

e-LORA Guidelines for Manufacturer /Supplier of Consumer Products and Container Scanners





*Note: If you involved in manufacturing the Consumer Product & Container Scanner, obtain Licence for manufacture of Consumer Product & Container Scanner device. Pl. refer the steps mentioned in Step 3\** 

## **Regulatory Processes in e-LORA for licensing process of manufacturer /supplier of Consumer Products and Container Scanners**

This guidelines covers following equipment:	
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Radioactive Source based	Radiation Generator based equipment	Radiation Generator
equipment	X-ray Baggage Inspection System	based Container
Ionisation Chamber	• X-ray Diffractometer	Scanners
Smoke Detector	• X-ray Fluorescence Device (Cabinet Type)	Radioactive Source
Electron Capture	• X-ray Fluorescence Device (Hand-held)	based Container
Detector	PCB Analyser	Scanners
Ion Mobility	Food Scanner	
Spectrometer	Portable Scanner	
Suspended Particulate	• Electron Beam Welding Machine	
Matter detector	• Any Other	
• Tritium based Devices		
• Any Other		

# Regulatory Processes in e-LORA for licensing process of manufacturer /supplier of Consumer Products and Container Scanners

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#### Section A: Regulatory process of Manufacturer and Supplier of CP&SF

#### Step-1: Register Your Institute



a. Visit AERB website www.aerb.gov.in.

b. Click on the button **e-LORA**. Click on "<u>Go directly to e-LORA System</u>" and "<u>Click to proceed</u> for e-LORA server". It will redirect you to below screen of **e-LORA home page.** Click on application form "Register Institute" to proceed for registration in e-LORA.

	Governm Atomic e-Licens	ent of India Energy Regulatory Board sing of Radiation Applications (eLORA) Syst	f	हेंदी संस्करण AERB Website
		Important Announcement : You might be experienci	ng difficulty to reach us over telepho	one including our helpdesk facility. This is
In case of any difficulty/is: (mas.rasd@aerb.gov.in; 0	sue related to el 022-25990663) an	LORA kindly contact eLORA help desk (elora.info@aerb.gov.in; 022-25990675), d to Head, IAS (ias.rasd@aerb.gov.in; 022-25990662) for Industrial Application:	. Unresolved matter may be escalated to s. If need escalate further, may contact H	Head, MAS for Medical and Research Applicat ead, RASD (head.rasd@aerb.gov.in; 022-25990
Guidelines		Guidance Related to Here	Registration Form	Quick help on eLORA
		Login Issues   Know your application status	Register Institute	Login
View/Download a Guidelines	all	Correction/updation of registered email	Register Radiation Professional (RP)	Institute ORadiation Professional Username*
Guidelines for Instit	itute	Generation of Transaction Key   Profile/Institute closure process	Register Incoming Employer -	Password*
Registration		Non Compliance(NC) Response & NC Resolution Date Extension	after Initiation of Employer Change Process	Practice*Select One v
Professional Registra	ation	Safety Status Report Submission   Employer Change Process	Know Your Application Status	Role*Select One v

**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.)

#### Step 2. Declaration of Safety Infrastructure

Prior to apply for Authorization of supplier complete the requisites as follows

- Add Employee: Declaration of qualified and trained personnel (Radiation Safety professional) in e-LORA system
- Add Instrument: Declaration of monitoring tools (radiation survey meter) as per regulatory requirement in e-LORA prior to apply for Authorisation.

#### 2a. Nominate Employee

For suppliers of all kinds of consumer products and container scanners equipment at least one person trained in radiation safety should be available. For adding such employee to your institution, please follow the path as:

**User management>>>Add Employee>>> Select required Type of Employee from drop down** Please refer Annexure-1 for details of the eligibility criteria and relevant training courses. The trained persons are required to be added as Radiation Safety professional.

Change Password			
Instrument Management	Þ	Add Employee	
My Applications		Change Licensee	
My Casefiles		Designate Licensee	
My Institute Details		Nominate/Relinquish Employe	es
Regulatory Forms	►	Update/Dissociate Employee	
FAQ - Raise an Issue		Update Institute Details	
User management	►	Change Institute Details	
View Inspection Documents			
Verify Mobile and Email Transaction Key		<b>Date and Time</b>	Your application for I
ADD EMPLOYEE			
Select Employee Type Type Of Employee*		Please Select	
		Please Select Radiation Worker Non Radiation Work Radiation Professio	ter nal

Nominate appropriate person fulfilling the qualifications as mentioned in <u>Annexure-1</u> for radiation safety training to demonstrate the adequacy of radiation safety personnel. Once your nominate person successfully completed radiation safety training, advice him/her to update the profile a radiation safety professional. If the nominated personnel is involved in servicing /mentanaince of X-ray equipment (such as replacement of X-ray tube), then provide the TLD services for the personnel.

#### 2b. Add Instrument

Supplier of consumer products and container scanners equipment should possess a suitable and calibrated radiation survey meter at the time of submitting supplier authorization. Hence please add the instrument in '*Safety Tool*' option. *To declare instruments, follow the path as*:



		electronic Safety Performance Indicator (eSPI) Values	
		My Inbox	
Change Password			
Change User ID Add Instrur	ment		
Instrument Management View Instru	iment	ORA kindly contact eLORA Help Desk (elora.info@aerb.gov.in : 022-25990	)675).
My Applications to H	ead. MAS for N	Medical and Research Applications (mas.rasd@aerb.gov.in : 022-25990663) and to Head. IAS (	ias.ra
My Casefiles	strial Applicatio	ns. If need to escalate further, may contact Head, RASD (head rasd@aerh.gov.in : 022-25990656)	
My Institute Details	struit repricatio		
Regulatory Forms			_
FAQ - Raise an Issue		Sear	ch:
User management			<b>.</b>
View Inspection Documents	ite and Time 🗧	Message to User	
Verify Mobile and Email 24/03	3/2021 03:28 PM	Your application for Update Operational Status with application no. 21-719436 has been recorded ar	nd doc
Transaction Key		unsed/disused source(s)/equipment(s) is/ are lying in your institute, immediate action need to be initi source(s)/equipment(s)	iated I
APPLICATION INSTRUMENT REGISTR	ATION		
Instrument Details			
Type Of Instrument*		A	All field
Type Of Instrument Sub-type*			
	Instrument T	ýpe — Mozilla Firefox — 🗌	×
	🔿 🗛 https	s://10.10.30.13/ELORA/fetchEquipSubType.htm?selVal=98629abf039f35f0f3cd37c75e26caec&pds=d3e 🟠	=
		Search:	
	Select ^	Instrument Sub Type	¢
		Survey meter	
	0 0	Contamination Monitor	
	0 0	Gamma zone monitor	
	0 0	Gun Monitor	_
	0 H	Pocket dosimeter	
	0 9	Stack Monitor	
	0 1	Hand & Foot Monitor	
	Showing 1 to	7 of 7 entries	
	_		=

*Important Note:* Procure suitable survey radiation meter for X-ray energy/radioactive source under reference and capable of measuring background radiation levels. Resolution of radiation survey metershall be at least 0.01µSv/h. *The survey meter should be calibrated.* 

Select Monitoring tools from the field Type of Instrument. From the pop-up list, select Survey Meter. After filling all relevant information in the subsequent screen, submit for addition.

#### Step 3: Application for Authorisation as supplier

Suppliers should apply for authorization from AERB by submitting this form. *Regulatory Forms>Consumer Products and Scanning Facility >Authorisation of Supplier* 

*Important Note:* All other application forms will open-up for submission after this approval only. Following is the path for Supplier Authorization.

1.000	1.000	1.000	1.000
CAL 1.000	MCY 1.( Adhoc App	lication	ss
	Authorisati	on as supplier	
	electrol Source Typ	e Approval/Type Registration	Values
	Equipment	Type Approval/Type Registrat	ion/NOC
Chappe Password	Bulk Procu	of Bulk Broquiromont	
Change Liser ID	Addition/D	eletion of Source/Equipment n	nodel
		tus Report	
My Applications Common Forms	Conversion	n of NOC to TA	
My Casefiles Consumer Products and Scanning Facil	ity Renewal of	f Equipment Type Approval	990003)
My Institute Details Incident Reporting	Renewal of	f Source Type Approval	aerb.go
Regulatory Forms			
FAQ - Raise an Issue			
User management			
SUPPLIER APPLICATION FOR AUTHORISATION FOR	FACILITIES AS SUPPI	IER	
SUPPLIER APPLICATION FOR AUTHORISATION FOR Details of the Equipment Attachment Details	FACILITIES AS SUPPI	LIER	
Supplier Application For Authorisation For           Details of the Equipment         Attachment Details	FACILITIES AS SUPPI	LIER	
Supplier > Application For Authorisation For           Details of the Equipment         Attachment Details	FACILITIES AS SUPPI	JER	
Supplier > Application For Authorisation For           Details of the Equipment         Attachment Details           Application for*         Have you obtained consent from the Original Equipment	FACILITIES AS SUPPL	-Please Select	
Supplier > Application For Authorisation For         Details of the Equipment       Attachment Details         Application for*         Have you obtained consent from the Original Equipment         Whether trained percenteel on radiation safety appendicture	nent/Source	-Please Select- -Please Select- First Submisson	
Supplier Application For Authorisation For         Details of the Equipment       Attachment Details         Application for*         Have you obtained consent from the Original Equipment         Whether trained personnel on radiation safety aspeare available*	nent/Source cts (as applicable)	-Please Select -Please Select First Submisison	
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SUPPLIER APPLICATION FOR AUTHORISATION FOR         Details of the Equipment       Attachment Details         Application for*         Have you obtained consent from the Original Equipmanufacturer *         Whether trained personnel on radiation safety aspeare available *         Whether applied for Personnel Monitoring Services,         Whether trained personnel are available for servicin maintenance of the equipment/source*         Availability of relevant procedure for performing QA, protection *         Whether Source Manufacturer has agreed to receive source for disposal*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select -Please Select First Submisison O Yes O NO O NA O Yes O NO O NA O Yes O NO O NA O Yes O NO O NA	
Supplier         Application For Authorisation For           Details of the Equipment         Attachment Details           Application for*         Have you obtained consent from the Original Equipment           Have you obtained consent from the Original Equipment         Whether trained personnel on radiation safety aspective available*           Whether applied for Personnel Monitoring Services, Whether trained personnel are available for servicinmaintenance of the equipment/source*         Availability of relevant procedure for performing QA, protection *           Whether Source Manufacturer has agreed to receiv source for disposal*         Availability of accessories/appropriate radiation mor handling radiation sources*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select -Please Select First Submisison O Yes O No O NA O Yes O No O NA O Yes O No O NA O Yes O No O NA	
SUPPLIER APPLICATION FOR AUTHORISATION FOR         Details of the Equipment       Attachment Details         Application for*         Have you obtained consent from the Original Equipment         Whether trained personnel on radiation safety aspeare available*         Whether applied for Personnel Monitoring Services,         Whether arianed personnel are available for servicin maintenance of the equipment/source*         Availability of relevant procedure for performing QA, protection *         Whether Source Manufacturer has agreed to receiv source for disposal*         Availability of accessories/appropriate radiation mor handling radiation sources*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select -Please Select First Submisison O Yes O No O NA O Yes O No O NA O Yes O No O NA O Yes O No O NA	
Supplier         Application for Authorisation For           Details of the Equipment         Attachment Details           Application for*         Have you obtained consent from the Original Equipment           Have you obtained consent from the Original Equipment         Whether trained personnel on radiation safety aspective available           Whether trained personnel monitoring Services, whether trained personnel monitoring Services, whether trained personnel meanitoring QA, protection *         Whether for Details agreed to receiv source for disposal*           Availability of accessories/appropriate radiation more handling radiation sources*         Services*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select- -Please Select- First Submisison O Yes O No O NA O Yes O No O NA O Yes O No O NA O Yes O No O NA	
Supplier         Application for authorisation for           Application for*         Attachment Details           Application for*         Have you obtained consent from the Original Equipment           Whether trained personnel on radiation safety aspeare available         Whether trained personnel Monitoring Services,           Whether trained personnel are available for servicing maintenance of the equipment/source*         Availability of relevant procedure for performing QA protection *           Whether Source Manufacturer has agreed to receiv source for disposal*         Availability of accessories/appropriate radiation more handling radiation sources*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select- -Please Select- First Submisison O Yes O No O NA O Yes O No O NA O Yes O No O NA O Yes O No O NA	
Supplier         Application For Authorisation For           Details of the Equipment         Attachment Details           Application for*         Have you obtained consent from the Original Equipmentanufacturer*           Whether trained personnel on radiation safety aspeare available         Whether trained personnel Monitoring Services, Whether trained personnel are available for servicinn maintenance of the equipment/source*           Availability of relevant procedure for performing QA, protection*         Whether trained personnel are available for servicinn maintenance of the equipment/source*           Availability of relevant procedure for performing QA, protection*         Whether source Manufacturer has agreed to receive source for disposal*           Availability of accessories/appropriate radiation more handling radiation sources*         Source for disposal*	nent/Source cts (as applicable) if applicable? g and preventive /QC/radiation re the decayed hitor/tools for	-Please Select- -Please Select- First Submisson O Yes O NO O NA O Yes O NO O NA O Yes O NO O NA O Yes O NO O NA	

Select the applicable fields such as "First Submission", and attach necessary documents such as

- Agreement letter from OEM authorizing the Indian Supplier for supplying the equipment in the country.
- Certificate of training from OEM to the person(s) of supplier, for servicing, maintenance and radiation safety aspects of the equipment.
- > Calibration certificate of radiation survey meter.

After attaching above documents, press "Submit" button as mentioned above.

Important Note: After getting approval you can download your issued certificate by using following path: My Application>>Select Application No.>>Show Details>>Approval letter

#### Step 3\*: Licensing for radiation testing facility in CP&SF

If your institution is involved in manufacturing of Consumer products and container scanner, you are required to obtain approval of following:

- i. Layout approval
- ii. RSO Approval
- iii. Application of Licence for radiation testing facility

Change Password Change User ID Instrument Management	Adhoc Application Authonsecond as supplier Source Type Approval/Type Registration Equipment Type Approval/Type Registration/NOC Bulk Procurement Intimation of Bulk Procurement Addition/Deletion of Source/Equipment model e related t
My Applications Common Forms	Conversion of NOC to TA
My Casefiles Consumer Products and Scanning Facility	Renewal of Equipment Type Approval
My Institute Details Incident Reporting	Renewal of Source Type Approval
FAO - Raise an Issue	
User management	
View Inspection Documents	
Verify Mobile and Email 24/03/2021 03:28 PM Your	application for Update Operational Status with application no
Transaction Key         04/10/2019 10:14 AM         You	have successfully Changed Your User ID to :DRCELL The pr
Adhag	
Adhoc Details	
Before filling this form you need to download and find We recommend you to complete the Form first and then proceed for types are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.png,.zip,.pdf.Alternativel zip.org/download.html	<b>Il the requisite form and upload the same. To dov</b> r the upload for your attachments. The maximum file size allowe y, you might zip it and upload it. Software for compressing files ca
Type of Application <sup>*</sup>	Please Select v
Application description (Reason for submission)	General Type of Application
	Application for Layout Approval-XBIS Manufacture
	Application for Manufacturing Gas Mantle
Auto-share-sh 4*	Application for Orec (Thorium) Receipt
	Application for ones (monum) Receipt
Attachment 2	Application for procurement of Ores
	Application for Procurement of TFS,TBD,LCP
	Application for X Ray Tube Procurement
	Application for X-ray Monoblock Procurement
	Application License for commertial production of XBIS
	Self Assessment
	our noocoomene

i. Layout approval: Submit Layout approval application via adhoc application by following path: Regulatory Forms>Consumer Products and Scanning Facility>Adhoc Application

A dedicated radiation testing facility shall be constructed, located away from other working areas not related to radiation testing. The shielding and space requirements for the testing facility shall be such that the dose limits for radiation workers and members of public, as prescribed by the Competent Authority are met with and the exposures are maintained ALARA. The facility shall be equipped with required protective devices. A warning placard shall be displayed outside the testing facility. For Layout Approval attach necessary documents such as

- Prepare a sketch of layout of test facility to the scale 1:50 mentioning all the details such as area, wall thickness, shielding material (wall material), position of doors, windows, equipment, control console, protective barriers etc.
- > Prepare a sketch of floor layout of test facility to the scale 1:100 mentioning the areas

around the test facility and details of occupancy. The copies of both the layouts shall be submitted to AERB along with application in e-LORA

#### ii. Radiological Safety Officer (RSO): For obtaining RSO approval follow the path as;

• <u>Step-a:</u> 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 Radiation Professional).

Select Employee Type					
	Select radiation professional				
Type Of Employee*	Select radiation professional				~
Personal Details					
	RP registration ID 🕢 *				
Title*	Date of birth of RP*				
First Name*	RP Associate Key 🕢 *				
Middle Name	Whether the person is also	O Yes (			
Last Name*	Employer of the institute?*	O fes C	NO		
Date Of Birth*					
Date Of Joining*	Searc	h			
Department					
Designation					
Select profile*		Nucleonic G	auge (Radiation F	acility)	^
		Nucleonic G	augo (Cripplini)		
		Supplier of Y	Vehicle Scanner E	auipment/Source	ン
					✓
Professional Role*					
PMS NO (Applicable for 'Medic	al diagnostic x-ray facility.Radiotherapy'.Nuclear Medic	ne 0000000C000	CX.		
only.)					
Role		Operator-Me	edical diagnostic >	k-ray facility	^
(Applicable for 'Medic Role shall be selected	al diagnostic x-ray facility' only. d based on appropriate qualifications. Refer AERB webs	ite Medical Prac	ctitioner-Medical d	liagnostic x-ray facility	/
for required minimum	qualifications.)				~ <b>@</b>
		Submit C	lose Reset	Education Detail	Experience Detail

The 'RSO eligibility certificate' of the proposed RSO should be available in his/her Radiation Professional (RP) profile in eLORA. If not, please update the 'RSO eligibility certificate' using the "Radiation Professional Updation" option in eLORA prior to submitting the RSO application form. Fill the form by following path; Menu>> Regulatory Forms>> Common Forms>>Nominate RSO Instructions:

- 1. Nominate: To Nominate any RP for the first time.
- 2. **Re-Nominate:** An existing RSO can be renominated for addition/removal of radiation facilities Till 1 month to RSO approval validity. i.e. Button will be disable for one month before Expiry date
- 3. **Renew:** An existing RSO can be Renewed before one month of RSO approval validity date. i.e.Renew button will be enable for One Month Before expiry.
- 4. Undesignate: An existing RSO can be removed from his role.

5. *Example on Re-Nominate, Renew:* If RSO application valid till '2021-09-16', then users can Re-Nominate RSO till '2021-08-16' after that Renew option will be enable to Renew RSO. So users can Apply for Renewal of RSO till '2021-09-16'.

*Important Note* : Employer will be able to Nominate/Re-nominate/Renew for Person A, only if Person A has completed course for the selected practice in eLORA eLearning Portal.

Radiation Professional Details	
	All fields marked by *are mandatory.
Select Radiation Professional	· · ·
Radiation Professional*	
Date of Birth <sup>*</sup>	
Registration ID*	
Role of RP*	
RSO Status <sup>*</sup>	
e-Mail Id Official <sup>*</sup>	
Education Details	
Experience Details	
Nominate Renominate	Renew Undesignate Reset Close

Radiation professional can subsequently be nominated for the approval of RSO. The process of RSO is as follows;

#### • <u>Step -b:</u> First generate the transaction key by using tab "Transaction key"

Before generating the transaction key, verify whether email id and Mobile number of an employee in eLORA. The process of verification is as follows;

- First log in to the employer profile (Institute Log in),
- Click on "My Institute Details",
- Click on "Contact Details".
- You can check the verification status of the email and mobile number of the employer from the list appears.
- If status of verification is "no", then corresponding employee has to Log in to the system (RP log in for RSO).
- Fill complete PMS No in the field PMS No in the format XXXXCXXXX that is first 4 digits institute number and last 4 digits personnel number as written on TLD badge.

<ol> <li>Left side block displayed b</li> <li>Right side block displayed I number of the list of emplo</li> <li>All OTP and keys expires a</li> <li>One key can be used only</li> <li>Multiple keys can be gener</li> <li>Keys can be used across p</li> </ol>	elow shows Employer e-mail id and mobile number by d loelow will contain only those Employee (who will be the yees are verified. If not, then Click Here : 12 midnight everyday once ated for 1 employee ractices and profiles	lefault e applicant of the application - Employ	rer or Licensee). Make sure, e-mail id and mobile
	Employer Details	Employee Details	s (Applicant/RSO to be nominated)
Employer Registered Email Employer Registered Mobile Email OTP Mobile OTP	bharat.bang@tcs.com 9619672774	Employee Name 🕡 Employee Registered Email Employee Registered Mobile Email OTP Mobile OTP	
Existing OTP	Existing OTP's are the latest received OTPs, not u Send OTP Verify Transaction	used within valid time. If not valid, use Se Key :	end OTP facility.

*Important Note:* Only name of employee, whose email id and mobile number are verified, will appear in the employee list for transaction key generation. For RSO, email id and mobile number has to be verified after log in to his/her Radiation Professional (RP) Profile (Using RP user id and password).

• <u>*Path-c:*</u> Fill the form by following path; Menu>> Regulatory Forms>> Common Forms>>Nominate RSO

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			Nominate RSO	
	electron	ic Safety Performa	Non-utilization of Approval	
		My I	Employer Change Initiation	
			Non-Compliance Response	
Change Password			Safety Status Report	
Change User ID			Feedback on Grant of Conse	nt
Instrument Management	In case of any diffic	ulty/issue related to	Feedback on Regulatory Insp	pection
My Applications	022-25990675). Unres	olved matter may b	Enforcement Response Scree	en
My Casefiles	(mas_rasd@aerb.gov.jj	n : 022-25990663) an	Exposure Investigation Repo	ort
My Institute Details	Common Forms	Þ	Update Operational Status	
My Equipment Details	Consumer Products and Scanni	ing Facility 🕨 🕨	Security Plan	
My Non-Compliances	Incident Reporting	►		
Regulatory Forms	Transport	•		
FAQ - Raise an Issue				
User management	Date and Time 🏺		Messa	ige to
View Inspection Documents	24/03/2021 03:28 PM	Your application for U	Update Operational Status	s with a
Verify Mobile and Email		and document no. is 2	21-UOPS-604587. If unse	d/disu
Transaction Key		your institute, infined	hate action need to be mit	lateu l
Radiation Professional Details				
Select Radiation Professional			All fields marked by *are manda	atory.
Radiation Professional*				
Date of Birth*				
Registration ID*				
Role of RP*				
RSO Status*				
e-Mail Id Official				
Education Details				
Experience Details				
Transaction Key Details*				

#### iii. Application of Licence for radiation testing facility

Fill this form to obtain Licence for radiation testing facility to manufacture X-ray Baggage Inspection System (XBIS) or any other radiation generating based consumer products. (Same form is also applicable for renewal of licence). Documents required to be attached with this form: i) Radiation protection manual of the facility

ii) Ownership document/rented property agreement of the site

iii) Drawing (scale 1:50) of the test facility

iv) Drawing (scale 1:100) of the floor layout of test facility

#### Section B: Type Registration/Type Approval (New/Renewal)

List of equipments which requires Type Approval

- X-ray Inspection System
- Food Scanners
- X-ray Diffractometer
- X-ray Fluorescence Device (Cabinet Type)
- X-ray Fluorescence Device (Hand Held)
- PCB Analyzers
- Portable Scanner
- Vehicle Scanner (X ray based)
- Vehicle Scanner (Isotope based)

List of equipments which requires Type Registration

- Ionisation Chamber Smoke Detector
- Electron Capture Detector
- > Ion mobility spectrometer
- Suspended Particulate Matter detector
- Tritium Based Devices

#### Step 1: Source Type Approval/Type Registration:

If your institution is dealing with radioactive sources used in consumer products and container scanner, follow the step of "Source Type Approval/Type Registration. For radioactive sources manufactured in India, apply for Source type approval. For imported radioactive sources, apply for source type registration. The option type-registration should be used in case of sources using consumer products and scanning facilities.

Following is the path:

## **Regulatory Forms>Consumer Products and Scanning Facility>Source Type Approval/Type Registration**



After clicking on the form, following screen will appear. Choose nature of application as "Type registration" and filled the applicable details and submit.

It is required to submit the appropriate source type as "Sealed" in the application form. During complete submission of this form, please attach following documents:

- Documents on Source Classification Number
- Sealed Source Compliance Standard certificate
- Specify the Standards (national / international) to which the source complies

> Performance verification test certificate/test report certified by accredited laboratory / approved agency

Documents mentioning details of the source such as Maximum design activity, External Dimension, Active Dimension of Source, Encapsulation Material, Encapsulation Melting Point, Dose Rate(at a reference distance), Physical Form of source, Chemical form of source, Maximum Stray radiation level at 10 cm, leak test certificate/report, Accident Condition (Fire Temperature, Duration),
 Approval Certificate of the CP&SF source from the competent authority of country of origin,

if any

		TION FOR SOURCE TYPE APPROVAL/TYPE REGISTR	PPLIER NAPPLICA
		Attachments	General Details
~	Type registration	» * 🕡	Nature of applicatio
~	Sealed		Source Type*
			Radioisotope*
		"* 😧	Source Specification
	○ Yes ○ No	e will be used as check source/calibration source*	Whether the source
		on Number*	Source Classificatio
		ctivity *	Maximum design ac
~	Please select		Unit of Activity*
			Make <sup>*</sup> 🕜
			Model*
		ource Manufacturer*	Name of original Sc
		Source Manufacturer*	Address of original
1.			
~	Please select	Source Manufacturer*	Country of original
		ource Supplier*	Name of original Sc
		Source Supplier"	Address of original
	Please select	Source Supplier*	Country of original
			External Dimension
		f Source	Active Dimension of
		rial	Encanculation Mater
		ng Roint	Encapsulation Mater
		ng rome	encopsulation Metal
	Submit Close Reset		
	Submit Close Reset		

*Important Note:* Type Approval (design approval) is applicable for the indigenous sources(s) i.e. manufactured in India.

#### Step 2: Renewal of Source Type Approval:

To renew the source type approval, follow the path: Regulatory Forms>Consumer Products and Scanning Facility>Renewal of Source Type Approval

SU	Change Password Change Vassword Change Vassword Change User ID Instrument Management My Applications My Drafts My Drafts My Drafts My Drafts My Institute Details Regulatory Forms FAQ - Raise an Issue User management Details Regulatory Forms FAQ - Raise an Issue User management Details Common Forms Attachment Details	NO       NU       OU         NO       OU       OU         NO       OU       OU         NO       OU       OU         RIA       PS       OU         O       Adhoc Application       BU         Plotter       Authorisation as supplier       N         Source Type Approval/Type Registration       Bulk Procurement         Intimation of Bulk Procurement       Intimation of Bulk Procurement         Intimation of NOC to TA       Renewal of Fourinment Type Approval         Renewal of Fourinment Type Approval       Ou         Renewal of Source Type Approval       Out
	Application for	Renewal of Source Type Approval
	Reference No. of Previous Approval *	
	Approval Valid Till	
	Make	
	Model	
	Original Equipment Manufacturer	
	Original Equipment Manufacturer Country	
	Whether any change has been made to the said model after issuance of Type Approval certificate <sup>*</sup>	○Yes ○No
		Submit Reset Close

### a: Bulk Procurement of Source:

	electronic Safety Performance Indi	Authorisation as supplier
	My Inbox	Source Type Approval/Type Registration
		Equipment Type Approval/Type Registration/NOC
Change Password		Bulk Procurement
Change User ID		Intimation of Bulk Procurement
Instrument Management	In case of any difficulty/issue related	Addition/Deletion of Source/Equipment model
My Applications	(elora.info@aerb.gov.in ; 022-25990675). Un	Supply Status Report
My Casefiles	Common Forms	Conversion of NOC to TA
My Drafts	Consumer Products and Scanning Facility	Renewal of Equipment Type Approval
My Institute Details	Incident Reporting	Renewal of Source Type Approval
Regulatory Forms	Transport 🕨	
FAQ - Raise an Issue		
User management	Date and Time Message to User	
View Inspection Documents	Date and Time Pressage to ester	
View Attachment		
Verify Mobile and Email		
Transaction Kov		

Select mode "Import", if the source is imported. It is the first the source to be type registered, then you can apply for bulk procurement of the source by selecting the import option. Select mode "local" for indigenous sources Local sources which are type approved, can be applied for bulk procurement.

SUPPLIER APPLICATION FOR BULK PROCUREMENT			
Procurement Details Attac	chments		
Mode of Procurement*	Please Select V		
Procurement of*	Please Select		
	Local		
	Import		
O Thomas	enontAction.htm E 1904 🛱 😨 👁 🖄 =		
SUPPLIER > APPLICATION FOR BULK PROCUREMENT			
SUPPLIER APPLICATION FOR BULK PRO	CUREMENT		
SUPPLIER > APPLICATION FOR BULK PRO	CUREMENT		
SUPPLIER Details Attachments			
SUPPLIER APPLICATION FOR BULK PROT			
SUPPLIER APPLICATION FOR BULK PROF	Please Select Y		
SUPPLIER APPLICATION FOR BULK PROT Procurement Details Attachments Mode of Procurement" Procurement of "	Please Select ~		
Supplier > Application For Bulk Prod           E         Procurement Details         Attachments           Mode of Procurement*         Procurement of*	Please Select × Please Select × Please Select × Please Select		
SUPPLIER Details       Attachments         E       Procurement Details       Attachments         Mode of Procurement*       Procurement of *	Please Select		
	Please Select × Please Select × Please Select × Please Select Equipment with source Source Equipment dpmit Close Reset		

From the dropdown you need to select the source details and then submit.

## b: Intimation of Bulk Procurement of Source:

	J. 10.30. 13/ELOKA/LOGINACTION.NTM	180% W ビー
		Adhoc Application
elect	tronic Safety Performance Indicator (e	<b>SP</b> Authorisation as supplier
	My Inbox	Source Type Approval/Type Registration
		Equipment Type Approval/Type Registrat
Change Password		Bulk Procurement
Change User ID		Intimation of Bulk Procurement
Instrument Management 🔹 🕨	In case of any difficulty/issue related to	eL Addition/Deletion of Source/Equipment
My Applications	Help Desk (elora.info@aerb.gov.in : 022	-25 Supply Status Report
My Casefiles	Common Forms	Conversion of NOC to TA
My Drafts	Consumer Products and Scanning Facility	Renewal of Equipment Type Approval
My Institute Details	Incident Reporting	Renewal of Source Type Approval
Regulatory Forms	Transport	× •
SUPPLIER APPLICATION	FOR INTIMATION OF BULK PROCUREMENT	
Intimation Details		All fields marked by * are mandatory
Document number of ap	pproval*	
Make		
Model		
Number of units permitt procure(Equipment)	ted to	
Number of units permitt procure(Source)	ted to	
Date of receipt <sup>*</sup>		
	Submit Close Reset	

Section C: Applications for NOC/Type Approval (TA)/Renewal of TA of CP&SF

For list of documents to be submitted with the different type of application provided in <u>Annexure-2</u> *Step 1: Equipment Type Approval/ NOC:* 



For foreign make equipment, all the suppliers are required to obtain the type approval through following path: **Regulatory Forms>Consumer Products and Scanning Facility> Equipment Type Approval/Type Registration/NOC** 

(Note: Without a valid TA, end user cannot select the equipment in e-LORA)

#### Step-1: NOC (No Objection Certificate, applicable only for imported CP&SF equipment):

Obtain NOC after clicking the form, the below screen will appear, where you need to select the nature of application "NOC" appropriately. This form is applicable for the imported equipment (foreign make).

General Details Attachment Details		
Nature of application *	Please Select	×
Equipment Type *	Please Select	
Make * 🕜	NOC	
Model *	Type Approval	
Name of original equipment manufacturer *	Type Registration	
Address of original equipment manufacturer *	Type Approved Equipment	
		4
Country of original equipment manufacturer *	Please Select	///.
Name of original equipment supplier *		
Address of original equipment supplier *		
Address of original equipment supplier		

After complete filling of the form following documents to be attached:

1. National/International Standards to which the equipment conforms (Certificate of conformity for the device including X-ray tube, generator and monoblock - English version of CE / FDA Certificate or equivalent, preferably issued by notified/certified body)

- 2. Product technical details (Technical catalogue and manual of equipment as a whole)
- 3. Operation Manual
- 4. Radiation Leakage Test Report
- 5. OEM Authorisation for supply of Equipment
- 6. Technical reference table for evaluation of NOC/ Type Approval Application of self shielded X-

ray based equipment as per the  $\frac{\text{Annexure-3}}{\text{Annexure-3}}$ .

*Important Note:* After obtaining NOC, Type Approval for the equipment model (as approved in NOC) need to be applied using the form "Conversion from NOC to TA"

#### Step-2: Conversion of NOC to TA:

Indian Supplier is required to apply for conversion of NOC to TA after obtaining NOC. Follow the path:

#### **Regulatory Forms >> Consumer Products and Scanning Facility >> Conversion of NOC to TA**



UPPLIER APPLICA	TION FOR CONVERSION	DF NOC TO TA			
General Details	Attachment Details				
NOC reference nur	nber *				
Application No					
Make					
Model					
Name of original e	quipment manufacturer				
Country of original	equipment manufacturer				
Condition for Oper	ation				<i>ii</i> .
			Submit	Reset Close	

Select the NOC reference number from dropdown.

During complete submission of this form, please attach the Type approval test report in the AERB format (Available in e-LORA Help menu).

#### Step-C: Renewal of equipment Type Approval

Fill and submit this form to obtain renewal of type approval of equipment within 30 days of expiry of

#### type approval, you can fill the form

**Regulatory Forms >> Consumer Products and Scanning Facility >> Renewal of Equipment Type Approval** 

ACRES AND A	Government of India <b>Atomic Energy Regul</b> e-Licensing of Radiation Ap	atory Board plications (eLORA) System	सन्यमेव जयते
Change Password Change User ID Instrument Management > My Applications My Institute Details Regulatory Forms > FAQ - noise an Issue User management >	In case of any difficulty/issue related t Common S	Adhoc Application Authorisation as supplier Source Type Approval/Type Registration Equipment Type Approval/Type Registration/NOC Bulk Procurement Intimation of Bulk Procurement Addition/Deletion of Source/Equipment model Supply Status Report Conversion of NOC to TA Renewal of Equipment Type Approval Renewal of Source Type Approval	or (eSPI) Values pra.info@aerb.gov.in ; ad, IAS (ias.rasd@aer
Verify Mobile and Email Transaction Key	Date Showing 0 to 0 of 0 entries	and Time * No data	available in table
General Details Attach	DR RENEWAL OF EQUIPMENT TA		
Application for		Renewal of Equipment Type Approval	
Reference No. of Previous A Approval Valid Till	opproval *		
Make			
Model			
Original Equipment Manufac	turer		
Original Equipment Manufac	turer Country		
Whether any change has be Approval certificate <sup>*</sup>	en made to the said model after issuance of Type	○Yes ○No	

During complete submission of this form, please attach following documents:

- Certificate from the Original Equipment Manufacturer regarding incident/accident occurred anywhere in the world while using the above model
- Submit supply details of the applied model (as per the format available in help menu.)
- Any other- operational feedback for container scanner (as per the format)

#### Section D: Other Processes

#### 1. Addition/Deletion of Source/Equipment model

Kindly note that each source model/equipment model need to be register by only one supplier. If one supplier has registered the particular source model, then the other supplier importing the same source model/equipment model need not register it again, but he has to simply add the source in their account through **Addition/deletion of** Source/Equipment model.

Similarly, once one equipment is type approved then same model need not be registered again. Other

supplier can add in their e-LORA profile by following path;

Menu: Regulatory Forms >> Consumer Products and Scanning Facility >> Addition/Deletion of Source/Equipment model

Government of India Atomic Energy Regulatory Board e-Licensing of Radiation Applications (eLORA) System				
	Adhoc Application Authorisation as supplier Source Type Approval/Type Registration Equipment Type Approval/Type Registration/NOC Bulk Procurement			
Change User ID	Addition/Deletion of Source/Equipment model			
Instrument Management  In case of any dif	ficulty/issue related to Supply Status Report			
My Applications Common Forms	Conversion of NOC to TA			
My Casefiles Consumer Products and Sca My Institute Details Incident Reporting	Renewal of Equipment Type Approval      Renewal of Source Type Approval			
Regulatory Forms				
View Inspection Documents	Date and Time			
Verify Mobile and Email	INO GATA AVAILADI			
Transaction Key Showing 0 to 0 of 0 e	entries			
SUPPLIER APPLICATION FOR ADD	DITION/DELETION OF SOURCE/EQUIPMENT MODEL			
General Details Attachments				
Application for*	Please select			
	Please select			
	Addition of Equipment			
	Addition of source			
Addition of source				
Deletion of equipment				
Deletion of source				
	Submit Close Reset			

No separate Approval letter is issued, but the name of the new supplier will be shown to the end user during procurement application.

#### 2. NC response screen

AFREME	Gov Atc e-Li	ernment of India Omic Energy censing of Radio	<b>Re</b>	egulatory Board n Applications (eLORA)
			•	Nominate RSO Non-utilization of Approval Employer Change Initiation Non-Compliance Response
				Safety Status Report
			E.	Feedback on Grant of Consent
Change Password	E 11			Feedback on Regulatory Inspection
Change User ID				Enforcement Response Screen
Instrument Management 🕨		In case of any difficulty/issu	e relat	Exposure Investigation Report
My Applications	Common F	ormia		Update Operational Status
My Casefiles	Consumer	Products and Scanning Facility	Þ	Security Plan
My Institute Details	Incident Re	eporting		
Regulatory Forms	Transport		D	
FAQ - Raise an Issue				

For response to the non-compliances raised through regulatory inspection, follow the path: **Regulatory Forms>> Common Forms>>Non-Complaince Response**.

You need to attach the documentary evidences against the compliance status.

#### 3: Supply Status Report

Carry out an audit once in **annually** and submit to the Competent Authority in the safety status report. Use this form to submit safety status of your Institute. Follow following path to access this form:



	Government of India <b>Atomic Energy Ro</b> <i>e-Licensing of Radiatio</i>	System	
		Adhoc Application Authorisation as supplier Source Type Approval/Type Registration	1.000 nce Indicator (eSPI) Values
		Equipment Type Approval/Type Registration/NOC	nbox
		Bulk Procurement	
Change Password		Intimation of Bulk Procurement	
Change User ID		Addition/Deletion of Source/Equipment model	
Instrument Management 🕨	In case of any difficulty/issue rela	Supply Status Report	elora.info@aerb.gov.in ; 022-2599067
My Applications	Common Forms	Conversion or NOC to TA	d@aerb.gov.in ; 022-25990662) for i
My Casefiles	Consumer Products and Scanning Facility	Renewal of Equipment Type Approval	
My Institute Details	Incident Reporting	Renewal of Source Type Approval	
Regulatory Forms	Transport		
FAQ - Kaise an Issue			

#### 4. Adhoc Application

#### a. Bulk Procurement of X-ray tube(s)

#### You are required to apply through, Regulatory Forms>> CP&SF >> Adhoc application

Submit the completely filled application (Format available in help menu) and necessary documents as mentioned.

You are hereby advised to make use of the '*Application for Bulk procurement of X-ray Tubes*' (based on the numbers as per your annual requirements) for above purposes. Also, it may be noted that the X-ray tubes procured through bulk procurement may be supplied to authorized end-users (i.e. licensed equipment) for repair/replacement, and for such activity end-users need not again obtain separate permission.

dhoc Details	
	$\frown$
efore filling this form you need to download and fill the requis	site form and upload the same. To download the form click here
Ve recommend vou to complete the Form first and then proceed fo	or the upload for your attachments. The maximum file size allowed
re:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.png,.zip,.pdf.Alternatively,you might zi	ip it and upload it. Software for compressing files can be downloaded for free fr
ype of Application <sup>*</sup>	Please Select v
pplication description (Reason for submission)	General
	Application for Layout Approval-XBIS Manufacturer
	Application for Manufacturing Gas Mantle
Attachment 1*	Application for Ores (Inonium) Receipt
Attachment 2	Application for procurement of Ores
	Application for Procurement of TFS,TBD,LCP
	Application for X Ray Tube Procurement
	Application for X-ray Monoblock Procurement
	Application License for commertial production of XBIS
	Self Assessment
	Submission of Certificate of registration

*Important Note:* Procurement permission for X-ray tube will be issued only to the supplier of the equipment

#### b. Authorisation for Manufacturing Gas Mantle:

**You are required to apply through, Regulatory Forms>> CP&SF >> Adhoc application** Submit the completely filled application

Adhoc Details         Before filling this form you need to download and fill the requisite form and upload the same. To download the form click here         We recommend you to complete the Form first and then proceed for the upload for your attachments. The maximum file size allowed for ree from are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.pdf.Alternatively,you might zip it and upload it. Software for compressing files can be downloaded for free from Type of Application*         Type of Application      Please Select         Application description (Reason for submission)       General         Application for Layout Approval_XBIS Manufacturer       Application for Manufacturing Gas Mantle	
Before filling this form you need to download and fill the requisite form and upload the same. To download the form click here         We recommend you to complete the Form first and then proceed for the upload for your attachments. The maximum file size allowed for are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.pg,.zip,.pdf.Alternatively,you might zip it and upload it. Software for compressing files can be downloaded for form of Application*         Type of Application*      Please Select         Application description (Reason for submission)       General         Application for Layout Approval_XBIS Manufacturer       Application for Manufacturing Gas Mantle	
Before filling this form you need to download and fill the requisite form and upload the same. To download the form click here         We recommend you to complete the Form first and then proceed for the upload for your attachments. The maximum file size allowed for are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.pg,.zip,.pdf.Alternatively,you might zip it and upload it. Software for compressing files can be downloaded for free from         Type of Application*      Please Select         Application description (Reason for submission)       General         Application for Layout Approval-XBIS Manufacturer       Application for Manufacturing Gas Mantle	
Before filling this form you need to download and fill the requisite form and upload the same. To download the form click here         We recommend you to complete the Form first and then proceed for the upload for your attachments. The maximum file size allowed for are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.png,.zip,.pdf.Alternatively,you might zip it and upload it. Software for compressing files can be downloaded for free from         Type of Application*      Please Select-         Application description (Reason for submission)       General         Application for Layout Approval_XBIS Manufacturer         Application for Manufacturing Gas Mantle	
We recommend you to complete the Form first and then proceed for the upload for your attachments. The maximum file size allowed for are:.doc,.docx,.xls,.xlsx,.odt,.jpeg,.jpg,.pg,.zip,.pdf.Alternatively,you might zip it and upload it. Software for compressing files can be downloaded for free from Type of Application*  Application description (Reason for submission)  General  Application for Layout Approval_XBIS Manufacturer  Application for Manufacturing Gas Mantle	and fill the requisite form and upload the same. To download the form click here
Type of Application*    Please Select        Application description (Reason for submission)     General       Application for Layout Approval-XBIS Manufacturer     Application for Manufacturing Gas Mantle	and then proceed for the upload for your attachments. The maximum file size allowed for eac ernatively,you might zip it and upload it. Software for compressing files can be downloaded for free from http:
Application description (Reason for submission) General Application for Layout Approval-XBIS Manufacturer Application for Manufacturing Gas Mantle	Please Select V
Application for Layout Approval XBIS Manufacturer Application for Manufacturing Gas Mantle	General
Application for Manufacturing Gas Mantle	Application for Layout Approval-XBIS Manufacturer
	Application for Manufacturing Gas Mantle
Attachment 1 Application for Ores (Inorium) Receipt	Application for Ores (Inorium) Receipt
Attachment 2 Attachment 2	Application for procurement of Ores
Application for Procurement of TFS,TBD,LCP	Application for Procurement of TFS,TBD,LCP
Application for X Ray Tube Procurement	Application for X Ray Tube Procurement
Application for X-ray Monoblock Procurement	Application for X-ray Monoblock Procurement
Application License for commertial production of XBIS	Application License for commertial production of XBIS
Self Assessment	Self Assessment
Submission of Certificate of registration	Submission of Certificate of registration

#### More Information:

AERB AERB	icensing of Radiation Applicatio	ns (eLOR	A) System	सत्यमेव जयते		
Important Announcement : You might be experiencing difficulty to reach us over telephone including our helpde						
Research Applications (mas.ra	sd@aerb.gov.in; 022-25990663) and to Head, IAS (las.rasd) RASD (head.rasd)	@aerb.gov.in; 02 @aerb.gov.in; 02	22-25990662) for industrial Applications. If need escalate for 22-25990666)	urther, may contact Head,		
Guidelines	Guidance Related to Now Login Issues   Know your application status		Registration Form Quick In Register Institute	Lorin		
RSO Approval-Employer C About U Radiotherapy	Js ▼ │ Regulatory Process ▼ │ Facilities & Activities ▼	Publication	• Type Approved (TA) Equipment (555 KB) 🔒	A-		
Nuclear Medicine		>	Authorized QA Service, Supplier of Diagnostic Radio     List of Survey Meter-Dosimeter Suppliers (297 KB)	logy (DR) (564 KB) 🛃		
Diagnostic Radiology		>	<ul> <li>How to verify your mobile number and email id</li> <li>Request to AERB for extension of Non Compliance period (198 KB) (a)</li> <li>Guidelines for submission of Non compliance (NC) Personse (431 KB) (b)</li> </ul>			
Industrial Radiography		>	<ul> <li>Radiological Safety Officer (RSO) approval (657 KB)</li> <li>Generate Transaction key (1 MB)</li> </ul>	) )		
Gamma Irradiation Chamb	pers	>	Transaction Key_FAQs (111 KB)     e-LORA LOGIN Issues (110 KB)     Paise ap Issue to AEDR (2 MB)			
Gamma Radiation Process	ing Facilities	>	<ul> <li>How to know your Practice-Profile-Role for the radial your institute (275 KB) </li> </ul>	tion equipment/source at		
Industrial Accelerators/Res	earch accelerators	>	<ul> <li>Employer Change Guidelines (760 KB) 3</li> <li>Application Status (1 MB) 3</li> </ul>			
Well Logging		>	<ul> <li>Submission of Safety Status Report (801 KB) </li> <li>Update Operational Status (1005 KB) </li> <li>Varification of machile source and enable D</li> </ul>			
Consumer Products		×	verification of mobile number and email ID			
<ul> <li>Guidelines on regulat</li> <li>Guidelines on regulat</li> </ul>	ory application form submission for end-user (232 KB) ory application form submission for supplier (241 KB)					

- II. In case, issue persist, pl. submit the problem through 'Raise an issue' option of e-LORA system
- III. You contact us at following Help Desk Number

#### Help Desk No. and Email id

#### 022-25990675 & elora.info@aerb.gov.in

#### **Important Message**

#### NO LICENSE FEE /PROCESSING FEE BY AERB

It may please be noted that at present AERB does not charge any fee for issuance of regulatory consents including License or Registration. 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, Tel: 022-25990611 Email: vigilance@aerb.gov.in

Annexure-1

Annexure-1: Detail	s of Radiation	Safety (	Certification	Courses
--------------------	----------------	----------	---------------	---------

0	Annexare-1. Details of Radia				
Sr.	Practice	Minimum Eligibility	Training Course in which		
No.		Criteria	candidates will be		
			inducted		
1	Manufacturer/Supplier/Radiation	Basic degree in	RSO Certification for		
	Facilities of Container/Vehicle Scanners	Science or equivalent	Scanning Facilities		
		from a recognized	(Seven working days)		
2	Manufacturers/ Suppliers of X-ray	University/Institution	Radiation Safety and		
	Inspection Equipment such as	Ör	Quality Assurance of		
	• X-ray Baggage Inspection System	Diploma in	Diagnostic X-ray		
	• X ray Diffractometer (VPD)	Engineering from a	Equipment with special		
	• X-ray Diffractonicter (XRD),	recognized	lecturers on radiation		
	• X-ray Fluorescence (XRF) Device,	University/Institution	safety and regulatory		
	(Cabinet /Hand-held)	Oniversity/institution	requirements of X ray		
	• X-ray based PCB Analyser,		Inspection Equipment		
	• X-ray based Food Scanner, and		(Five working days)		
	• Portable X-ray Scanner etc.		(Five working days)		
3	Manufacturers/Suppliers of analytical		RSO Certification for		
	equipment incorporated with radioactive		Nucleonic Gauges and		
	source(s) such as		Well logging		
	• Smoke detectors,	ors, Applications with special			
	• Tritium based devices.	lecturers on radiati			
	Electron Capture Detector		safety and regulatory		
	<ul> <li>Ion Mobility Spectrometer &amp;</li> </ul>		requirements of		
	(Chemical/Explosive/Narcotic		radioactive source based		
	(Chemical/Explosive/Natcolle		analytical equipment.		
	Padioactive source based VPE etc.		(Five working days)		
4	• Radioactive source based ARF etc.	1012 aging on	DSO Contification for Cog		
4	Fluence out Leven Startens	10+2 science or	KSO Certification for Gas		
	Fluorescent Lamp Starters	equivalent	Manties & Fluorescent		
		examination passed	Lamp Starters		
		from a recognized	Manufacturing Facility		
		Board/ University	(Five working days)		
• (	Complete syllabi of above courses are avail	able at AERB website a	it following link:		
	(https://www.aerb.gov.in/images/PDF/Com	plete_amended_syllabi	_document.pdf)		
• T	he courses are conducted by Radiological	Physics and Advisory I	Division (RP&AD, Bhabha		
A	tomic Research Centre (BARC), CT&CRS	5 Building, Anushaktina	igar, Mumbai-400094		
• F	or further information related to courses	• For further inform	nation related to course (Sr.		
(5	Sr. Nos. 1,3 &4), please contact:	No. 2), please con	ntact:		
I	Dr. T. Palani Selvam	Dr. Sunil Dutt Sh	arma		
H	Head, Computational Radiation Physics &	Head, Medica	al Physics Section,		
	Quality Assurance Section, RP&AD,BARC	RP&AD,BARC	-		
I	Phone (Off): 022-69298653	<b>Phone (Off):</b> 022-69298713			
	-mail: pselvam@barc.gov.in	e-mail: sdsharma@barc.gov.in			

Annexure -2

Documents to be submitted along with NOC, NOC-Type Approval & Type Approval applications

- Practice: Consumer Products
- Type of Equipment: X-ray Inspection System [X-ray Baggage Inspection System, X-ray Diffractometer, X-ray Fluorescence Device (cabinet /hand-held), PCB Analyser, Food Scanner, Portable Scanner etc.]
- Institute Role: Suppliers
- Installation Type: Supplier-CP Facility

Sr.	NOC	NOC to Type	Type Approval	Renewal of Type
No.	(Imported Equipment)	Approval	(Indian Manufacturer)	Approval
1.	Product Technical Details	Type Approval	Product Technical	Supply Report
		Test Report of	Details	(As per format)
		X-ray Inspection		
		Equipment		
		(As per format)		
2.	Operation Manual		Operation Manual	Certificate from
				the Original
				Equipment
				Manufacturer
				regarding
				incident/accident
				occurred
				anywhere in the
				the above model
2	Dediction Lealage Test		National/International	the above model
5.	Radiation Leakage Test		Standards to which the	
	Report		equipment conforms	
1	OFM Authorisation for		Type Approval Test	
т.	Supply of Equipment		Report of X-ray	
	Suppry of Equipment		Inspection Equipment	
			(As per format)	
5	National/International		Summary Sheet and	
	Standards to which the		Technical	
	equipment conforms		Specifications	
	1 1		Comparison Sheet for	
			X-ray Inspection	
			Equipment	
			(As per format)	
6.	Summary Sheet and		/	
	<b>Technical Specifications</b>			
	Comparison Sheet for			
	X-ray Inspection			
	Equipment			
	(As per format)			

- Practice: Consumer Products
- Institute Role: Suppliers
- Installation Type: Supplier- Vehicle Scanner

Sr.	NOC	NOC to Type	Type Approval	Renewal of Type
No.	(Imported Equipment)	Approval	(Indian	Approval
			Manufacturer)	
1.	Product Technical	Type Approval	Product Technical	Supply Report
	Details	Test Report	Details	(As per format)
2.	Operation Manual		Operation Manual	Certificate from
				the Original
				Equipment
				Manufacturer
				regarding
				incident/accident
				occurred
				anywhere in the
				world while
				using the above
				model
3.	Radiation Leakage		National/International	Operational
	Test Report		Standards to which	Feedback
			the equipment	(As per format)
			conforms	
4.	OEM Authorisation		Type Approval Test	
	for Supply of		Report	
	Equipment			
5.	National/International			
	Standards to which the			
	equipment conforms			

#### <u>Technical Reference Table for evaluation of NOC/ Type Approval Application of X-ray based</u> <u>Self-shielded Equipment</u>

### [Application may be liable for rejection if this sheet is not attached]

Sr	Attribute/ Parameter(s)	Specification	Attach document and	Remarks if
No			specify the nage no	anv
1.0.			for reference with	
			relevant nortion	
			highlighted	
1	Maximum operating voltage		mgninghted	
1.	(kV) of the Fauinment			
2	Maximum operating current			
2.	(mA) of the Fauinment			
3	Maximum Generator Power of			
5.	Equipment (kW)			
4.	Number of X-ray tubes in the			
	equipment			
5.	Model Name of X-ray tube(s)			
6	Maximum Tube Potential (kV)			
0.	of the mentioned X-ray tube			
	(Pl write both values if two			
	tubes are used)			
7.	Maximum Tube Current (mA)			
,.	of X-ray tube			
	(Pl. write both values if two			
	tubes are used in the equipment)			
8.	Maximum Power of X-rav			
	Tube (kW)			
9.	CE /IEC certificate or country			
	of origin certificate or			
	equivalent mentioning model			
	name of applied equipment			
10.	Radiation leakage at 10 cm			
	from any accessible surface of			
	the equipment			
	Permissible limit: 1 µSv/hr.			
11.	For Portable Scanner: Value of			
	dose per scan at 30 m distance			
	in front of portable scanner			
	without placing any object and			
	imager			
10	Permissible limit: 5 µSv/ scan			
12.	Type of detector			
13.	Size of detector			
14.	Number of detectors			
15.	Type of shielding material			

16.	Thickness of shielding material		
17.	**Whether operating modes are		For more
	only selectable by the operator		details
	(pre-set kV and mA) or any kV		please
	and mA can be set/selected by		check
	the operator		Note:2
18.	Availability of other safety feature	res in the unit	
	a. details of safety interlocks		
	b. details of emergency stops		
	c. details of X-ray warning		
	indicators		
	d. details of X-ray caution		
	symbol		
	e. details of key controlled		
	operation		
19.	Any Special features available		
	in the unit/any other details		

#### Note:

- Kindly furnish the above information/technical data with the application for Equipment NOC/ Type Approval. Wherever it is not applicable 'NA' may please be mentioned. \*Mention specification instead of mentioning refer the attached document(s) or manual(s). CE/equivalent certificate and test reports need to be signed. All the attachments with regard to e-LORA application are not mandatory and kindly do not submit the same document multiple times.
- 2. If the operating parameters can be changed by the operator, then please mention, in the application, the highest kV and mA that can be set by the operator. If the operator cannot change the operating parameters, then please mention the maximum preset operating kV and maximum preset operating mA in the application.
- 3. If NOC or Type Approval is already obtained with similar model, please attach Technical Specifications Comparison Sheet available in Help menu of eLORA system.

Date: Place: Signature: Name of Licensee: