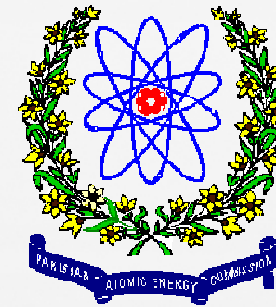


WELCOME TO IAP-65



**Pakistan's Strengths in Digital Computing Enable;
Simulation Oriented Pathway of
Human Resource Development
for Nuclear Power Programs:
Pakistan's Case**

**With IAEA Support
Striving for Safe Nuclear Energy**

PAKISTAN ATOMIC ENERGY COMMISSION

Training and Examination on Full Scope Training Simulators

FSTS-C1
FSTS-C2

CHASCENT
& PNRA

Postgraduate Specialization

Degrees in
Nuclear and
Computing

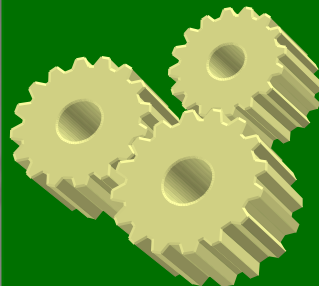
PIEAS &
KINPOE

Simulator Development

FSTS

ICCC

Operations of Nuclear Power Plants



CHASNUPP-1 (C1)
CHASNUPP-2 (C2)
KANUPP-1 (K1)

Chashma & Karachi

Simulator Requirement Engineers



Trainees



Plant Operation Experts



Simulator Requirement Engineering

**Reference Units:
Chashma NPPs (C1 & C2)**

MCR/ECR Hardware Experts

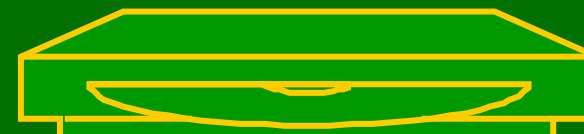


Modeling & Simulation Experts



**Simulator Hardware Services
(Installation Commissioning
& Maintenance of MCR/ECR)**

**Simulator Software Engineering
(Design & Development of All Software)**



Simulation Software

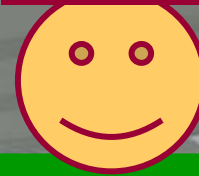
**Simulator
Requirement
Engineers**



Trainees



**Plant
Operation
Experts**



**MCR/ECR
Hardware
Experts**



Simulator Requirement Engineering

**Reference Units:
Chashma NPPs (C1 & C2)**

**Modeling &
Simulation
Experts**

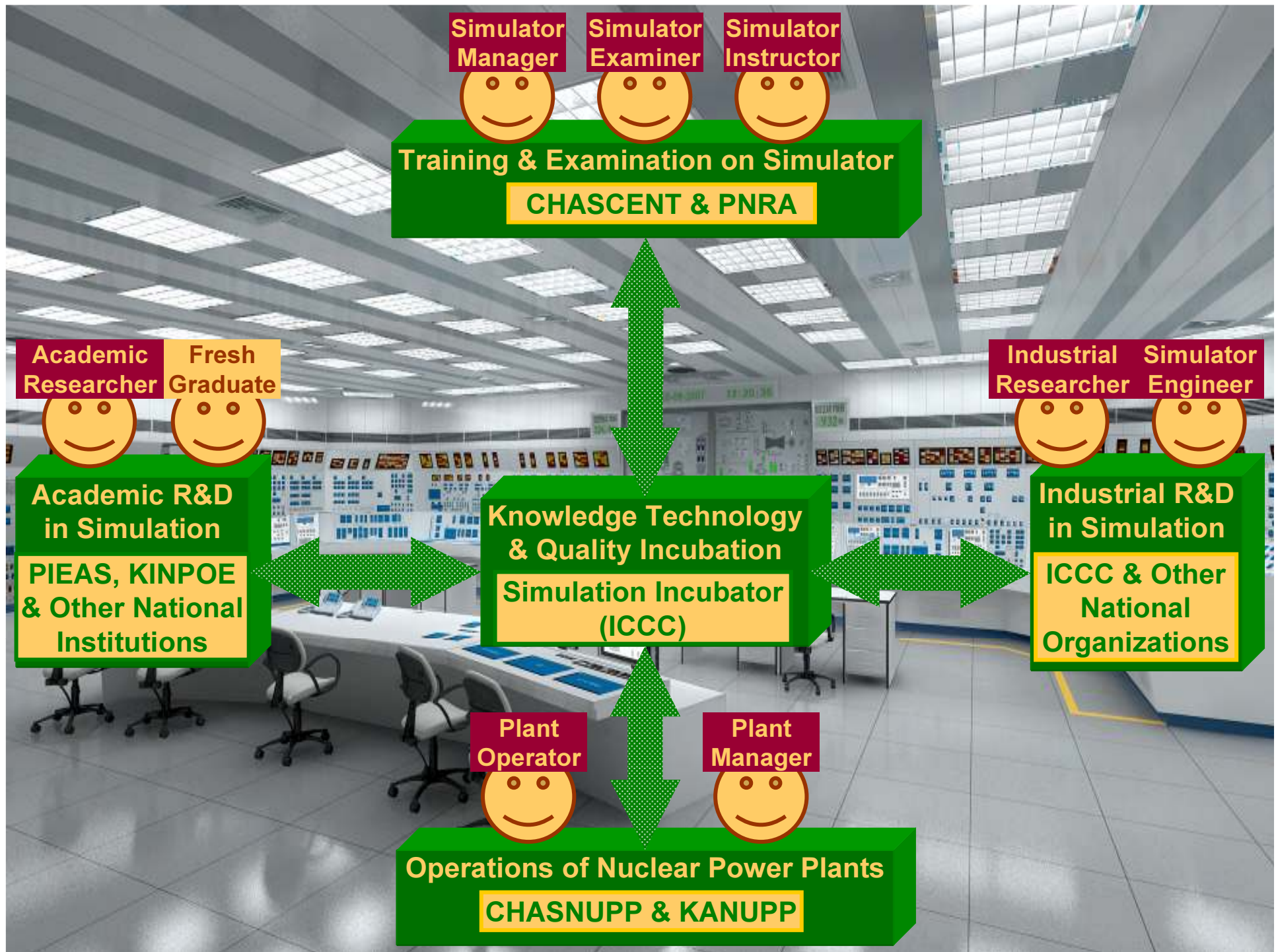


**Simulator
Requirement
Specifications**

**Simulator Hardware Services
(Installation Commissioning
& Maintenance of MCR/ECR)**

Simulator Software Engineering

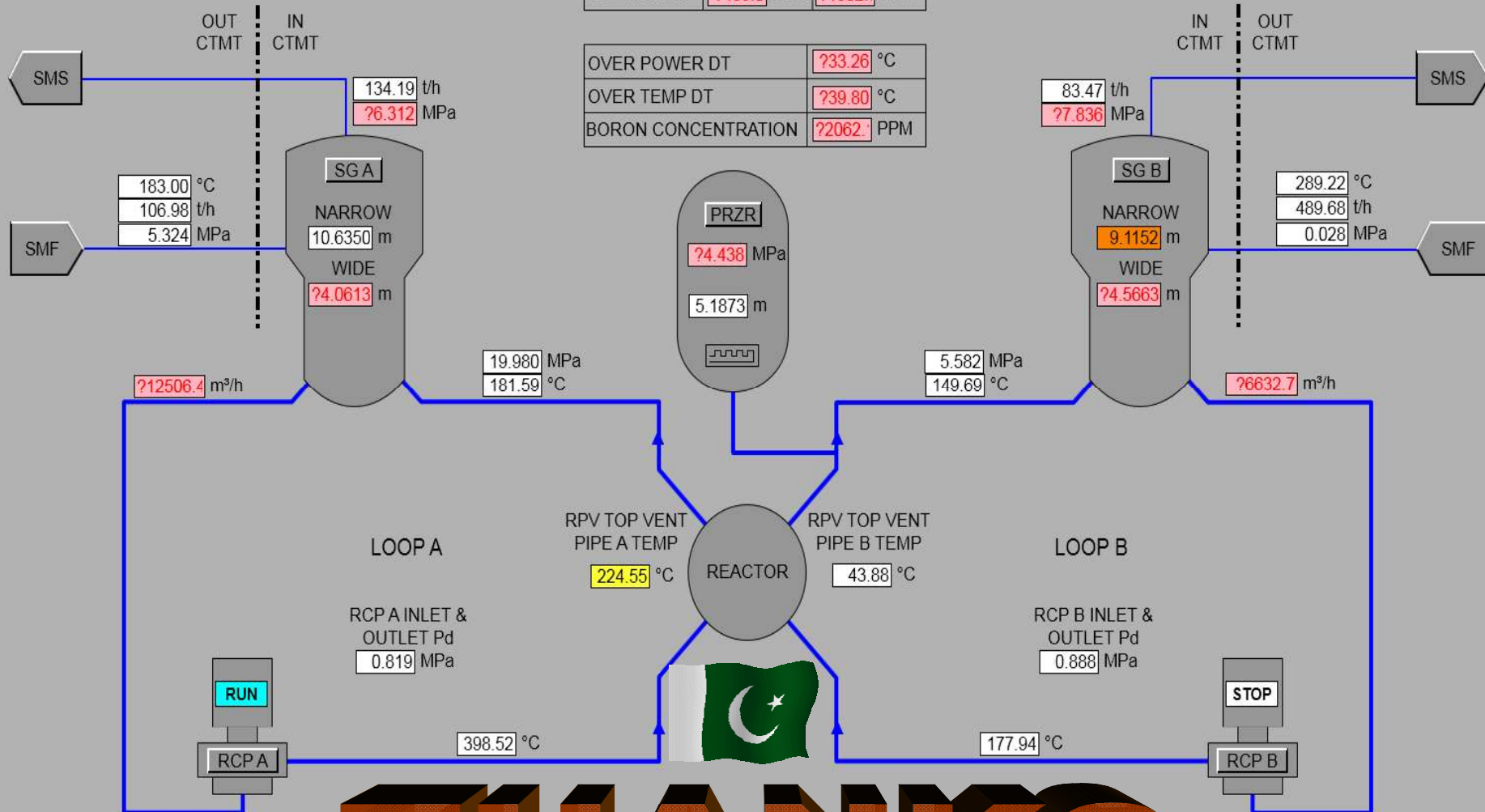
**Plant Model, Soft Panels, Instructor
Station, CPC, DEH, Simulation Machine,
Communication & Interface Package,
Development & Testing Tools,, etc.**



Reactor Coolant System

	LOOP A	LOOP B
SRC Tavg	317.28 °C	273.77 °C
RCP SPEED	2469.0 r/min	21302.1 r/min

OVER POWER DT	233.26 °C
OVER TEMP DT	239.80 °C
BORON CONCENTRATION	22062.1 PPM



THANKS

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RTD
BYPASS