AROR UNIVERSITY OF ART, ARCHITECTURE, DESIGN AND HERITAGE

SUKKUR, SINDH

ANNUAL SDG REPORT

Empowering Communities Through Sustainable Innovation

SDG 13 CLIMATE ACTION



EXECUTIVE SUMMARY

The Department of Environmental Sciences at Aror University of Art, Architecture, Design and Heritage combines faculty expertise in biomass conversion, anaerobic digestion, waste-to-energy, water quality management, wastewater treatment and biodiversity conservation with four laboratories (Environmental Chemistry, Water and Wastewater Quality, Air Quality, Microbiology) and a new four-year BS in Climate Change and Sustainable Development aligned with the Higher Education Commission's 2025 curriculum guidelines. Under SDG 13.3, four indicator-level activity groups are documented: local climate campaigns (13.3.1: 2nd International Symposium, two events of International Day of Biodiversity 2025, 2026, World Environment Day 2025, two seminars, the "Clean Today, Sustain Tomorrow" Awareness Drive and the "Green Sukkur" Tree Plantation Drive with Town Municipal Corporation III), community climate and water-health outreach in Ghotki (13.3.2), Establishment of Biodiversity Club, a Fire Safety and Prevention Workshop with Rescue 1122, Government of Sindh (13.3.3), and satellite-based flood, drought and land-use monitoring (13.3.4). Two formal MoUs anchor this work: The MoU with the Village Development Organization (VDO), Ghotki, signed 10 June 2026, and the MoU with RESOLVE–SUPARCO, signed 14 April 2



13.1.1 – RESEARCH ON CLIMATE CHANGE

Aror University of Art, Architecture, Design & Heritage, Sukkur, is contributing to climate change research through scholarly publications authored by its university-affiliated researchers. The following research papers highlight the university's contribution to the existing body of scientific literature related to climate change. The relevant publications are listed below, along with their available links and supporting evidence for verification. These studies support knowledge development in climate change mitigation, sustainable resource utilization, and environmentally responsible development.

Number of climate action publications authored by Aror University researchers

S#	Name of Author	Title	Article Link
01	Dr. Irfan Ali	Design and implementation of biogas as an efficient renewable energy resource for Pakistan prospects	https://www.sciencedirect.com/science/article/pii/S230718772500255X
02	Waheed Ali Khokhar	Optimizing Manchar Lake Management: Integrated Strategies for Water Quality and Quantity Restoration	https://doi.org/10.1016/j.clwat.2025.100116
03	Dr. Sabab Ali Shah	Hydroclimate Drivers and Spatiotemporal Dynamics of Reference Evapotranspiration in a Changing Climate	https://www.mdpi.com/2073-4441/17/17/2586
04	Dr. Sabab Ali Shah	Geostatistical analysis and delineation of groundwater potential zones for their implications in irrigated agriculture of Punjab, Pakistan	https://www.mdpi.com/2673-4060/6/3/115
05	Sadaquat Hussain	Modeling streamflow dynamics under future land use scenarios using soil and water assessment tools	https://www.gjesm.net/article_735305.html
06	Dr.Altaf Alam Noonari	Aqueous phase recirculation in hydrothermal liquefaction: A critical review	https://www.researchgate.net/publication/398031395
07	Dr. Narain Das Bheel	Effect of seawater salinity and temperature on material performance and marine ecotoxicity of offshore pipeline using RSM modelling	https://link.springer.com/article/10.1007/s13762-025-06869-5
08	Dr. Muhammad	Interaction Between Microplastics Heavy Metals in Aquatic Ecosystems:	https://www.researchgate.net/profile/Batuhan-

	Waris	Adsorption, Bioaccumulation, and Toxicity	Selamoglu-2/publication/400315632_The_Use_and_Impact_of_Modern_Technologies_in_Education_and_Medical_Training/links/697f6574ca66ef6ab98f3425/The-Use-and-Impact-of-Modern-Technologies-in-Education-and-Medical-Training.pdf#page=16
09	Dr. Muhammad Waris	Conceptual Parallel Between Quranic Ecological Principles and Soil Toxicology in Terrestrial Ecosystem	https://www.researchgate.net/publication/400315632_The_Use_and_Impact_of_Modern_Technologies_in_Education_and_Medical_Training
10	Engr. Waheed Ali Khokhar	Optimizing Manchar Lake Management: Integrated Strategies for Water Quality and Quantity Restoration	https://doi.org/10.1016/j.clwat.2025.100116
11	Mr. Zohaib Ali	Carbon dioxide sequestration from the construction industry: a review of technologies, materials, and pathways to carbon-negative infrastructure	https://mail.google.com/mail/u/0/#search/zohaib.faculty%40aror.edu.pk/FMfcgzQgLXwZkkZwpZNLDWBCwwSmDWxJ?projector=1&messagePartId=0.2
12	Mr. Zohaib Ali	Characterization and Energy Analysis of Fruit Waste and Crop Residues for Sustainable Biogas Production	https://mail.google.com/mail/u/0/#search/zohaib.faculty%40aror.edu.pk/FMfcgzQgLXwZkkZwpZNLDWBCwwSmDWxJ?projector=1&messagePartId=0.2
13	Muhammad Waris	Interaction Between Microplastics-Heavy Metals in Aquatic Ecosystems: Adsorption, Bioaccumulation, and Toxicity	https://www.researchgate.net/publication/399523361_Interaction_Between_Microplastics-Heavy_Metals_in_Aquatic_Ecosystems_AdsorptionBioaccumulation_and_Toxicity
14	Kamran Siraj	Revisiting the 1991 Water Accord: Climate Change and Interprovincial	https://assajournal.com/index.php/36/article/view/1

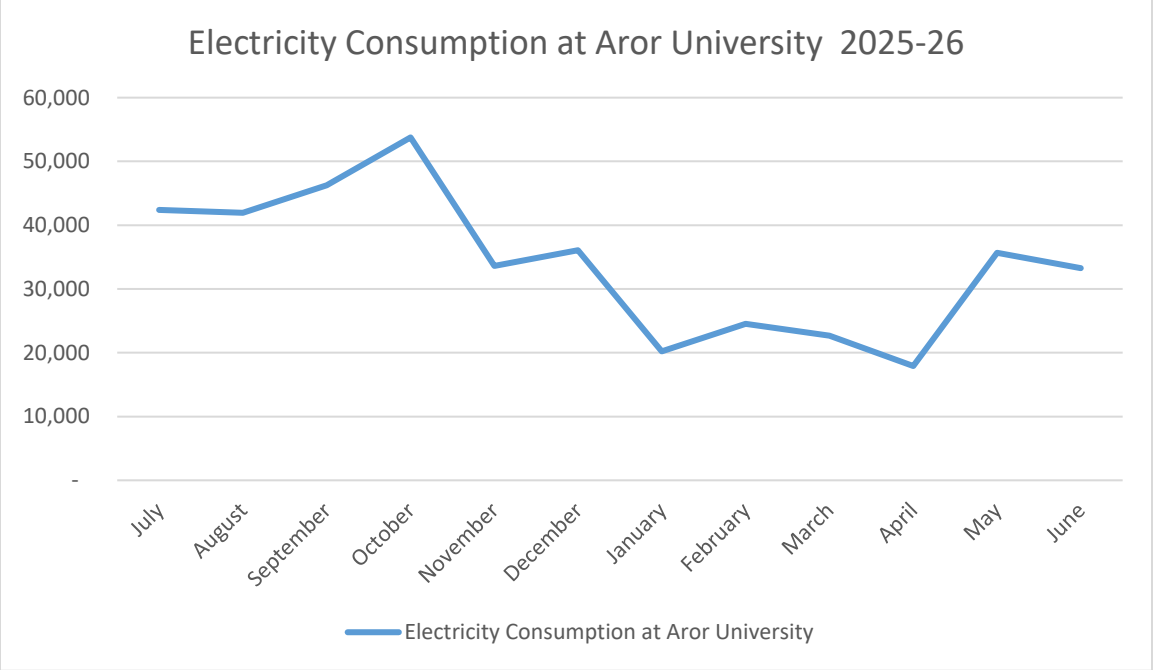
		Water Conflicts in Pakistan	817
15	Altaf Alam	Aqueous Phase Recycling in Hydrothermal Liquefaction: Mechanisms, Feedstock Interactions, and Sustainable Biorefinery Integration	https://doi.org/10.3390/su18052370
16	Dr. Sabab Ali Shah	Communities' Perceptions and Social Attitudes Towards Sustainable Infrastructural Development Projects in High Altitude Regions of Pakistan	https://www.mdpi.com/2673-4060/7/8/138
17	Dr. Sabab Ali Shah	Climate change impacts on snow cover dynamics and hydrological regimes in the Chitral River Basin, Pakistan	https://doi.org/10.2166/wcc.2026.097
18	Dr. Sabab Ali Shah	Probabilistic quantification of global drought risk amplification from temperature-enhanced evapotranspiration under climate change	https://doi.org/10.1016/j.gsf.2025.102235



13.2 LOW CARBON ENERGY USE

13.2.1 - Does your university as a body measure the amount of low carbon energy used across the university?

Aror University of Art, Architecture, Design and Heritage, Sukkur, is promoting low carbon energy utilization. In addition, electricity usage is carefully monitored to ensure efficient consumption and minimize waste. Electricty bill is being reduced by installing renewable energy source i.e Soalr system. On average, the university consumes a significant amount of electricity annually to power its academic buildings, administrative offices, research labs, and residential facilities. The use of energy-efficient appliances and the implementation of sustainable practices, such as the integration of solar panels, help to reduce overall electricity consumption. Regular audits are conducted to assess energy usage patterns and identify areas for further improvement. The university's commitment to energy conservation reflects its broader focus on sustainability and cost-effective resource management.



Solar System installed at Aror University Sukkur.

Aror University has successfully installed and commissioned a hybrid solar photovoltaic (PV) system with a capacity of more than 2 Mega Watt. The system caters to the power requirements of the Administration and Academic Block and completely supports the Water Filtration Plant and Pump Room facilities.

With the installation of this solar system, the electricity cost associated with the production of drinking water, daily water supply operations, and horticultural irrigation requirements has become negligible, resulting in substantial operational cost savings. The project has significantly reduced dependence on conventional grid electricity and contributes to a more reliable and sustainable energy supply across the campus.






The solar system supports uninterrupted operation of critical water infrastructure, ensuring the availability of safe drinking water and efficient water distribution. In addition to reducing utility expenses, the project demonstrates the University's commitment to environmental stewardship, energy efficiency, and the adoption of renewable energy technologies.

This initiative is expected to provide long-term financial benefits, lower the University's carbon footprint, and serve as a model for sustainable campus development. The integration of clean energy resources enhances the resilience of essential services while supporting the University's vision for a greener and more sustainable future.



Annual Production

	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	1,837.2	
	POA Irradiance	1,882.6	2.5%
	Shaded Irradiance	1,877.7	-0.3%
	Irradiance after Reflection	1,813.0	-3.4%
	Irradiance after Soiling	1,758.6	-3.0%
	Total Collector Irradiance	**1,758.6**	**0.0%**
Energy (kWh)	Nameplate	2,930,238.7	
	Output at Irradiance Levels	2,918,249.4	-0.4%
	Output at Cell Temperature Derate	2,615,738.2	-10.4%
	Output after Electrical Mismatch	2,526,163.0	-3.4%
	Optimal DC Output	2,478,402.4	-1.9%
	Constrained DC Output	2,445,728.2	-1.3%
	Inverter Output	2,403,595.5	-1.7%
	Energy to Grid	**2,379,559.4**	**-1.0%**
Temperature Metrics			
	Avg. Operating Ambient Temp		30.6 °C
	Avg. Operating Cell Temp		48.1 °C
Simulation Metrics			
	Operating Hours		4651
	Solved Hours		4651

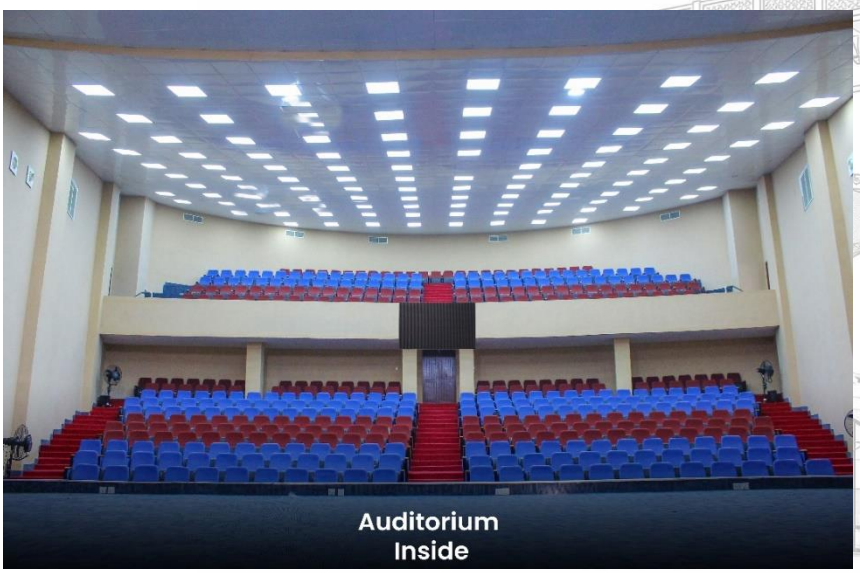
Condition Set

Description	Tender 1664kW											
Weather Dataset	TMY, 10km Grid, Meteonorm 8 (meteonorm_v8)											
Solar Angle Location	Meteo Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Diffusion Model											
Temperature Model Parameters	Rack Type					U_{const}			U_{wind}			
	Fixed Tilt					29			0			
	Flush Mount					15			0			
	East-West					29			0			
	Carport					29			0			
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	3	3	3	3	3	3	3	3	3	3	3	3
Albedo	J	F	M	A	M	J	J	A	S	O	N	D
	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Rear Mismatch Loss	10%				Rear Shading Factor			5%				
Module Transparency	0%											
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	1.00%											

Module & Component Characterizations	Type	Component	Characterization	Bifacial
	Module	66HL5-BDV 720W (Jinko Solar)	Spec Sheet Characterization, PAN	True
	Inverter	125M1-HYB (400) (Sigenergy)	Spec Sheet	N/A

Energy Efficient Appliances/ Equipment Usage at Aror University Sukkur.

Aror University of Art, Architecture, Design and Heritage, Sukkur, emphasizes sustainability by incorporating energy-efficient appliances and equipment across the campus. The university utilizes LED lighting, energy-efficient air conditioning systems, and motion-sensor lighting to reduce electricity consumption. Energy-efficient computers and devices are used in labs and offices, while energy-saving practices are encouraged among staff and students. These measures not only contribute to environmental sustainability but also help in reducing operational costs, aligning with the university's commitment to eco-friendly practices.







Energy Efficient Appliances Usage: Use of LED lighting in all Academic Buildings

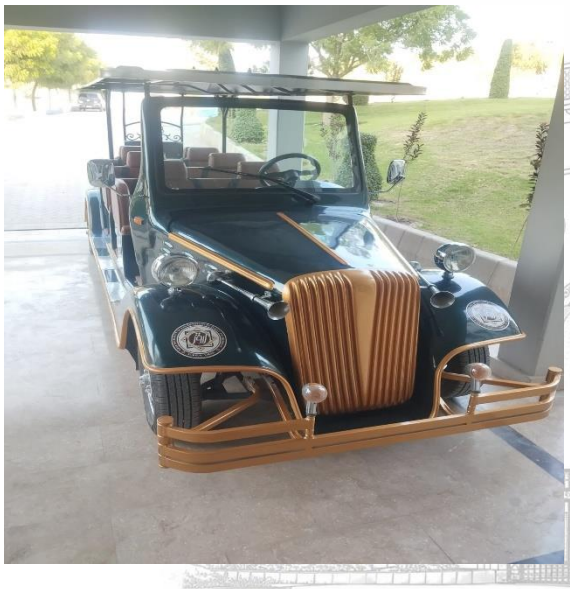




Energy Efficient Appliances Usage

Promotion of Environmentally Friendly Transportation

Aror University of Art, Architecture, Design & Heritage, Sukkur, has taken an initiative to promote environmentally friendly transportation through the procurement of an electric vehicle (EV) for campus use. This initiative reflects the university's commitment to sustainable mobility, environmental protection, and the promotion of a cleaner campus environment. The use of electric transportation can help reduce dependence on conventional fuel-powered vehicles and associated direct emissions, subject to the vehicle's electricity source. This initiative supports the university's broader efforts to advance climate action and sustainable campus operations.





Collaboration with WWF for a Clean and Green Campus

Aror University is collaborating with the Worldwide Fund for Nature (WWF) through its Green Campus Initiative (EcoSmart Campus) to promote environmental awareness and sustainable practices within the university. The initiative encourages tree plantation, cleanliness, water conservation, and wildlife protection. The university has also displayed environmental awareness signage, including "Panda's Guide to a Clean and Green Environment," to encourage students, faculty, and staff to adopt environmentally responsible practices. These activities demonstrate the university's commitment to environmental stewardship and complement its broader efforts toward climate action and sustainability.



13.2.2.1 - Total energy used 1255 GJ

13.2.2.2 - Total energy used from low-carbon sources 01GJ

13.3 ENVIRONMENTAL EDUCATION MEASURES

13.3.1 - Does your university as a body provide local education programmes or campaigns on climate change risks, impacts, mitigation, adaptation, impact reduction and early warning?

2nd International Symposium on "Drastic Challenges of Climate Fluctuations and Sustainability of Biodiversity, Quality of Life, and the Environment."

June 21, 2025, Sukkur–Aror University of Art, Architecture, Design & Heritage, Sukkur, proudly hosted the **2nd International Symposium on "Drastic Challenges of Climate Fluctuations and Sustainability of Biodiversity, Quality of Life, and the Environment."** The event brought together prominent national and international scholars, environmental experts, and thought leaders to deliberate on critical issues surrounding climate change and sustainability.

The **Opening Ceremony** was graced by **Mr. Muhammad Abbas Baloch**, Secretary, Universities & Boards Department, Govt. of Sindh, as the **Chief Guest**.

The Vice Chancellor, Prof. Dr. Zahid Hussain Khand welcomed all esteemed guests and speakers. In his address, he shared a comprehensive presentation outlining the University's vision, mission, and strategic goals.

The symposium featured thought-provoking **keynote addresses** by Dr. Steven Bonta (USA), Prof. Dr. Zeliha Selamoglu (Turkey), Dr. Ece Aksoy (Italy), Prof. Dr Dengxin Li (China) and Dr Iqbal Hussain Jafri, JFK, USA on global climate issues and environmental sustainability. Other distinguished **Guests of Honour** included: Prof. Dr. Muhammad Yousif Khushk, Vice Chancellor, SALU, Khairpur, Prof. Dr. Asif Ahmed Shaikh Vice Chancellor, SIBAU, Mr. Yousuf Bashir Qureshi, CEO, YBQ Studio, Engr. Prof. Dr. Altaf Ali Siyal, Vice Chancellor, Sindh Agriculture University, Tandojam, Prof. Dr. Mehmood ul Hassan, Vice Chancellor (Acting), SAU, Shikarpur, Dr MB Raja Dharejo, DC, Sukkur, Prof. Dr. Shazia Anjum, Vice Chancellor, Government Sadiq College Women University, Bahawalpur and prof Dr Syed Mir Muhammad Shah, PVC, Sukkur IBA University who highlighted the key factors of climate change & shared valuable insights for sustainable environment leading to quality of life.

Participants also visited an **Exhibition of student projects**, which shows the University's slogan, i.e., Learn, Earn and Grow, received widespread appreciation for showcasing creative and sustainable solutions to environmental challenges

The event featured two engaging **panel discussions**:

• **Panel I**: The Global Impact of Climate Change on Human Health and Livelihoods

• **Panel II**: Impact of Climate Change on the Sustainability of Biodiversity and Environment

A keynote address by **Mr**. **Naseer Memon**, Climate Change Expert, further deepened the dialogue with expert insights and solutions.

The **closing ceremony** was graced by **Mr**. **Fayaz Hussain Abbasi**, Commissioner Sukkur and **Prof**. **Dr Syed Mir Muhammad Shah**, PVC, Sukkur IBA University, who applauded the leadership of Aror University for organizing a world-class academic event in the historic region of Aror and Rohri.

In his closing remarks, **Prof**. **Dr**. **Zahid Hussain Khand**, Vice Chancellor, expressed heartfelt gratitude to all national and international speakers, Sindh HEC, Sukkur Beverages Pvt Ltd, and the organizing team for their dedicated efforts in making the symposium a resounding success.

Web Link: https://aror.edu.pk/news-events/2nd-international-symposium-2025/?utm_source=chatgpt.com











International Day of Biodiversity 2025

Purpose: The Department of Environmental Sciences, Aror University, organized International symposium on 21st June 2025. It addresses Indicator 13.3.1. The Department of Environmental Sciences commemorated the International Day of Biodiversity (22 May 2025). On this occasion, visitors and students from all academic batches actively participated and presented their research and survey-based work focusing on the biodiversity of Pakistan, particularly the Sindh province. The event emphasized the critical importance of biodiversity and its ecological role in sustaining life on Earth and also proposed actionable plans aligned with the United Nations Sustainable Development Goals (SDGs).



International Day of Biodiversity

The Department of Environmental Sciences commemorated the International Day of Biodiversity (6th May 2025). On this occasion, visitors and students from all academic batches actively participated and presented their research and survey-based work focusing on the biodiversity of Pakistan, particularly the Sindh province. The event emphasized the critical importance of biodiversity and its ecological role in sustaining life on Earth and also proposed actionable plans aligned with the United Nations Sustainable Development Goals (SDGs).



World Environment Day Campaign 2025

The Department of Environmental Sciences celebrated the "World Environment Day" on June 5, 2025 at Aror University, Sukkur.

The Honorable Vice Chancellor, Prof. Dr Zahid Hussain Khand inaugurated the event with an Awareness Walk on the theme: "Ending Plastic Pollution" to reaffirm the commitment of Aror University to a greener and more sustainable future. Following the walk, students of the Department of Environmental Sciences namely Mr. Sham Kumar (F-24) delivered presentation on the _Impacts of Plastic Pollution and Yousuf Khan (F-23) highlighted some Sustainable Alternatives to Plastics. A documentary on plastic pollution in Pakistan was also played on screen to uncover the fact that it has become a silent killer in Pakistan. The event was hosted by Engr. Zafarullah Rind, Lecturer, Department of Environmental Sciences. At the end of the session, the Chairman, Dr. Altaf Alam thanked the faculty, management and students for their participation on World Environment Day.









Seminar on "Climate Change, Sustainability and HS: Industry Response and Future Direction"

Purpose: The Department of Environmental Sciences, Aror University, hosted this one-day seminar on 4 September 2025 with Mr. Aftab Ahmed. The session belongs to the Department's program of guest lectures by external experts. It addresses Indicator 13.3.1 by informing participants of industry responses to climate change and the future direction of sustainability and health and safety practice. The target audience was students and faculty.





Seminar on Career Scope and Emerging Trends in Health, Safety and Environment across Pakistan

Purpose: The Department of Environmental Sciences, Aror University, hosted this one-day seminar on 25 November 2025 with Engr. Shahzad Ali, HSE/Environment & Social Engineer, Internationally Certified Trainer as invited speaker. The seminar supports the Department's industry-linkage program. It addresses Indicator 13.3.3 by presenting environmental and safety career pathways and emerging trends to students who will work on climate mitigation and adaptation.





“Clean Today, Sustain Tomorrow” Awareness Drive

Purpose: The Department of Environmental Sciences, Aror University, led this drive on 8 April 2025, at the Logo Area of the University campus, with the Go Green and Beautification Society (Sustainability and Climate Action). It addresses Indicator 13.3.1 by running a campus campaign on waste clean-up, recycling and plant care as practical mitigation measures. The target audience was students, faculty and staff of the University.





“Green Sukkur” Tree Plantation Drive

Purpose: Town Municipal Corporation III, Sukkur, hosted this drive on 17 September 2025, 10:00, at Canal Road, Basheerabad, Sukkur, with the Department of Environmental Sciences, Aror University. The Deputy Commissioner Sukkur attended as Chief Guest and the University’s Vice Chancellor as Special Guest. It addresses Indicator 13.3.1 by engaging the public in tree planting as a climate mitigation and urban heat adaptation measure. The target audience was students, municipal officials, school representatives and civic organizations in Sukkur.





13.3.2 - Does your university as a body have a university Climate Action plan, shared with local government and/or local community groups?

Memorandum of Understanding with Village Development Organization (VDO), Ghotki, Sindh

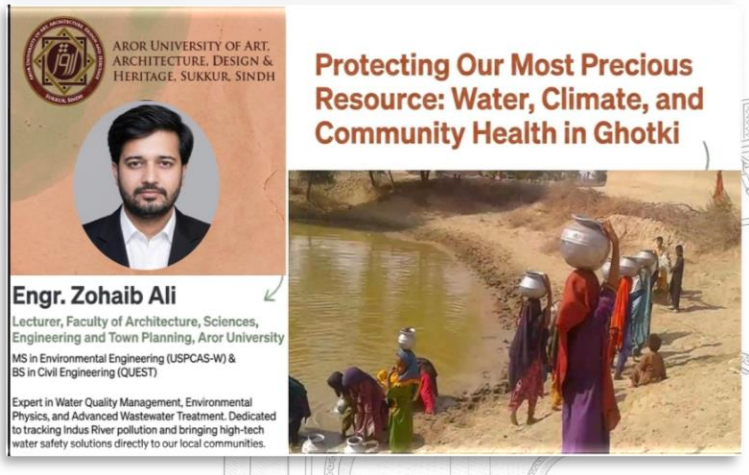
Purpose: The Department of Environmental Sciences, Aror University, signed this MoU with the Village Development Organization (VDO), Ghotki, Sindh, on 10 June 2025. The MoU establishes a framework for community-based research, outreach and student engagement on water quality, waste management and sustainable agriculture, directly supporting Indicator 13.3.2 as the channel through which the University Climate Action Plan reaches community groups. The geographic scope is rural communities in Ghotki and the Sukkur region. The target audience is VDO members, rural households and University students placed with VDO.



Flagship Session — "Protecting Our Most Precious Resource: Water, Climate, and Community Health in Ghotki"

Purpose: Engr. Zohaib Ali, Lecturer Environmental Sciences, Engineering and Town Planning, Aror University, leads this session for the Department of Environmental Sciences under the VDO MoU. The session applies the MoU's community outreach scope to water, climate and community health, drawing on the speaker's work on Indus River pollution and GIS pollution mapping of the Indus River Basin. It addresses Indicator 13.3.2 by presenting the climate priorities of the University Climate Action Plan to community groups in Ghotki. The target audience is households and community groups in Ghotki that depend on surface water.





University Climate Action Plan Shared with Community Groups

Purpose: The Department of Environmental Sciences, Aror University, established **Biodiversity Club** on the occasion of "International Day of Biodiversity 2026" to promote and enhance the conservation of local Biodiversity accordance with natural disasters and climatic fluctuations. The founder and focal person is **Mr. Fida Hussain** faculty member of Environmental Sciences and members are included from various Student's batches of BS-Environmental Sciences. The Biodiversity Club has organized various International and Departmental programs related with public awareness and welfare of life.



13.3.3 - Does your university as a body participate in co-operative planning for climate change disasters, that may include the displacement of people both within a country and across borders, working with government?

Fire Safety and Prevention Workshop with Rescue 1122, Government of Sindh

Purpose: The Department of Environmental Sciences, Aror University, organized this workshop with Sindh Emergency Service Rescue 1122, Government of Sindh. The workshop covered hazard prevention, fire suppression, assembly-point procedures and first aid, addressing Indicator 13.3.3 through co-operative disaster-preparedness work with a government emergency service in a region exposed to extreme heat. The target audience was University students, faculty and staff, with registration through an online form.





13.3.4 - Does your university as a body inform and support local or regional government in local climate change disaster/risk early warning and monitoring?

Memorandum of Understanding with RESOLVE–SUPARCO

Purpose: The Department of Environmental Sciences, Aror University, signed this MoU with RESOLVE–SUPARCO, linked to the Pakistan Space and Upper Atmosphere Research Commission, on 14 April 2026. The MoU establishes a framework for joint research, technical data sharing, and training in remote sensing and GIS, directly supporting Indicator 13.3.4 on early warning and monitoring. The geographic scope is the Sukkur and Indus basin region.



13.4 COMMITMENT TO CARBON NEUTRAL UNIVERSITY

13.4.1 - Does your university as a body have a target date by which it will become carbon neutral according to the Greenhouse Gas Protocols?

Aror University of Art, Architecture, Design & Heritage, Sukkur is committed to playing its part in promoting a healthy and green environment through sustainable practices, environmental awareness, and climate action initiatives.

In partnership with WWF, the University has established a Green Office Initiative to foster environmental responsibility across its academic and administrative operations. As part of its commitment to addressing climate change, Aror University actively integrates sustainability principles into its policies, programs, and campus activities. These efforts are guided by the University Strategic Plan 2030, which is aligned with the United Nations Sustainable Development Goals (SDGs), ensuring that environmental sustainability, climate resilience, and a healthy ecosystem remain central to the University's vision for the future.

REGISTRAR OFFICE

NO. REG/AU-SKR/1561-2024
Dated: 02/09 /2024

NOTIFICATION

The Worthy Vice Chancellor is pleased to notify the following members in AU Green Campus Committee based on following officers, till further orders.

SN	Representation/Designation	Name	Role
1	Registrar	Dr. Pir Suhail Ahmed Sarhandi	Convener
2	Deputy Registrar/ Green Campus Coordinator / Focal Person WWF	Syed Shaiq Ali Musavi	Member & Secretary
3	Student Counsellor	Engr. Sadaquat Hussain	Member
4	Assistant Registrar Transport	Mr. Muhammad Mustafeez	Member
5	Accountant	Mr. Osama Shaikh	Member
6	Faculty Member – FoD	Ms. Shaheen Fatima	Member
7	Faculty Member – FATP	Ar. Wamiq Khan	Member
8	Faculty Member – FoII	Mr. Amin Chandio	Member
9	Faculty Member – FP2A	Mr. Kashif Mangi	Member
10	Faculty Member – AI	Ms. Samreen Dehto	Member
11	IT Department	Mr. Ayaz Jumani	Member
12	HR Department	Mr. Arif Hussain	Member
13	Faculty Mentor – Go Green Society	Mr. Najeeb Jatoi	Member
14	President AU Student Council (AUSC)	Mr. Jam Shahriyar	Member

Purpose of the Committee:

a. The AU Green Campus Committee is dedicated to promoting sustainability and environmental responsibility on campus. The committee aims to create a greener, more sustainable campus environment through education, initiatives, and collaborative efforts.

TORs of the Committee:

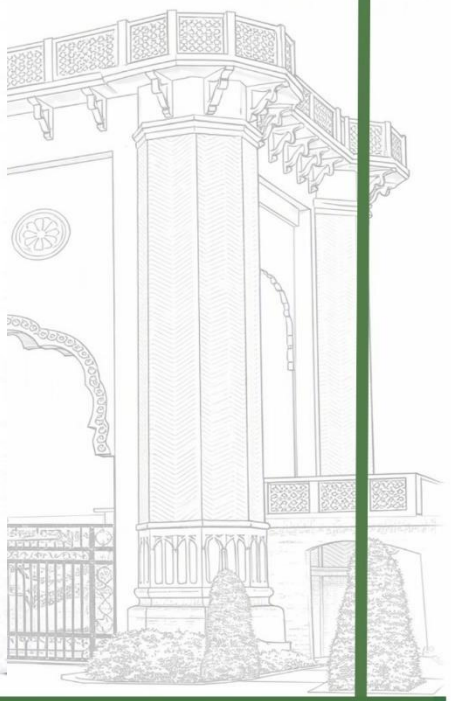
b. Promote Environmental Awareness: Educate the campus community about environmental issues and sustainable practices.
c. Implement Green Initiatives: Develop and execute projects that enhance campus sustainability.
d. Reduce Carbon Footprint: Identify and implement strategies to minimize the campus's environmental impact.
e. Encourage Community Involvement: Engage students, faculty, and staff in sustainability efforts.

This is issued with the approval of the Vice Chancellor.

REGISTRAR
(Dr. Pir Suhail Ahmed Sarhandi)

Cc for information to:
1- P.A to Vice Chancellor, Aror University Sukkur
2- All Members
3- Master File

E-Mail: registrar@aror.edu.pk | Address: National Highway, Rohri Bypass, Sukkur.



E-STAMP

ID :	PB LHR 6F173FE3B59A7C11
Type :	Low Denomination
Amount :	Rs 100
Description :	CERTIFICATE OR OTHER DOCUMENT-19
Applicant:	WWF [10000-0000000-0]
Representative From:	WWF
Agent:	SHAFIQUE
Address:	LAHORE
Issue Date:	16-Jan-2024 9:51:16 PM
Delisted On/ Validity :	23-Jan-2024
Amount in Words :	One Hundred Rupees Only
Reason :	AFFIDAVIT
Vendor Information:	Muhammad Afzal I PB-LHR 60 I Ferozpur Road Lhr

Scan for online verification

GREEN CAMPUS

WWF

Contract for Green Campus Initiative Cooperation

(January 17, 2024)

1. CONTRACT PARTIES

Institute Name "Aror University of Art, Architecture, Design & Heritage, Sukkur"
(Hereafter "Aror University Sukkur")

and

World Wide Fund for Nature–Pakistan
(Hereafter "WWF-Pakistan")

By entering into this Contract, **Aror University Sukkur** and **WWF-Pakistan** agree on Green Campus co-operation, the aim of which is to make **Aror University Sukkur** environmentally friendly by continuously reducing its environmental burden and use of natural resources as well as trying to positively influence the preservation of biodiversity.

Under this Contract, the WWF-Pakistan's Green Campus Certification Programme will be implemented in the premise of **Aror University Sukkur** located at **RCW Rohri Bypass, Sukkur, Sindh.**

2. AROR UNIVERSITY: RESPONSIBILITIES AND OBLIGATIONS

2.1 Criteria
Aror University Sukkur will set up a practical Environmental Management System (EMS) for its premise. In order to get the right to use the Green Campus Certification logo, Aror University Sukkur has to fulfil WWF-Pakistan's Green Campus criteria (See Annex 1). WWF-Pakistan keeps the right to modify its criteria but will give Aror University Sukkur reasonable notice of such changes on a regular basis.

2.2 Implementation of the Green Campus EMP
During the assessment process, Aror University Sukkur will send WWF-Pakistan a copy of its environmental programme/objectives and the completed assessment questionnaire. WWF-Pakistan will audit the Aror University Sukkur to make sure the criteria have been fulfilled at a practical level.

The exact date of audit will be mutually agreed upon in writing by both Parties. Prior to conducting the audit, Aror University will communicate WWF-Pakistan that they have fulfilled the criteria and are ready to get the certification audit done, after which WWF-Pakistan's team shall be visiting to conduct the audit.

2.3 Annual Report and Audit

Aror University Sukkur will send WWF-Pakistan its updated environmental programme and its indicator figures according to WWF-Pakistan's instructions on monthly basis and then the compiled data once a year. Unrestricted access to all the information regarding environmental programme will be provided. WWF-Pakistan will review Aror University Sukkur's environmental programme and audit its premise every year (See Annex 2). The date for the annual audit will be mutually agreed. A representative from WWF–Pakistan will physically audit the Aror University Sukkur.

2.4 Marketing & Communication

Aror University Sukkur may use the Green Campus logo and certification for marketing purposes according to the guidelines which will be given by WWF-Pakistan after the company is certified for Green Campus Initiative. Aror University Sukkur will in no way harm the positive and credible public image of the Green Campus concept.
At minimum, WWF trademarks planned to be used, must be reviewed and approved by WWF-Pakistan. Also the communications plan at minimum should outline target audience, media prioritization, and content that must be communicated, etc.

3. WWF-PAKISTAN'S RESPONSIBILITIES AND OBLIGATIONS

The Green Campus programme helps WWF-Pakistan to reach its goals of promoting sustainable consumption of natural resources and reducing pollution.

3.1 Publicity

Once WWF-Pakistan is satisfied that Aror University Sukkur has fulfilled the criteria, it will give Aror University Sukkur the right to use the Green Campus logo and a diploma.

In addition, the name of Aror University Sukkur will be displayed on the WWF-Pakistan Green Campus website and Aror University Sukkur wAlso, WWF-Pakistan will mention Aror University Sukkur publicly when relevant but not without obtaining the prior consent of Aror University.

WWF-Pakistan may use Aror University Sukkur's name in a positive way when marketing the Green Campus concept but not without obtaining the prior consent of Aror University Sukkur.

3.2 Components of the Green Campus Initiative

- Orientation Session – Visit/Virtual Meet of WWF-Pakistan representative to or with Aror University Sukkur
- Creation of Environmental Management Plan (EMP) – Visit/Virtual Meet of WWF-Pakistan representative to or with Aror University Sukkur for mutual creation and finalization of the plan
- Audit and Monitoring – Visit of WWF-Pakistan representative to Aror University Sukkur for conducting the audit at the frequency of once a year.
- WWF-Pakistan and Aror University Sukkur's representative(s) shall comply all COVID-19, safety and other site entrance protocols during above mentioned audit(s) / visit(s).

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3.3 Green Campus Services

The training is for the Green Campus co-ordinators and staff. The number of participants in each event will be announced beforehand. This training is conducted after the audit.

WWF-Pakistan will provide full assistance to Aror University, Sukkur in the following forms:

- Consultation for EMS development for Green Campus
- Meeting with Aror University Sukkur's Green Campus team for guidance and motivation
- Help in Key Performance Indicators (KPI) selection and calculation of carbon footprint
- Help in EMS implementation (guidance)
- Annual Audits (see section 2.3 for details)
- Annual trainings on environmental conservation and sustainability workshops
- Student and staff engagement activities on environment and nature conservation including workshops, green spaces development and implementation

In order to further improve the environmental programmes and to promote environmental awareness, WWF-Pakistan provides the Green Campuses with Eco Tips and Newsflashes through the Green Campus e-mailing list.

Aror University Sukkur may subscribe to the Natura magazines free of charge. Natura magazine comes out four times a year.
If Aror University wishes to subscribe, Aror University will have to put in a request to WWF-Pakistan through an email. This is a quarterly magazine and contains success stories and articles on what is happening in the world of environmental conservation.

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3.4 **Obligations**

WWF-Pakistan and Aror University will ensure strong positive reputation among stakeholders across multiple categories and general public, meet expectations of stakeholders and avoid all reputational risk.

4. **OTHER CO-OPERATION**

WWF-Pakistan and Aror University Sukkur may enter into separate contracts for co-operation in other sectors of environmental protection.

5. **EXPENSES AND PAYMENT**

Aror University Sukkur shall make the following payments to WWF-Pakistan:

Payment Timeline & Item	Amount (PKR)
Non-Recurring Registration Fee to be paid after agreement signing	PKR 100,000/-
1st Year Annual Fee to be paid right after the certification audit	PKR 250,000/-
2nd Year Annual Fee to be paid right after the 1st Surveillance Audit	PKR 250,000/-
3rd Year Annual Fee to be paid right after the 2nd Surveillance Audit	PKR 250,000/- + ***mutually agreed increment***
3rd Year Annual Fee to be paid right after the 3rd Surveillance Audit	***Same amount paid in 3rd year***

The payments are to be made to the official account of WWF-Pakistan as per the schedule provided in annex 3. The due date for payment is 30 days from the day the bill has been received. It is understood that all payments shall be made subject to deduction of withholding tax. However, no withholding tax will be deducted, if WWF-Pakistan provides a valid tax exemption certificate issued by a competent authority.

Aror University Sukkur shall pay for the cost (Travel, boarding, lodging of the Auditors/Trainers/ Presenters) incurred for conducting certification or subsequent surveillance audits and workshops. Aror University Sukkur is under the obligation to inform WWF-Pakistan on changes that affect the Contract and WWF-Pakistan is also under an obligation to inform Aror University Sukkur on changes, if any, that may affect the contract.

6. **VALIDITY OF THE CONTRACT, CHANGES TO AND TERMINATION OF THE CONTRACT**

This Contract will become valid for a period of **Four years** from the date of its signing.

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WWF-Pakistan keeps the right to improve the Green Campus concept and change the fees if necessary. In case of changes, the Contract will be reviewed and shall be subject to the consent of both the parties.

Both parties have the right to terminate this Contract by written notice after hearing the other party. The period of notice is one (1) month. WWF-Pakistan is not obliged to return the annual fee once it has been paid. In case the reason for terminating the Contract is malpractice or negligence of WWF-Pakistan, WWF-Pakistan is obliged to return the annual fee paid for the current year.

WWF-Pakistan may cancel the right to use the Green Campus logo without returning the annual fee if audits or information obtained otherwise show that Aror University Sukkur does not fulfil the criteria or misuses the logo, and the situation is not corrected within three (3) months after WWF-Pakistan has sent a notice to this effect.

Upon termination of the Contract, Aror University Sukkur must remove the Green Campus logo from use immediately unless agreed otherwise.

7. SECRECY AND TRANSFER OF CONTRACT

Notwithstanding termination of this Contract the Contract parties will not misuse or disclose to third parties any confidential information or business or professional secrets concerning the other party.

This Contract cannot be transferred to a third party nor changed without the written consent of the other party given in advance.

8. NO DETRIMENTAL ACTIVITY

WWF-Pakistan aims to conserve nature and ecological processes by:

- Preserving genetic, species, and ecosystem diversity
- Ensuring that the use of renewable natural resources is sustainable, both now and in the longer term
- Promoting action to reduce pollution and the wasteful exploitation and consumption of resources and energy

WWF-Pakistan's mission is to stop the degradation of the planets natural environment and to build a future in which human's lives in harmony with nature.

Aror University Sukkur will not engage in any activity during the term of contract which may be against the mission of WWF-Pakistan.

9. GOVERNING LAW

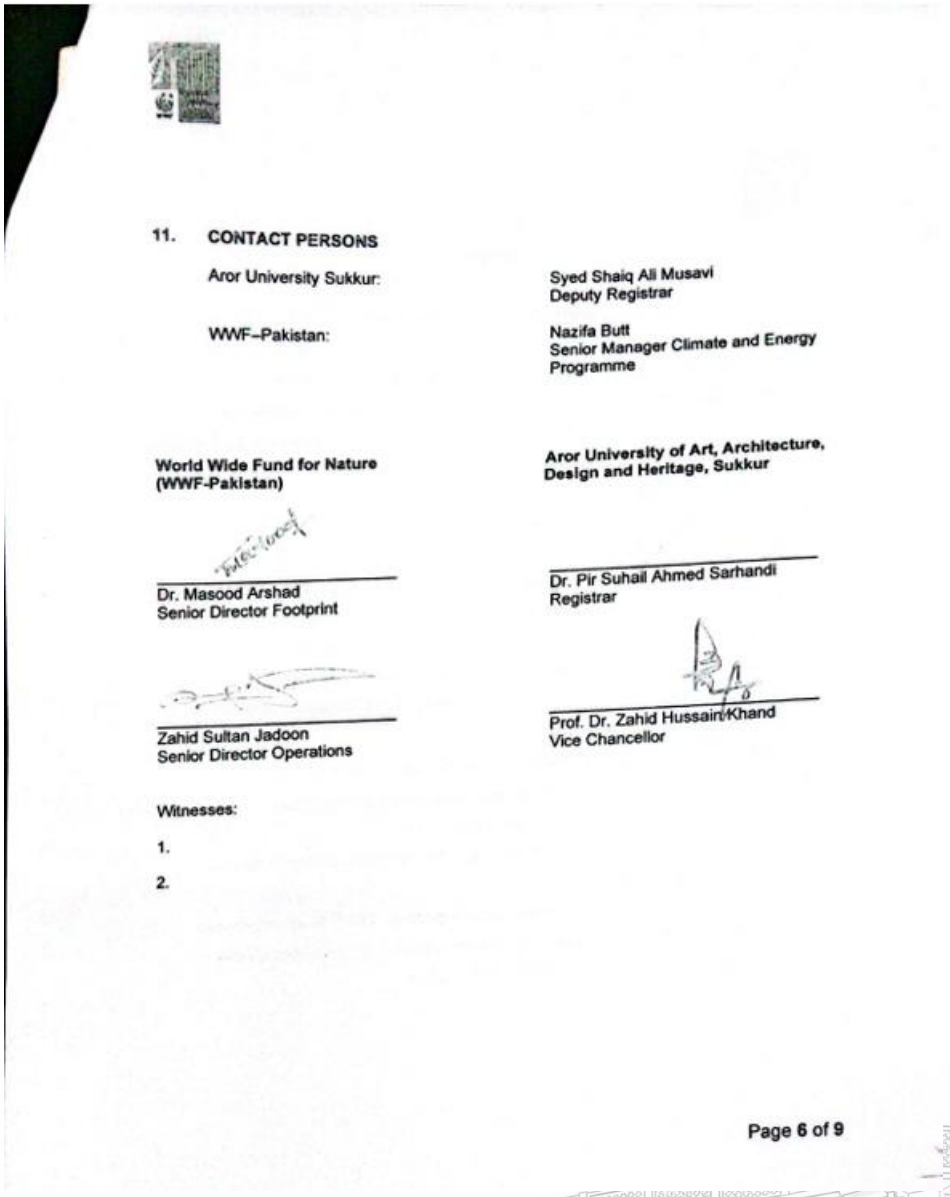
This agreement shall be governed and construed by the laws of the Islamic Republic of Pakistan and the courts in Lahore shall have non-exclusive jurisdiction.

10. CONTRACT COPIES

The Contract has been made in two identical copies, one for each party.

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11. **CONTACT PERSONS**

Aror University Sukkur:	Syed Shaiq Ali Musavi Deputy Registrar
WWF–Pakistan:	Nazifa Butt Senior Manager Climate and Energy Programme

World Wide Fund for Nature (WWF-Pakistan)

Dr. Masood Arshad
Senior Director Footprint

Zahid Sultan Jadoon
Senior Director Operations

Aror University of Art, Architecture, Design and Heritage, Sukkur

Dr. Pir Suhail Ahmed Sarhandi
Registrar

Prof. Dr. Zahid Hussain Khand
Vice Chancellor

Witnesses:

1.

2.

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13.4.2 – Aror University has developed a strategic plan for 2030 addressing all the SDGs in which one of the focused area is **Carbon Neutrality** which will be achieve by **2030**.