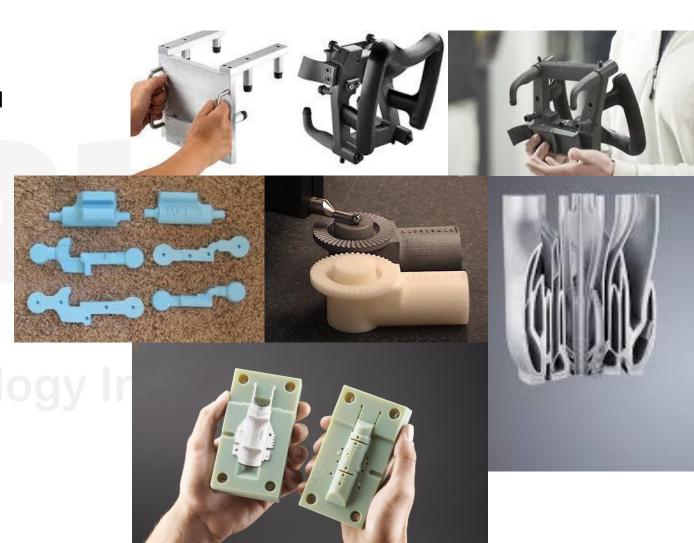


2) Production

With the help of 3D printing a prototype of any critical design can be made within hours and used in production for improving the lead time for assembly by making a light weight and easy to use prototype of Jigs and Fixtures in metals and plastics.

3) Maintenance

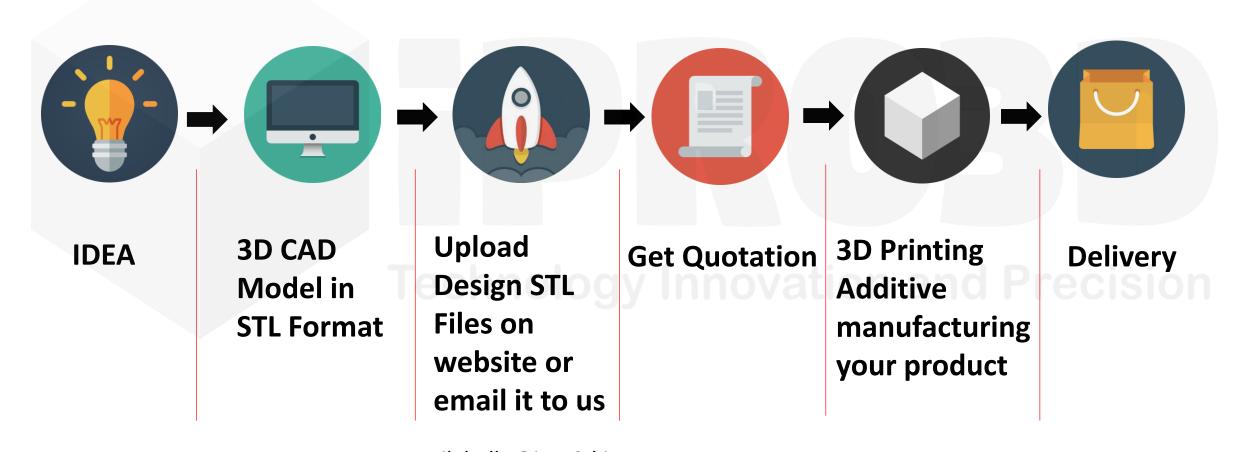
During production every machine works on a load continuously and there are chance's of breakdowns due to failure of a metal of plastic part in any of machinery. The breakdown time can be reduced by rapid prototyping the part in metal or plastic.



How we work



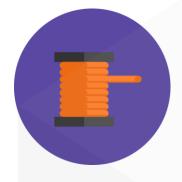
Get your localized 3D printing service across India. Using the best engineering and medical grade 3D printing machines and materials we provide you the best quality 3D printed parts at the lowest price right at your doorstep.



Email: hello@ipro3d.io

Prototype your product





Material

Select materials from a wide variety in plastics, metals, metal alloys and plastic composites



Quality

We don't compromise on part / product quality



Price

We provide the best competitive price compared to any other competitor in India and world 3D printing market.

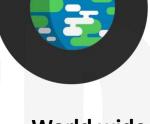


Production

We manufacture all products at a time and help reduce the manufacturing time and cost while maintaining the optimum part quality



Delivery all over India



World wide delivery

We partner with the worlds best courier partners who provide delivery all over India and world wide delivery (on Project basis) in a very timebound manner. We also provide priority and express shipping*.

Our Services

- 1. 3D Printing
- 2. 3D Scanning
- 3. Vacuum resin casting
- 4. Soft tooling manufacturing
- 5. 2D & 3D design services
- 6. Design for 3D Printing
- 7. Design topology optimization
- 8. X-ray tomography
- 9. Small Batch production
- 10.CNC machining
- 11. Many more services.....

Manufacturing Facility



We have our manufacturing facility located in Aurangabad, Maharashtra, India.

We provide 3D printed Additive Manufactured custom parts which are manufactured using various 3D Printing technologies such as Fused deposition modeling (FDM), Stereolithography (SLA), Selective Laser Sintering (SLS), Direct Metal Laser Sintering (DMLS), Etc.

Why choose IPRO3D?



1) Confidential

Every business has its risks and security associated with it. IPRO3D is a leading 3D Printing and 3D CAD modeling company. Whether you are establishing a 3D Model or getting printing services with us, security is our prime concern and responsibility. We understand the importance of valuable designs made by investing a lot of time, efforts and creative thinking. You can upload designs with confidence as we take care that no one could download / hack the design. Similarly, all our transmissions are safe with Tran scripted environment. Your designs are safe with us and never misused or published without your permission.

2) What Assignments are prohibited at IPRO3D?

IPRO3D has established its business ethics and policies. We do not accept assignments which conflict with our mission and our business ethics. For example, models devised for weapon industry or models like skimming devices do not qualify at IPRO3D.

3) Mutual Non-Disclosure Agreements

Mutual Non-disclosure Agreements assures all the confidentiality of the designs, parts, design files, etc. concerns between IPRO3D and consumer/other party.

4) Our Promise

At IPRO3D we follow all legal and mutual confidentiality agreements at priority because we don't want our customers worry about it. We assure and promises our customers that their designs, ideas and files safe with us as its security is our prime concern. The files are copyrighted once they are safely uploaded to our secure server by you.

We believe in new collaborations, mutual co-operation and trust. We have consistent business policies and strong business ethics in this concern.



Make Free User account
and upload his 3D CAD
and upload his 3D call as a
Design Files to sell as a
3D printed product and
earn money for his skills.

The parcel is collected from manufacturing facility and then delivered to customers location

Once the product is delivered the designer receives the royalty for his design



The uploaded files get a pricing and are made live in marketplace as 3d printed product for sale.



Customer buys the 3D printed product and makes the payments and selects delivery location

Product is then 3D printed, quality check's then packed and the product is ready for shipping



Customer Feedback

Mutation Program



IPRO3D mutation program is for students to develop their creative ideas/products and prototype them using the hi-tech 3D printing technology. The mutation program helps students to fabricate their innovative ideas to product and get expert help if needed by the students. Students can also discuss their problems with the 3D printing community forums and get help from people working in 3D printing, 3D designing, etc.

Prototyping the innovative ideas and testing them in the real world are the basic need of the time. Being a student, it is not possible for them to get access individually to these hi-tech technologies to make a presentable prototype of their ideas but don't you worry the mutation program helps students to get access to these hi-tech technologies and use it for prototyping their innovative and creative ideas.

Students just have to do a free registration in mutation program and access to hi-tech 3D printing latest technology. Students registered in mutation program get special privileges of educational pricing and student discounts.





IPRO3D TECHNOLOGIES LLP

Incubation Office

Address:

IPRO3D TECHNOLOGIES LLP,

C/O Er. Yogesh Pawar, Workstation-1, MAGIC, CMIA office, Bajaj Bhavan, Near MIDC office, Railway Station Road, Aurangabad, Maharashtra, India.

Email: hello@ipro3d.io

Mobile / Whatsapp: 9821413663

Corporate office Manufacturing Facility

Address:

IPRO3D TECHNOLOGIES LLP,

C/O Er. Yogesh Pawar,
Meridian Status-B, F-7,
Near Youth Hostel, Kesarsingpura,
Aurangabad-431005, Maharashtra,
India.

Email: hello@ipro3d.io

Mobile / Whatsapp: 9821413663

You can also contact us through our website https://www.ipro3d.io And get instant quotes for your parts/ models.

News (Paper Media)

टिटीं मराठी

औरंगाबाद. रविवार, १ एपिल २०१८

बी.टेक.चा विद्यार्थी योगेश पवारच्या संकेतस्थळाचे बागडेंच्या हस्ते उदघाटन

चे स्टार्टअप प्रेरणादायी

श्रीडी प्रिंटिंग एडिटिव्ह तंत्रज्ञानावर संस्थापक यज्ञवीर कवडे. प्राचार्य आयपीआरओ थ्रीडी टेक्नॉलॉजीज एरोस्पेस, संरक्षण क्षेत्रात उपयुक्त एलएलपी हा उद्योग नुकताच सरू असल्याचे पवार यांनी सांगितले केला. त्याच्या संकेतस्थळाचे उदघाटन कार्यक्रमासाठी डॉ. चंद्रकांत पवार. डॉ. तापडिया नाट्यगृहात बागडे यांच्या शुभदा डक-पवार, नारायण डक, यश हस्ते झाले. त्या वेळी त्यांनी हे मत पवार आदींनी सहकार्य केले

व्यक्त केले. या वेळी आमदार अतुल सावे. प्रशांत बंब. एमआयटीचे आधारित तरुण अभियंत्यांचे स्टार्टअप प्रताप बोराडे. डॉ. विजय लोमटे. राज्य



बागडे, अशोक डक, डॉ. चंद्रकांत पवार, योगेश प्रवार, यज्ञवीर कवडे, प्रताप बोराडे, डॉ. विजय लोमटे, शभदा डक-पवार.

Lokmat Times

www.epaper.lokmat.com/lokmattimes/

AURANGABAD. THURSDAY, 5 APRIL 2018

Aurangabad FIRST

City youth pins hopes on 3D printing start-up

Aurangabad, April 4: The startup of a budding young neering graduate has devel-straints of manufacturing Aurangabad is proving to be a ray of hope for other youths of Marathwada. His startup Technologies of 3D print-

Manufacturing products.

from oped the technology. "Additive manufacturing the manufacturing lead process is popularly known as 3D printing. In this process, the part is manufactured by adding material layer by layer rather than Manufacturing' is the first manufacturing by tradi- rial and reduce company in Marathwada to tional way of removing product wastage. print 3D Printing Additive material for manufacturing the parts. This technology tures parts for automobiles,

of parts and have reduced time by reducing the manufacturing processes, simplifying it and increasing the efficiency of the parts. Hence saving a lot of mate-

The machine manufac-

medical and packing industry. Yogesh has also launched his website which was recently inaugurated by speaker of Maharashtra legislative Haribhau Bagade, MLA's Atul Save, Prashant Bamb, GS Mandal president Yadnyaveer Kawade and MGM trustee Pratap





अवतीभवती



औरंगाबाद : 'आरपीआरओ थ्रीडी' संकेतस्थळाचे उद्घाटन करताना हरिभाऊ बागडे. सोबत अशोक डक, डॉ. चंद्रकांत पवार, योगेश पवार, यज्ञवीर कवडे, प्राचार्य प्रताप बोराडे, डॉ विजय लोमटे, शभदा डक-पवार.

औरंगाबादच्या तरुणाचे थ्रीडी प्रिंटिंग स्टार्टअप

औरंगाबाद, ता. ३१ : योगेश चंद्रकांत पवार या अभियंत्याने 'आयपीआरओ थ्रीडी (IPRO3D) टेक्नॉलॉजीज एलएलपी' हा थ्रीडी प्रिंटिंग स्टार्टअप नुकताच सुरू केला आहे. या स्टार्टअपच्या https:// www.ipro३d.io (आयप्रोथ्रीडी) या संकेतस्थळाचे उद्घाटन हरिभाऊ बागडे यांच्या हस्ते तापडिया नाट्यगृहात झाले. या वेळी आमदार अतुल सावे, प्रशांत बंब, एमआयटीचे संस्थापक यज्ञवीर कवडे, प्राचार्य प्रताप बोराडे, डॉ. विजय लोमटे, राज्य सहकारी संघाचे संचालक अशोक डक, डॉ. चंद्रकांत पवार, डॉ. शुभदा डक-पवार, नारायण डक व यश पवार उपस्थित होते.

रविवार, दि . १ एप्रिल २०१८

थ्रीडी तंत्रज्ञानाचे स्टार्टअप तरुणासाठी प्रेरणादायी - ना. हरिभाऊ बागडे



औरंगाबाद : थीडी प्रिटींग ॲडिटिकी हे केले. एमआयटी बी-टेकचा माजी विद्यार्थी योगेश लेकर सिंटरींग, डायरेक्ट मेटल लेकर सिंटरींग उत्पादन तंत्र ज्ञान मानवी जिवनात क्रांतीकारी चंद्रकांत पदार याने आयपीआरचे बी डी '' तंत्रज्ञानाचा वापर करून निर्मितीं करण्यात येणार बदल घडवून आणणारे आहे. योगेश पवार तसण टेक्नॉलॉजीज एलएलपी हा स्टर्टअप नुकताच सुरु आहे. यावेळी पाहुण्यांचे स्वागत डॉ.चंद्रकांत पवार, अभियंत्याचा स्टार्टअप मराठवाड्यातील केला आहे. या उद्योगाच्या आयप्रोधीडी या डॉ.शुभदा, इंक पवार, इति, योगेश पदार. नारयण

हली औरगाबाद

chichad

औरंगाबाद, रविवार, दि. ६ मे २०१८



एमआयटी महाविद्यालयात आयोजित उद्योजकता जागरूकता कार्यशाळेत सहभागी झालेले विद्यार्थी आणि मार्गदर्शक.

'उद्योजकता जागरूकता' कार्यशाळा

औरंगाबाद : मेकॅनिकल इंजिनिअरिंग मेकॅनिकल इंजिनिअरिंग विभागातर्फे 'उद्योजकता जागरुकता' या विषयावर

बदलत्या परिस्थितीचे विवेचन केले. अधिकारी एस. जी. नलावडे. प्रकल्प अधिकारी भारती सोसे विजय दाभाडे, योगेश पवार आदींनी उद्योजकता या विषयावर विद्यार्थ्यांना

रविवार, दि. १ एप्रिल २०१८

'थ्रिडी' तंत्रज्ञानाचे स्टार्टअप' तरुणांसाठी प्रेरणादायी

• मा.ना. हरिभाऊ बागडे यांचे प्रतिपादन • अभियांत्रिकी पदवीधर योगेश पवारचा (अभिनव प्रयोग

सावे, आ. प्रशांत बंब, एमआयटीचे संस्थापक सॉफ्ट टुलिंग, टूडी थ्री डॉ. कॅड डिझायनिंग, यश पवार यांनी केले.

औरंगाबाद, दि.१ (सांजवार्ता ब्युरो) : 'थीडी' यद्मवीर कवडे, प्राचार्य प्रताप बोराडे, डॉ. विजय रिव्हर्स इंजिनिअरींग, डिझाईन टोपोलॉजी ऑप्टीम प्रिटींग अंडीटिक' हे उत्पादन तंत्रज्ञान मानवी लोमटे, माजी संचालक बीसीयुडी, बीएएमयु, विद्यंशन, एक्स रे टोपोग्राफी, व्हेंक्युम कास्टींग जीवनात क्रांतीकारी बदल घडवून आणणारे आहे. राज्य सहकारी संघाचे संचालक अशोक गोविंदराव आदींची ही निर्मिती करण्यात येणार आहे. थी डी योगेश पवार या तरुण अमियंत्यांचा 'स्टार्टअप' डक आदी मान्यवरांची प्रमुख उपस्थिती होती. थ्री प्रिटींग ॲडटिव्ह मॅन्युफॅक्चरिंग उत्पादन करणारी मराठवाड्यातील तरुणांसाठी प्रेरणादायी आहे, असे डी तंत्रज्ञानाचा माध्यमातून (आयप्रोधीडी) च्या पहिली स्टार्टअप कंपनी आहे. ही थी डी. प्रिटींग प्रतिपादन विधानसभेचे अध्यक्ष हरिमाऊ बागडे यांनी संकेतस्थळातील मार्केट प्लेस या माध्यमातून ग्राहक, ॲडिटीव्ह मॅन्युफॅक्चरिंग उत्पादन करणारी पहिली उद्योजक, डिझायनगर यांच्यातील अंतर दर झाले स्टार्टअप कंपनी आहे. ही थी डी प्रिटींग ॲडव्हिट 'एमआयटी बी-टेक'चा माजी विद्यार्थी असून, तरुणांसाठी उद्योगांचे एक नवे दालन या टेक्नॉलॉजी ऑटोमोबाईल, मेडिकल आणि हेल्थ योगेश चंद्रकांत प्रवार याने 'आयपीआरओ थी निमित्ताने निर्माण झाले आहेत. या उद्योगांतर्गत थी केअर, आर्किटेक्चर, ऐरो स्पेस, डिपेन्स इत्यादी डी' टेक्नॉलॉजीज एलएलपी हा स्टार्टअप नुकताच 🏻 डी तंत्रज्ञान स्टिरिओलिथोग्राफी पयुजड डिपॉझीशन 🕻 क्षेत्रात प्रामुख्याने उपयोगी आहे. याबद्दल मा. ना. स्क केला आहे. या उद्योगाच्या आयप्रोधीडी मॉडेलिंग सिलेक्टीव लेझर सिंटरींग डायरेक्ट मेटर हरिमाऊ बागडे यांनी समाधान व्यक्त केले. यावेळी संकेतस्थळाचे उद्घाटन बागडे यांच्या हस्ते लेझर सिटरींग या तंत्रज्ञानाचा वापर करून निर्मिती पाहण्यांचे स्वागत डॉ. चंद्रकांत पवार, डॉ. शुभदा तापडीया नाट्यगृहात झाले. यावेळी आ. अतुल करण्यात येणार आहे. तसेच थी डी रकॅर्निंग, डक पवार, इंजि. योगेश पवार, श्री. नारायण डक व



बागडे यांच्या हस्ते झाले. यावेळी अशोक डक, डॉ. चंद्रकांत पवार योगेश पवार, यज्ञवीर कवडे, प्राचार्य प्रताप बोराडे, डॉ. विजय लोमटे

News (Online 3D printing Magazine)

https://manufactur3dmag.com/aurangabad-3d-printing-startup-ipro3d-incubation-cmias-magic-program/





first company to join its incubation program.

Image Credit: CMIA

IPRO3D is a 3D printing company that offers 3D printing services worldwide. The startup launched late last year is also an online 3D Printing Marketplace that offers even offline 3D printing services.

IPRO3D approached CMIA in December 2017 and the process for the incubation started immediately and after passing various stages of the selection process, IPRO3D finally got the incubation on 5th of May, 2018.

Offering more details about the incubation process, Yogesh Pawar, Founder & Managing Director at IPRO3D said, "We needed an incubation for further development of its idea of developing a more user-friendly beta version of India's First Online 3D Printing Marketplace. That is one of the







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MAGIC by Chamber of Marathwada Industries and Agriculture (CMIA),Aurangabad.

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Manufacturing Facility and R&D ADD: Meridian Status-B, F-7, Near youth hostel, Kesarsingpura, Aurangabad, Maharashtra, India. PINCODE: 431005

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