



Board of Radiation & Isotope Technology (BRIT)
(Industrial Gamma Radiography Exposure Device)

Contents

Introduction	3
• Equipment with Source.....	4
1. Customer Login.....	4
2. Profile.....	5
2.1 My Profile	5
2.2 Regulatory Certificate (Equipment with Source-New Camera)	5
2.3 Regulatory Certificate (Source Replacement - Old Camera)	9
3. Once NOC Verify by the BRIT Sales, Customer will receive the mail	12
4. Customer will place order for Source Replacement or New Camera	12
4.1 New Order	12
5. Order Approval by BRIT Sales.....	17
6. Inspection completed by BRIT.....	17
6.1 Customer will receive the mail for sending their camera (Source Replacement) to BRIT.	17
6.2 If Inspection Failed, then the invoice will be generated for the inspection charges and Customer will be intimated for returning the camera from BRIT.	17
7. Before Source Uploading customer should pay the 40% advance to proceed further.	18
8. Make Payment by Customer Login.....	18
9. Source Loading started by BRIT	20
10. Before dispatching 100% payment required then and then only product will be dispatch.	20
11. Once Payment is received the Order will be Dispatched from BRIT.....	20

Introduction

The purpose of this document is to provide software requirement specifications for design and development of Website and Web Portal of Sales Management System, Radioisotope Inventory Management System and Quality Management System for Board of Radiation and Isotope Technology (BRIT).

Industrial Gamma Radiography Exposure Device (IGRED) is generally designed with lead or heavy density material for shielding. Here, an attempt is described on the use of heavy alloy, lead and distance as radiation shield for reducing the weight of the camera for a given source strength. The newly developed IGRED is called ROLI-3 which has maximum capacity of housing 20 Ci Ir-192.

- Equipment with Source

1. Customer Login

Step 1: Enter valid Username and Password.

Step 2: Enter Captcha.

Step 3: Click on Sign in Button. (Refer Fig.1)

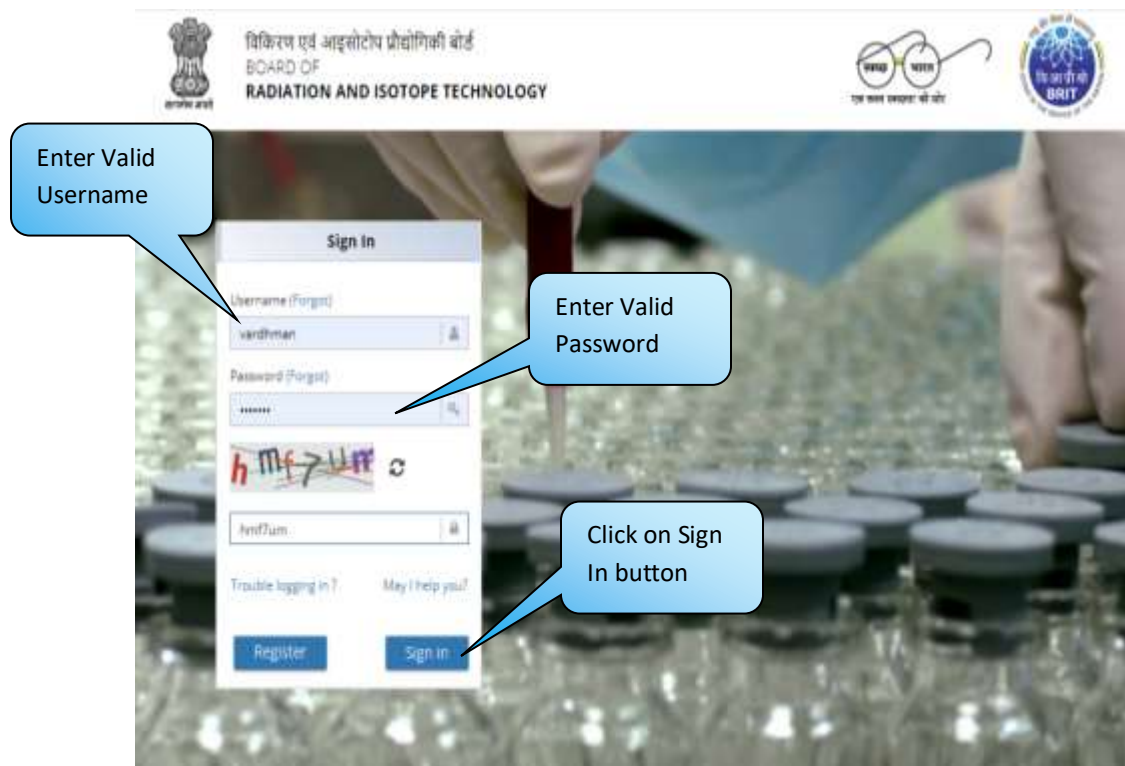


Fig. 1

2. Profile

2.1 My Profile

2.2 Regulatory Certificate (Equipment with Source-New Camera)

Step 1: Go to Profile.

Step 2: Go to Regulatory Certificate.

Step 3: Select Product Category from the dropdown.

Step 4: Select NOC Type as Equipment with source. (Refer Fig.2)

The screenshot displays the 'Upload New NOC' form. The sidebar on the left contains navigation links: Dashboard, Profile, My Profile, Regulatory Certificate, Product List, New Order, Fresh Standing Order, Orders, Make Payment, Quotation, and Multiple Registration. The main form area has a breadcrumb trail: Home > Profile > Regulatory Certificate. Below this, there are tabs for 'Uploaded', 'Edited', and 'Pending'. The form title is 'Upload New NOC'. It features a 'Select Product Category' dropdown menu with 'Industrial Gamma Radiography Expos.' selected. To the right, the 'NOC Type' section has two radio buttons: 'Equipment with source' (selected) and 'Source Replacement'. Below these are several input fields: 'Case File No.', 'Document No.', 'Specification', 'Activity', 'Select Unit' (with a dropdown showing 'µCi'), 'Product Name' (with a dropdown showing 'Please Choose:'), 'Shielding Material', 'Weight Of Shielding Material In KG', and 'Authorized India Supplier'.

Fig. 2

Multiple Registration

Specification *

Activity *

Select Unit *

UO

Product Name *

Please Choose:

Shielding Material *

Weight Of Shielding Material in KG *

Authorized India Supplier *

Select date of validity *

Issue date or Valid date

In Favour of *

Person Name & Address

Issuing Authority *

Enter Issuing Authority

Registered Address *

Enter Registered Address

Upload NOC (Only .jpg, .pdf, .png format are allowed)

Choose File No files chosen

Submit

Uploaded NOC

# Eligibility	Valid from date	Valid till date	NOC type		
1	ROU-2D	01-Aug-2019	28-Nov-2019	Equipment with source	Edit Remove

Fig. 3

Step 5: Enter Case File number.

Step 6: Enter Document No. and Specification in respective fields.

Step 7: Enter Activity and Select Unit from Dropdown.

Step 8: Select Product name from the Dropdown.

Step 9: Enter shielding material.

Step 10: Enter weight of Shielding Material in KG.

Step 11: Fill all the mandatory details as shown in below given screenshots. **(Refer Fig.4)**

Home > Profile > Regulatory Certificate

Uploaded / Edited / Pending NOC Verification

Upload New NOC

Select Product Category ^{*} Industrial Gamma Radiography Expos

NOC Type ^{*} Equipment with source Source Replacement

Case File No. ^{*} 121

Document No. ^{*} DOC/34/200

Specification ^{*} Radiography camera

Activity ^{*} 5000

Select Unit ^{*} G

Product Name ^{*} ROLI 2/ROLI-2D/ROLI-2; Iridium (Ir-192) based Radiog

Shielding Material ^{*} Wooden

Weight Of Shielding Material In KG ^{*} 1

Authorized India Supplier ^{*} ABC Industrial Supplier

Select date of validity ^{*}

In favour of ^{*}

Fig. 4

Step 12: Click on Submit button.

Step 13: After clicking on Submit button, it will show the message that “Regulatory Certificated Uploaded successfully”. (Refer Fig.5,6)

Multiple Registration

Specification*
Radiography camera

Activity*
5000

Select Unit*
C

Product Name*
ROLI 2/ROLI-2D/ROLI-2; Iridium (Ir-192) based Radiog

Shielding Material*
Wooden

Weight Of Shielding Material In KG*
1

Authorized India Supplier*
ABC Industrial Supplier

Select date of validity*
01-Aug-2019 to 31-Oct-2019

In Favour of*
Sandy

Issuing Authority*
AERB

Registered Address*
Mumbai

Upload NOC *(Only jpg, pdf, png format are allowed)
Choose File NOCs...pdf

Submit

Uploaded NOC

#	Eligibility	Valid from date	Valid till date	NOC type		
1	ROLI-2D	01-Aug-2019	28-Nov-2019	Equipment with source	Edit	Remove

Click on Submit button

Fig. 5

ROLI 2/ROLI-2D/ROLI-2; Iridium (Ir-192) based Radiog

Wooden

Weight Of Shielding Material In KG*
1

Select date of validity*
01-Aug-2019 to 28-Dec-2019

In Favour of*
Sandy

Issuing Authority*
AERB

Registered Address*
Mumbai

Upload NOC *(Only jpg, pdf, png format are allowed)
Choose File NOCs...pdf

Submit

Uploaded NOC

#	Eligibility	Valid from date	Valid till date	NOC type		
1	ROLI-2D	01-Aug-2019	28-Nov-2019	Equipment with source	Edit	Remove
2	ROLI-2D	01-Aug-2019	31-Dec-2019	Equipment with source	Edit	Remove

Go to page: 1 Show rows: 20 1-2 of 2

Success
Regulatory Certificate uploaded successfully.

Fig. 6

2.3 Regulatory Certificate (Source Replacement - Old Camera)

Step 1: Select Product Category and NOC Type Source Replacement.

Step 2: Enter the Case File No. and Document No.

Step 3: Enter Specification and Activity.

Step 4: Select unit from dropdown. (Refer Fig.7)

The screenshot shows a web application interface for 'Regulatory Certificate' under the 'Profile' section. The form is titled 'Upload New NOC' and is for 'Source Replacement'. The 'Select Product Category' dropdown is set to 'Industrial Gamma Radiography Expos'. The 'NOC Type' radio buttons are 'Equipment with source' (unselected) and 'Source Replacement' (selected). The 'Case File No.' field contains '45' and the 'Document No.' field contains 'DCC44'. The 'Specification' field contains 'CDR-1' and the 'Activity' field contains '5000'. The 'Select Unit' dropdown is set to '0'. The 'Product Name' dropdown is set to 'CDR-1/CDR-SR:Decayed source disposal and new souro...'. The 'Device / Model Name' field contains 'CDR-1'. The 'Device Sr No.' field contains '123' and the 'Authorized India Supplier' field contains 'ABC Supplier'. The 'Manufacturer/Supplier Of IGRED If Imported' and 'Country Of Manufacturer/Supplier' fields are empty. The user's name 'Rajendra Janbandhu' is visible in the top right corner. Callouts point to the 'Select Product Category', 'Enter Case File No.', 'Enter specification', 'Select NOC Type', 'Enter Document No.', 'Select Unit', and 'Enter Activity' fields.

Fig. 7

Step 5: Choose product from the list.

Step 6: Enter the Device/model Name, Device Sr. No.

Step 7: Enter Authorized India Supplier and Manufacturer/Supplier of IGRED if Imported.

Step 8: Enter Country of Manufacturer/Supplier and Date of Validity.

Step 9: Enter Person name/Address In favour of field.

Step 10: Enter name of Issuing Authority and Registered Address.

Step 11: Upload NOC file and then click on Submit button. (Refer Fig.16)

The image shows a web form with the following fields and callouts:

- Specification:** COR-1
- Product Name:** COR-1/COR-SR:Decayed source disposal and new souro
- Device Sr No.:** 123
- Select date of validity:** 04-Jul-2019 to 26-Mar-2020
- Issuing Authority:** AERE
- Activity:** 3000
- Device / Model Name:** COR-1
- Authorized India Supplier:** ABC Supplier
- Country Of Manufacturer/Supplier:** China
- In Favour of:** Sanyo
- Registered Address:** Mumbai
- Submit button:** Submit

Callout boxes provide instructions for each field:

- Select Product Name
- Enter Device Sr No.
- Enter Date of validity
- Enter Issuing Authority Name
- Enter Device/Model Name
- Enter Authorized India supplier
- Enter Registered
- Click on Submit button

Fig. 8

success
Regulatory Certificate uploaded successfully.

Product Name*
COR-1

Device / Model Name
COR-1

Device Sr No.*
123

Authorized India Supplier*
ABC Supplier

Manufacturer/Supplier Of IGRSD if Imported*
China

Country Of Manufacturer/Supplier*
China

Select date of validity*
04-Jul-2019 to 25-Mar-2020

In Favour of*
Sandy

Issuing Authority*
AERB

Registered Address*
Mumbai

Upload NOC (Only jpg, pdf, png format are allowed)
Choose File | NOCP_.pdf

Submit

Uploaded NOC

Fig. 9

3. Once NOC Verify by the BRIT Sales, Customer will receive the mail

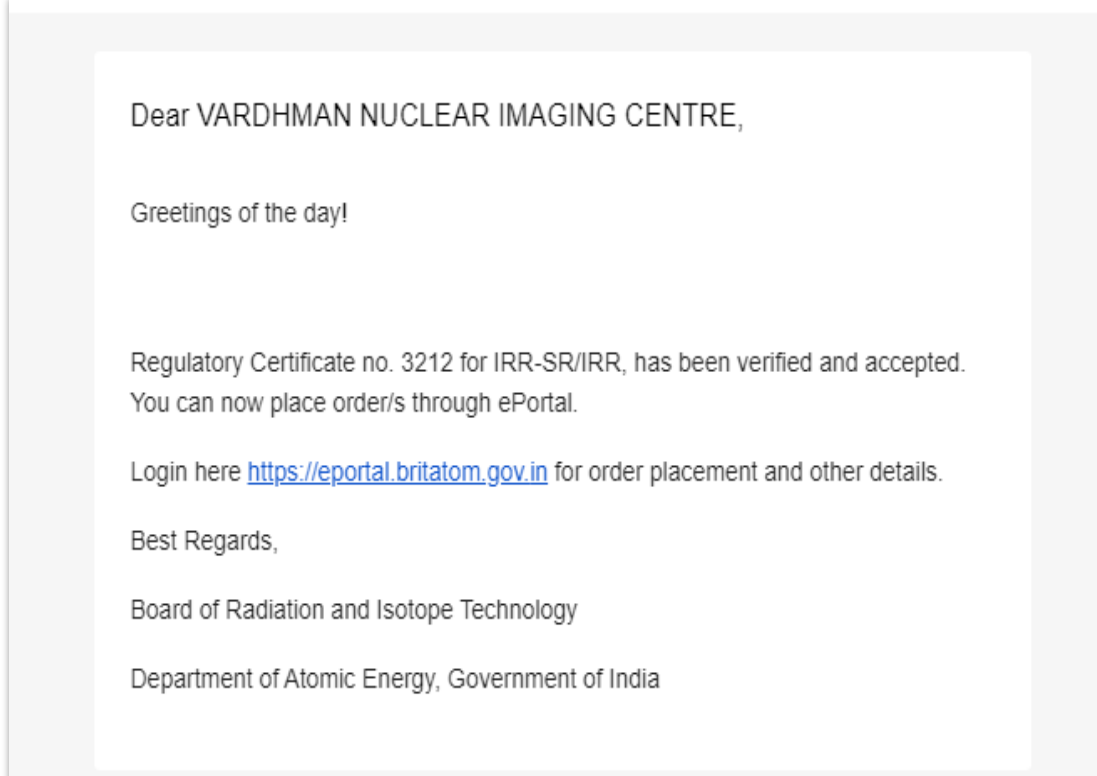


Fig.10

4. Customer will place order for Source Replacement or New Camera

4.1 New Order

Step 1: Go to New Order.

Step 2: Select Category from Dropdown.

Step 3: Select Product and Production Center.

Step 4: Click on **Add order** button.

Step 5: Select Document No. and Unit from dropdown.

Step 6: Enter quantity, then the price will automatically display in the textbox.

Step 7: Select Supply Mode form the dropdown.

Step 8: User must select the from center and the Destination Brit Center from the dropdown.

Step 9: Click on **Save Order** button. (Refer Fig.11,12)

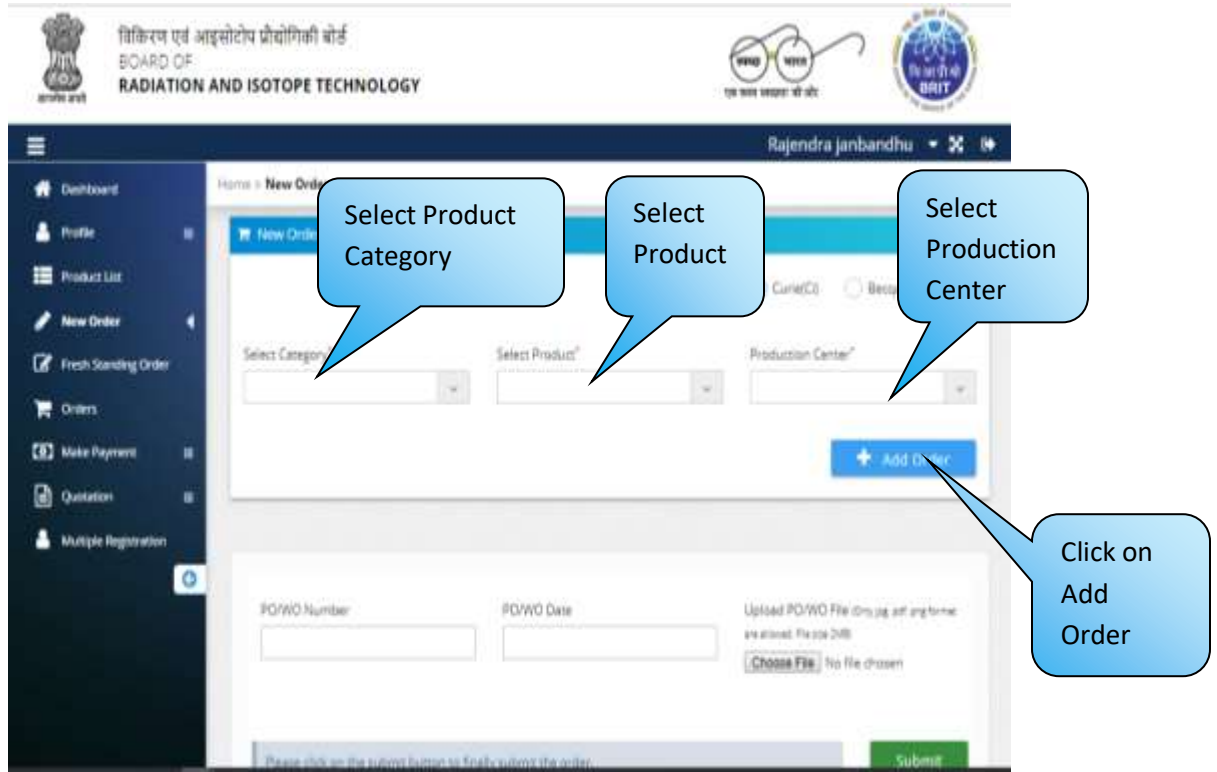


Fig. 11

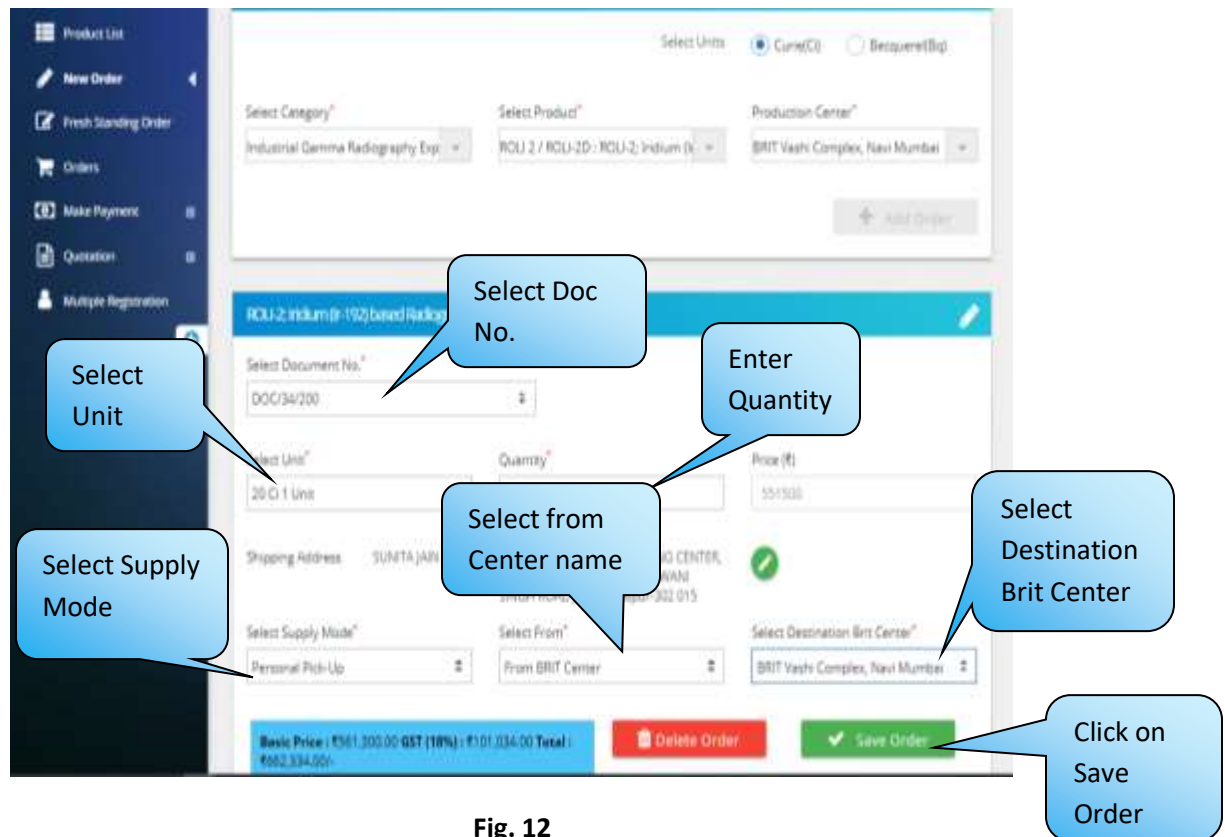


Fig. 12

Step 10: Enter PO/WO number and PO/WO Date.

Step 11: Then choose file and click on **Submit** button. (Refer Fig.13)

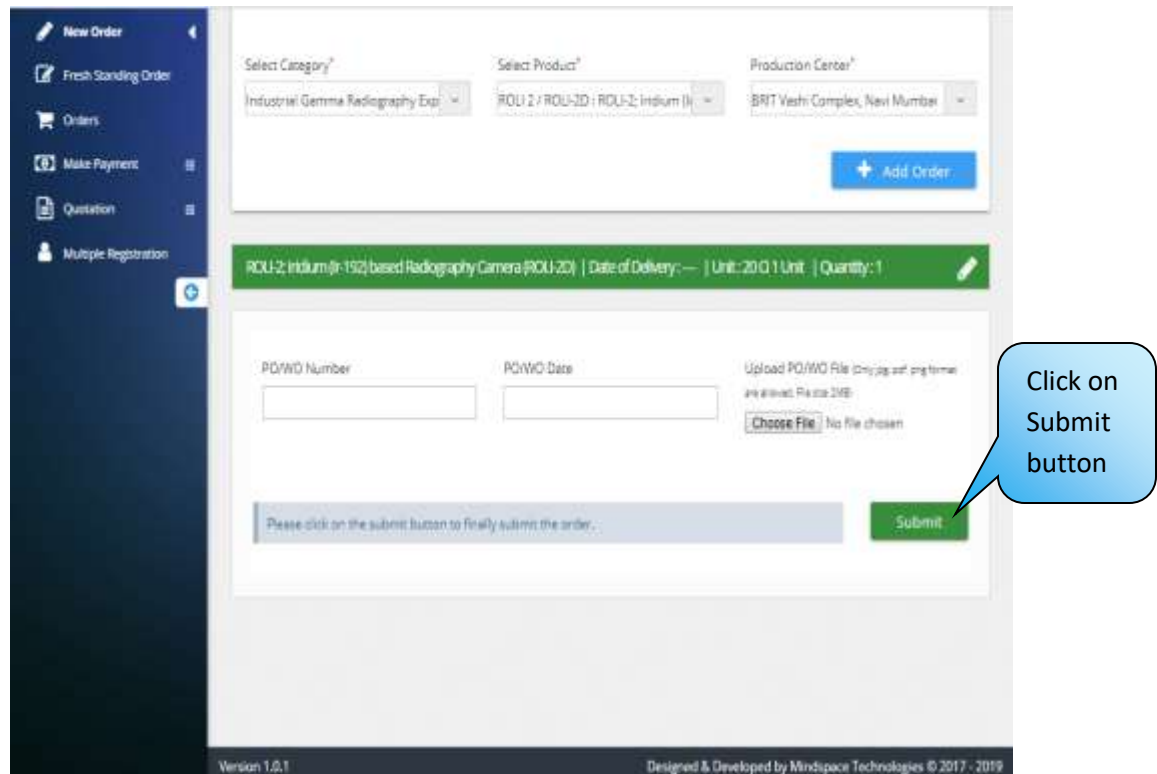


Fig. 13

Then User can see the popup window to confirm the order.

Step 12: Click on **Confirm** button. It will show the message that “Your order is placed successfully”.

(Refer Fig.14,15)

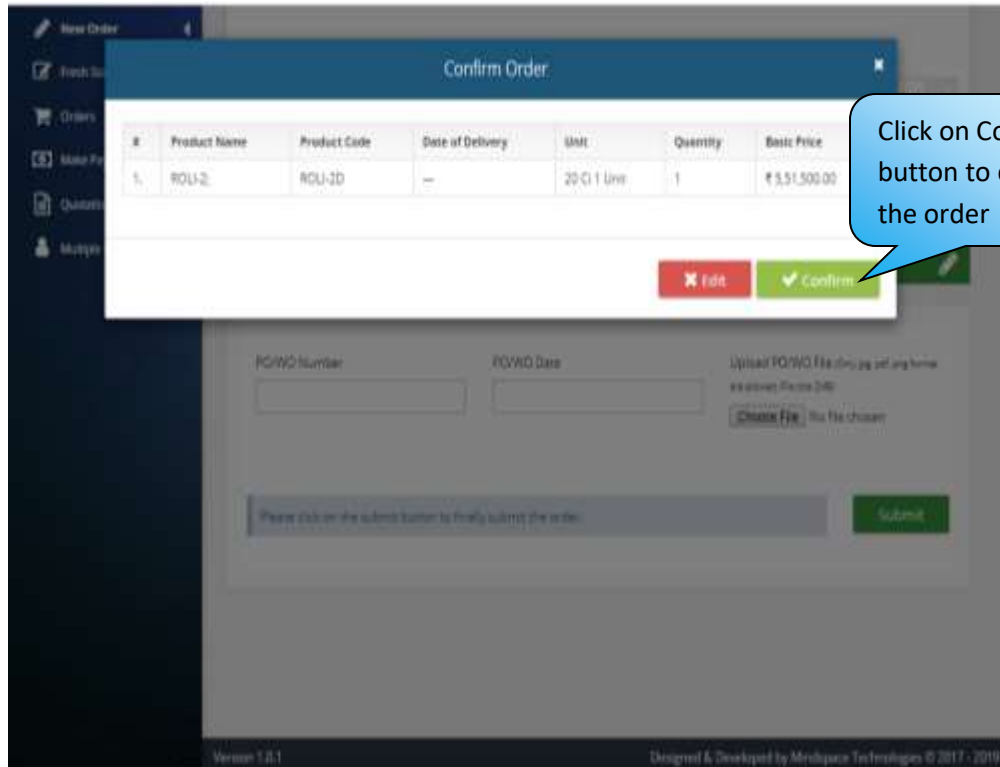


Fig. 14

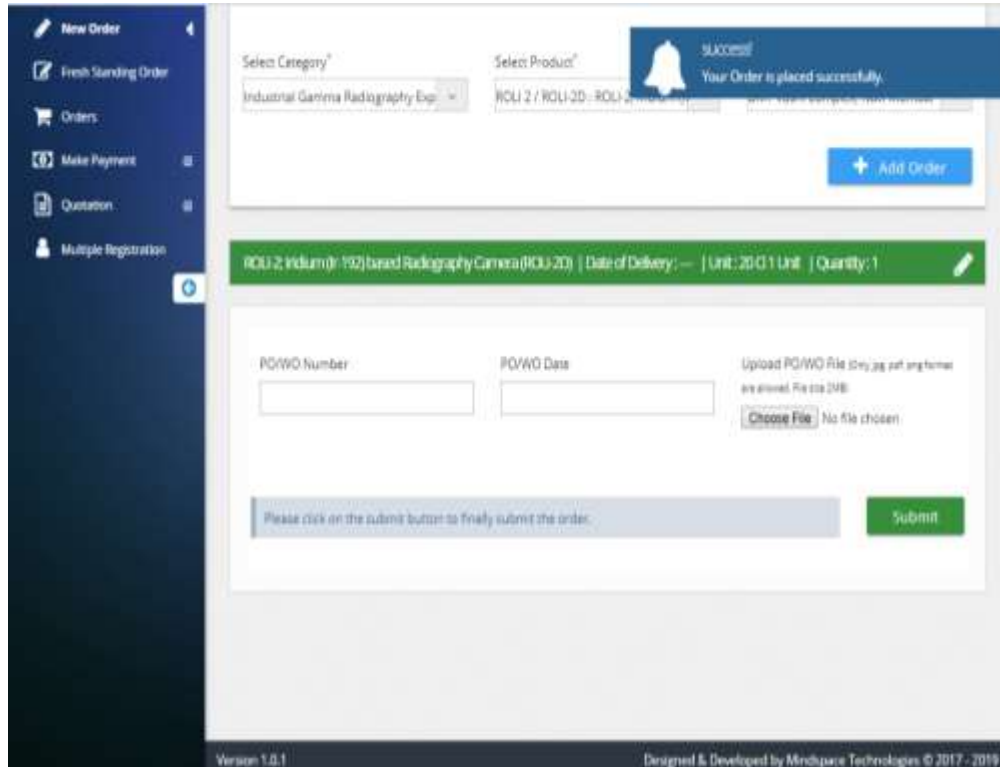


Fig. 15

5. Order Approval by BRIT Sales

6. Inspection completed by BRIT

6.1 Customer will receive the mail for sending their camera (Source Replacement) to BRIT.

6.2 If Inspection Failed, then the invoice will be generated for the inspection charges and Customer will be intimated for returning the camera from BRIT.

Dear VARDHMAN NUCLEAR IMAGING CENTRE,

Greetings of the day!

We have received your order, please send camera, as applicable within ten (10) days and make part payment against the supply of camera and/ or source cost (excluding service and freight charge) for confirmation of order. In case of non-receipt of camera and part payment within specified period, your request will be treated as cancelled. Please send camera with inspection checklist duly endorsed by RSO. Remaining amount for the supply needs to be paid before fabrication of the Radiography source. The device/source will not be dispatched or handed over to you without full payment. In case of delayed payment, the decay of source is in your account for delayed period.

Login here <https://eportal.britatom.gov.in> for more details.

Best Regards,

Board of Radiation and Isotope Technology

Department of Atomic Energy, Government of India

Fig.19

7. Before Source Uploading customer should pay the 40% advance to proceed further.

8. Make Payment by Customer Login

Step 1: Login with valid Username and Password.

Step 2: Go to Make Payment->Pay Online

Step 3: Enter Amount to pay for the selected order ID.

Step 4: Click on Confirm Button.

Step 5: Click on Proceed to pay button then you will get the popup message to confirming the amount to pay.

Step 6: Select the bank to pay amount. After that you can see the message that “payment of Order ID 1904794 is done successfully” (Refer Fig.16,17,18)

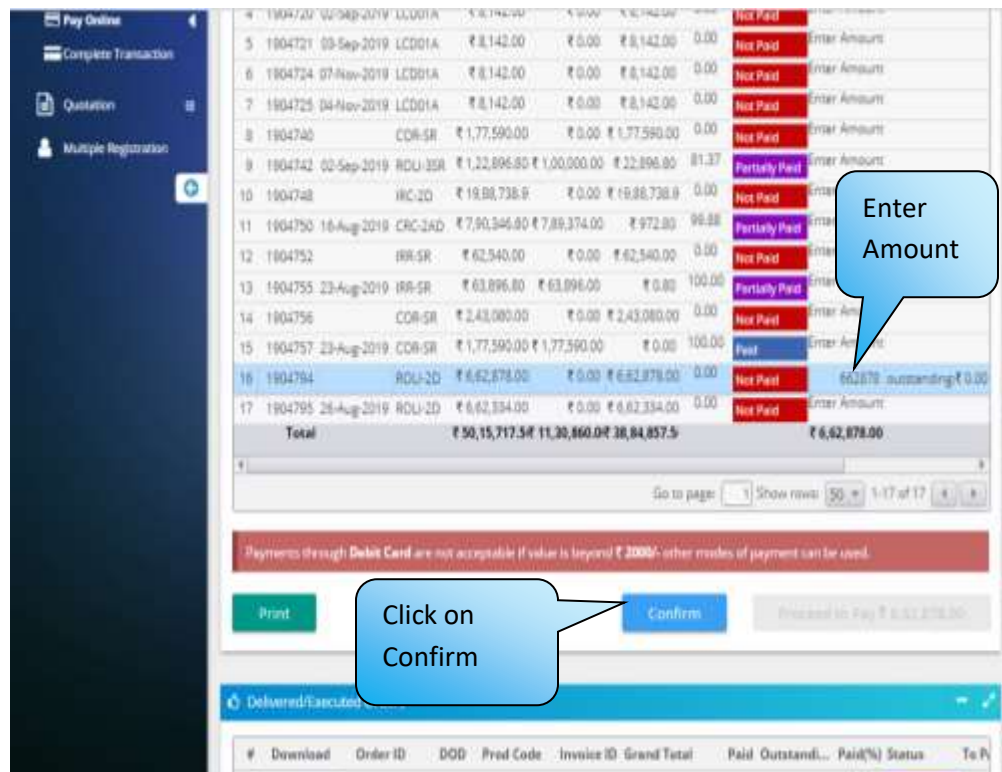


Fig. 16

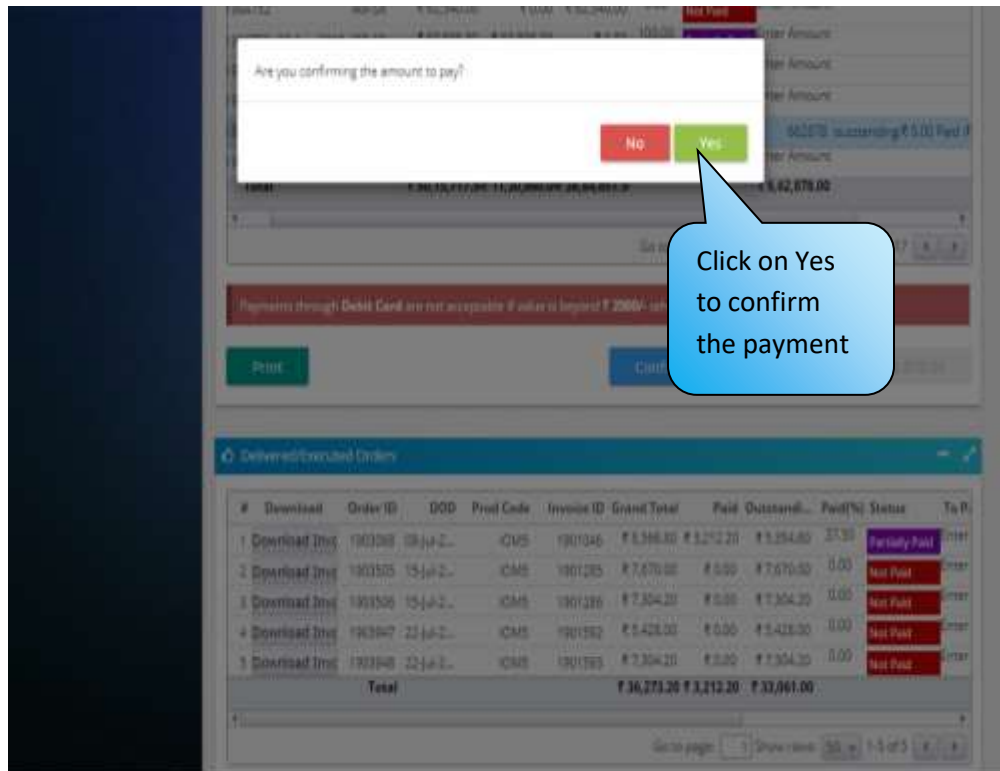


Fig. 17

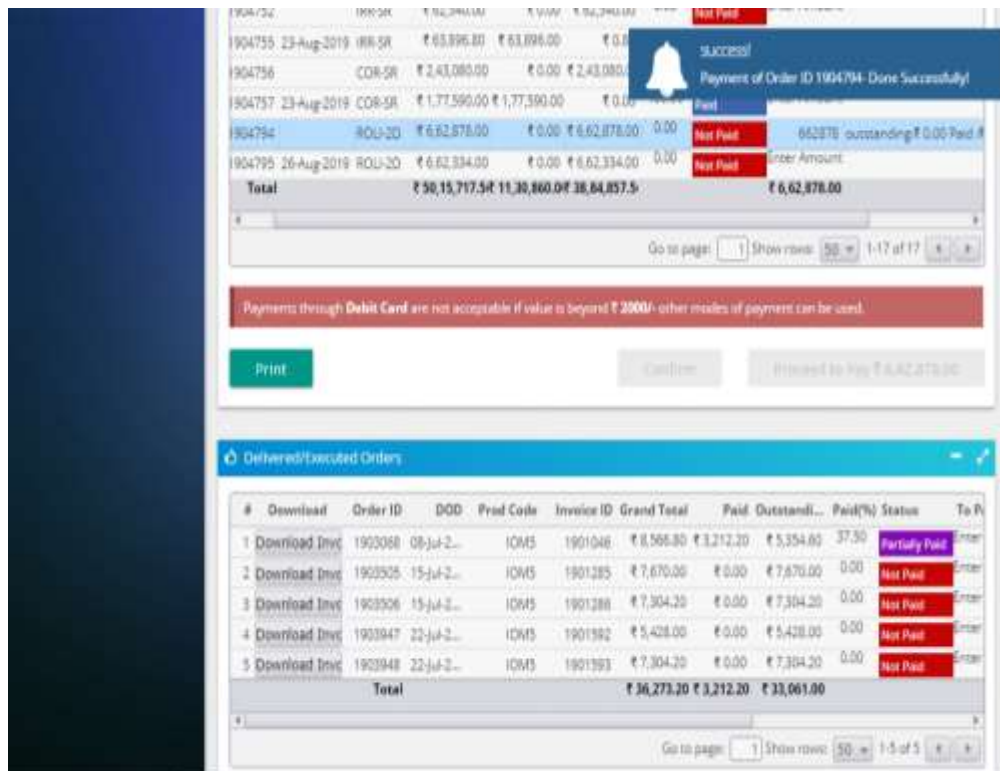


Fig. 18

9. Source Loading started by BRIT

10. Before dispatching 100% payment required then and then only product will be dispatch.

11. Once Payment is received the Order will be Dispatched from BRIT.