



SDG 17 - Partnerships to achieve the Goal

Collaboration for SDG Practice

Karunya Institute of Technology and Sciences (KITS) demonstrates a strong commitment to Sustainable Development Goal 17 – Partnerships for the Goals, emphasizing the importance of global collaboration in education, research, and innovation. The University has developed a robust framework for international engagement through partnerships with academic institutions, research organizations, industries, and intergovernmental agencies. These collaborations are focused on co-creating sustainable solutions aligned with the United Nations' 2030 Agenda for Sustainable Development.

Research Collaboration and Scholarly Impact [Source: SciVal]

KITS has significantly enhanced its international research footprint through high-impact collaborations. According to the recent *Times Higher Education (THE) Impact Rankings data (2025)*, the University achieved a 24.4% rate of international collaboration across 574 scholarly publications, with 6,147 total citations and an average of 10.7 citations per publication. The University's Field-Weighted Citation Impact (FWCI) of 1.48 exceeds the global benchmark (1.00), reflecting the quality and global relevance of its research outputs.

Over the past five years, KITS's scholarly productivity has grown steadily—from 3,869 research outputs during 2019–2023 to 4,476 publications between 2020–2024, representing an upward trajectory in both quantity and quality of research contributions. This growth is supported by active participation in global scientific networks, joint research programs, and multi-institutional publications addressing climate resilience, sustainable engineering, digital innovation, and environmental sustainability.

Major International Collaborations [Source: SciVal]

KITS maintains strategic partnerships with over 22 leading international universities and institutions, including:

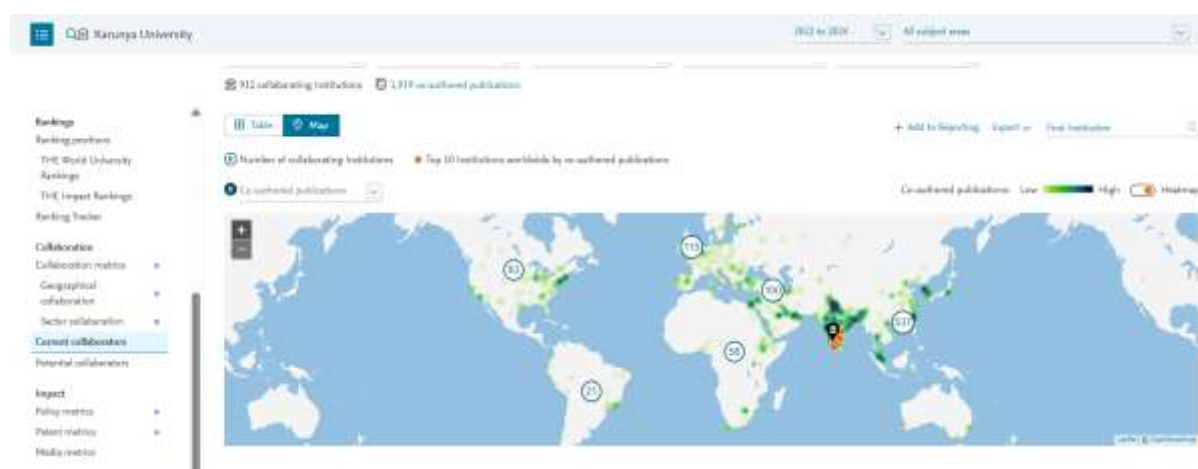
- National Kaohsiung University of Science and Technology, Taiwan
- Budapest University of Technology and Economics, Hungary
- King Saud University, Saudi Arabia
- Clemson University, USA
- University of Malaya, Malaysia
- Bar-Ilan University and Ben-Gurion University of the Negev, Israel
- Vilnius University, Lithuania
- Cape Breton University, Canada
- Tel Aviv University, Israel
- Illinois Institute of Technology, USA

These collaborations foster mutual research, faculty exchange, co-guided Ph.D. programs, curriculum innovation, and joint publications, enabling faculty and students to work on global sustainability projects.

1. International collaboration - Research Publications

Metric	Publication Share	Scholarly Output	Citations	Citations per Publication	Field-Weighted Citation Impact
International collaboration	245.4%	574	6,147	10.7	1.48

i. Geographical Locations



ii. Collaborators

S No	Institution	Country/Region
1	National Kaohsiung University of Science and Technology	Taiwan
2	Budapest University of Technology and Economics	Hungary
3	King Saud University	Saudi Arabia
4	University of Oradea	Romania
5	National Cheng Kung University	Taiwan
6	Clemson University	United States
7	Menoufia University	Egypt
8	Yeungnam University	South Korea
9	Tunghai University	Taiwan
10	University of Central Florida	United States
11	University of Malaya	Malaysia
12	Fundación Centro Tecnológico da Carne	Spain
13	University of Vigo	Spain
14	Addis Ababa Science and Technology University	Ethiopia
15	Yonsei University	South Korea
16	Purdue University Fort Wayne	United States
17	East Carolina University	United States

18	King Mongkut's University of Technology Thonburi	Thailand
19	University of Gävle	Sweden
20	King Khalid University	Saudi Arabia
21	City University of Hong Kong	Hong Kong
22	The University of Electro-Communications	Japan
23	National Science and Technology Development Agency Thailand	Thailand
24	Wolaita Sodo University	Ethiopia
25	Noakhali Science and Technology University	Bangladesh
26	University of Tabuk	Saudi Arabia
27	Zayed University	United Arab Emirates
28	Bangladesh Agricultural University	Bangladesh
29	Chulalongkorn University	Thailand
30	University of Waikato	New Zealand
31	Thuyloi University	Viet Nam
32	Kasetsart University	Thailand
33	National Chin-Yi University of Technology Taiwan	Taiwan
34	Silpakorn University	Thailand
35	Suranaree University of Technology	Thailand
36	Universiti Teknologi Malaysia	Malaysia
37	Nanjing University of Aeronautics and Astronautics	China
38	Taif University	Saudi Arabia
39	Gyeongsang National University	South Korea
40	Swinburne University of Technology	Australia
41	Universiti Putra Malaysia	Malaysia
42	Asian Institute of Medicine, Science & Technology	Malaysia
43	Ohio State University	United States
44	University of Massachusetts Boston	United States
45	Kafkas University	Turkey
46	Xi'an Jiaotong University	China
47	Polytechnic University of Valencia	Spain
48	Prince Sattam Bin Abdulaziz University	Saudi Arabia
49	Korea Institute of Industrial Technology	South Korea
50	Sultan Qaboos University	Oman
51	University of Westminster	United Kingdom
52	Sun Yat-Sen University	China
53	Debre Tabor University	Ethiopia
54	Instituto Tecnológico de Tijuana	Mexico
55	Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences	Poland
56	Polish Academy of Sciences	Poland
57	Islamic Azad University	Iran
58	University of Extremadura	Spain
59	University of Hertfordshire	United Kingdom
60	COMSATS University Islamabad	Pakistan
61	HITEC University	Pakistan
62	Cairo University	Egypt

63	Recep Tayyip Erdogan University	Turkey
64	IHE Delft Institute for Water Education	Netherlands
65	ESSCA School of Management	France
66	Polytechnic University of Turin	Italy
67	University of Turin	Italy
68	Prince Mohammad Bin Fahd University	Saudi Arabia
69	Ural Federal University	Russian Federation
70	Universidad de Tarapacá	Chile
71	Arba Minch University	Ethiopia
72	Al Jouf University	Saudi Arabia
73	Ton Duc Thang University	Viet Nam
74	Bangladesh Council of Scientific and Industrial Research	Bangladesh
75	Purdue University	United States
76	American University in Cairo	Egypt
77	Mettu University	Ethiopia
78	Southern Marine Science and Engineering Guangdong Laboratory - Guanzhou	China
79	University of Vaasa	Finland
80	Ambo University	Ethiopia
81	Princess Nourah Bint Abdulrahman University	Saudi Arabia
82	Tomsk State University	Russian Federation
83	Edith Cowan University	Australia
84	University of Rijeka	Croatia
85	Bar-Ilan University	Israel
86	Imam Khomeini International University	Iran
87	Kyung Hee University	South Korea
88	Sanaa University	Yemen
89	Sunway University	Malaysia
90	National Taiwan University	Taiwan
91	Kiel University	Germany
92	Ningbo University	China
93	Kaohsiung Medical University	Taiwan
94	Michigan State University	United States
95	Kebri Dehar University	Ethiopia
96	Council for Scientific and Industrial Research	South Africa
97	Tshwane University of Technology	South Africa
98	University of West Attica	Greece
99	Chaoyang University of Technology	Taiwan
100	American University of the Middle East	Kuwait
101	Southern University and A&M College	United States
102	Universiti Tun Hussein Onn Malaysia	Malaysia
103	Dong-A University	South Korea
104	King Abdulaziz City for Science and Technology	Saudi Arabia
105	University of Pretoria	South Africa
106	Çankiri Karatekin University	Turkey
107	Islamia University	Pakistan

108	Makerere University	Uganda
109	Aurel Vlaicu University of Arad	Romania
110	Vasile Goldiş Western University of Arad	Romania
111	Sindh Madressatul Islam University	Pakistan
112	Jiangsu University	China
113	Dijlah University College	Iraq
114	University Of Anbar	Iraq
115	Hawassa University	Ethiopia
116	South China University of Technology	China
117	Daffodil International University	Bangladesh
118	Haramaya University	Ethiopia
119	Abu Dhabi Polytechnic	United Arab Emirates
120	Kyungpook National University	South Korea
121	Assiut University	Egypt
122	Najran University	Saudi Arabia
123	University of Science and Culture	Iran
124	Western Sydney University	Australia
125	University of Johannesburg	South Africa
126	University of Warwick	United Kingdom
127	Instituto Tecnológico de Sonora	Mexico
128	University of Sri Jayewardenepura	Sri Lanka
129	Czech Technical University in Prague	Czech Republic
130	King Mongkut's University of Technology North Bangkok	Thailand
131	University of Seville	Spain
132	Accenture	United States
133	California State University Fullerton	United States
134	Kuwait College of Science and Technology	Kuwait
135	Shaheed Benazir Bhutto University	Pakistan
136	Deakin University	Australia
137	Zagazig University	Egypt
138	Al-Imam Muhammad Ibn Saud Islamic University	Saudi Arabia
139	Universidade de São Paulo	Brazil
140	Chonnam National University	South Korea
141	Northeastern University China	China
142	Molloy University	United States
143	Silesian University of Technology	Poland
144	INRAE	France
145	Université d'Orléans	France
146	Bangladesh Atomic Energy Commission	Bangladesh
147	Jeonbuk National University	South Korea
148	Lanzhou University	China
149	Soonchunhyang University	South Korea
150	Florida Gulf Coast University	United States
151	Jimma University Ethiopia	Ethiopia
152	Dongguk University	South Korea
153	Dhofar University	Oman

154	International Rice Research Institute	Philippines
155	Agricultural Research Center, Giza	Egypt
156	Pusan National University	South Korea
157	University of Houston	United States
158	Higher Colleges of Technology	United Arab Emirates
159	Pohang University of Science and Technology	South Korea
160	Universitas Hasanuddin	Indonesia
161	National Dong Hwa University	Taiwan
162	University of Technology Sydney	Australia
163	Peng Cheng Laboratory	China
164	Sookmyung Women's University	South Korea
165	University of Windsor	Canada
166	Universidade Federal Fluminense	Brazil
167	NYU Tandon School of Engineering	United States
168	New York University	United States
169	Al-Farahidi University	Iraq
170	Henan Normal University	China
171	University of Alberta	Canada
172	Leibniz University Hannover	Germany
173	Selcuk University	Turkey
174	Al-Amarah University College	Iraq
175	Université du Québec à Trois-Rivières	Canada
176	Abant Izzet Baysal University	Turkey
177	Ruder Boskovic Institute	Croatia
178	Chung-Ang University	South Korea
179	Georgia Institute of Technology	United States
180	Northeastern State University	United States
181	University of Salento	Italy
182	Rawalpindi Medical College	Pakistan
183	King Abdulaziz University	Saudi Arabia
184	Free University of Berlin	Germany
185	Incheon National University	South Korea
186	University College London	United Kingdom
187	University of Management and Technology	Pakistan
188	King Faisal University	Saudi Arabia
189	Universidade Federal de Viçosa	Brazil
190	University of Helsinki	Finland
191	University of Illinois at Chicago	United States
192	China Medical University Taichung	Taiwan
193	Al-Turath University College	Iraq
194	Northwest University China	China
195	Shanghai Jiao Tong University	China
196	Princess Sumaya University for Technology	Jordan
197	Beni-Suef University	Egypt
198	National University of Singapore	Singapore
199	Amity University Dubai	United Arab Emirates

200	Al-Safwa University College	Iraq
201	Future University in Egypt	Egypt
202	Imam Ja'afar Al-Sadiq University	Iraq
203	National Central University	Taiwan
204	Toronto Metropolitan University	Canada
205	Universidade Estadual de Campinas	Brazil
206	Universidade Federal Rural do Rio de Janeiro	Brazil
207	Uskudar University	Turkey
208	Jazan University	Saudi Arabia
209	Curtin University	Australia
210	Kyungil University	South Korea
211	Southeast University, Nanjing	China
212	Liverpool John Moores University	United Kingdom
213	Technical University of Madrid	Spain
214	Kuwait University	Kuwait
215	Umm Al-Qura University	Saudi Arabia
216	Cracow University of Technology	Poland
217	Kerman Graduate University of Advanced Technology	Iran
218	University of Texas at Austin	United States
219	Applied Science Private University	Jordan
220	Imperial College London	United Kingdom
221	Charles Darwin University	Australia
222	Asian University for Women	Bangladesh
223	Sylhet Agricultural University	Bangladesh
224	University of North Carolina at Chapel Hill	United States
225	Manchester Metropolitan University	United Kingdom
226	Near East University	Turkey
227	People's Friendship University of Russia	Russian Federation
228	Amol University of Special Modern Technologies	Iran
229	Esfarayen University of Technology	Iran
230	KTH Royal Institute of Technology	Sweden
231	Konkuk University	South Korea
232	Mansoura University	Egypt
233	National Institute of Advanced Industrial Science and Technology	Japan
234	National Sun Yat-sen University	Taiwan
235	Taiz University	Yemen
236	Technological University Dublin	Ireland
237	Tokyo University of Science	Japan
238	University of Sulaimani	Iraq
239	University of Tsukuba	Japan
240	West University of Timisoara	Romania
241	Universiti Malaysia Pahang Al-Sultan Abdullah	Malaysia
242	Abu Dhabi University	United Arab Emirates
243	Institute for Space Sciences	Romania
244	Khalifa University of Science and Technology	United Arab Emirates

245	National Institute for Laser, Plasma and Radiation Physics	Romania
246	Children's Memorial Hospital	United States
247	China University of Geosciences, Beijing	China
248	Ferdowsi University of Mashhad	Iran
249	Illinois Institute of Technology	United States
250	Marshall University	United States
251	Northwestern University	United States
252	University of Adelaide	Australia
253	University of Staffordshire	United Kingdom
254	Yildiz Technical University	Turkey
255	University of Leeds	United Kingdom
256	Agricultural Research Organization of Israel	Israel
257	Technion-Israel Institute of Technology	Israel
258	Ionian University	Greece
259	University of Thessaly	Greece
260	Stellenbosch University	South Africa
261	University of Sharjah	United Arab Emirates
262	Cankaya University	Turkey
263	National Technical University of Athens	Greece
264	Ulster University	United Kingdom
265	Federal University of Technology, Akure	Nigeria
266	National Taipei University of Technology	Taiwan
267	Nepal Agricultural Research Council	Nepal
268	Tribhuvan University	Nepal
269	Kessler Foundation	United States
270	Qassim University	Saudi Arabia
271	Al-Muthanna University	Iraq
272	Cardiff University	United Kingdom
273	Israel Ministry of Agriculture and Rural Development	Israel
274	Macquarie University	Australia
275	University of Southern California	United States
276	University of the Faroe Islands	Faroe Islands
277	Wenzhou-Kean University	China
278	Koszalin University of Technology	Poland
279	Universidad Católica de la Santísima Concepción	Chile
280	University of Hail	Saudi Arabia
281	University of Plymouth	United Kingdom
282	Sumy State University	Ukraine
283	Zhejiang Provincial Center for Disease Control and Prevention	China
284	Kano University of Science and Technology	Nigeria
285	National University of Sciences and Technology Pakistan	Pakistan
286	MOH Holdings Pte Ltd.	Singapore
287	University of Carthage	Tunisia
288	University of Valladolid	Spain
289	University of the Basque Country	Spain

290	Al Yamamah University	Saudi Arabia
291	Innopolis University	Russian Federation
292	Nanyang Technological University	Singapore
293	National Research Foundation	South Africa
294	University of Jendouba	Tunisia
295	University of Minnesota Twin Cities	United States
296	University of South Africa	South Africa
297	University of Strathclyde	United Kingdom
298	Vietnam National University, Hanoi	Viet Nam
299	iThemba Laboratory for Accelerator Based Sciences	South Africa
300	Institut national des sciences appliquées Lyon	France
301	Suffolk University	United States
302	Tsinghua University	China
303	University of Guelph	Canada
304	Chungbuk National University	South Korea
305	International Islamic University Chittagong	Bangladesh
306	Korea University	South Korea
307	McGill University	Canada
308	National Yunlin University of Science and Technology	Taiwan
309	Nelson Mandela University	South Africa
310	Universiti Malaysia Kelantan	Malaysia
311	University of Sfax	Tunisia
312	Université de Bretagne Occidentale	France
313	Abu Dhabi Health Services Company	United Arab Emirates
314	Couger Inc.	Japan
315	Higher College of Technology	Oman
316	Universiti Sains Malaysia	Malaysia
317	Xinxiang University	China
318	Flemish Institute for Technological Research	Belgium
319	Halic University	Turkey
320	King Mongkut's Institute of Technology Ladkrabang	Thailand
321	Providence University Taiwan	Taiwan
322	Universidad Nacional San Agustín de Arequipa	Peru
323	University of Michigan, Ann Arbor	United States
324	American University in the Emirates	United Arab Emirates
325	Universidade Federal do Rio de Janeiro	Brazil
326	Al-Mustaqbal University College	Iraq
327	Alexandria University	Egypt
328	Bahrain Polytechnic	Bahrain
329	Ondokuz Mayıs University	Turkey
330	Shenyang Normal University	China
331	Suleyman Demirel University	Turkey
332	Universiti Teknologi Petronas	Malaysia
333	Babol Noshirvani University of Technology	Iran
334	Delft University of Technology	Netherlands
335	Guangxi University for Nationalities	China

336	Mehmet Akif Ersoy University	Turkey
337	University of Cambridge	United Kingdom
338	Al Musanna College of Technology	Oman
339	Tianjin University	China
340	Universiti Malaysia Terengganu	Malaysia
341	Aksum University	Ethiopia
342	Benha University	Egypt
343	Brunel University London	United Kingdom
344	Durban University of Technology	South Africa
345	Duy Tan University	Viet Nam
346	Henan Polytechnic University	China
347	Huazhong Agricultural University	China
348	Institute of Science Tokyo	Japan
349	International Livestock Research Institute	Kenya
350	International Telematic University Uninettuno	Italy
351	Royal Commission for Jubail and Yanbu	Saudi Arabia
352	Technical University of Munich	Germany
353	Trinity College Dublin	Ireland
354	Universidade do Estado do Amazonas	Brazil
355	University of Antwerp	Belgium
356	University of Saskatchewan	Canada
357	University of Surrey	United Kingdom
358	Université de Tunis El Manar	Tunisia
359	China University of Mining and Technology	China
360	South Eastern University of Sri Lanka	Sri Lanka
361	University of Georgia	United States
362	University of Oxford	United Kingdom
363	University of Queensland	Australia
364	Howard University	United States
365	Istanbul University - Cerrahpaşa	Turkey
366	University of Rome La Sapienza	Italy
367	Boston Children's Hospital	United States
368	Harvard University	United States
369	Northeastern University	United States
370	Universidade Federal do Paraná	Brazil
371	Wollega University	Ethiopia
372	International Islamic University Malaysia	Malaysia
373	Middle East University, Jordan	Jordan
374	University of Calgary	Canada
375	University of Luxembourg	Luxembourg
376	Alstom	Switzerland
377	INTI International University	Malaysia
378	Khulna University of Engineering and Technology	Bangladesh
379	King Fahd University of Petroleum and Minerals	Saudi Arabia
380	Kunming University of Science and Technology	China
381	Mälardalen University	Sweden

382	National Tsing Hua University	Taiwan
383	RAS - Boreskov Institute of Catalysis, Siberian Branch	Russian Federation
384	Russian Academy of Sciences	Russian Federation
385	UCB S.A.	Belgium
386	Universidade Católica Dom Bosco	Brazil
387	Universiti Geomatika Malaysia	Malaysia
388	Universiti Tunku Abdul Rahman	Malaysia
389	University Northern Colorado	United States
390	University of Nizwa	Oman
391	University of Reading	United Kingdom
392	University of Texas at El Paso	United States
393	Université de Maroua	Cameroon
394	Arizona State University	United States
395	Cape Peninsula University of Technology	South Africa
396	Duke University	United States
397	George Mason University	United States
398	Karlsruhe Institute of Technology	Germany
399	New Uzbekistan University	Uzbekistan
400	University of California at Berkeley	United States
401	University of Fujairah	United Arab Emirates
402	University of Oklahoma	United States
403	Valdosta State University	United States
404	AMA International University	Bahrain
405	Aswan University	Egypt
406	Ataturk University	Turkey
407	Chang'an University	China
408	China University of Mining & Technology, Beijing	China
409	Comenius University	Slovakia
410	De Montfort University	United Kingdom
411	Erzurum Technical University	Turkey
412	Jigjiga University	Ethiopia
413	Leibniz Institute for Catalysis	Germany
414	Maharakham University	Thailand
415	Manipal Academy of Higher Education, Dubai	United Arab Emirates
416	National University of Kaohsiung	Taiwan
417	National University of Lesotho	Lesotho
418	New Jersey Institute of Technology	United States
419	Sakarya University of Applied Sciences	Turkey
420	Swedish University of Agricultural Sciences	Sweden
421	Tallinn University of Technology	Estonia
422	Technical University of Denmark	Denmark
423	Universidad Internacional Menéndez Pelayo	Spain
424	University of Galway	Ireland
425	Wollo University	Ethiopia
426	Worcester Polytechnic Institute	United States
427	Wuhan University of Technology	China

428	Örebro University	Sweden
429	University of Craiova	Romania
430	The Islamic University, Najaf	Iraq
431	Lebanese American University	Lebanon
432	University of Lagos	Nigeria
433	Jeju National University	South Korea
434	National Penghu University of Science & Technology	Taiwan
435	Universidade Estadual do Norte Fluminense	Brazil
436	University of Khorfakkan	United Arab Emirates
437	Agency for Science, Technology and Research, Singapore	Singapore
438	Ankara University	Turkey
439	Arab Academy for Science, Technology and Maritime Transport	Egypt
440	Ashland University	United States
441	Boston University	United States
442	City of Hope National Med Center	United States
443	Dilla University	Ethiopia
444	Fundação Oswaldo Cruz	Brazil
445	Gh. Asachi Technical University	Romania
446	Haiphong University	Viet Nam
447	Iowa State University	United States
448	Maharishi International University	United States
449	Marquette University	United States
450	National Chung Cheng University	Taiwan
451	National Chung Hsing University	Taiwan
452	Qatar University	Qatar
453	Shaqra University	Saudi Arabia
454	Singidunum University	Serbia
455	Stefan Cel Mare University	Romania
456	Superior University	Pakistan
457	Texas Tech University Health Sciences Center El Paso	United States
458	UCSI University	Malaysia
459	United Arab Emirates University	United Arab Emirates
460	University of Dhaka	Bangladesh
461	University of Idaho	United States
462	University of Kassel	Germany
463	University of Memphis	United States
464	National University of Science & Technology (by Merger of Caledonian College of Engineering and Oman Medical College)	Oman
465	Ruhr University Bochum	Germany
466	University of Indonesia	Indonesia
467	University of Teramo	Italy
468	Adama Science and Technology University	Ethiopia
469	Asia University Taiwan	Taiwan
470	Botho University	Botswana
471	CSIC	Spain

472	CSIC - Biological Research Center	Spain
473	Chengde Medical University	China
474	Eastern University	United States
475	Hanyang University	South Korea
476	Hongik University	South Korea
477	Imam Abdulrahman Bin Faisal University	Saudi Arabia
478	Korea Maritime and Ocean University	South Korea
479	Leeds Teaching Hospitals NHS Trust	United Kingdom
480	Monash University Malaysia	Malaysia
481	Nottingham Trent University	United Kingdom
482	Prince Sultan University (PSU)	Saudi Arabia
483	Rutgers - The State University of New Jersey, Newark	United States
484	Saint Peter's University	United States
485	Sharif University of Technology	Iran
486	Sungkyunkwan University	South Korea
487	Universidad Autonoma de Coahuila	Mexico
488	Universidad Internacional de La Rioja	Spain
489	University of Jeddah	Saudi Arabia
490	University of Pisa	Italy
491	University of Texas Health Science Center at Houston	United States
492	Vietnamese Academy of Science and Technology	Viet Nam
493	Craiova University of Medicine and Pharmacy	Romania
494	Lincoln University (of Pennsylvania)	United States
495	Lincoln University College	Malaysia
496	Tallinn University	Estonia
497	Afyon Kocatepe University	Turkey
498	Ain Shams University	Egypt
499	Amity University, Tashkent	Uzbekistan
500	Anderson University	United States
501	Asia Pacific University of Technology and Innovation	Malaysia
502	Bahar Dar University	Ethiopia
503	California Institute of Technology	United States
504	Concordia University	Canada
505	Creighton University	United States
506	Düsseldorf University of Applied Sciences	Germany
507	Escuela Superior Politécnica de Chimborazo	Ecuador
508	Federal University, Lokoja	Nigeria
509	Friedrich Schiller University Jena	Germany
510	Global Foundries, Inc.	United States
511	Harbin Institute of Technology	China
512	Heriot-Watt University	United Kingdom
513	Kennesaw State University	United States
514	Lebanese French University	Iraq
515	Mae Fah Luang University	Thailand
516	Massachusetts Institute of Technology	United States
517	Samsung	South Korea

518	San Jose State University	United States
519	Shandong Normal University	China
520	Southern Federal University	Russian Federation
521	Suez Canal University	Egypt
522	The University of Hong Kong	Hong Kong
523	Transilvania University of Brasov	Romania
524	United Nations Children's Fund	United States
525	Universidad Católica Santo Toribio de Mogrovejo	Peru
526	Universidad Continental	Peru
527	Universidade Estadual Paulista Júlio de Mesquita Filho	Brazil
528	Universidade Federal do Piauí	Brazil
529	Universidade Regional do Cariri	Brazil
530	Universidade de Fortaleza	Brazil
531	Universiti Brunei Darussalam	Brunei Darussalam
532	Universiti Sultan Zainal Abidin	Malaysia
533	University of Georgia Griffin Campus	United States
534	University of Leicester	United Kingdom
535	University of Lisbon	Portugal
536	University of Maryland, College Park	United States
537	University of Minho	Portugal
538	University of Ottawa	Canada
539	University of Pittsburgh	United States
540	University of Porto	Portugal
541	University of Tehran	Iran
542	University of Ulsan	South Korea
543	Wenzhou Medical University	China
544	Yiwu Central Hospital	China

iii. Ranking Tracker

Metric	THE WUR 2025 (Publications 2019-2023)	Tracker Value (Publications 2020-2024)	Tracker Delta 
			Absolute value 
Scholarly Output (THE)	3,889	4,676 	+687
International Collaboration (THE)	1,011	1,113 	+102
Global Field-Weighted Citation Impact - 5 year (THE)	1.33	1.30 	-0.03
Country Normalized Field-Weighted Citation Impact - 5 year (THE)	1.20	1.26 	+0.06
PWC 75th percentile - 5 year (THE)	1.34	1.25 	-0.09
Outputs in the top 10% by Global PWC - 5 year (THE)	529	608 	+79
Patent Citations (THE)	283	216 	-67
Scholarly Outputs cited by Patents (THE)	134	150	+16

2. International collaboration - Project

Dr. N. Anand is leading a prestigious international research project titled “Strategies for Improving the Performance of Concrete under Extreme Fire Conditions”, funded by the Ministry of Innovation and Technology of Hungary through the National Research, Development and Innovation Fund. This collaborative project, conducted in partnership with the Budapest University of Technology and Economics, spans from December 19, 2024, to December 19, 2027, with a sanctioned grant of €56,800. The project aims to develop advanced

concrete formulations and structural strategies capable of withstanding high-temperature and fire-related stresses, ensuring safety and resilience in civil infrastructure. Through innovative material design, thermal analysis, and performance testing, Dr. Anand's work contributes to enhancing the fire endurance and sustainability of modern construction materials, addressing critical challenges faced in urban infrastructure and disaster mitigation.

Through its international collaboration on the *Evaluation of Ecosystem Services in the Context of Climate Change - Kol Wetlands, India* project, funded by the Ramsar Regional Center - East Asia (non-governmental agency), Karunya Institute of Technology and Sciences is advancing best practices for achieving the Sustainable Development Goals (SDGs). With a funding support of ₹7.98 lakh, this project focuses on assessing ecosystem services within the Kol Wetlands in the context of climate change impacts. Insights gained from this research aim to guide sustainable ecosystem management, biodiversity conservation, and climate adaptation strategies, contributing directly to SDG targets related to environmental sustainability, climate action, and ecosystem preservation.

Name of the Project	Name of the Funding agency	Funds provided
Strategies for Improving the Performance of Concrete under Extreme Fire Conditions	Ministry of Innovation and Technology of Hungary through the National Research, Development and Innovation Fund	€56,800
Evaluation of Ecosystem Services in the Context of Climate Change - Kol Wetlands, India	Ramsar Regional Center - East Asia	7.98 Lakh
Design of 2 TPD Rotary Kiln Gasification Pilot Plant with high CV syngas Production	Techurja	10 Lakh

3. German Collaboration

Dr. E. J. James and a team of experts successfully completed a project titled “Hydro-Ecological Assessment for Integrated Management of Point Calimere Ramsar Site”, commissioned by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. The project focuses on assessing and enhancing the ecological and hydrological balance of the Point Calimere wetland ecosystem to support sustainable environmental management practices.

**CONTRACT FOR CONSULTING FIRMS
AND OTHER SERVICE PROVIDERS**



Contract no.: 83341685
Project: Wetlands Management für Biodiversitäts- und Klimaschutz
Processing no.: 16.9020.5-001.00
Processed by: Sanjay Dhar
Telephone:

Based on the General Terms of Contract (local) the present Contract is concluded between the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, represented by

**German Development Cooperation
GIZ Office New Delhi
46, Paschimi Marg
Vasant Vihar
NEW DELHI - 110 057, INDIA**

(referred to hereinafter as "GIZ")

and

. Karunya Institute of Technology

**641114 Coimbatore, Tamil Nadu
India**

(referred to hereinafter as "Contractor").

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Internationale Zusammenarbeit (GIZ) GmbH
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Dorothea Schuler-Schmidt
Commercially all registered on Main
List (Börsen) 330467702
SAG 5543 5261 5205 5558 5555 05



Contract: 83341685

Page: 2 from 5

1. Purpose of the Contract

Contract for Hydro-ecological assessment for integrated management of Point
Calimere Ramsar site

2. Terms of Reference

The Contractor undertakes to perform the services listed in the Special Agreement
(Annex 1).

3. Assignment of Personnel

In order to perform the services, it is anticipated that during the period from 16.12.2019 to
30.06.2020, the Contractor shall assign the following experts:

Dr. E. J. James & Other Experts as Experts

4. Reports/Appraisals

Reporting/Submission of the study/The handover of work is governed by the Special
Agreement (see Annex 1).

5. Remuneration

For the performance of services, the Contractor shall be remunerated as follows:

Dr. E. J. James & Other Experts

Expert
2,330,000.00 INR x up to 1.0 Expert day/s
lump sum up to 2,330,000.00 INR
Professional fee to Experts, Ref. Spl. Agr

Per diem / daily allowance
1,000.00 INR x up to 200.0 Day/s
lump sum up to 200,000.00 INR
Per diem for 200 days, at INR 1,000/day.

Accommodation
800,000.00 INR x up to 1.0 Night/s
against provision of evidence up to 800,000.00 INR
Stay for 200 nights on actuals, upto max. of INR 800,000

Special Agreement



Contract no: 83341685
Project: Wetlands Management für Biodiversitäts- und Klimaschutz
Project no: 16.9020.5-001.00
Contractor: Karunya Institute of Technology

1. Terms of Reference

Wetlands exist as transitional ecosystems at land and water interface which are represented by various types including lakes, marshes, reservoirs, mangroves, lagoons, estuaries etc. As highly productive ecosystems, wetlands are vital for hydrological cycle and support rich biological diversity. Globally, wetlands are threatened by reclamation and degradation through drainage and landfill, pollution, hydrological alteration, over-exploitation, and climate change resulting in loss of biodiversity and disruption in ecosystem benefits to the society.

Wetlands in India are integral to biodiversity conservation, water and food security, and climate protection. MoEFCC, in partnership with GIZ, is implementing a Technical Cooperation project "Wetlands management for biodiversity and climate protection" with funding support from the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) under the International Climate Initiative (IKI). The goal of the project is to strengthen the institutional framework and enhance capacities for an ecosystem-based integrated management of wetlands of international importance (Ramsar sites) in India.

The project is implemented in close cooperation with the NPCA of the MoEFCC with an overall objective to establish an integrated management approach at four Ramsar sites (namely, Pong, Renuka, Bhitarkanika and Point Calimere). In order to facilitate project implementation, Wetland Research and Training Centre, Chilika Development Authority (CDA) has been identified as a resource centre in partnership with the respective State Wetlands Authorities and site level management institutions. Wetlands International South Asia (WISA) is the technical partner in project implementation.

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Tania Götterer (Chair)
Dr. Christoph Beier (Vice-Chair)
Thorsten Schäfer-Gumbel

Commerzbank AG Frankfurt am Main
BIC (SWIFT): COBADE33XXX
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Three main output areas define the implementation approach of the project:

- Integrated management planning for 4 pilot Ramsar sites based on biodiversity, ecosystem services and climate change risks.
- Capacity development of national, state and site level stakeholders for integrated wetland management.
- Development of a wetland monitoring system, including an instrument to track management effectiveness.

1.2 Context of the assignment

Coastal wetlands represent some of the most productive ecosystems and provide important ecological services such as flood attenuation, water and carbon storage, shoreline stabilization, and wildlife habitat. Coastal wetlands also act as a natural filter that improves water quality before it reaches the ocean. Hydrological processes are the major driver of coastal wetlands function, affecting wetland formation, structure, productivity and ecosystem services provisioning. Hydrological variations of coastal wetlands are strongly influenced by -1) coastal processes (i.e., tide, sea level rise (SLR), and saltwater intrusion), 2) near-shore climate and 3) hydrological processes from adjacent upland terrestrial ecosystems. These hydrological conditions affect numerous abiotic factors, including nutrient availability, soil oxygen, and salinity in both coastal and inland wetlands, which in turn determine the biota that establish in a wetland. On the other hand, these biotic components can alter the hydrology and other physicochemical features of the wetland. Maintaining the hydrological regime of a wetland and its natural variability is therefore necessary to maintain the ecological characteristics of the wetland, including biodiversity and ecosystem services.

1.3 Objectives and Scope of the Assignment

Point Calimere Ramsar site covering an area of 38,500 ha comprises of Point Calimere Wildlife Sanctuary (2147 ha), Panchanadikulam Wetland (8097 ha), Thalainayar Reserved Forest (1236 ha), Muthupet Mangroves (11900 ha) and unsurveyed salt swamp (15120 ha)¹. Except the Thalainayar Reserved Forest, the remaining constituents are parts of the Great Vedaranyam Swamp. The Ramsar Site is a mix of salt swamps, mangroves, backwaters, mudflats, grasslands and Tropical Dry Evergreen Forest. It supports nearly 257 species of birds, 119 of them waterbirds, including vulnerable species. The site serves as the breeding ground for many commercially important species of fish, as well as for prawns and crabs. Many fishermen and agriculturalists are dependent on the wetland for their livelihood. The spread of *Prosopis*, salinisation of groundwater and changes in inflow of freshwater, are all seen as threats to the wetland.

The hydrology of Point Calimere wetland Ramsar site is dynamic owing to daily, seasonal, and interannual changes in water levels caused by tides, river flow, and

¹ <https://www.forests.tn.gov.in/pages/view/Ramsar-Site-Of-TN>

CONSULTATION ON INTEGRATED MANAGEMENT OF KOL WETLANDS

VENUE: PULLAZHI KOL PADAVU VITHU SAMPARANA KENDRAM,
THRISSUR

DATE: 11/09/2023 (MONDAY)

TIME: 10:00 hrs.

ORGANIZED BY

FARMERS OF KOL-LAND
&
KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
COIMBATORE

PROGRAMME

10:00 hrs:

WELCOME ADDRESS

Dr. J. Brema, Professor, KITS

10:05 hrs:

ABOUT THE PROJECT

Dr. E. J. James, Pro-Vice Chancellor, KITS

10:15 hrs:

INAUGURAL ADDRESS

Shri. V. R. Krishna Teja I.A.S, District Collector, Thrissur

10:25 hrs:

PRESIDENTIAL ADDRESS

Mr. K. Gopinath, President, Pullazhi Kol Farmers Group

10:40 hrs:

VOTE OF THANKS

Mr. T. S. Rahul, KITS

10:45 hrs:

DISCUSSION

Moderator: Dr. E. J. James, Pro-Vice Chancellor, KITS