Terms of Reference

Basic Infrastructure Development of Sheikh Hasina Institute of Frontier Technology *(SHIFT) Project*

Management of Training in Bangladesh and Foreign (International)

EOI No : 56.02.0000.031.16.032.22-31

Smart Bangladesh is a vision for transforming the country into a technologically advanced, sustainable, and livable nation. It involves using digital technologies, data analytics, and innovative solutions to improve the quality of life for citizens, enhance economic growth, and promote sustainability.

Smart technology is at the core of building a smart Bangladesh. Individuals with skills in software development, artificial intelligence, machine learning, data analytics, and other areas of technology will be essential in creating and implementing smart solutions. Effective communication skills are necessary for smart city development. Individuals with skills in communication, public relations, and journalism can help raise awareness about smart city initiatives, engage citizens in the process, and ensure transparency in the development process. Strong leadership skills are essential for managing and coordinating the various stakeholders involved in smart city development. Leaders with skills in project management, team-building, and strategic planning can help ensure that smart city projects are completed on time, within budget, and with the desired outcomes.

Entrepreneurs can play a vital role in building a smart Bangladesh by identifying opportunities for innovation and developing new solutions to address challenges. Individuals with skills in entrepreneurship, innovation, and business development can help bring new ideas to the market and drive economic growth. Smart city development should be environmentally and socially sustainable. Individuals with skills in environmental science, sustainability, and social responsibility can help ensure that smart city projects are designed and implemented in ways that are environmentally friendly and socially responsible. Smart cities are data-driven, and as such, require individuals with skills in data analysis, management, and security. Data scientists, statisticians, and cybersecurity experts are all critical for the development and maintenance of smart city infrastructure.

The Sheikh Hasina Institute of Frontier Technology (SHIFT) is a research institute focused on developing advanced technologies in Bangladesh. It is named after Hon'ble Prime Minister of

Bangladesh, H.E. Sheikh Hasina. The institute will conduct research in a variety of areas, including artificial intelligence, biotechnology, nanotechnology, and renewable energy. The goal of the SHIFT project is to establish a world-class research institute that will help drive the development of frontier technologies in Bangladesh and contribute to the country's economic growth and development. The project involves building infrastructure to support the research activities of the institute, including labs, offices, and other facilities. It may also involve the acquisition of equipment and other resources needed to support the research being conducted at the institute.

It will be a specialized learning center focusing on students from secondary school level to help them develop the advanced skills required for 21st century ICT Industry. The Institute will also have a future-looking R&D Center where students and researchers from Universities and Industry can collaborate in cutting edge research. It will provide world class research facilities to facilitate the creation of IP in various frontier technologies.

The services include BHTPA hiring training services to deliver the selected courses related to the 4th Industrial Revolution and Smart Bangladesh.

➢ Provide qualified trainers/experts to conduct quality training programs both local and foreign which will enhance better employability skills of the candidates.
➢ Need to conduct prescribed duration of courses (both local and foreign). It will vary according to the course requirement, but the minimum duration shall be 3 months.
➢ Ensure certification of trainees through test at the end of the training program.
➢ Training must be of an international standard and the training providing institute shall be ranked within the top 30 in the world.
➢ Post training, the Training Provider shall ensure that the trained candidates are able to pass the assessment test.
➢ Selection of students (graduates) as per the criteria of the training providing institute.
➢ For foreign training arrangement of visa, flight tickets, insurance (if required), transportation, housing facility, food, and all others.
➢ A comprehensive training curriculum covering all aspects of robotics, big data, machine learning, chip design, blockchain.
➢ International Security and forensic related training with certifications.
➢ For local training trainer shall come from the selected institute to Bangladesh for providing training.