

# Ethical Hacking Brochure

## ISOAH

Indian School Of  
Anti Hacking

[www.isoah.com](http://www.isoah.com)

Cyber Security Training in Kolkata at  
CERT-In Empaneled Audit Firm



*Dr. B.C.Roy Engineering College, Durgapur*

Dedicated to 'Quality Education'

Affiliated to MAKAUT | Approved by AICTE | NBA Accredited\* | NAAC | NIRF Ranked

Get Taught By Professional  
**HACKERS**



ISO 27001 : 2013 & ISO 9001 : 2015 Certified by BSI

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Accredited Training Center

## **CONTENTS:-**

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India needs about  
**77,000**  
Ethical Hackers &  
**5 Lac**  
Cyber Security  
Professionals  
every year\*

**We currently have only 50,000.**  
There is an acute deficit of skilled  
cyber security professionals in the  
industry. The demand will rise with  
Digital India & Industry 4.0 drive.

Are you ready for the  
**OPPORTUNITY?**

\*NASSCOM Report



ISOEH is  
**India's  
Top  
Cyber  
Security  
Training  
Institute**  
in Kolkata, Siliguri &  
Bhubaneswar

We're specialized in Ethical Hacking,  
Cyber Security, Digital Forensic,  
Penetration Testing, Networking,  
Reverse Engineering & Malware  
Analysis

**Since 2011**  
we are putting an effort to  
impart in-depth  
**IT Security**

know-how to fresher as well as  
senior working professionals



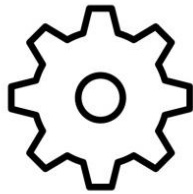
We are  
**ISO  
27001 : 2013  
& 9001 : 2015  
Certified**  
BY BSI



We are  
**MEMBER OF  
NASSCOM,  
DSCI, CII**



We are  
**WB**  
**PARTNER OF**  
**MAKAUT**  
*(Maulana Abul Kalam Azad University of  
Technology, WB)*  
and in Collaboration with  
**CCPTR**



We are  
Eastern India's  
**Oldest &**  
**Largest**  
**EC-Council**  
Accredited Training & Global Exam  
Center



We are  
**First to**  
**Offer**  
**BSc**  
and PG Diploma in  
**Digital Forensic and Cyber  
Security**



**Faculties**  
are Working Professionals with  
15-20 Years Experience, who are  
**Ethical Hackers, Penetration  
Testers and ISO 27001 Lead Auditor  
Lead Auditors with OSCP, SCP, OSCE,  
LPT, CEH, ECSA, CHFI, CCNA.**  
**Learn the Skills & Be Job  
Ready with Live Projects.**



Classes are 100%

## Practical and Interactive

**Tools & Books:** Latest tools and books will be provided.

**No Language Barrier:** Taught by Bengali, English & Hindi speaking faculty.

**Flexibility:** Live online class, classroom training, weekday and weekend batches available.

**Hacking Lab:** Faculty help you to build up your own hacking labs in your laptop with our VMs, Tools, software; where you can practice.

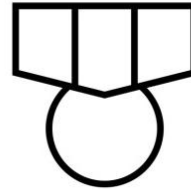


We offer Superior

## Assistance to our successful students.

**We will help you with:**

- Drafting your CVs
- Preparing you for interviews
- Put you into Campus placement



Besides this we conduct various in-house Cyber Security competition such as

## Hackathon with Prize Money for our Students



Campus

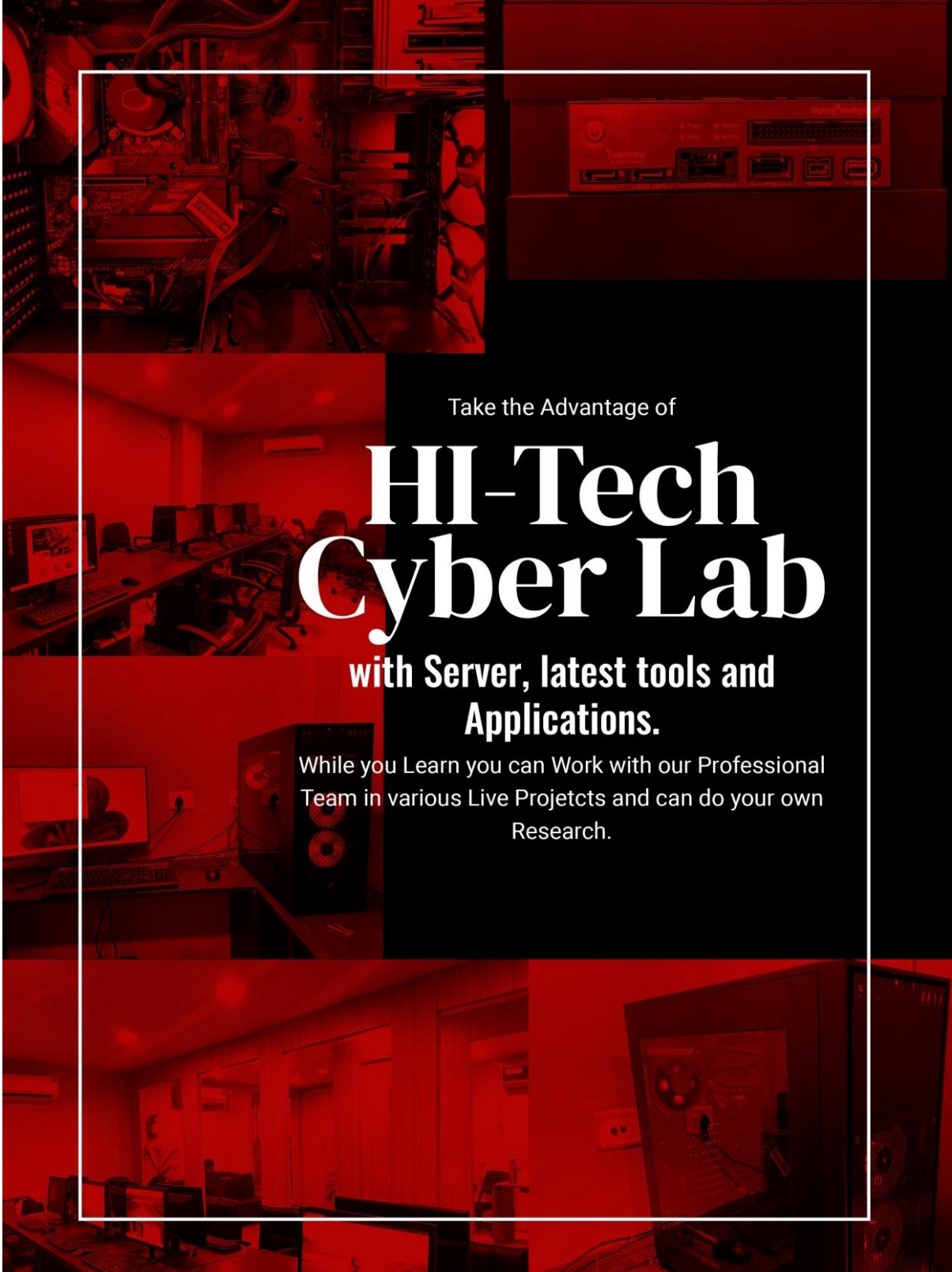
## Placement

available for our students.

**Our Students are recruited by  
MNCs Government  
Organization**

such as **Intel, PwC, Tata  
Consultancy Services, Cognizant,  
Kolkata Police, CID and more...**





Take the Advantage of

# Hi-Tech Cyber Lab

with Server, latest tools and  
Applications.

While you Learn you can Work with our Professional  
Team in various Live Projetcts and can do your own  
Research.

## **WHY STUDY ETHICAL HACKING? KNOW THE DETAILS**

Ethical Hacking is also called Penetration Testing. It is an act of intruding/ penetrating into the system or network to discover threats and vulnerabilities which a hacker may find and exploit leading to loss of data, money etc. The purpose of ethical hacking is to tighten the security in the system by solving the vulnerabilities found. Ethical hacker's modus operandi is the same as the criminal hackers but with the permission of the authorities.

Studying ethical hacking can provide several benefits, including:

1. **Cybersecurity:** With the increasing dependence on technology and the internet, the need for cybersecurity is paramount. Studying ethical hacking can provide a solid understanding of cybersecurity, allowing you to identify vulnerabilities in systems and networks and develop strategies to prevent cyberattacks.
2. **Career opportunities:** As the threat of cybercrime increases, the demand for skilled ethical hackers is also on the rise. Studying ethical hacking can open up several career opportunities, including security analyst, penetration tester, and network security engineer.
3. **Business protection:** Ethical hacking skills can also benefit businesses, as they can help protect against cyberattacks, data breaches, and other security threats. By identifying vulnerabilities before malicious hackers can exploit them, ethical hackers can help businesses protect sensitive data and maintain customer trust.
4. **Legal and ethical understanding:** Ethical hacking involves ethical and legal considerations that must be taken into account when performing security assessments. Studying ethical hacking can help you understand the legal and ethical implications of your actions and ensure that you comply with relevant laws and regulations.
5. **Personal protection:** Studying ethical hacking can also help you protect your own personal information and devices from cyber threats, as you will gain a better understanding of how to identify and prevent attacks.





**5.0**  
Course Rating

[View All Reviews »](#)

**5800+**

Students Enrolled and Counting...

[Full List of Alumni »](#)

## Why learn Ethical Hacking?



Knowing the  
**Hacking Psychology**

[Course Syllabus »](#)



Regulatory compliance in terms of  
**Corporate Data Breaches**



Professional  
**Development**



Job advancement and  
**Specialization**

[Jobs »](#)



### Duration

40 hours - 2 classes per week



### Eligibility

1. Basic Knowledge of Database, Server-side Programming (PHP or JSP or ASP.net) and Basic knowledge of Networking.
2. If you do not have the above knowledge, please complete our "INDUSTRY READY" Course to be eligible.



### Course Fees

#### Class Room Training

Rs. 14,500/-  
Inclusive of all taxes

#### Online Training

Rs. 24,500/-  
Rs. 14,500/-  
Inclusive of all taxes

## What You Will Get?

### 40 Hours

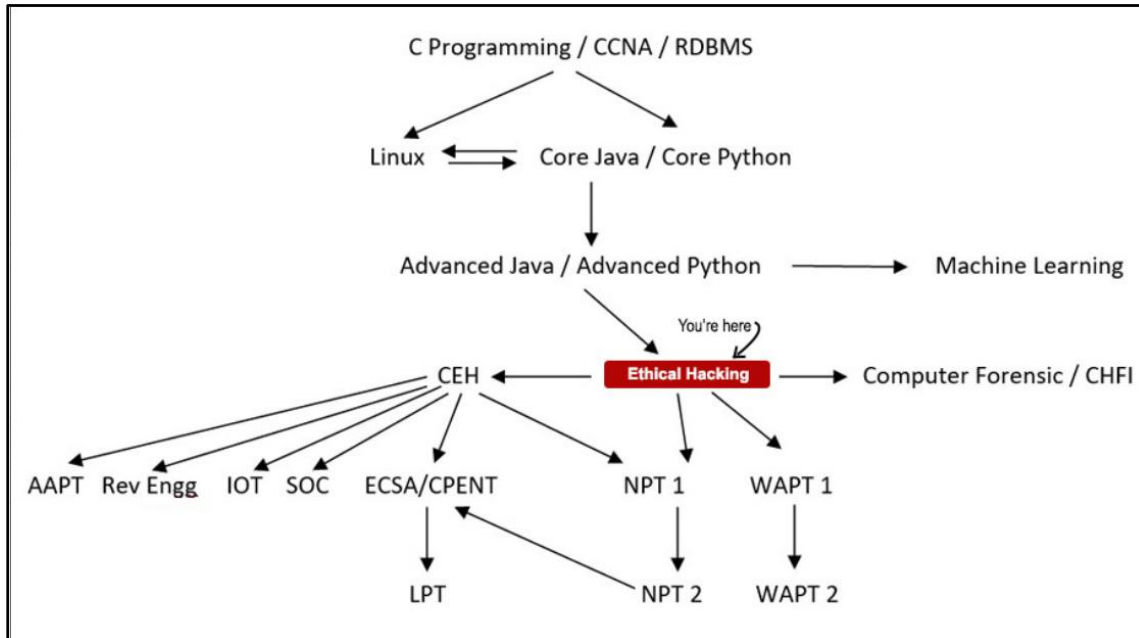
of in depth training by the best cyber security experts

### Study Materials

### Ethical Hacking

Certificate of Completion after examination and alumni status

## YOUR COURSE PATH:



## **COURSE DETAILS:**

### **Module 1:2 Hours - 3 Topics**

- Introduction: **(Day 1)**
  - What is Ethical Hacking
  - What are the different types of hackers
  - Five phases of hacking
  - Scope of Ethical Hacking
- Brush up Linux (Optional) **(Day 1)**
- Brush up networking (Optional) **(Day 1)**

### **Module 2:2 Hours - 3 Topics**

- Information Gathering: **(Day 2)**
  - Passive Information Gathering
  - Active Information Gathering
  - Five phases of hacking
  - Scope of Ethical Hacking
- Brush up Linux (Optional) **(Day 2)**
- Brush up networking (Optional) **(Day 2)**

### **Module 3:2 Hours - 1 Topic**

- Scanning **(Day 3)**

### **Module 4:2 Hours - 1 Topic**

- System Hacking: **(Day 4)**
  - Introduction to Metasploit Framework
  - Exploit MS17-010 Vulnerability
  - Reverse TCP Connection

### **Module 5:2 Hours - 1 Topic**

- System Hacking (Cont.): **(Day 5)**
  - Privilege Escalation using post exploit bypassuac and getsystem
  - Reverse connection in different network using port forwarding
  - Android hacking using reverse TCP connection

### **Module 6:2 Hours - 1 Topic**

- System Hacking (Cont) **(Day 6)**
  - Show software based vulnerabilities (Badblue/iceblaster)

### **Module 7:2 Hours - 1 Topic**

- System Hacking (cont) **(Day 7)**
  - Introduction to Active Directory
  - Explain OU, DC, TREE, FOREST
  - Explain LDAP
  - Explain how AD works
  - Explain smb share
  - Explain SPN

## Module 8:2 Hours - 1 Topic

- System Hacking (cont) **(Day 8)**
  - Introduction to Kerberos
  - Explain how Kerberos works (Authentication Server, Ticket Granting Server, TGT etc)
  - Explain Kerberoasting attack
  - Mention
  - ASREPROASTING
  - Golden Ticket

## Module 9:2 Hours - 1 Topic

- System Hacking (Cont.): **(Day 9)**
  - Malware (Different types of Malware, Virus and Trojan)
  - AV bypass

## Module 10:2 Hours - 2 Topics

- Sniffing using Wireshark **(Day 10)**
- Man In the Middle Attack using the concept of ARP poisoning **(Day 10)**

## Module 11:2 Hours - 2 Topics

- Cryptography **(Day 11)**
  - Symmetric Encryption Algorithm
  - Asymmetric Encryption Algorithm
  - Hash Algorithm
- Steganography **(Day 11)**

## Module 12:2 Hours - 1 Topic

- Wireless Attacks **(Day 12)**
  - Explain WiFi attacks (Deauth packets)
  - Explain WiFi 4 way handshake
  - Explain the attack scenario and procedure
  - Explain fake access point attacks

## Module 13:2 Hours - 1 Topic

- Website Attacks **(Day 13)**

## Module 14:2 Hours - 1 Topic

- Website Attacks(cont) **(Day 14)**
  - Explain XSS attacks
  - Explain different types of XSS attacks
  - Prevention

## Module 15:2 Hours - 1 Topic

- Website Attacks(cont) **(Day 15)**
  - Explain sql injection attacks
  - Explain different kinds of sql injection attacks
    - error based

- boolean based
- union based
- Mention: blind/time based
- Prevention

#### Module 16:2 Hours - 1 Topic

- Website Attacks (cont) **(Day 16)**
  - Explain CSRF attacks and prevention
  - Explain cookie stealing, session hijacking
  - Show a login brute force example
  - Talk about how to prevent such attacks

#### Module 17:2 Hours - 1 Topic

- Website Attacks (cont) **(Day 17)**
  - Show data tampering attacks
  - Phishing Attack
  - File upload vulnerability

#### Module 18:2 Hours - 1 Topic

- IOT Hacking (cont) **(Day 18)**
  - Explain various attack vectors in IOT hacking

#### Module 19:2 Hours - 2 Topics

- DOS and DDOS attacks **(Day 19)**
- Cloud based attacks: **(Day 19)**
  - Explain cloud based attacks vectors

#### Module 20:2 Hours - 2 Topics

- IDS **(Day 20)**
- IPS **(Day 20)**

# ISOEH FACULTY

<u>Name</u>	<u>Academic Qualification</u>
<b>Sandeep Sengupta</b>	CISA, Lead Auditor, 24 years' experience as an ethical hacker.
<b>Somdeb Chakraborty</b>	M.Sc in Computer Science (CEH, CCNA, CHFI)
<b>Saumitra Biswas</b>	M.Tech CS, MSc Statistics, expert - AI / ML & Data science
<b>Saugata Sil</b>	MCA, Certified Ethical hacker
<b>Debasmita Basu</b>	MSc Forensics (Makaut - P)
<b>Arindam Manna</b>	B.Tech CS, IoT security expert
<b>Pankaj Kumar Roy</b>	Expert - Network, AWS; 7 years of industry experience
<b>Partha Pratim Chakraborty</b>	BSc - CS, Cyber Security Expert, CEH
<b>Tanay Bag</b>	MSc, Cyber Security expert
<b>Saptarshi Kundu</b>	BSc CS (CU), IoT security expert, exploit writer
<b>Anirban Sarkar</b>	MCA, Cyber Security expert





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**Recruitment Lists**



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PwC India



Apple Inc.



Cognizant

Cognizant



TATA CONSULTANCY SERVICES  
TATA Consultancy Services Limited



Ernst & Young

J.P.Morgan

J.P. Morgan & Co.

ORACLE

Oracle



CID West Bengal



Kolkata Police  
Lalbazaar Cyber Cell

# ISOEH ALUMNI



**Anirban Bhattacharya**  
Python Programming - TCS



**Sanjeev Kr Sumbria**  
CHFI - Indian Army



**Yashajeet Chowdhury**  
CEH - Microsoft



**Anoma Barua**  
LPT - SAP LABS, USA



**Partha Basu**  
Computer Forensic - West  
Bengal Police, Kolkata



**Krishnapriya Neema**  
Digital Forensic - Rackbank  
Datacenters



**Tathagata Banerjee**  
CEH, CCNA - Dell



**Ravindra Singh**  
CHFI - HSBC HDPI



**Sourajyoti Bose**  
Oracle

**1000+ and more...**

# We have received Prestigious **AWARDS**



**Best entrepreneur award from Hon'ble Minister of Finance (WB), Dr. Amit Mitra** for Information Security startup, on behalf of BCCI



**ISOAH Director Mr. Sandeep Sengupta awarded as Top 100 CIOs in India by VARINDIA.** Announcement of Awards of Eminent CIOs of India (ECIO) at 18th Infotech Forum 2020



**ISOAH got the award for best Auditor Firm in East India** by ITPV media & TechPlus Media - ITVARNEWS

# ISOEH Organized & Participated in various EVENTS



**Seminar for the journalists** of eminent newspapers and media houses of Siliguri on "Hi-tech Cybercrimes and the preventive measures and safety tips against them"; by our Director Mr. Sandeep Sengupta, Shri Sanjay Kumar Das (WBCS), Jt. Secretary –



IT & E, State Information Security Officer, West Bengal along with Mr. Nirupam Chaudhuri – Head NASSCOM (Eastern India).

**GROUND ZERO** - North Bengal Cyber Security Challenge (Hackathon) - 2022



**ISOEH Organized a Press Conference** at The Press Club, Kolkata on Recent Hi-Tech Cyber Crimes and Preventive Measures Against those Crimes. All the eminent newspapers and media houses were present to cover the show. The main attraction of the conference was: Car Hacking Live Demo at a low cost of 5k to 6k; Tracking Frequency of Flights; BSc. degree courses like digital Forensics and its advantages shortly; and launching of hi-tech digital forensics lab for first time in Eastern India.



**Cyber Security Awareness Rally** Walk at Salt Lake Sector-V, Kolkata on National Computer Security Day



**Ground Zero & Cyber Shikshak** at ISOEH Siliguri Centre, March 2021



**BCCI Entrepreneurship Conclave & Award 2020-21**

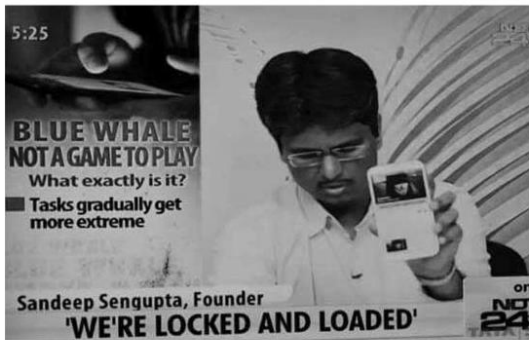


**International Conference in Kolkata IEEE**



# Our Cyber Security Experts on **TELEVISION**

ISOEH Director Sandeep Sengupta & Cyber Expert Samyajit Mukherjee in the discussion panel on



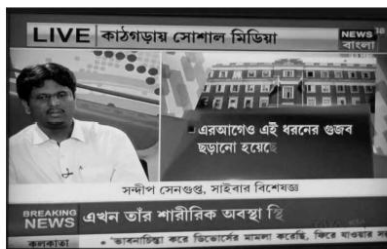
NDTV



Zee 24 Ghanta



ABP Ananda



News 18 Bangla



News18 Bangla



India Today



TV9 Bangla



ABP Ananda





# ISOEH CORPORATE CLIENTS



# ISOEH CONTACT

## ISOEH Saltlake Office

(An unit of ISOAH Data Securities Pvt. Ltd.)



SDF Building, Module - 335, 2nd Floor, Sector - V, Saltlake City, Kolkata - 700091. (Near SBI ATM, opposite to Cognizant / Infinity)  
8am - 7pm (7 days open)



For all queries:

**Mobile: +91 9903767814**  
**+91 8100103831**  
**+91 9007392360**

All Days - 8am to 7pm



[sandeep@isoeh.com](mailto:sandeep@isoeh.com)

## Durgapur Branch Office



CA/19, Urvashi Ph-2 Adda, Bengal Ambuja City Centre, Durgapur, West Bengal - 713216



For all queries:

**Mobile: +91 8100442843**  
**+91 9830310550**



[sandeep@isoeh.com](mailto:sandeep@isoeh.com)

## Siliguri Branch Office



Baghajatin Park Main Road, Sub-Registry Office Building, 1st Floor, District - Darjeeling, Siliguri, West Bengal - 734001 (Beside Axis Bank)



For all queries:

**Mobile: +91 9007392360**  
**+91 9830310550**



[sandeep@isoeh.com](mailto:sandeep@isoeh.com)

## Bhubaneswar Branch Office



Plot Number 23, 2nd Floor, Lane Number 2, District Center, Chandrasekharpur, Bhubaneswar, Odisha - 751016 (Near ICICI Bank)



For all queries:

**Mobile: +91 8100442829**  
**+91 9007392360**



[sandeep@isoeh.com](mailto:sandeep@isoeh.com)



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