PCST

**Pakistan Council for Science and Technology**

www.pcst.org.pk

**Capabilities and Potential of HEIs and civil R&D Organizations (to carry out defence related activities / projects)**

# Section 1: *Basic Information*

1. Name of Organization / University / Institute: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Postal Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. Official E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. **Main Objectives / mandate of Institute / Organization:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. **Details of Designated Focal Person for Collaboration:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Designation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Telephone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_E-Mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Section 2: *Technical Information*

1. List of Defence related R&D Projects

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| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Title of Project** | **Institute/ Organization** | **Principal Investigator** | **Sponsored by**  | **Target** | **Outcomes** |
| 1. | Design and Development of Crypto System for Indigenous Production in the Country  | MCS | Lt Col Dr. Ashraf Masood | MoST |  |  |
| 2. |  |  |  |  |  |  |
| 3. |  |  |  |  |  |  |
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1. Research Groups engaged in defence related projects or having capabilities to carry out defence related acativities:

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| **Sr. No.** | **Title of Research Group** | **Group Members** |
| 1. |  | Name of Group Leader:1. Member Name
2. Member Name
3. Member Name
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1. List of Labs with Major Capabilities / Features at Institute / Organization

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| --- | --- | --- |
| **Sr. No.** | **Labs with major capabilities / Features** | **Department / Division / Discipline** |
| 1. | **Microwave Engineering Research Lab:**1. Design and development of Analog electronics circuits, Antennas RF/Microwave circuits, sub-systems and modules, Digital system design and development and implementation on high end FPGA/DSP boards.
2. Design, simulation and realization of complete system such as Radar.
3. System integration expertise.

**Major Equipment** * PSG Vector Signal Generator 250KHz-20GHz
* PNA Series Network Analyzer 10Mhz-40Gbz
* Vector Signal Analyzer
* PSA Series Spectrum Analyzer 3Hz-26.5GHz
* Probe Station
* DC Power Supply 0.20V, 0.25A
* Infinium Osiloscope
* Wire Bounder
* LPKF Proto Mat H-60
* Logic Analyzer
* Signal Source Analyzer 10Mhz to 7Ghz
 | Electrical Engineering |
| 2. |  |  |
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1. Brief Story about defence related previous achievements:
2. A
3. B
4. C