AVANTTEC LABORATORIES (P) Ltd.,
17, Arignar Anna Industrial estate, Mettukuppam, Vanagaram, Chennai - 95.
Application for Personnel Monitoring Services

(Note: 1. Please read the manual of Personnel Monitoring Service before filling this form
2. Please fill this form for all new institutions)

Please fill all the columns as BARC/AERB will reject incomplete forms. A Passport size photograph is to be pasted in box of PDF

1. Name & Address of the Institution: _____

_____

_____

Phone: (0)- _____ Fax: (0)-_____

Email address: _____

2. Name of the designated officer * : _____

(Head/RSO/ site in charge/ other) Phone (0)- _____ Fax: (0)- _____

(**Responsible for maintaining Personal Monitoring device/dose data)* Mobile: _____

Email address: _____

3. Whether the institution has availed PMS in the past? : Yes/No

If 'Yes', Previous Institution No. _____

4. Type of radiation, for which monitoring is required: *(Put 'X' in applicable box/es)*

Gamma ☐ X-rays ☐ Neutrons ☐ Beta ☐ Other Charge Particles ☐

5. Details of Personnel Monitoring service (PMS) requirements *(Attach separate sheet if required)*

Sr. No.	**Name* (in Full) of person/s handling radiation**	**Sex**	**Date of Birth**	**Educational Qualification**	**Designation**	**PM badge requirement**		
						TLD[1]		**FNM[2]**
						C[a]	**W[b]**	

Note:

1. *TLD for radiation types such as gamma, beta, x and other charge particles*
   a. Chest badges
   b. Wrist badges (in case of likely hood of hand getting substantially high exposure than chest)
2. *FNM for handling neutron sources/ working with neutron*

**Personal Data Form (PDF-1 for DAE and PDF -2 for Non –DAE) for each radiation worker shall be attached along with this form*

6. Reference No. of regulatory consent from AERB (with validity date) for handling of radiation sources:

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7. Type of application of radiation source/s *(Put 'X' in applicable box/es)*

☐ Industrial ☐ Research ☐ Medical ☐ Nuclear Fuel Cycle

8. Give the detail of device in the appropriate table:

8.1 Radio- isotope based <u>Industrial/Research</u> Systems and Devices:

Type of devices	**Make**	**Model**	**Radio-isotope**	**Activity**		**Date of Procurement / import/ installation**	**AERB approval ref. no. for procurement/ import/ installation**	**Any other information**
				Curie (TBq)	**On date**			
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 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 (mobile/ fixed)**	**Radiation type (X, e^-, HCP etc)**	**Operating parameter**		**Date of Procurement/ import/ installation**	**AERB approval ref. no. for procurement/ import/ installation**	**Any other information**
					KVp	**mA**			
i) X-ray Radiography Exposure Devices(IGREDs)									
ii) Industrial Accelerator									
iii) Charge particle accelerator									
iv) Others (specify)									

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

Type of devices	**Make**	**Model**	**Type (mobile / fixed)**	**Radiation type and Max. energy**	**Operating parameter**		**Date of Procurement/ import/ installation**	**AERB approval ref. no. for procurement/ import/ installation**	**Any other information**
					KVp	**mA**			
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)									

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

Type of devices	**Make**	**Model**	**Radio-isotope**	**Activity**		**Date of Procurement/ import/ installation**	**AERB approval ref. no. for procurement/ import/ installation**	**Any other information**
				Curie (TBq)	**On date**			
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 procured**		**Activity in stock**		**Quantity handled at a time (Ci or GBq)**	**AERB approval ref. no. for procurement/ import/ handling**
				Curie or GBq	**On date**	**Ci or GBq**	**On date**		
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 shall be sent to:

Avanttec Laboratories (P) Ltd.,
Plot # 17, Arignar Anna Industrial Estate,
Mettukuppam, Vanagaram,
Chennai - 600 095.
Tele / Fax: 044 - 2386 2024,25
Mobile: 98843 57891, 9444400385
Email: tldlab@avanttec.net

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"**