

Ninth Session of the IOC Regional Committee for the Central Indian Ocean (IOCINDIO-IX)  
Dhaka, Bangladesh, 28–30 March 2023

**Template for national Report (deadline for submission: 14 March 2023)**

Please, provide a brief description of the country programmes related to the IOCINDIO Work programme based on the IOC global functions.  
**NB:** Feel free to provide additional programmes even if different of the below listed.

**Country:** ISLAMIC REPUBLIC OF PAKISTAN

**Presenter(s) full names and position:** DR. SAMINA KIDWAI, DIRECTOR GENERAL, NATIONAL INSTITUTE OF OCEANOGRAPHY, PAKISTAN, MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF PAKISTAN

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**Names of members of national delegation attending IOCINDIO-VIII**

DR. SAMINA KIDWAI

<b><u>IOC Function A : Ocean Science and Research</u></b>				
<b><u>IOCINDIO Programme: Effects of human induced changes: Ocean acidification, eutrophication, hypoxia, harmful algal blooms (HABs) in coastal waters of the North-western Indian Ocean</u></b>				
<b>Projects Titles &amp; Leaders</b>	<b>Activities</b>	<b>Geographical scope Regional/National benefitting countries</b>	<b>Budget/funding sources National/Regional/international</b>	<b>Results/impacts</b>
Dr. Samina Kidwai et al., <b>NANO-DOAP</b> - A global study of coastal Deoxygenation, Ocean Acidification and Productivity at selected sites Field Observations & Laboratory Analysis, 5 contributing stations from Pakistan (since 2021), Global – (18 participating countries), National funds, global study, national regular monitoring stations and national database				
<b><u>IOC Function B: Observing Systems &amp; Data</u></b>				
<b><u>IOCINDIO Programme: Ocean observations, coastal zone management, circulations and fisheries.</u></b>				
<b>Projects Titles &amp; Leaders</b>	<b>Activities</b>	<b>Geographical scope Regional/National benefitting countries</b>	<b>Budget/funding sources National/Regional/international</b>	<b>Results/impacts</b>
	PSDP project			On-going

Dr. Ibrahim Zia et al.,	<b>Ocean Observations</b>  Monitoring The Seawater Intrusion, Sea Level Rise, Coastal Erosion & Land Subsidence along Sindh and Balochistan Coast	National	National	
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**IOC Function C: Ocean Hazards**

**IOCINDIO Programmes**

- Coastal vulnerability assessment for sea level rise and storm surges.
- Monitoring with Responsible Response of Oil Spill in inner ROPME Sea.

Projects Titles & Leaders	Activities	Geographical scope Regional/National benefitting countries	Budget/funding sources National/Regional/international	Results/impacts
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BARRACUDA EXERCISES National Contingency Plan & Implementation Exercises (every 2 year), National, National, National Preparedness for Emergencies on coast, coastal waters and open sea

**IOC Function D: Assessments & information for Policy**

**IOCINDIO Programmes: 2050 Integrated Ocean Policy Advice for Proactive Planning and Management for IOCINDIO Member States.**

Projects Titles & Leaders	Activities	Geographical scope Regional/National benefitting countries	Budget/funding sources National/Regional/international	Results/impacts
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**IOC Function E: Governance**

**IOCINDIO Programme: Blue Economy Business opportunities in the context of climate change adaptation and Disaster Risk Reduction.**

Projects Titles & Leaders	Activities	Geographical scope Regional/National benefitting countries	Budget/funding sources National/Regional/international	Results/impacts
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**IOC Function F: Capacity Development**

**IOCINDIO Programme: IOCINDIO Networking Research Infrastructures, Facilities and Human Resources.**

Projects Titles & Leaders	Activities	Geographical scope Regional/National benefitting countries	Budget/funding sources National/Regional/international	Results/impacts
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**ANY OTHER PROGRAMMES/PROJECTS RELEVANT TO IOC, IOCINDIO AND THE UN DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT (2021-2030)**

- Ocean Day 2022 Seminar, International, National
- Young Researchers Awareness Program (NIO Pakistan, Pakistan Council for Research in Water Resources – PCRWR) since December 2022
- 40<sup>th</sup> Year Commemoration of National Institute of Oceanography, Seminar
- **PIMEC 2023**, Pakistan International Marine Expo & Conference 2023 , Exhibition & International Conference 12-14 February 2023, International, National & participating countries, Net-working and Reach out