



## **SDG 17 - Partnerships to achieve the Goal**

### **Cross Sectoral dialogue about SDGs**

Karunya Institute of Technology and Sciences (KITS) actively advances Sustainable Development Goal 17 – Partnerships for the Goals through vibrant cross-sectoral dialogues, research collaborations, and strategic MoUs that connect academia, industry, research organizations, and international institutions. The university firmly believes that sustainable progress is attainable only through synergistic alliances that bridge disciplinary, institutional, and geographical boundaries.

In line with its Strategic Vision 2030 and Sustainability Roadmap, KITS has cultivated an extensive partnership ecosystem through international conferences, joint research initiatives, faculty development programmes, and industry-driven workshops. These platforms facilitate knowledge sharing, capacity building, and joint innovation, enabling impactful contributions toward global sustainability challenges.

The institution has signed multiple MoUs with foreign universities, national research bodies, and industry leaders to promote collaborative research, student and faculty exchange, and technology transfer. Initiatives such as the 2nd International Conference on Frontiers in Chemical Sciences, ICCVIoT'23, and the U.S. University Delegation Visit have expanded KITS's international research footprint and strengthened academic cooperation. Skill-based engagements like the HACCP Level-3 Training Programme and the Workshop on Real-time Streaming and APIs have further connected academia with industry, fostering innovation and employability.

Moreover, initiatives like the FDP on AI in Mechanical Systems and ICDCS'24 have facilitated interdisciplinary research and encouraged green and sustainable manufacturing practices. The Seminar on SDGs – Embracing the Change and Its Dynamics exemplified the institution's commitment to policy-relevant dialogue by integrating academic, industrial, and governmental perspectives on AI, IoT, and renewable technologies for sustainable solutions.

Through its sustained emphasis on MoUs, collaborative research, and global academic partnerships, KITS continues to strengthen its role as a catalyst for sustainable innovation, aligning its actions with SDG 17 – Partnerships for the Goals to foster shared growth and transformative impact at local, national, and international levels.

### **1. Cross-Sectoral Dialogues and Collaborations – KITS SDG Initiatives**

| Sl. No. | Event / Initiative                                    | Date                    | Details / Highlights | Nature of Collaboration           | SDG Mapping                                   |
|---------|-------------------------------------------------------|-------------------------|----------------------|-----------------------------------|-----------------------------------------------|
| 1       | 2 <sup>nd</sup> International Conference on Frontiers | 26.10.2023 & 27.10.2023 | Resource persons:    | Academia– Research– Collaboration | SDG 9 (Industry, Innovation & Infrastructure) |

|   |                                                                                                       |                         |                                                                                                                                                                                                                                                                                                                                                                |                                                 |                                                                                                                                      |
|---|-------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|   | in Chemical Sciences                                                                                  |                         | <p>1. Prof. Pierre H. Dixneuf from the University of Rennes, France</p> <p>2. Prof. Dr. Rene Michael Konigs from RWTH Aachen University, Germany</p> <p>Participants: 200 Researchers</p>                                                                                                                                                                      |                                                 | <p>SDG 12 (Responsible Consumption &amp; Production)</p> <p>SDG 17 (Partnerships for the Goals)</p>                                  |
| 2 | 1 <sup>st</sup> International Conference on Computer Vision and Internet of Things-2023 (ICCVIoT '23) | 07.12.2023 & 08.12.2023 | <p>Resource persons:</p> <p>1. Dr. Ines Chihi, University of Luxembourg, Luxembourg</p> <p>2. Dr. Deepak Mishra, Indian Institute of Space Science and Technology, Trivandrum, India</p> <p>3. Dr. Anastassia Angelopoulou, University of Westminster, UK</p> <p>4. Dr. Girijesh Prasad, Ulster University, Northern Ireland</p> <p>Total Participants: 58</p> | Academia–Research–Collaboration                 | <p>SDG 4 (Quality Education)</p> <p>SDG 9 (Industry, Innovation &amp; Infrastructure)</p> <p>SDG 17 (Partnerships for the Goals)</p> |
| 3 | U.S. University Delegation Visit                                                                      | 18.2.2024               | Hosted experts from 18 U.S. universities to explore collaborations in research, innovation, and Industry 5.0 technologies.                                                                                                                                                                                                                                     | International Academic Partnership              | <p>SDG 4 (Quality Education)</p> <p>SDG 9 (Industry, Innovation &amp; Infrastructure)</p> <p>SDG 17 (Partnerships for the Goals)</p> |
| 4 | HACCP Level-3 (Highfield Approved) Training Programme                                                 | 28.2.2024 & 29.2.2024   | Conducted with national agencies to strengthen skills in food safety and hygiene management.                                                                                                                                                                                                                                                                   | Academia–Industry–Skill Development Partnership | <p>SDG 2 (Zero Hunger)</p> <p>SDG 3 (Good Health &amp; Well-being)</p> <p>SDG 8 (Decent Work &amp; Economic Growth)</p>              |

|   |                                                                                            |                         |                                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                                                                                                                           |
|---|--------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Workshop on Real-time Streaming and APIs                                                   | 23.2.2024               | Delivered by NTT DATA (Netherlands) expert on API integration and real-time data processing.                                                                                                                                                                                                                                                                                       | Academia–Global Industry Collaboration   | SDG 4 (Quality Education)<br><br>SDG 9 (Industry, Innovation & Infrastructure)<br>SDG 17 (Partnerships for the Goals)                     |
| 6 | FDP on Applications of AI Techniques in Mechanical Engineering Systems                     | 5.2.2024 to 9.2.2024    | Resource Person:<br><br>Organized with the Technology Mission on Green and Sustainable Manufacturing to promote AI applications in mechanical design and manufacturing.                                                                                                                                                                                                            | Academia–Industry–Research Collaboration | SDG 9 (Industry, Innovation & Infrastructure)<br><br>SDG 12 (Responsible Consumption & Production)<br><br>SDG 13 (Climate Action)         |
| 7 | 2 <sup>nd</sup> International Conference on Robotics, Automation, and Intelligent Systems, | 19.4.2024               | Resource persons:<br><br>1. Prof Avital Bechar, a Scientist from The Institute of Agricultural Engineering, Agricultural Research Organization, Volcani Center, Israel<br><br>2. Dr Joseph Winston, PhD, Head of Remote Handling and Irradiation Experiments Division at Indira Gandhi Centre for Atomic Research (IGCAR), Chengalpattu, Tamil Nadu.<br><br>Total Participants: 70 | Academia–Research–Collaboration          | SDG 9 (Industry, Innovation & Infrastructure)<br><br>SDG 11 (Sustainable Cities & Communities)<br><br>SDG 17 (Partnerships for the Goals) |
| 8 | 7 <sup>th</sup> International Conference on Devices, Circuits and Systems - ICDCS'24       | 23.04.2024 & 24.04.2024 | Resource persons:<br><br>1. Dr. Anisul Haque (Chairperson, Department of Electrical and Electronic Engineering at East West University, Bangladesh)                                                                                                                                                                                                                                | Academia–Research–Industry Collaboration | SDG 7 (Affordable & Clean Energy)<br><br>SDG 9 (Industry, Innovation & Infrastructure)                                                    |

|   |                                                         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                                                                                                                        |
|---|---------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                         |            | <p>2. Dr. Porkumaran<br/>(Chairman, IEEE Madras Section, India)</p> <p>3. Dr. Mustapha Slamani<br/>(Distinguish Member of the<br/>Technical Staff at Global Foundries, USA)</p> <p>4. Dr. Subhash Chander<br/>(Scientist F, Solid state physics laboratory (SSPL), DRDO, India)</p> <p>5. Prof. Mario Lanza<br/>(Associate Professor, Materials Science and Engineering Program, King Abdullah University of Science and Technology (KAUST), Saudi Arabia)</p> <p>6. Mr. Wilson Pradeep<br/>(DFT lead and architect in Google, Mountain view, California, USA)</p> <p>Total Participants: 64</p> |                                     | SDG 17<br>(Partnerships for the Goals)                                                                                                 |
| 9 | Seminar on SDGs – Embracing the Change and Its Dynamics | 11.06.2024 | Focused on AI, IoT, blockchain, and renewable technologies for sustainable solutions and monitoring SDG progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Academia– Industry– Policy Dialogue | SDG 4 (Quality Education), SDG 9 (Industry, Innovation & Infrastructure), SDG 13 (Climate Action), SDG 17 (Partnerships for the Goals) |

## Evidences

### a. 2<sup>nd</sup> International Conference on Frontiers in Chemical Sciences - 26.10.2023 & 27.10.2023

The conference brought together 200 researchers and eminent resource persons including Prof. Pierre H. Dixneuf from the University of Rennes, France, and Prof. Dr. Rene Michael Konigs from RWTH Aachen University, Germany. The event facilitated discussions on sustainable

chemical innovations, green chemistry, and advanced materials, promoting cross-border academic collaboration. This initiative aligned with SDG 9 (Industry, Innovation & Infrastructure), SDG 12 (Responsible Consumption & Production), and SDG 17 (Partnerships for the Goals).



## b. International Conference on Computer Vision and Internet of Things (ICCVIoT'23)

The ICCVIoT'23 convened global experts including Dr. Ines Chihi (University of Luxembourg), Dr. Deepak Mishra (IIST, Trivandrum), and Dr. Anastassia Angelopoulou (University of Westminster, UK) to explore applications of computer vision, AI, and IoT. With 58 participants, the conference strengthened international research partnerships and encouraged the exchange of technological insights relevant to digital innovation. The initiative supported SDG 4 (Quality Education), SDG 9 (Industry, Innovation & Infrastructure), and SDG 17 (Partnerships for the Goals).



### c. KITS Hosts U.S. University Delegation for Global Collaborations

Karunya Institute of Technology and Sciences hosted a high-level delegation of 28 experts from 18 prestigious American universities, including SUNY Buffalo, University of Texas San Antonio, Arizona State University, George Washington University, and Saint Louis University, to explore collaborative opportunities in academic exchange, joint research, and Industry 5.0 innovations. The visit marked a milestone in promoting cross-border knowledge partnerships and advancing SDG 4 (Quality Education), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 17 (Partnerships for the Goals). Through this global engagement, Karunya reaffirmed its commitment to fostering innovation-driven learning and sustainable international cooperation.

## KARUNYA HOSTS DELEGATION FROM 18 U.S. UNIVERSITIES FOR COLLABORATIONS!



Karunya University interacted with 18 prestigious American universities for groundbreaking collaborations! A delegation of 28 experts from institutions like SUNY Buffalo, University of Texas San Antonio, St. Mary's University Texas, City University of Seattle, Clarkson University, Park University, Bryant University, Arizona State University, University of Wisconsin Stout, Penn College of Technology, University of Arkansas, Catholic University of America, Kennesaw State University, George Washington University, Marymount University, University of Utah, University of San Diego, Saint Louis University visited Karunya today. Together, they'll pioneer joint academic programs, research initiatives, and tech transfers in Industry 5.0. Stay tuned for innovation at its finest!

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### d. 2 Days Training Programme - HACCP Level – 3

As part of its commitment to fostering cross-sectoral dialogue and capacity building aligned with the Sustainable Development Goals (SDGs), the Division of Food Processing Technology initiated a two-day HACCP Level-3 (Highfield Approved) training programme. This initiative was designed to strengthen competencies in food safety, hygiene, and quality management, directly supporting SDG 2 (Zero Hunger), SDG 3 (Good Health and Well-being), and SDG 8 (Decent Work and Economic Growth). The department engaged with multiple national-level agencies—Aspire Training Research Consulting LLP (Ernakulam), TAK Safe Food Solution Pvt. Ltd. (Tiruppur), SGS Academy (Haryana), HGP Enterprise (Gujarat), and BSI Group India Pvt. Ltd. (Maharashtra)—to explore collaborative partnerships for conducting this internationally recognized certification. Through this initiative, KITS promoted industry–academia interaction, skill enhancement, and knowledge exchange in food technology, contributing to sustainable practices and global workforce readiness.



#### e. Real-time Streaming and API

The workshop on “Real-time Streaming and APIs” aimed to provide participants with an in-depth understanding of real-time data integration and API technologies that drive modern digital ecosystems. The session was conducted online by Mr. Enoch Easudoss, Technical Manager at NTT DATA, Amsterdam, The Netherlands. A total of 55 students specializing in Data Science and Artificial Intelligence participated actively in this interactive learning event.

Mr. Enoch Easudoss emphasized the crucial role of Application Programming Interfaces (APIs) as enablers of seamless data communication and innovation across industries. The session explored a wide spectrum of API types—REST, SOAP, RPC, and WebSocket—highlighting their structure, purpose, and practical applications. Participants were introduced to essential concepts such as REST API semantics, pagination strategies, OpenAPI specifications, and endpoint querying techniques, providing a holistic understanding of API development and integration. This academic–industry partnership supported SDG 4 (Quality Education), SDG 9 (Industry, Innovation & Infrastructure), and SDG 17 (Partnerships for the Goals).

#### f. Faculty Development Programme on Applications of Artificial Intelligence Techniques in Mechanical Engineering Systems

The Division of Mechanical Engineering organized a five-day Faculty Development Programme (FDP) on “*Applications of Artificial Intelligence (AI) Techniques in Mechanical Engineering Systems*” in collaboration with the Technology Mission on Green and Sustainable Manufacturing, aimed at enriching faculty with advanced knowledge of AI-driven innovations and sustainable practices. The programme focused on how AI has transformed mechanical systems through predictive maintenance, design optimization, robotics, automation, supply chain efficiency, and quality control. Experts highlighted how AI algorithms analyze sensor data to forecast equipment failures, simulate design variations for optimization, and improve decision-making in manufacturing and logistics, thereby enhancing performance, reducing

costs, and supporting sustainability. Sessions also addressed the role of AI in energy efficiency, defect detection, and simulation-based design, enabling engineers to develop safer, more reliable, and resource-efficient systems. The FDP included technical sessions on AI in additive manufacturing, biomechanics, automobile engineering, and advanced research such as dry ice hybrid lubri-cooling for titanium alloys. By fostering academic–industry collaboration and promoting AI applications in sustainable manufacturing, the programme contributed to advancing SDGs, reinforcing the institution’s commitment to innovation-driven learning and sustainable technological development. The event contributed to SDG 9 (Industry, Innovation & Infrastructure), SDG 12 (Responsible Consumption & Production), and SDG 13 (Climate Action).



## g. International Conference on Robotics, Automation and Intelligent Systems (ICRAINS' 24)

The conference featured distinguished experts such as Prof. Avital Bechar from the Volcani Center, Israel, and Dr. Joseph Winston from IGCAR, India, who shared insights on robotics and automation for sustainable technologies. With 70 participants, the event promoted interdisciplinary research and global partnerships. It addressed SDG 9 (Industry, Innovation & Infrastructure), SDG 11 (Sustainable Cities & Communities), and SDG 17 (Partnerships for the Goals).



#### **h. International Conference on Circuits, Devices and Systems (ICDCS'24)**

ICDCS'24 brought together experts from Bangladesh, Saudi Arabia, the USA, and India to discuss advances in electronics, nanotechnology, and semiconductor systems. The conference emphasized innovation in sustainable device design and intelligent systems development, enhancing research-industry synergy. It aligned with SDG 7 (Affordable & Clean Energy), SDG 9 (Industry, Innovation & Infrastructure), and SDG 17 (Partnerships for the Goals).



### i. Seminar on SDGs -Embracing the change and its dynamics

The seminar on Sustainable Development Goals (SDG) focused on the integration of advanced technologies to achieve the 2030 Agenda. It explored the application of AI and IoT in sustainable agriculture, innovations in renewable energy, and the development of smart cities. Emphasis was placed on data-driven approaches for monitoring and evaluating SDG progress. The discussions highlighted the use of blockchain for enhancing transparency in supply chains and recent advancements in water purification technologies. The seminar successfully provided actionable insights and fostered cross-sector collaboration toward scalable and sustainable solutions. This initiative supported SDG 4 (Quality Education), SDG 9 (Industry, Innovation & Infrastructure), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals).



### 2. National MoUs

| Sl. No. | Organisation with which MoU is signed | Name of the Institution                      | Year of Signing | Duration (Years) |
|---------|---------------------------------------|----------------------------------------------|-----------------|------------------|
| 1       | IBM Skillbuild for Academia Access    | Karunya Institute of Technology and Sciences | 2023            | 2                |
| 2       | Miles Education Private Limited       | Karunya Institute of Technology and Sciences | 2023            | 3                |
| 3       | CAD Solutions                         | Karunya Institute of Technology and Sciences | 2023            | 11 Months        |
| 4       | Garuda Aerospace Private Ltd.         | Karunya Institute of Technology and Sciences | 2023            | 3                |

|    |                                                                           |                                              |      |           |
|----|---------------------------------------------------------------------------|----------------------------------------------|------|-----------|
| 5  | Transylvania University of Brasov, Romania                                | Karunya Institute of Technology and Sciences | 2023 | 4         |
| 6  | Tunga Aerospace Pvt. Ltd.                                                 | Karunya Institute of Technology and Sciences | 2023 | 3         |
| 7  | HLL Lifecare ltd., Thiruvananthapuram                                     | Karunya Institute of Technology and Sciences | 2023 | 1         |
| 8  | Freedom Ophthalmic                                                        | Karunya Institute of Technology and Sciences | 2023 | 11 Months |
| 9  | Space Zone India (P) Ltd.                                                 | Karunya Institute of Technology and Sciences | 2023 | 3         |
| 10 | ST Advanced Composites Industries (P) Ltd                                 | Karunya Institute of Technology and Sciences | 2023 | 3         |
| 11 | ETS India Private Ltd., Haryana                                           | Karunya Institute of Technology and Sciences | 2023 | 2         |
| 12 | EU Member States (Erasmus +)                                              | Karunya Institute of Technology and Sciences | 2024 | 3         |
| 13 | NSE Academy                                                               | Karunya Institute of Technology and Sciences | 2024 | 1         |
| 14 | KPR College of Arts Science and Research, Coimbatore                      | Karunya Institute of Technology and Sciences | 2024 | 11 months |
| 15 | Australian Catholic University (ACU), Sydney, NSW                         | Karunya Institute of Technology and Sciences | 2024 | 5         |
| 16 | Phoenix360 Solutions Private Limited                                      | Karunya Institute of Technology and Sciences | 2024 | 1         |
| 17 | IIT Palakkad Technology I-Hub Foundation, Palakkad                        | Karunya Institute of Technology and Sciences | 2024 | 1         |
| 18 | Zoho Corporation Pvt. Ltd.                                                | Karunya Institute of Technology and Sciences | 2024 | 1         |
| 19 | ICAR – National Bureau of Agriculturally Important Microorganisms (NBAIM) | Karunya Institute of Technology and Sciences | 2024 | 3         |
| 20 | TMI Systems, Bangalore                                                    | Karunya Institute of Technology and Sciences | 2024 | 2         |
| 21 | SUEZ Projects Private Limited                                             | Karunya Institute of Technology and Sciences | 2024 | 5         |

### 3. International MoUs

| Name of the International Institution/University | Signed with | Modus Operandi                                                                                                                                                                                                                                                            | Signed on   | Validity |
|--------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| Leeds Beckett University                         | KITS        | Joint academic programs<br>Joint initiative in research<br>Faculty exchange<br>Student exchange<br>semester abroad<br>opportunities                                                                                                                                       | 27 Feb 2024 | 3 Years  |
| Australian Catholic University                   | MBA<br>CSE  | Unilateral or bilateral study<br>abroad programmes<br>Faculty exchange<br>Collaborative curriculum<br>development<br>Research collaboration<br>Joint course development<br>short term academic<br>programmes<br>Joint participation in<br>international funded<br>project | 23 Feb 2024 | 5 Years  |

## 4. Research Collaboration Agreement



தமிழ்நாடு சமீபத்தில் **INDIA NADU** 10AC 966758  
  
**Dr. சிவசுப்பிரமணியன்**  
 தமிழ்நாடு சமீபத்தில்  
 தமிழ்நாடு சமீபத்தில்  
 தமிழ்நாடு சமீபத்தில்  
 தமிழ்நாடு சமீபத்தில்

## RESEARCH COLLABORATION AGREEMENT

This RESEARCH COLLABORATION AGREEMENT (RCA) is executed on the day of November 2002.

### Discussion

Karunya Institute of Technology and Sciences (Deemed to be University), Karunya Nagar, Coimbatore - 541 114, represented by its Registrar, Prof. Dr. R. Sibi Malingay, [herein after referred to as KITS], (which expression unless repugnant to the context and meaning shall mean and include his assigns, legal representative, nominee, successor in office, administrator, executor etc.) of the ONE PART.

1

Sued Projects Pvt. Ltd., a company incorporated under the Companies Act, 1956 and having their registered office at A/132, Sakinaka Enclave, New Delhi - 110029, India, represented by its Project Director, Mr. Anil Neogi, (herein after referred to as Gants) (which expression unless repugnant to the context and meaning shall mean and include his assigns, legal representative, nominee, successor in office, administrator, executor etc.) of the OTHER PART,

## RECITALS

- (A) WHEREAS, SUEZ is engaged in research, design and development and consultancy in the field of Environmental and Water Resources Engineering and Technology;
- (B) WHEREAS, KITs is a reputed institution which offers mainly Engineering courses in various disciplines and is also contributing to the rapidly growing scientific and technological knowledge and professional excellence in technology by undertaking various research and consultancy activities;
- (C) WHEREAS, both SUEZ and KITs, now, recognizing the importance of research and development in the areas of Environmental and Water Resources Engineering, appreciating the need for creation of large reservoir of highly qualified manpower in all fields related to Environmental and Water Resources Engineering. Desiring to enhance their efforts by joining their expertise and resources, intend to form a Synergistic Framework for promoting development and growth of excellent quality manpower in the fields of Engineering, Technology and Science with a focus on Environmental and Water Resources.

Now, therefore in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both SUEZ and KITS hereby acknowledge, SUEZ and KITS hereby agree as under:

**NOW THEREFORE** in consideration of the mutual promises set forth herein and rights obtained thereby, the Parties agree as follows:

## 1. DEFINITIONS

1.1 In this Agreement and in the Schedules to this Agreement, unless the context otherwise requires, the following expressions shall have the following meanings:

"Agreement" - means this Agreement and its Schedules, as well as any Riders

**"Own Knowledge"** means any and all technical and/or scientific information, knowledge, materials, Know-How and/or any and all other type of information, in any form whatsoever, whether patentable or not, and/or whether actually patented or not, and all the related rights, belonging to a Party or held by the latter prior to the effective date of the Agreement and/or developed or assigned by the party in parallel to the performance of the Agreement.

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## **APPENDIX 2:**

### **BACKGROUND:**

Burst reduction is a key topic identified for performance improvement as an objective by SUEZ globally as part of SPOT 2030.

### **SCOPE of WORK:**

The pilot study will initially be taken up to evaluate the technology and its suitability in the local context of Indian Utilities.

Two independent projects, namely Coimbatore 24/7 and Kolkata (Cossipore WLM project) will be the use case to investigate and study the transient behavior of high-pressure networks by installation of the high frequency pressure logging devices directly on the network.

### **Key Role of Partner:**

Specialized procurement support to the project team (2 or more devices as defined by the project requirements)

### **Technical support in evaluation of technology**

SCOPE Matrix:

| Actions                                                                                   | SUEZ India/ SUEZ CTD | Partner |
|-------------------------------------------------------------------------------------------|----------------------|---------|
| Funding of the pilot study                                                                | •                    |         |
| Managing all Procurement process of Devices including Imports as necessary for the pilots |                      | •       |
| Handover of Devices to SUEZ                                                               |                      | •       |
| Initial Testing & configuration of devices                                                | •                    |         |
| Deployment plan for installation using Hydraulic network Model analysis                   | •                    |         |
| Field feasibility & Installation of Devices                                               | •                    |         |
| Managing Data Centre                                                                      | •                    |         |
| Study, Analysis & recommendations                                                         | •                    | •       |
| Review & Evaluation of Results                                                            |                      | •       |
| Technical review of technology applications & comparative analysis                        |                      | •       |
| Handover of Devices after completion of the study to SUEZ                                 |                      | •       |
| FINAL Report                                                                              | •                    | •       |

2/1/20



