



इलेक्ट्रॉनिक्स एवं फोटोनिक्स अध्ययन शाला



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.) 492010

वैश्विक कुटुम्बकम्
ONE EARTH - ONE FAMILY - ONE FUTURE

कं. 689/इले. एवं फोटो. अ.शा./24

रायपुर, दिनांक 01/09/2024

// दावा आपत्ति सूचना //

सर्वसधारण को सूचित किया जाता है कि इलेक्ट्रॉनिक्स एवं फोटोनिक्स अध्ययनशाला Printed Circuit Board (PCB) Design/Fab & Training Lab -Basic PCB Lab में सांपत्तिक प्रवृत्ति (Proprietary Articale) की श्रेणी के अंतर्गत कय किया जा रहा है। (Products Details available in University website is enclosed)

सांपत्तिक कय की श्रेणी के अंतर्गत कय के संबंध में किसी निर्माता कंपनी को यदि कोई आपत्ति हो तो दिनांक 30/10/2024 तक मयसुसंगत दस्तावेज पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.) में प्रस्तुत करें। दिनांक 30/10/2024 के पश्चात प्राप्त अभ्यावेदन पर कोई विचार नहीं किया जायेगा।

Othub
19/9/2024

विभागाध्यक्ष
HEAD

S.O.S. in Electronics & Photonics
इलेक्ट्रॉनिक्स एवं फोटोनिक्स
Ravi Shankar Shukla University
RAIPUR (C.G.) 492 010
अ.शा.लि.



REF: TKY/E – 1024 / 2024 -25

Date : August 14th 2024

Pt. Ravishankar Shukla University
Amanaka G.E.Road,
Raipur
Chhattisgarh – 492010

Attn: Head (School of Studies in Electronics & Photonics)

Sub: Printed Circuit Board (PCB) Design / Fab & Training Lab – Basic PCB Lab**PROPRIETARY CERTIFICATE**

This is to certify that the following products:-

Basic / Advanced / Microwave - Printed Circuit Board Fabrication Lab Design / Drafting &Fabrication facility - including the following modules:-

1. **PCB fabrication Lab Equipment** - Basic (*Drilling, Exposing, Tinning, Etching PCB solder mask, PCB Holders, and other related machines*)
2. **Advanced PTH PCB fabrication Lab Equipment** - (*Dry Film Laminators / Developing / Stripping – 2 in 1 machines, PTH Plating line , Moving nozzle Etching machine, UV Exposure with vacuum system*)
3. **Microwave Integrated Circuit (MIC) / Antenna fabrication Lab Equipment** - (*Mask Transfer Exposing, , Etching PCB Plating and other related machines*)
4. **PCB Processing Consumables / Chemicals** for all the above (*Laminates, Photoresist , Developers, Thinners , Etchants , Lith films, Dry Films etc..*)

are Proprietary Products Developed Manufactured & Marketed by crescent graphics pvt. ltd. and manufactured at our Palghar (Maharashtra) factory which is a Govt. of India MSME certified manufacturer (Certificate enclosed)

These Labs are all supplied on a Turnkey basis directly – “Authorised distributors” And thru AICTE / MODROBs / IDEAS / DTE / DVET / World Bank Projects.

..... continued Page 2

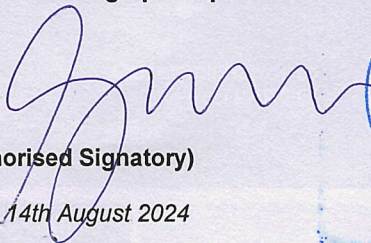
We have supplied these PCB labs & Accessories to over 1,000 Engineering colleges / Polytechnics / ITI's / Technical Institutes (including IIT's NIT's MSME Tool Rooms etc.) and 42 Research institutes (Defence , Space, Aeronautics etc.) on an all-India basis.

We have OVER 55 Customers (Engineering Institutes) in M.P. / Chhattisgarh States.

There is no other manufacturer, to the best of our knowledge of such All-inclusive – complete Turnkey PCB Labs, and are not available from other sources.

Also we have no distributors - all-India to re-sell these products as they are unable to do Technical Interaction (or Installation & Service) for Engineering institutes.

For : crescent graphics pvt. ltd.



(Authorised Signatory)

Date: 14th August 2024

Place: Mumbai



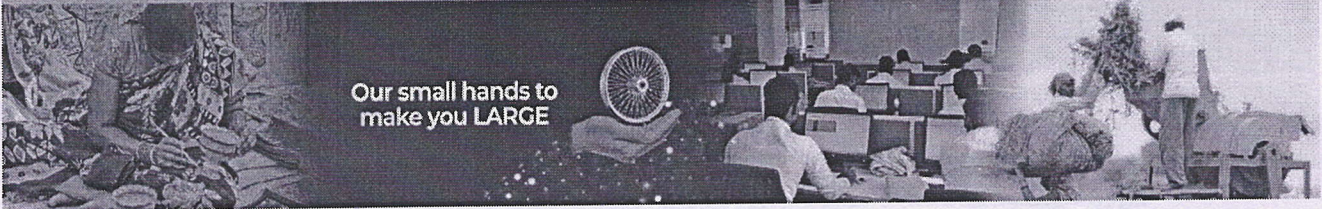
Encl: Govt. of India - MSME UDAYAM Certificate



भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

UDYAM REGISTRATION CERTIFICATE



UDYAM REGISTRATION NUMBER	UDYAM-MH-19-0101665			
NAME OF ENTERPRISE	M/S CRESCENT GRAPHICS PRIVATE LIMITED			
TYPE OF ENTERPRISE *	MICRO			
MAJOR ACTIVITY	MANUFACTURING			
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL			
NAME OF UNIT(S)	S.No.	Name of Unit(s)		
	1	M/S CRESCENT GRAPHICS PRIVATE LIMITED		
OFFICIAL ADDRESS OF ENTERPRISE	Flat/Door/Block No.	1018	Name of Premises/ Building	PLAZA PANCHSHIL
	Village/Town	HUGHES ROAD	Block	BEHIND DHARAM PALACE



Road/Street/Lane	CHARNI ROAD GAVDEVI	City	MUMBAI		
State	MAHARASHTRA	District	MUMBAI, Pin 400007		
Mobile	9821140911	Email:	bharat124354@gmail.com		
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	03/06/1985				
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	01/12/2008				
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
	1	25 - Manufacture of fabricated metal products, except machinery and equipment	2599 - Manufacture of other fabricated metal products n.e.c.	25999 - Manufacture of other fabricated metal products n.e.c.	Manufacturing
	2	27 - Manufacture of electrical equipment	2790 - Manufacture of other electrical equipment	27900 - Manufacture of other electrical equipment	Manufacturing
	3	32 - Other manufacturing	3290 - Other manufacturing n.e.c.	32909 - Manufacture of other articles n.e.c.	Manufacturing
DATE OF UDYAM REGISTRATION	06/12/2021				

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 09/12/2021

For any assistance, you may contact:

1. District Industries Centre: MUMBAI CITY (MAHARASHTRA)
2. MSME-DI: MUMBAI (MAHARASHTRA)

Visit : www.msme.gov.in ; www.dcmsme.gov.in ; www.champions.gov.in



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Ministry of
MSME



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REF: TKY/E – 1024 / 2024 -25

Date : May 28, 2024

Pt. Ravishankar Shukla University
Amanaka G.E.Road,
Raipur
Chhattisgarh – 492010

Attn: Head (School of Studies in Electronics & Photonics)**Sub: Printed Circuit Board (PCB) Design / Fabrication & Training Lab – Basic PCB Lab**

Dear Sirs

We are glad to introduce to you our range of PCB Lab Equipment for Engineering Colleges. For Electronics / Electrical / Instrumentation / Communications Departments, in all Engineering colleges and Polytechnics, a PCB lab is an essential part of Expansion and up gradation of facilities. Students get a "hands-on" experience in PCB design & production.

We supply all our labs on a turnkey basis. This involves delivering all machines, chemicals, and installing the lab. Also training your lab in charges to use and maintain the machines. On receipt of an order, we send customer's a lab layout , and any additional information required for setting up of a lab. We are enclosing detailed catalogs of our products.

Our customer list includes over 1,000 Research labs Engineering colleges and Polytechnics all India – including Defence / Space labs – OVER 190 Engineering Institutes in U.P. already use crescent PCB Labs (enclosed detailed user list for U.P.)

All orders should only be on **crescent graphics pvt. ltd.** – our manufacturing company.

We have quoted as follows:-

Basic PCB Lab – This is a VERY basic PCB Lab that can allow students to learn step – by – step process in manufacturing single sided PCBs— circuits that may be designed in-house by Researchers for Projects / Workshop etc. This is the Basic PCB Lab used by all Polytechnics / Engineering Colleges.

Please note the offer includes

- Machines for Basic PCB making
- Chemicals & Consumables for Startup of Lab –e stock. We stock all Consumables and the same can be ordered as and when you need the same.
- Installation / Commissioning of full lab – including engineers visit and 2 days demonstration
- Freight / door delivery charges to your institute.

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crescent graphics pvt. ltd.

- 1 year warranty
- Validity of Proposal – For PO received BEFORE 31st July 2024 ONLY.
- A Proprietary certificate is enclosed - which all Government Polytechnics / Engineering
- Colleges ask for as this PCB Lab with our 1,000 customers all-India is a proprietary item of
crecident – **We are a Government Certified MSME small – scale manufacturing unit.**

At the time of supply our PCB Technician will Install and demonstrate the PCB Lab – and also hold a small Workshop of the 2nd day on “How to Make PCBs” where your college Staff and Researchers - can be trained.

All quoted PCB Lab equipment and chemicals should be purchased for complete PCB Lab making process - installation and demonstration.

Our detailed catalogue of the PCB Labs is also enclosed

Yours sincerely,

for : crecident graphics pvt. ltd.

Gautam Joshi
(Director)



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09/12/2024

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REF: TKY / E – 1024 / 2024 -25


Date : May 28, 2024

Pt. Ravishankar Shukla University
 Amanaka G.E.Road,
 Raipur
 Chhattisgarh – 492010

Attn: Head (School of Studies in Electronics & Photonics)

Sub: Printed Circuit Board (PCB) Design / Fabrication & Training Lab – Basic PCB Lab

Sr. No.	Description	Unit Price (Rs.)
(1)	<p>PROTO-CONTACT – PCB Artwork Film maker The Proto-Contact is a tabletop unit which serves as a Negative making contact printer as well as an illuminated Artwork table for Circuit Artwork taping and Inspection of Films and Negatives . Avoiding expensive cameras , the user can directly make Negatives from 1X scale artworks. It has a working area of 300 mm X 250 mm (12 " X 10 ") with diffused light , and a push button operated exposure. The overall dimensions are : 380 mm X 230 mm X 330 mm . Electrical Power: 230V/50Hz, 5A Socket required</p>	PRICE RS.: 19, 500.00
(2)	<p>PHOTO RESIST DIP COATING MACHINE The Machine is table top and compact. A single Operation unit designed for coating of laminates with Photoresist. The machine ensures uniform controlled thickness of Photoresist on copper clad * Max Board size - 250mm x 300mm (10 x 12") * Rectangular Tank Capacity : 2 litres. * Dips one PCB at a Time * Electrical Power: 230V/50Hz, 5A Socket required</p>	PRICE Rs.: 24,000.00
(3)	<p>PROTO-ETCH ETCHING MACHINE For fast single and double sided PCB etching. Useful etching area : 250mm x 300mm (10' x12"). Tank Capacity : 10 Litres. Includes a heater and air flow compressor. All construction materials are corrosion free. Heater : Titanium – non corrosive with thermostat control Timer : 0 - 4.0 minutes Electrical Power : 230V/50Hz, 5A Socket required</p>	PRICE Rs.: 25,000.00
(4)	<p>PCB DRILLING MACHINE (PROTODRILL - 3000) A compact tabletop High speed PCB drilling machine with a Quick Change Chuck</p> <ul style="list-style-type: none"> • Drill holding by precision chuck with lapped jaws • Mains operated DC motor – Direct drive (no belt and pulley) • 3 Step Speed Control • Illumination of Work Area <p>Technical Data Motor Speed : 12,000 - 20,000 R.P.M. Range : 0.6 to 3.0 mm Base : Metal Working Area : 280 mm X 170 mm</p>	

Wish
7/June/24


Electrical Power: 230V/50Hz, 5A Socket required

PRICE Rs.: 25,000.00

(5) PCB SHEARING MACHINE - Slash - 300

Benchtop Guillotine type shearing machine to cut PCB's and Laminates. Compact structure with central handle allows ease of cutting. Width : 300mm (12 ") Size : 400mm X 350mm
Tabletop unit with 4 sided blade (High – carbon / High Chrome)

PRICE Rs.: 24,000.00

(6) ULTRA-VIOLET EXPOSURE SYSTEM (Single Sided)

For exposure of photosensitive PCBs
U.V. Tubes : 4 Nos X 8 Watts Actinic tubes
Tube Length : 300mm (12")
Area : 300mm x 255mm(12" x 10")
Contact : Pressure Type
Timer : 0 - 4.0 minutes
Electrical Power: 230V- 50 Hz, 5A Socket required
Chokes : Electronic Type

PRICE Rs.: 28,000.00

(7) PROTOCURE - 2 / PCB Curing machine (Oven)

Tabletop unit for curing of liquid photoresist. Timer controlled heating system allows fast and efficient PCB curing.
PCB Size : 250mm x 300mm (10' x12").
Heating : Heaters with thermostat controls
Timers : Preset timer
Electrical Power: 230V / 50Hz. 5A Socket required

PRICE Rs.: 24,500.00

(8) PCB Design Inspection etc. Facility

(a) PCB Drafting Aids Kit

Tapes, pad and other materials for making PCB Artworks for making PCBs.

PRICE Rs.: 8,500.00

(b) ARTWORK TABLE (Illuminated)

Tabletop artwork and PCB inspection table with bottom illumination and diffused light. Area for work: 10" X 14"

PRICE Rs.: 8,750.00

(9) CHEMICALS FOR THE ABOVE PCB MACHINES

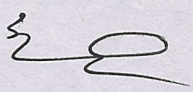
I Board Preparation & Cleaning

1) Single Sided PCB Laminate Nos 5
 Paper Phenolic 300x 300mm(1 x 1 feet)

II For Dark Room

1) Safe Lamp Unit 1
2) Lith Film 250 x 300mm (10 x 12") Nos 10
3) Lith Film Developer A&B(5 Ltrs) Pkt 1
4) Lith Film Fixer Bottle 1
5) Developing Trays Nos 3

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III For Photoresist Dip Coating Machine

1) Liquid Photoresist	Litres 2
2) Photoresist Thinner	Litre 1
3) Photoresist Developer	Litre 5
4) Photoresist Dye	Litre 5

IV For Etching Machine

1) Etching Crystals	Kgs 5
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V For PCB Drilling Machine

Drill Bits	
1) 0.80mm	Nos 2
2) 1.00mm	Nos 2

PRICE Rs.: 46,250.00

Equipment and Chemicals Net Rs.: 2, 33, 500.00

Plus Freight Charges DOOR DELIVERY Rs : 6, 000.00

Plus PCB Technician visit Charges 2 days Rs : 9, 000.00

(Includes Fare / Internal Conveyance / Hotel Boarding & Lodging etc.)

Sum Equipment and Chemicals Rs.: 2, 48, 500.00

GST @ 18% Extra Rs.: 44, 730.00

Net Equipment and Chemicals Rs.: 2, 93, 230.00

Terms & Conditions

- 1) GST @ 18% Extra as mentioned on machines, chemical, freight and installation
- 2) Local Taxes / Entry Tax etc. Extra if applicable at consignee location.
- 3) Prices ex-works, unless mentioned otherwise.
- 4) Packing - included
- 5) Freight / Installation / PCB Technician Visit charges / Demonstration – EXTRA
- 6) Delivery : Within 6 weeks for Basic lab from PO & Advance payment receipt.



With

- 7) All orders require 90 % payment on Delivery. 10% within 30 days of delivery & installation
- 8) Validity: Price valid for all PO's received BEFORE 15th August 2024 ONLY

HSN Code: 84590000

Please deposit advance with PO - in any

HDFC Bank Limited branch in favour of
crescent graphics pvt. ltd.
Fort Branch Mumbai
Account # : 502 000 5323 1031
RTGS / NEFT / IFFC Code:
HDFC 0000060

for : **crescent graphics pvt. ltd.**

Gautam Joshi
(Director)



Our GST No : 27AAACC1975F1ZS

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Over 1,000 crescent Printed Circuit Board (PCB) labs / all – India !!!

Over 55 institutes in Madhya Pradesh / Chattisgarh use crescent PCB Labs - including:-

Rustamji Institute of Technology	Gwalior	Madhav Inst of Tech & Sc.	Gwalior
Institute of Inf. Tech & Mgmt	Gwalior	DAVV Inst of Technology	Indore
Korba Polytechnic	Korba	Rungta College of Engineering	Bhilai
Maulana Azad N.I.T	Bhopal	L.N.C.T	Bhopal
Barkatullah University (UIT)	Bhopal	Chouksey Engg. College	Bilaspur
Military College of Telecom Engg.	Mhow	J.N.C.T	Bhopal
SATI Polytechnic	Vidisha	Swami Vivekananda Coll of Engg.	Indore
Jaypee Institute of Technology	Guna	M.P. Christian College of Engg	Bhilai
Technocrats Inst. of Tech. (2 labs)	Bhopal	Gyan Ganga Institute of Tech.	Jabalpur
Shri Ram Institute of Tech.	Jabalpur	Shri Vaishnav Inst of Tech & Science	Indore
Central Coll. of Engg & Mgt	Raipur	Institute of Technology & Mgmt	Gwalior
Ashoka Institute of Technology	Rajnangaon	M.J.P. Govt. Poly. College	Khandwa
L.N.C.T	Indore	Acropolis Inst. of Technology	Indore
Star Academy of Technology	Indore	Gyan Ganga Inst. of Tech.	Bhopal
Parthivi College of Engineering	Bhilai	Dev Sanskriti College of Engg	Bhilai
Garv Institute of Mgmt & Tech.	Bhilai	Professional Inst. of Engg & Tech	Raipur
N.I.T.	Raipur	Vikrant Institute of Technology	Indore
Medi-Caps Institute of Sci & Tech	Indore	Chattisgarh Engg College	Durg
TRUBA Inst. Eng Infor. Technology	Bhopal	Sanghvi Innovative Academy	Indore
AISECT	Bhopal	Government Polytechnic	Jagdalpur
Swami Vivekanand Inst. Technology	Sagar	Laxmi Narayan Inst. Of Technology	Gwalior
L.N.C.T	Jabalpur	Radharaman Institute of Tech & Sc.	Bhopal

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crescent graphics pvt. ltd.

ITM University	Gwalior	Pragati College of Engineering	Raipur
Amity University	Gwalior	People's College of Research & Tech.	Bhopal
IITDM	Jabalpur	Government Engg. College	Jagdalpur
IIT	Indore	Government Polytechnic College	Morena
Government Engg. College	Sagar	Government Girls Polytechnic	Rajnandgaon
Govt. Polytechnic College	Khairagarh		

Contact us for :

- 1) **Printed Circuit Board Lab** (workshop for Electronics / ETC / E & C / Instrumentation)
- 2) **Advanced Printed Circuit Board Lab** - with Plated-Thru-Hole (PTH) Add-on Module
- 3) **Microwave Circuits fabrication lab** (Upgrade your MIC Lab)

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