Guidelines for Applying for Licence of Diagnostic Radiology X-ray Equipments through eLORA System

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General Guidelines (Applicable for all types of equipments viz. existing as well as new)

It is mandatory for all users of medical diagnostic x-ray equipments to obtain Licence for Operation from AERB as per Atomic Energy (Radiation Protection) Rules 2004.

To facilitate online submission of applications for regulatory consents and establish channel of communication with AERB for other regulatory requirements, AERB has launched Diagnostic Radiology module in its e-governance application e-LORA (e-Licensing of Radiation Applications) System. All diagnostic x-ray equipment user Institutes are required to use eLORA for obtaining operating Licence from AERB.

1. Register Your Institute

Visit our website www.aerb.gov.in. Click on the button eLORA, which is available on website home page. It will redirect you to the following screen of eLORA home page.

Click on Register Institute (see above figure). This will open application form for Institute Registration.

Important Note: Guidelines to fill application form for Institute Registration is available on eLORA home page. It is advised to read the guidelines and keep soft copy of required attachments ready before start filling of application form.

Fill the application form as per the guidelines. Important points in each tab are mentioned below:

Tab 1: Institute Details
In **Type of Facility** section, for the field **Practice** select **Diagnostic Radiology** and for the field **Role of Institute** click on **Medical Diagnostic X-ray Facility**

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**Tab 2: Employer Details**

**Name:** Fill the complete name of employer as appearing in his/her document for **Proof of Identity/Date of Birth (DOB)** to be attached.

**Date of Birth:** Fill the DOB as appearing in the proof of identity/DOB to be attached

**Document/card for proof of identity and date of birth** (of employer): Select one from the drop down. (Soft copy of this is a mandatory attachment).

**Document/Card No. (of Proof of Identity/DOB):** Must match with the proof of identity/DOB attached

**E-mail (O):** Will be used to send USERNAME and PASSWORD of your eLORA account and for all future communications. (Make sure to provide correct email address).

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**Tab 3: Attachments**

Upload of following attachments are mandatory:

- **Proof of Identity and Date of Birth** (of employer): Acceptable documents are as follows:
  - Passport
  - PAN card issued by Income Tax Department
  - Driving Licence issued by RTO
  - Photo identity document/card having serial number and date of birth issued by Central/State Government or PSU

- **Proof of Employership:** Example: (i) Appointment Letter of Employer, (ii) Board Resolution, (iii) Any Govt./PUC document substantiating proprietorship (iv) Partnership deed (notarised) or (iv) Proprietor’s self declaration on institute letter head affixed with institute seal

- **Upload scan copy of any one of the document (in the relevant position) for the proof of existence of institute:**
  - PAN of Institute
  - TAN of Institute
  - Registration with State/Central/Local Government Authority

Enter the Captch and submit the application form.

---

**Important Note:** Fields marked with * in the application form are mandatory. Application form will not be submitted if any mandatory field left blank.
You will get acknowledgement message upon successful submission of application form. The copy of submitted application (.pdf file) can be downloaded for which link will be provided (pl. note, this link will be active for a short period). You will also receive an acknowledge mail with the copy of your application form (.pdf file) in your email (email address as provided in the application form).

2. Prerequisites for Licence

Prior to apply for Licence; follow following steps:

A. Declare Employees

- For every X-ray equipment/installation, having at least one **Operator** and one **Medical Practitioner** is mandatory for obtaining Operational Licence.
- For CT and Interventional Radiology equipments, in addition to **Operator** and **Medical Practitioner**, having **RSO** (Radiological Safety Officer) is mandatory for obtaining Operational Licence.

The minimum qualification requirement for employees in Diagnostic Radiology is as given below:

<table>
<thead>
<tr>
<th>Role of Employee</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Practitioner</td>
<td>M.B.B.S. /MD/MS/ BDS/MDS</td>
</tr>
<tr>
<td>Operator</td>
<td>Qualified X-ray technologist OR Medical Practitioner (as above)</td>
</tr>
<tr>
<td>RSO</td>
<td>Any person having valid AERB RSO approval for your Institute. In case, no person is having valid AERB RSO approval for your Institute then any Medical Practitioner (as above) OR Qualified X-ray technologist (with three years experience in the field of CT/Interventional Radiology) can be nominated for RSO approval after registering as <strong>Radiation Professional</strong> (RP) in e-LORA.</td>
</tr>
</tbody>
</table>

- Complete guideline and application form for RP registration is available in e-LORA home page.
- A person need to submit RP registration form for Practice: ‘Diagnostic Radiology’ and Professional Role: ‘Radiation Safety Professional’.

After acceptance of your application form, you will get USERNAME and PASSWORD of your eLORA account in your email. Visit to eLORA home page to login to the system.

For adding employees to your institution, please follow the path as:

**Menu ➔ User management ➔ Add Employee ➔ Select required Type of Employee** from drop down

In drop down for **Type of Employee**, three options available as follows:

- **Radiation Worker** (this is to add employee with role **Operator** and **Medical Practitioner**)

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This image is not relevant to the text provided.
- **Non Radiation Worker** (this is to add Licensee who may not be a radiation worker)
- **Radiation Professional** (this is to add Radiation Professional who is to be nominated as RSO)

You are required to add **Operator** and **Medical practitioner** in the type **Radiation Worker**.

In the form for adding **Radiation Worker**,
- Provide required personal information of employee viz. Title, Name, Gender and Date of Birth
- Provide required service information of employee viz. Date of Joining (of service in your institute), PMS No. (i.e. complete TLD No.), Department, Designation, **Profile** (select 'Medical diagnostic x-ray facility'), **Role** (select any one or both using Ctrl key – as applicable) and **Education Qualification** (select value from drop down)
- Provide address and contact detail of employee
- Browse and upload scan copy of joining /confirmation letter of employee and click on **Submit**

Repeat the above procedure to add your other **Operators** and **Medical practitioners**.

**Important Note:** You will not be able to fill application form for Licence (and will get following error message) unless you declare **Operator** and **Medical Practitioner** of your Institute.
In case your institute is not having valid RSO, you need to obtain RSO approval from AERB. For a person required to be nominated as RSO, you need to add him/her in the type **Radiation Professional (RP)**. While adding RP, system will ask RP registration ID and Date of birth of RP. (Obtain these details from the Radiation Professional)

![Select radiation professional](image)

In the form for adding Radiation Professional,

- Enter **Registration ID** and Date of birth of RP – personal detail of RP will come automatically.
- Provide Date of Joining (of service in your institute), PMS No. (i.e. complete TLD No.), Department and Designation, Profile (i.e. ‘Medical diagnostic x-ray facility’) and Role (i.e. ‘Operator’, Medical Practitioner’ or both)
- Provide Email (O)
- Browse and upload scan copy of joining/confirmation letter of employee and click on Submit

**Important Note:** Radiation Professional can subsequently be nominated for the approval of Radiological Safety Officer (RSO). Process of RSO nomination explained in Sr. No.: B

**B. Obtain RSO Approval**

In case you do not have valid RSO for your CT and Interventional Radiology facility, obtain RSO approval.

For CT and Interventional Radiology facilities, RSO approval is mandatory. For nominating your employee for RSO approval, follow the path as:

**Menu → Regulatory Forms → Common Forms**
Select the name of employee in Radiation Professional

Fill the asked information and click on Freeze. This will freeze your application form and show your application number. Please note, Freeze does not mean submission of application form to AERB.

For submission of RSO nomination application form, follow the path as:

Menu → My applications

Select required Application No. (Application Status is shown as Pending For Signed PDF). Click on Show Details and download PDF of your application form from Download Link. Take a print of first page, Employer and Nominated RSO shall duly sign the first page (their names will appear in the form, sign above the respective names) and affix institute seal on it. Scan this page (in .pdf format), Browse and upload this scan copy.
After uploading of scan file, Application Status will change to Signed PDF Uploaded.

Select the Application No and click on Submit to complete submission of application form (Application Status will change to Submitted).

Important Note: The above mentioned procedure of submission of application is applicable for other
regulatory forms where signature of two persons required.

Your RSO nomination form will be reviewed by AERB and after acceptance; you will get its notification in your eLORA account.

C. Add Instrument
Diagnostic X-ray facility must have certain types of instruments (list is given in Table 1: List of Instruments Required) and the same must be declared in eLORA.

To declare instruments, follow the path as:

Menu → Instrument Management → Add Instrument

In drop down for **Type of Instrument**, four options available as follows:

- Measuring Tool (not applicable for you)
- Monitoring Tool (not applicable for you)
- QA Tool (not applicable for you)
- Safety Tool

Add following Instruments as applicable to each type of equipment:

**Table 1: List of Instruments Required**

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Instruments to be added</th>
<th>Type of Instrument</th>
<th>Instrument Sub Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interventional Radiology</td>
<td>Safety Tool</td>
<td></td>
<td>• Protective Apron (minimum 3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Protective Rubber Flaps</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Ceiling suspended protective glass</td>
</tr>
<tr>
<td>Computed Tomography</td>
<td>Safety Tool</td>
<td></td>
<td>• Protective Apron</td>
</tr>
<tr>
<td>Radiography &amp; Fluoroscopy</td>
<td>Safety Tool</td>
<td></td>
<td>• Mobile Protective Barrier with Viewing Window</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Protective Apron</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Protective Rubber Flaps</td>
</tr>
<tr>
<td>Radiography(fixed)</td>
<td>Safety Tool</td>
<td></td>
<td>• Mobile Protective Barrier with Viewing Window</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Protective Apron</td>
</tr>
<tr>
<td>Mammography OPG CBCT</td>
<td>Safety Tool</td>
<td></td>
<td>• Mobile Protective Barrier with Viewing Window</td>
</tr>
</tbody>
</table>
Radiography (Mobile)  
Radiography (Portable)  
C-arm/O-Arm  
Dental (Intra-oral)  
Dental (Hand –held)  

<table>
<thead>
<tr>
<th>Safety Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>● Protective Apron</td>
</tr>
</tbody>
</table>

Provide the required information while adding equipment.

**Important Note:** You will not be able to fill application form for Licence (and will get following error message) unless you declare required Instrument(s).

---

**D. Prepare Layout**

Prepare a sketch of layout (1:50 scale) of each x-ray room (not applicable for Radiography (mobile), C-Arm, O-Arm, Dental (Intra-oral) and Dental (Hand –held) X-ray equipment) providing all the details about wall dimensions, wall thickness, wall/shielding material, distances of all walls/shielding from x-ray equipment, relative positions of x-ray equipment, couch, control console/control room, protective barrier, door(s), window(s), occupancy around the x-ray room etc. For the preparation layout details, guidelines and model layout plans are available on AERB website ([http://www.aerb.gov.in/AERBPortal/pages/English/X-Ray/X-Ray.jsp.action](http://www.aerb.gov.in/AERBPortal/pages/English/X-Ray/X-Ray.jsp.action)) as well as enclosed here as Annexure - 2: Standard Layouts.

You are required to preserve the duly signed and stamped copy of x-ray room with details of shielding at your institution and same will be verified during AERB inspection.

There is no requirement to prepare a new layout plan in case you already have AERB approved layout plan. The same can be used as a record for layout.

If your x-ray room is as per model layout or has AERB approved layout, you need not to submit all details in the application form for License.

In case your x-ray room does not follow standard requirements,

- You will be required to provide the details in the prescribed format in the application form for operating Licence, as well as
- You will have to get radiation survey done from supplier of equipment or authorized agencies as per prescribed format as given in application form for operating Licence.

**Important Note:** While submitting Operational Licence application form for CT and Interventional Radiology equipment, you will be asked to upload scan copy of duly signed and stamped layout plan.
E. Quality Assurance
Prior to apply for licence for operation of existing x-ray equipment, conduct its Quality Assurance (QA) as per AERB prescribed format. The Quality Assurance (QA) formats are available on AERB website (http://www.aerb.gov.in/AERBPortal/pages/English/X-Ray/XRAYmanfform_jsp.action).

**Important Note:** While submitting Operational Licence application form for CT and Interventional Radiology equipment, you will be asked to upload scan copy of duly signed and stamped QA.

### Guidelines for Obtaining Licence for Existing X-ray Equipment

3. Declare Your X-ray Equipments

After login, you will see following screen with various **Menu** on left hand side. You will have to declare your all X-ray equipments one-by-one. Click on Declare Existing X-ray Equipment to declare your existing x-ray equipment.

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Provide the detail as asked in the form and click on **Submit**.

---

After successful submission, an acknowledgement message with equipment id will be displayed.
You will receive a system generated mail in your registered email id with acknowledgement letter as an attachment. Acknowledgement letter can also be downloaded from menu My Applications.

Repeat the same procedure to declare your all X-ray equipment.

4. Record Licence Detail

In case the declared X-ray equipment of your Institute is having valid licence (issued by AERB) for operation, select ‘Yes’ in the below screen. Form for recording licence details will be opened.

Otherwise, the form for recording licence detail can be accessed by clicking on menu Record Licence for Operation of X-ray Equipment (as shown below)

This will open form as shown below:
Provide following required details and submit the form:

- **Equipment Id:** To be selected from provided List (all your declared equipments will appear here)
- **Reference number of licence for operation:** as appearing on AERB licence/registration
- **Issuance date:** as appearing on AERB licence/registration
- **Expiry date:** as appearing on AERB licence/registration
- **Upload copy of Licence for operation:** Browse and upload scanned copy of AERB licence/registration

After successful submission, following message will be displayed. The submitted application form (.pdf file) can be downloaded from the link provided therein.

Your Licence record detail will be verified by AERB. After acceptance of your submitted detail, you will receive a system generated message in your registered email address with an acknowledgement letter as an attachment. An acknowledgement letter can also be downloaded from menu **My Applications**.

**5. Fill Application Form for Licence**

The application form for licence is available in menu.

**Menu → Licence for Operation of Existing Equipments**

**Important Note:** You won’t be able to fill the application form if required prerequisites are not completed.
Always visit eLORA for recent guidelines

A form will be opened as shown below:

Form initially will have three tabs:

1. **Employee Detail**: This will show the list of employees added as **Radiation Professional**. (Employees added as Radiation Worker and Non Radiation Worker will not be show).
2. **Safety Tools Detail**: This will show the list of Instruments added.
3. **General Detail**: In the field **Application for**, select **Licence for Operation** for first time application. In future, select **Renewal of Licence for Operation** for submission of form for renewal of existing Licence. Then click on **Equipment Id**, it will show list of equipments declared by you. Select Equipment for which you wish to submit application form.
Provide **Serial Number of Equipment** if available.

In case you have approved RSO (RSO approval received on paper), select **Yes** and provide required detail and upload scan copy of RSO approval letter.

In case you do not have approved RSO, then select **No** and select one of your employee in the field **Name of the person designated as RSO for this equipment** (this will not be applicable for CT and Interventional Radiology equipment).

**Important Note:** Obtain prior approval of RSO for CT and Interventional Radiology equipment if you do not have valid RSO.

After selection of equipment, two more tabs will be displayed (viz. **Layout Detail** and **QA Test Report**)

4. **Layout Detail:** If installation layout of your equipment is as per AERB model layout, then select **Yes**
**Important Note:** While submitting Operational Licence application form for CT and Interventional Radiology equipment, you will be asked to upload scan copy of duly signed and stamped layout plan.

If X-ray equipment installation layout is not as per AERB model layout, then select **No**.

- Provide the detail as per your room layout plan (as explained above in section D: Prepare Layout)
- upload copy of room layout plan (in case of CT and Interventional Radiology)

**For Radiation Survey Report:** Get radiation survey done from supplier of equipment or authorized agencies as per prescribed format and provide the details in the application form (as applicable):

The exposure parameters to be selected for while carrying out survey are given in the table:

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Applied Voltage</th>
<th>Applied Current</th>
<th>*Exposure time</th>
</tr>
</thead>
</table>
Interventional Radiology Radiography & Fluoroscopy Radiography(fixed)

<table>
<thead>
<tr>
<th></th>
<th>(kV)</th>
<th>(mA)</th>
<th>(Sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80-100</td>
<td>50 – 100</td>
<td>1.0 - 2.0</td>
</tr>
</tbody>
</table>

OPG

<table>
<thead>
<tr>
<th></th>
<th>(kV)</th>
<th>(mA)</th>
<th>(Sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60-100</td>
<td>8-20</td>
<td>1.0 - 2.0</td>
</tr>
</tbody>
</table>

Computed Tomography

<table>
<thead>
<tr>
<th></th>
<th>(kV)</th>
<th>(mA)</th>
<th>(Sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>110-140</td>
<td>50 - 100</td>
<td>1.0 – 2.0</td>
</tr>
</tbody>
</table>

Mammography

<table>
<thead>
<tr>
<th></th>
<th>(kV)</th>
<th>(mA)</th>
<th>(Sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30-35</td>
<td>100-200</td>
<td>1.0 – 2.0</td>
</tr>
</tbody>
</table>

* Exposure time should not be less than 1 Sec

**Work load:** work load can be calculated as per the formula given below:

\[
\text{Workload (mA min/Wk)} = \frac{\text{No. of patients/Wk} \times \text{No. of films/patient} \times \text{mAs/film} \times 1}{60}
\]

Provide the values of maximum radiation level (in mR/hr) at following places:
- Near control console (operators position)
- Outside patient entrance door
- Behind chest stand wall
- Behind window (if any)
- Patient waiting area

5. **QA Test Report:** Refer QA test report of x-ray equipment and provide required test results. Attach the copy of QA test report in the prescribed format (applicable for CT and Interventional Radiology equipment).

For submission of your application form, read and select the terms and condition and click for **Submit**. After successful submission you will receive the acknowledgement in your inbox and registered email. Repeat the same procedure for submission of Licence application form for your other equipments.
6. Procurement of X-ray Equipment

After fulfilling the general requirements, follow the following path to open the Procurement form for new equipment:

**Regulatory Forms** → **Medical Diagnostic Radiology** → **Procurement of X-ray Equipment**

Fill the information asked in the form and upload mandatory attachments. Your application will be reviewed by AERB. After approval/rejection, you will get a notification in your eLORA account. You can view your complete application along with AERB letter in ‘**My Applications**’.

**Important Note:** After supply of equipment, your supplier has to submit an installation report on behalf of your institute. After acceptance of installation report by AERB, you need to submit an application for Licence. (You will get notification of installation report acceptance in your eLORA account as well as in your email).

7. Application for Licence

After approval of installation report of your X-ray equipment by AERB, fill the application form for Licence. Licence form has to be submitted within 6 months from the date of acceptance of installation report. In case, Licence form is not submitted within 6 months, you have to submit fresh QA report before applying for Licence.

Ensure that required Employee and Instrument details are provided in your account. Follow the following path to access Licence form:

**Regulatory Forms** → **Medical Diagnostic Radiology** → **Licence for Operation**
Select the equipment id, agree terms and conditions and press submit button for submission of your application form.

**Guidelines for Other Processes**

8. **Change in Layout:**

In case of change in layout (due to layout modification of installation, relocation and reposition of equipment from its original place), you need to fill form for Change in Layout. Follow following path to access this form:

Regulatory Forms → Medical Diagnostic Radiology → Change in Layout
Pl. note, in this form you will have to provide detail of shielding around X-ray equipment as asked in Licence form. Fill the detail as required in the form and submit.

9. Safety Status Report

Use this form to submit safety annual safety status of your Institute. Follow following path to access this form:


10. QA Test Summary

Use this form to submit QA test summary of periodic QA or QA done after layout change. Follow following path to access this form:

Regulatory Forms → Medical Diagnostic Radiology → QA Test Summary

11. Radiation Survey Report

In case of change in layout, you need to submit radiation survey around the installation. The same form is also be used to submit Periodic RSR (RSR – Radiation Survey Report). Follow following path to access this form:

Regulatory Forms → Medical Diagnostic Radiology → Radiation Survey Report

12. Procurement of X-ray Tube

This form is used to apply for procurement of X-ray tube (in case of replacement of old/damaged x-ray tube). Follow following path to access this form:

Regulatory Forms → Medical Diagnostic Radiology → Procurement of X-ray Tube

13. Intimation of Receipt

After receipt of new X-ray tube, you need to intiate its receipt through Intimation of Receipt form. Follow following path to access this form:
Regulatory Forms ➔ Medical Diagnostic Radiology ➔ Intimation of Receipt

14. Intimation of Decommissioning

In order to intimate decommissioning of your X-ray equipment, use this form. Follow following path to access this form:

Regulatory Forms ➔ Medical Diagnostic Radiology ➔ Intimation of Decommissioning

Important Message

15. NO LICENSE FEE / PROCESSING FEE BY AERB

It may please be noted that AERB does not charge any fee for issuance of regulatory consents including license or registration. However, it has been brought to the notice that some of the suppliers/agencies, while providing services/assistance to the users of Diagnostic X-ray facility for getting their X-ray equipment licensed or registered by AERB, are demanding money to be paid to AERB. In case anybody demands for payment to be made to AERB or any of its officials, kindly provide all the details to:

The Vigilance Officer
Atomic Energy Regulatory Board
Niyamak Bhavan, Anushaktinagar
Mumbai – 400094
Telefax: 022-25576255
e-mail: rbhattacharya@aerb.gov.in
Annexures

Annexure - 1: List of Personnel Monitoring Service (PMS) Providers

The following Accredited Laboratories provide TLD services in the respective states as mentioned below:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>State</th>
<th>Name of Accredited Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Andhra Pradesh, Tamil Nadu, Karnataka, Kerala, Puducherry, Andaman and Nicobar and Lakshdeep (Southern Region)</td>
<td>Avanttec Lab. Private Limited</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31, Kamraj Street, Srinivasa Nagar, Padi, Chennai, Tamil Nadu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin - 600050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tel.: 044-26345288, 044-26630553/54/56</td>
</tr>
<tr>
<td>2.</td>
<td>Maharashtra, Gujarat, Rajasthan, Goa, Dadra and Nagar Haveli and Diu (Western Region)</td>
<td>Renentech Lab. Private Limited</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-106, Synthofine Industrial Estate, Off Aarey Road, Goregaon (E), Mumbai, Maharashtra</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin - 490063</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tel.: 022-40037476</td>
</tr>
<tr>
<td>3.</td>
<td>All other states in the Central, Northern and North Eastern parts of the country</td>
<td>Ultratech Lab. Private limited</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cloth Market, G.E. Road, kumhari, Bhilai, Durg, Chhattisgarh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin - 490042</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tel.: 0788-3295166, 09981212431</td>
</tr>
<tr>
<td>4.</td>
<td>All Defence institutions of country</td>
<td>Defence Laboratory, Jodhpur</td>
</tr>
</tbody>
</table>
Annexure - 2: Standard Layouts

a) **Standard Layout of X-ray Installation**

![Diagram of X-ray Installation Layout]

Legend:
1. Examination Table
2. Spot Film Device
3. Column Stand
4. X-ray Tube Head
5. Chest Stand
6. Control Unit
7. Mobile Protective Barrier
   - with lead glass viewing window of 1.7 mm lead equivalence

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<thead>
<tr>
<th>Name of Institute:</th>
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<tbody>
<tr>
<td>Complete Address of Institute:</td>
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<tr>
<td>Make of X-ray Equipment:</td>
</tr>
<tr>
<td>Model of X-ray Equipment:</td>
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<td>Signature of Head of Institute:</td>
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[Seal of Institute]
b) **Standard Layout of CT Installation**

![Diagram of Standard Layout of CT Installation]

**Legend:**
1. CT Gantry
2. Examination Table
3, 4. Control Unit
5. Viewing glass window of 100cm x 80cm of 2.0 mm lead equivalence

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[Seal of Institute]
c) *Standard Layout of Interventional Radiology Installation*

**Legend:**
1. C-arm
2. Examination Table
3. C-arm Support Stand
4. C-arm Support Stand
5. Fixed Radiation Shield
6,7,8. Control Unit
9. Viewing glass window of 120cm x 100cm of 2.0 mm lead equivalence

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[Seal of Institute]
d) *Standard Layout of Mammography Installation*

**Legend:**
1. Mammography Equipment
2. Control Unit with protective barrier of 1.5 mm lead equivalence

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[Seal of Institute]