



## MEMORANDUM OF UNDERSTANDING

For

**Bilateral Collaboration on Disaster Risk Reduction and Climate Resilience**

Between

**SUPARCO**

Pakistan Space and Upper Atmosphere Research Commission

&

**PDMA Sindh**

Provincial Disaster Management Authority  
Rehabilitation Department, Government of Sindh

**MEMORANDUM OF UNDERSTANDING**

Between

**SUPARCO**

&

**Provincial Disaster Management Authority  
Rehabilitation Department, Government of Sindh**

Signed for Provincial Disaster Management Authority, Rehabilitation Dept, Govt. of Sindh.  
Signed for Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)

Date 11/10/2024

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# MEMORANDUM OF UNDERSTANDING

Between

SUPARCO

&

**Provincial Disaster Management Authority  
Rehabilitation Department, Government of Sindh**

For

**Bilateral Collaboration on Disaster Risk Reduction and Climate Resilience**

This memorandum of understanding (hereinafter referred to as “MoU”) is made on \_\_\_\_\_ 2024 (which is the “effective date” of MoU), at Karachi,

between

Pakistan Space & Upper Atmosphere Research Commission (SUPARCO) a government organization duly established and existing under the laws of Pakistan with its principal office at SUPARCO Complex Karachi (SCK), SUPARCO Road, Karachi.

and

on the other hand Provincial Disaster Management Authority (PDMA), Rehabilitation Department, Government of Sindh, 26-C Main Khayaban-e-Jami Phase 7 Defence Housing Authority, Karachi, Sindh

All of the above shall be referred to individually as a party and collectively as Parties.

**WHEREAS**, Pakistan Space and Upper Atmosphere Research Commission (SUPARCO), the national space agency is mandated to conduct R&D in space science, space and allied technologies, and their peaceful applications in the country. It works towards developing indigenous capabilities in space and allied technology based solutions and promoting space applications for socio-economic uplift and well-being of the country.

**WHEREAS**, Provincial Disaster Management Authority (PDMA), Rehabilitation Department, Government of Sindh and mandated to prepare for and manage disasters in the province and enhance provincial capacity in disaster management and disaster risk reduction.

The SUPARCO and PDMA Sindh agree to ensure closer and systematic collaboration, cooperation and corroboration on research and development in disaster management, design and implementation of space and allied technology based

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Signed for Provincial Disaster Management Authority, Rehabilitation Dept, Govt. of Sindh.

Date

11/10/2024

Signed for Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)

Date

solution for disaster risk reduction, climate adaptation and resilience and furthering the provincial capacity in disaster preparedness, coordination, response, recovery and rehabilitation through the use of contemporary technologies, tools and techniques.

Now therefore, on the basis of mutual trust and in the spirit of cooperation, the SUPARCO & PDMA Sindh entered into a partnership through this Memorandum of Understanding ("the MoU") that shall commence upon signature by both parties.

**NOW THEREFORE THIS MoU WITNESSTH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES AS UNDER;**

## ARTICLE - I

### Purpose and Scope

The purpose of this MoU is to maximize the collaboration, cooperation, coordination and corroboration for joint research and development for indigenous solutions for efficient and cross cutting disaster management, disaster risk reduction and climate adaptation and resilience. Both parties shall continue and enhance existing working relationship on Multi-Hazard Vulnerability and Risk Assessment (MHVA) and Disaster Management Information System (DMIS), updation of MHVRA and up-gradation of DMIS. Parties shall jointly prepare technical proposals for augmentation of provincial capacity in disaster management, disaster risk reduction, climate adaptation & resilience and collaborate for seeking funding sources and development and implementation of cutting edge solutions.

## ARTICLE- II

### Terms of Reference

- i. The partners undertake to work together in the achievement of the objectives of this collaboration in good faith and in a spirit of friendly cooperation, as set out in this MoU with reference to TORs mentioned hereunder;
  - a) Joint research and development on cutting edge technologies, tools and techniques applicable in disaster management, disaster risk reduction, climate adaptation and resilience.
  - b) Joint efforts in preparation of project proposals, identification of funding sources and joint venture for seeking project financing.
  - c) Conduct of joint micro level studies and research on identification of physical, social vulnerabilities and disaster risks in the province.
  - d) Joint studies on climate change, its impacts and measures for climate resilience in the province.

Signed for Provincial Disaster Management Authority, Rehabilitation Dept, Govt. of Sindh.

Signed for Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)

Date 11/10/2021

Date

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- e) Joint venture on mainstreaming disaster risk reduction in development planning.
  - f) Collaboration on updation of MHVRA and upgradation of DMIS.
  - g) Collaboration on technical support and resource sharing pertinent to areas of interest and activities.
  - h) Conduct of training and refresher courses related to disaster management disciplines
  - i) On demand technical support in wake of / during the course of disaster / emergency.
  - j) Any other pertinent collaboration relevant to areas of interest / activities deemed necessary and beneficial by the parties.

### ARTICLE-III

#### Monitoring & Evaluation

- i. The partners shall maintain regular close consultations to monitor and review the progress of joint activities;
- ii. The partners shall share with each other all relevant information and documents, including research, reports and any other information related to the activities, outputs and impact of joint projects and any area of collaboration.
- iii. The partners may, wherever possible and as appropriate, undertake joint missions with respect to any joint activity in relation to any area of collaboration.
- iv. The partners welcome joint evaluation of the outputs and impact of any joint activities.

### ARTICLE- IV

#### Entry into Force, Duration, Termination and Modification

- i. This MoU shall enter force on the date of signature and shall remain valid for a period of 3 years unless terminated earlier in writing by either partner.
- ii. Either partner may terminate this MoU at will upon providing to the other partner one month notice in writing as indicated in Article (“Settlement of Disputes”) below.
- iii. Arrangements set forth in this MoU may be modified upon mutual agreement of the partners be reflected in writing by duly authorized representatives of the partners.

## ARTICLE-V

### Settlements of Disputes

- i. The partners shall make their best efforts to settle amicably by direct negotiations any differences that may arise out of this MoU. Any differences between the partners that may not be settled be brought to the attention of Secretary SUPARCO and Director General PDMA Sindh, Government of Sindh for final resolution
- ii. It is with this intent of furthering cooperation between both parties for purpose of alleviating human suffering and assisting people that two copies of this MoU have been signed by the undersigned representatives of PDMA Sindh and SUPARCO. We hereby acknowledge our mutual respect and support for each other's skills and capacity to serve those in needs, locally and at national level.

This Memorandum of understanding in view of the Terms of Reference and Articles mentioned above has been agreed between the parties hereinbefore on the day Friday and date 11/10/2021 and shall be applicable to parties on signing of MoU.

Signed for Provincial Disaster Management Authority, Rehabilitation Dept, Govt. of Sindh.

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Date 11/10/2021

Signed for Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)

Date

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## TERMS OF MoU


This "MoU" shall commence on the date of signing of the MoU and shall remain in force for a period of 03 years. This MoU could be extended by mutual consent of the parties.

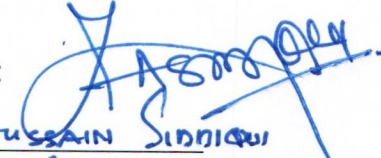
Now this MoU witnesses that in consideration of the mutual covenants herein contained, the parties here to have caused this MoU to be signed in their respective names in two identical counter parts, each of which shall be deemed as original, as of the day, month and year first above written.


## PARTIES

ON BEHALF OF SUPARCO FOR AND PDMA SINDH.

Signature:   
Name: Syed Salman Shah  
Title: DG PDMA - Sindh  
Date: 11/10/2024

Signature:   
Name: Brig Aftab Lughmani, Retd  
Title: Secy SUPARCO  
Date: 11<sup>th</sup> Oct, 2024

Witness 1:   
IMDAD HUSSAIN SIDDIQUI  
DIRECTOR (Operations)  
PDMA Sindh, Rehabilitation Dept.  
Govt: of Sindh.      11 Oct. 2024.

Witness 2:   
Dr. Hanif Ur Rehman  
DG SUPARCO - R