

**PROFORMA FOR SURVEY FOR CAPACITY BUILDING IN THE AREA OF
FOOD AND NUTRITION IN ASIA**

- 1. Name of the Institution
Address (Fax, Tel, Email,
Website)**

Pakistan Atomic Energy Commission,
(PAEC)
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- 2. Country**

Pakistan
- 3. Name of Director/
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CEO Address (Fax, Tel, Email,
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- 4. Coordinators name / Contact
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- 5. Ongoing Research and Development Programs in the Area of Food and
Nutrition; (Please list the major areas by priority – and include the timing
period of each R&D)**

 - (a) Iron fortification of wheat flour-project funded by Micronutrient Initiative (MI) of Canada.
 - (b) Radiation disinfection of poultry feed-A Project of 2 years duration project funded by PSF
 - (c) Mushroom cultivation and popularization as a cottage Industry in NWFP
 - (d) Fortification of vanaspati ghee in Pakistan with red palm oil (PRO) as natural source of vitamin-A-funded by Malaysian Palm Oil organization.
 - (e) Effect of different irradiation doses on important nutrient profiles of dates/dried fruits
 - (f) Irradiation treatment of minimal processed fruits and vegetables

(g) Dehydration of fruits and vegetables

6. Ongoing / Existing Training / Human Resources Development Activities (Graduate / Undergraduate / Short term courses etc.,) in the area of Food and Nutrition:

(a) **Training Courses**

(i) Postgraduate Training course on application of nuclear techniques in food & Agriculture (every year)

(b) **Human Resources Development**

(i) Nutritional and biochemical evaluation of some wheat varieties grown in NWFP in relation to their end use

(ii) Nutritional quality and storage stability of gamma irradiated wheat flour

(iii) Comparative studies on storage stability and nutritional qualities of wheat flours prepared by chakki and flourmill

(iv) Speciation of iron in wheat during production, storage, processing and baking

(v) Standardizing procedures for phytic acid determination in wheat

(vi) Design and fabrication of a solar drier

(vii) Solar dehydration & storage of persimmon

7. Academic Staff Profile in the area of Food and Nutrition:

Ph.D		Masters	
Specialization	Number	Specialization	Number
Human Nutrition/Animal Nutrition	4	Biochemistry/Microbiology	6
Physical/Nuclear Chemistry	6	Agricultural Chemistry	15
Radiation Chemistry	6	Biochemistry	5
Food Engineering	2	Food Technology	4
		Food Chemistry	5
		Physical Chemistry	5

Ex: (Food Chemistry, Community Nutrition, Toxicology etc.,)