Ultra-Tech Laboratories Pvt. Ltd. Application for Personnel Monitoring Services

(Note: Please read the manual of Personnel Monitoring Service before filling this form) (Send filled and signed form in duplicate .Fields with* are mandatory)

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| Type of devices | Make | Model | Radio- | Acti | vity | Date of | AERB approval | Any other |
|-----------------|------|-------|---------|-------|------|--------------|----------------------|-------------|
| | | | isotope | Curie | On | Procurement | ref. no. for | information |
| | | | _ | (TBq) | date | / import/ | procurement/ | |
| | | | | | | installation | import/ installation | |

| i) Industrial Gamma Radiography Exposure Devices | | | | | |
|--|---|--|--|--|--|
| (IGREDs) ii) Gamma radiation processing facilities (irradiators) | | | | | |
| iii) Gamma chambers | | | | | |
| iv) Ionizing Radiation Gauging Devices (IGRDs) | | | | | |
| v) Neutron Radiography | | | | | |
| vi) Oil logging device | | | | | |
| vii) Laboratory | | | | | |
| Г | ı | | | | |
| Neutron Sources | | | | | |
| viii) Agriculture | | | | | |
| ix) Others (Specify) | | | | | |

10.2 X -ray/ Accelerator based <u>Industrial/ Research</u> Systems and Devices:

| Type of devices | Make | Model | Type (mobil e/ fixed) | Radiation type (X, e ⁻ , HCP etc) | Operating parameter KVp mA | | Date of Procurement/ import/ installation | AERB approval ref. no. for procurement/ import/ | Any other informati on |
|--|------|-------|--------------------------------|---|-----------------------------|--|--|--|------------------------|
| i) X-ray Radiography Exposure Devices(IGREDs) | | | | | | | | installation | |
| ii) Industrial Accelerator | | | | | | | | | |
| iii) Charge particle accelerator | | | | | | | | | |
| iv) Others (specify) | | | | | | | | | |

10.3 X -ray/ Accelerator based <u>Medical</u> Systems and Devices:

| Type of devices | Make | Model | Type | Radiation | Oper | | Date of | AERB | Any other | |
|---------------------------------------|------|-------|---------------------|----------------------------|--------------|----|--|---|-------------|--|
| | | | (mobile / fixed) | type and Max. energy | parar KVp | mA | Procureme nt/ import/ installation | approval ref. no. for procurement/ import/ installation | information | |
| i)X-ray Radiography | | | | | | | | | | |
| ii) X- ray Fluoroscopy | | | | | | | | | | |
| iii) Dental radiography | | | | | | | | | | |
| iv) CT Scanner | | | | | | | | | | |
| v) Interventional Radiography | | | | | | | | | | |
| vi) Computed Radiography | | | | | | | | | | |
| vii) Simulator | | | | | | | | | | |
| viii) Medical Accelerator | | | | | | | | | | |
| ix) Charge particle accelerator | | | | | | | | | | |
| x) Gamma Camera | | | | | | | | | | |
| xi) Others (specify) | | | | | | | | | | |

10.4 Radio- isotope based <u>Medical</u> Systems and Devices:

| Type of devices | Make | Model | Radio- isotope | Activ Curie (TBq) | oity On date | Date of Procuremen t/ import/ installation | AERB approval ref. no. for procurement/ import/ installation | Any other information |
|---------------------|------|-------|-------------------|-------------------------|--------------------|---|--|-----------------------|
| i) Teletherapy unit | | | | | | | | |

| ii) Brachytherapy units - LDR (manual /automatic) | | | | |
|--|--|--|--|--|
| iii) Brachytherapy units - HDR | | | | |
| iv) PET/SPECT Scanner iv) Others (specify) | | | | |

10.5 Sealed /Unsealed Radio- isotope based Medical applications:

| Type of Devices | Radio- isotope | Physical form | Chemical form | Activity procured | | Activity in stock | | Quantity handled at | AERB approval ref. no. for | |
|---|-------------------|---------------|------------------|--------------------|------------|-------------------|------------|--------------------------|----------------------------------|--|
| | | | | Curie or GBq | On date | Ci or GBq | On date | a time (Ci or GBq) | procurement/ import/ handling | |
| i) Sealed sources (²²⁶ Ra, ⁶⁰ Co, ¹⁸² Ta, ⁹⁰ Sr, ¹⁹⁸ Au, ¹³⁷ Cs, ¹⁹² Ir etc.) | | | | | | | | | | |
| ii) Unsealed Sources in liquid and powder form (^{99m} Tc, ²⁴ Na, ³² P, ⁴² K, ⁵¹ Cr, ⁵⁹ Fe, ⁹⁰ Y, ¹³¹ I, ¹⁹⁸ Au etc.) | | | | | | | | | | |

10.6 Neutron Generating Devices

| Type of Device | Maximum Beam Energy | Reactor Power/Beam Current/Isotope | Maximum Energy of Neutrons | Any other relevant information |
|-------------------|------------------------|---------------------------------------|----------------------------------|--------------------------------|
| Reactor | | | | |
| Neutron Generator | | | | |
| Accelerator | | | | |

Note: please give detail of device/source not covered above on separate sheet in the similar format.

DECLARATION*

I HAVE READ THE PM BADGE USER'S INSTRUCTION MANUAL AND THE ATTACHED TERMS AND CONDITIONS AND I UNDERTAKE TO,

- 1. Comply with all instructions stated in the manual and any other future instructions given by the Competent Authority.
- 2. Comply with the regulatory requirements for handling of radiation sources (i.e. radioactive material and radiation generating machines) stipulated by the Atomic Energy Regulatory Board (AERB).
- 3. Investigate the cases of over-exposures or contamination of TLD cards and send the reports promptly whenever called for, to Head, RSD, AERB.
- 4. Return the TLD/neutron badges promptly after the end of the stipulated monitoring period.
- 5. Ensure that TLD/neutron badges are stored in normal radiation background.
- 6. Ensure that Personal monitoring badges shall be used exclusively by the worker who has been issued the badge. It shall not be issued to any other person.
- 7. Intimate any change in the data regarding radiation sources to the Service Provider.

Date: Signature of the Head of the Institution with Stamp and Seal

Place: Name of the Signatory:

Designation:

**Note:An Anual fees of INR 1074.00 for control card is to be Paid along with every application as per present rate.

The duly filled form should be sent to:

Ultra-Tech Laboratories Pvt. Ltd.

Cloth Market, Bhilai-Raipur Highway, Kumhari, Dist. Durg, C.G. 490042 +919981212431; 07883295166; utechlab@rediffmail.com

Approval Granted/ not Granted:

(For office use only)

*General regulatory requirements for handling of radiation sources (radioactive material and radiation generating machines such as x-rays, accelerators):

- a) Get license for handling of radiation sources from Atomic Energy Regulatory Board.
- b) Procure and install AERB Type Approved radiation generating machines / devices.
- c) Get the plan of the radiation installation approved from Atomic Energy Regulatory Board (AERB).
- d) Employ qualified staff approved by AERB for operation and handling of radiation generating machines/devices.
- e) Provide Personnel Monitoring Badges to the radiation workers engaged in handling of radiation sources.
- f) Comply with regulatory requirements for handling of radiation sources stipulated by AERB from time to time.
- g) Use calibrated radiation survey meter.
- h) Inform promptly (within 24 hrs) to Head, RSD, AERB any unusual incident involving radiation source.

Regulatory documents for compliance for ensuring safe handling of radiation sources.

- a) Atomic Energy Act, 1962
- b) Atomic Energy (Radiation Protection) Rules, 2004.
- c) AERB Safety Codes and Standards applicable to different practices using ionizing radiation.

Regulatory documents and the application form for obtaining license for handling radiation sources can be obtained from AERB or from the **Website** "http://www.aerb.gov.in"