RENENTECH LABORATORIES PVT LTD

C-106, Synthofine Industrial Estate, Off Aarey Road, Goregaon (East), Mumbai – 400063

Application for Personnel Monitoring Services

(Note: Please read the manual of Personnel Monitoring Service before filling this form)

| 1. Name & Address of the | e institution: | | | | | | | |
|--|-----------------|-----------------|------------------|------------|------------------------|-----------------------------|---------------------------|------------------|
| | | Phone: (|)- | | Fax: (0 |)- | | |
| | | Email addr | ess: | | | | | |
| 2. Name of the designate | ed officer *: | | - | | | | | |
| (Head/RSO/site in cha | rge/ other) | Phone: (0 |)- | | Fax: (0 |)- | | |
| (*Responsible for maintaining | Personal | Mobile: | - | | | | | |
| Monitoring device/dose data) | | Email addı | ress: | | | | | |
| 3. Whether the institution | n has availed | DMS in the n | | Jo | | | | |
| 3. Whether the histitution | ii iias avaiieu | i wis in the p | | | s Institution No. | | | |
| 4. Type of radiation, for | which monito | rina is reani | red: (Put 'Y' | in annlice | able box/es) | | | |
| | | _ | | ¬ | | | | |
| | · | Neutrons | Beta | | Other Charge Partic | | | |
| 5. Details of Personnel N | Monitoring ser | rvice (PMS) 1 | requirements | (Attach se | eparate sheet if red | quired) | | |
| Sr. Name* (in Full) | | | Educatio | | Designation | PM bad | ge require | ement |
| No. person/s handling | ng | of Dinth | Qualifica | tion | | 7 | ΓLD1 | FNM ² |
| radiation | | Birth | | | | $C^{\mathbf{a}}$ | $\mathbf{w}^{\mathbf{b}}$ | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Note: | | | I | | | | | |
| 1. TLD for radiation typ | oes such as gam | ma, beta, x and | l other charge p | oarticle s | | | | |
| a. Chest badges | | | | | | | | |
| b. Wrist badges (in co | | | | high expos | sure than chest) | | | |
| 2. FNM for handling ne | | | | 1 1. | | 1 1 1 | | |
| *Personal Data Form (PL) 6. Reference No. of regulator | | | | | | ittached along w | ith this for | m |
| o. Reference 140. of regulato. | ry consent from | TIERD (WILLI V | andity date) for | nanding (| or radiation sources. | | | |
| | | | | | | | | |
| 7. Type of application of a | radiation sourc | ce/s (Put 'X' i | n applicable l | oox/es) | | | | |
| Industrial | Research | ı | Medical | | Nuclear Fuel Cycl | le | | |
| 8. Give the detail of device | e in the annroi | nriate table: | | | | | | |
| 8.1 Radio- isotope bas | | - | stoms and D | arioog. | | | | |
| Type of devices | | odel Radio- | Activity | | Date of | AERB appro | val | Any other |
| Type of devices | 1120 | isotope | Curie | On | Procurement | ref. no. for | | information |
| | | | (TBq) | date | / import/ installation | procurement import/insta | | |
| i) Industrial Gamma | | | | | | | | |
| Radiography Exposure Devices (IGREDs) | | | | | | | | |
| i) Gamma radiation processing | | | | | | | | |
| facilities (irradiators) | | | | | | | | |
| iii) Gamma chambers | | | | | | | | |
| v) Ionizing Radiation Gauging Devices (IGRDs) | | | | | | | | |
| v) Neutron Radiography | | | | | | | | |
| vi) Oil logging device | | | | | | | | |
| vii) Laboratory Neutron Sources | | | | | | | | |
| viii) Agriculture | | | | | | | | |
| ix) Others (Specify) | | | | | | | | |

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

| Type of devices | Make | Model | Type (mobil | Radiation type (X, e ⁻ , | Opera param | 0 | Date of Procurement/ | AERB approval ref. no. for | Any other informati on |
|--|------|-------|----------------|-------------------------------------|----------------|----|-------------------------|---|------------------------|
| | | | e/ fixed) | HCP etc) | KVp | mA | import/ installation | procurement/ import/ installation | |
| i) X-ray Radiography Exposure Devices(IGREDs) | | | | | | | | | |
| ii) Industrial Accelerator | | | | | | | | | |
| ii) Charge particle accelerator | | | | | | | | | |
| iv) Others (specify) | | | | | | | | | |

8.3 X -ray/ Accelerator based Medical Systems and Devices:

| Type of devices M | Make | Model | Model Type (mobile / fixed) | Radiation type and | Opera param | | Date of Procureme | AERB approval ref. no. | Any other information |
|----------------------------------|------|-------|-----------------------------|--------------------|----------------|----|-----------------------------|---|-----------------------|
| | | | | Max. energy | KVp | mA | nt/ import/ installation | for procurement/ import/ installation | |
| 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 | | | | | | | | | |
| x) Gamma Camera | | | | | | | | | |
| xi) Others (specify) | | | | | | | | | |

8.4 Radio- isotope based Medical Systems and Devices:

| Type of devices | Make | Model | Radio- | Activ | ity | Date of | AERB approval | Any other |
|--|------|-------|---------|----------------|---------|--|---|-------------|
| | | | isotope | Curie (TBq) | On date | Procuremen t/ import/ installation | ref. no. for procurement/ import/ installation | information |
| i) Teletherapy unit | | | | | | | | |
| ii) Brachytherapy units - LDR (manual /automatic) | | | | | | | | |
| iii) Brachytherapy units - HDR | | | | | | | | |
| iv) PET /SPECT Scanner | | | | | | | | |
| iv) Others (specify) | | | | | | | | |

8.5 Sealed /Unsealed Radio- isotope based Medical applications:

| Type of Devices | Radio- isotope | Physical form | Chemical form | Activity procure | | 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.) | | | | | | | | | |

8.6 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:

The duly filled form should be sent to:

RENENTECH LABORATORIES PVT LTD C-106, Synthofine Industrial Estate, Off Aarey Road, Goregaon (East), Mumbai-400063. Maharashtra. India

Telphone. No : **022-40037474** Fax : **022-40037474**

Email : prms@renentech.com

(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"