Expression of Interest for RFQ and MOU with CTTC Kolkata for the Joint development of 1 year Certificate Course on Industry 4.0(with IIOT& AI &ML& Data Analytics& cyber security interoperability in various industry ready platforms) for our aspiring student. The Criteria for participation in EOI for RFQ is as under

1. Interested companies should have not less than 20-25 developers at single premise
2. Experience in IOT platforms should be at least more than 10 years.
3. Should have proven credential in developing IOT based devices for banking sector, government sector, corporate sector for at least over 10 years.
4. Should have support office across India.
5. Previous work exposure with government or PSUs for high security projects will be given preference.
6. Previous work exposure with high end corporate clients in IOT domain will be given preference.
7. Last 5years audited annual accounts may be submitted and turnover of firm should not be less than 2.5Cr.
8. Interested parties may mail RFQ(With all relevant documents in support of their candidature) in Word/pdf format to the following email IDs addressed to the General Manager CTTC Kolkata, not later than 23rd January,2024.
   debdutta.guha@msmetoolroomkolkata.com and cttc-msme@gov.in
   also hard copies of the same may be sent by post to the following address-
   CTTC Kolkata
   Bonhooghly Indstrial area, Kolkata- 700108.
   The envelope should be addressed to General Manager CTTC Kolkata & superscribed in bold as “RFQ for joint project venture on IOT as per EOI of CTTC Kolkata”.
   The Documents should reach CTTC Kolkata latest by 25th January,2024(Applications received after this date may not be considered).

THE SCOPE OF THE PROJECT AS PER EOI

To develop a 1year certificate course on IIOT & Industry4.0 & Data analytics & computing & AI & ML

1. IOT based Industrial Training on Industry 4.0
2. Development & Design of IOT based devices for Banking Sector, government 7 corporate sector & upcoming areas like EV
3. AI Based Courseware development
4. Arduino, Raspberry pi, Microcontroller integration with AI & IOT
5. IOT Communication protocols MQTT, CoAP, HTTP & others, detailed module development
6. Wireless standards like Wi-Fi, Bluetooth, Zigbee, LORA, & data cellular networking
7. Programming module development for embedded system using C, C++, Python
8. Firmware Development from decision level for IOT devices for Industry & Office automation
9. Syllabus of courseware and module development with IOT platforms to facilitate device management, data storage & analytics (AWS IOT, Google Cloud IOT)
10. IOT protocol & Security principles
11. Implementation(design) of secure communication & device authentication
12. Big data handling/processing from data generated From IOT devices.
13. IOT based data extraction & analysis
14. Rapid prototyping of IOT solution
15. Interoperability standard to ensure seamless communication between different IOT Platforms
16. Integration of AI & ML algorithm for intelligent decision making in IOT applications
17. Awareness of regulation & standards relevant to IOT ensuring compliance to privacy & security
18. Cyber Security & encryption
19. AI based PLC and DCS Integration
20. AI Integration with manufacturing/Industrial Robotics
21. OJT in smart industries