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Impact Practice
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Impact Assessment Report

Providing Medical Equipment to Dr. Bhimrao Ambedkar Memorial Hospital, Raipur, Chhattisgarh

Project code - P0700

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Chapter 1 **Programme Overview and CSR Initiatives of HDFC Bank**

1.1 HDFC Bank's CSR Initiatives

HDFC Bank's Corporate Social Responsibility (CSR) initiative, "Parivartan[1]" is committed to driving sustainable and holistic development throughout India. Operating across all states and union territories, Parivartan focuses on creating sustainable livelihoods for marginalised communities, with a particular emphasis on empowering women.

The initiative addresses critical areas such as rural development, education, skill enhancement, healthcare, financial literacy, and environmental sustainability.

By aligning its efforts with the United Nations Sustainable Development Goals (SDGs) and India's development priorities, Parivartan aims to foster self-sufficiency and social integration among underserved populations.

Through these multifaceted interventions, HDFC Bank strives to effect positive change and contribute to the nation's progress.

Parivartan's efforts are concentrated in six key areas:

- Rural Developmet
- Education Promotion
- Skill development and livelihood Enhancement
- Financial Literacy and Inclusion
- Envoirnmental Sustainability
- Healthcare and Hygiene

[1] https://v.hdfcbank.com/csr/index.html

Rural Development	•Through the Holistic Rural Development Programme (HRDP), Parivartan enhances natural resources and promotes their optimal use for community economic development.
Education Promotion	•Aligned with the Sarva Shiksha Abhiyan, Parivartan aims to improve education quality by training teachers, offering scholarships, and upgrading school infrastructure.
Skill Development and Livelihood Enhancement	•Parivartan provides vocational training to enhance employability and create sustainable livelihoods.
Financial Literacy and Inclusion	•Recognising the importance of financial awareness, Parivartan conducts literacy camps and workshops to educate individuals on banking, savings, and financial planning.
Healthcare and Hygiene	•The initiative addresses healthcare needs by organising health camps, mobile clinics, and sanitation projects.
Environmental Sustainability	•Parivartan undertakes environmental initiatives such as reforestation, clean energy projects, and waste management to promote sustainability and reduce the carbon footprint.

HDFC Bank Parivartan, in collaboration with AROH Foundation as the implementation partner, have provided the Egg-nest Scatter Medical Radiation Protection equipment to the Dr. Bhimrao Ambedkar Memorial Hospital, Raipur, Chhattisgarh. The project goal was to enhance radiation safety and minimise the potential health risks associated with ionising radiation exposure during medical procedures for the patients and Catheterisation lab staff in the Cardiology department.

1.2 Alignment with CSR Policy

Schedule VII (Section 135) of the Companies Act, 2013 specifies the list of the activities that can be included by the company in its CSR policy. The below-mentioned table shows the alignments of the intervention with the approved activities by the Ministry of Corporate Affairs.

Activity	Description	Alignment with the Project
Schedule VII (i)	Eradicating hunger, poverty and malnutrition, 2 [promoting health care including preventive health] and sanitation 3 [Including contribution to the Swatch Bharat Kosh set up by the Central Government for the promotion of sanitation] and making available safe drinking water;	Completely

Table 1 Alignment with CSR Policy

1.3 Alignment with BRSR Principle

The project's intervention also aligns with the ESG Sustainability Report of the corporate. Particularly, concerning the Business Responsibility & Sustainability Reporting Format (BRSR) shared by the Securities & Exchange Board of India (SEBI), the project aligns with the principle mentioned below:

ESG Principle	Alignment with the Project
8	Businesses should promote inclusive growth and equitable development.

Table 2 Alignment with ESG Principles

Image 1 Use of EggNest Radiation Protection Equipment During Procedure

1.4 Alignment with SDGs

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2016 as a universal call to action to end poverty, protect the planet, and ensure that by 2030, all people enjoy peace and prosperity.

	**3.4** By 2030, reduce by one-third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being **3.8** Achieve universal health coverage, including financial risk protection**,** access to quality essential healthcare services, and access to safe, effective, quality, and affordable essential medicines and vaccines for all.	Completely
	**9.1** Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.	Completely
	**17.17** Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships	Completely

Table 3. Alignment with SDG's

Chapter 2

Design & Approach of the Impact Assessment

Chapter 2: Design Methodology and Approach

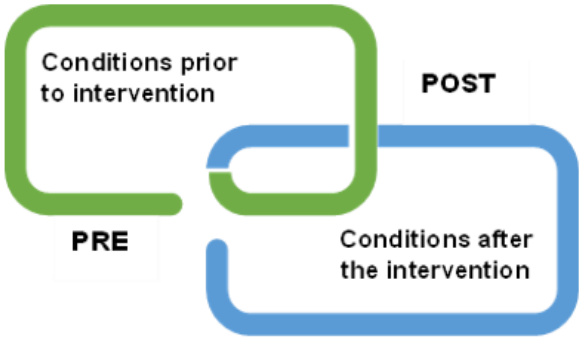
2.1 Objectives of the Study

- Evaluate projects effectiveness and efficacy
- To access the sustainability of the project outcomes
- To gauge the impact of the intervention projects
- To examine the extent of support provided by the project

2.2 Evaluation Framework and Indicators

The study's objectives and primary areas of investigation directed the development of the evaluation, with a central focus on learning. In this segment, CSRBOX outlines its strategy for crafting and implementing a rigorous, adaptable, and outcome-driven evaluation framework/design.

To measure the impact of the project, a pre-post-project evaluation approach was adopted for the study. This approach relied on the respondents' recollection ability. With this approach, beneficiaries were queried about their conditions before and after the project intervention. The disparity aided in comprehending the project's contribution to enhancing the intended beneficiary condition.



This approach, at best, could comment on the contribution of the project to improving living standards, though it might not be able to attribute the entire change to the project. Other external factors might also have played a role in bringing positive changes along with the project. Hence, contribution was assessed, but attribution might not have been entirely assigned to the project.

OECD - DAC Framework

Given the study's objectives to determine the project's effectiveness, efficiency, impact created and sustainability, the evaluation has used the **OECD-DAC Framework**. Using the criteria of the OECD-DAC framework, the evaluation has assessed HDFC Bank's contribution to the results while keeping in mind the multiplicity of factors that may be affecting the overall outcome. The social impact assessment hinges on the following pillars:

Relevance

Extent to which intervention objectives and design responds to beneficiary needs

Sustainability

Extent to which net benefits of the intervention are likely to continue

Coherence

Compatibility of the intervention with other interventions in a country, sector or institution

Effectiveness

Extent to which intervention objectives and design responds to beneficiary needs

Efficiency

Extent to which the intervention delivers, and how well resources were used

Impact

Extent to which intervention has generated significant positive or negative, intended or unintended, higher-level effects

The impact assessment has aligned itself with the impact parameters as per the criteria mentioned in the Terms of Reference. The following parameters are prioritised to satisfy the criteria of the Impact Assessment: **Relevance, Coherence, Effectiveness, Efficiency, Impact, and Sustainability.**

2.3 Sampling

A two-pronged approach to data collection and review was been chosen for the assessment. The secondary data was obtained through a literature review, while the primary data was collected from qualitative data collection methods. This methodology enabled us to gather

valuable insights related to the impact from a holistic, 360-degree perspective that includes all pertinent stakeholders necessary for the study.

1. Primary Source
   - Qualitative Data
   - IDI's
   - Kill's

2. Secondary Source
   - Project Implementation Documents
   - Reports

Stakeholder Mapping

In-depth discussions were held with the hospital staff and the maintenance team of EggNest Scatter Radiation Protection Equipment to acquire information about the equipment and its overall impact.

Qualitative Sampling			
Stakeholder	**Mode of Interaction**	**Mode of Data Collection**	**Total No. of Interactions**
Hospital Administrator	KII	On - Field	1
Head of the Cardiology Department	KII	On - Field	1
Cardiologist	KII	On-Field	2
Nurses	KII	On- Field	2
Technician	IDI	On- Field	1
Egg-nest Maintenance Team	IDI	Virtual	1
Implementation Agency	KII	Virtual	1
Vendor Agency	KII	On- Field	1
HDFC Bank CSR Team	KII	Virtual	1
Total No. of Interactions			**11**

Table 4. Stakeholder Mapping

2.4 Theory of Change

Activities	Outputs	Outcomes	Impact
Installation of EggNest Scatter Radiation Protection device in the Cardiology Department	• **36** Cath lab staff protected against the Ionising Radiation. • ***1802** Patients protected against ionising radiation. • **42** Procedures were accessible to the patients in a safe environment. • ***1802** Patients benefitted from cardiac procedures conducted in a safe environment. • **42** efficient procedures conducted due to reduced physical strain	• Increased adoption of EggNest Radiation Protection among Cath lab personnel. • Sustained reduction in occupational radiation exposure, minimising long-term health risks. • Improved radiation safety awareness among cardiology staff. • Reduction in scatter radiation exposure for interventional cardiologists and technicians. • Better compliance with hospital radiation safety protocols and regulatory standards. • Reduction in total radiation exposure during procedures. Faster recovery times as procedures become more efficient. • Reduced risk of radiation-related complications for vulnerable patients.	• A safer working environment for cardiologists and Cath lab staff through advanced, user-friendly radiation protection solutions. • Improved health and well-being, allowing the staff to work longer in their careers with fewer occupational health hazards and better work-life balance • Higher quality patient care, as healthier staff can focus better on patient safety and procedural efficiency. • Enhanced safety, lower radiation risks, and improved quality of care, leading to better health outcomes. • Improved Institutionalised radiation protection led to better staff retention, cost savings on occupational health issues, and improved hospital reputation.
Training conducted by the Manufacturer	• **1 Training session conducted** • **36 Cathlab Staff** members attended the training session		
Maintenance and Support Visits	**1 Yearly** Maintenance and Preventive maintenance support visits scheduled **1** timely preventive maintenance visit completed No Technical issues faced		

*-**Note:** The data marked with an (*) has been sourced from the hospital records provided for the fiscal year Jan 2024 – December 2024 post-installation of EggNest Scatter Radiation Protection Equipment.

Table 5. Theory of Change

Chapter 3

Impact Findings

Chapter 3 Impact Findings

HDFC Bank Ltd has provided the EggNest scatter radiation protection device to Dr. Bhimrao Ambedkar Memorial Hospital's catheterisation laboratory. This advanced system is designed to significantly reduce ionising radiation exposure for medical staff, including interventional cardiologists, nurses, and technicians, during fluoroscopy-guided procedures.

The integration of the EggNest scatter radiation protection system into Dr. Bhimrao Ambedkar Memorial Hospital's catheterisation laboratory addresses critical occupational health concerns associated with chronic ionising radiation exposure. Interventional cardiologists, nurses, and technicians are routinely exposed to scatter radiation during fluoroscopy-guided procedures, which has been linked to various health issues, including orthopaedic injuries from prolonged use of heavy protective gear, cataracts, skin lesions, and an increased risk of cancers.

By implementing the EggNest system, the hospital demonstrates a commitment to improving occupational safety, minimising health risks associated with radiation exposure, and promoting a safer working environment for its medical staff.

Features of EggNest Radiation Protection Equipment

- Seamless integration in existing Cathlab Infrastructure
- Enhanced Procedural Mobility and Accessibility
- Comprehensive shielding components
- Significant Radiation Reduction

Image 1. EggNest Scatter Radiation Protection Equipment

3.1 Relevance

The following section the relevance and necessity of the intervention. The examination of these factors helps in understanding the impact of the project.

3.1.1 Issues Faced Prior to Intervention

Interventional cardiologists and catheterisation laboratory staff are subject to significant health risks due to chronic exposure to ionising radiation during cardiac procedures. With approximately **15 procedures conducted daily,** each staff member at Dr. Bhimrao Ambedkar Memorial Hospital works around 6 -8 hours per day in the catheterisation lab, increasing their

cumulative exposure to ionising radiation. Although patients are exposed for shorter durations, they, too, are affected by ionising radiation during these procedures.

Radiation intensity diminishes with increased distance from the source, following the inverse square law: doubling the distance results in a fourfold reduction in exposure. In the Cath lab, personnel closest to the patient and X-ray source, such as interventional cardiologists, are at the highest risk. Nurses and technicians, positioned further away, experience lower exposure levels but remain susceptible to scatter radiation.

Qualitative interviews with interventional cardiologists and catheterisation lab staff have revealed health issues such as fatigue, weakness, headaches, and anxiety about developing cancer, attributed to prolonged radiation exposure. These professionals face higher radiation levels compared to their clinical counterparts, heightening concerns about potential long-term health effects. These findings highlight the urgent need for enhanced protective measures and protocols to safeguard the well-being of medical staff in interventional settings.

3.1.2 Prior Protection Mechanism against Radiation Protection

Standard protective gear, such as lead aprons, thyroid collars, and genital shield, are being used to protect interventional cardiologists, nurses, and technicians from ionising radiation at the catheterisation laboratory at Dr. Bhimrao Ambedkar Memorial Hospital. Nevertheless, because radiation exposure varies according to proximity to the radiation source, these precautions do not offer complete coverage.

The Cathlab also mentioned that long-term usage of heavy lead apron has caused shoulder and back pain, which not only impairs their physical well-being but hinders work efficiency. Their capacity to perform activities that demand agility and quick response times is impacted by the weight of the protective gear, which makes movement within the Cathlab difficult.

Radiation Protection Devices Utilised in Catheterisation Laboratory at Dr. Bhimrao Ambedkar Memorial Hospital, Raipur.

Image 3.Lead Apron

Image 2.Thyroid Collar

Image 4.Head cap and laser goggles

3.2 Effectiveness

3.2.1 Procedure-wise Patients Benefited

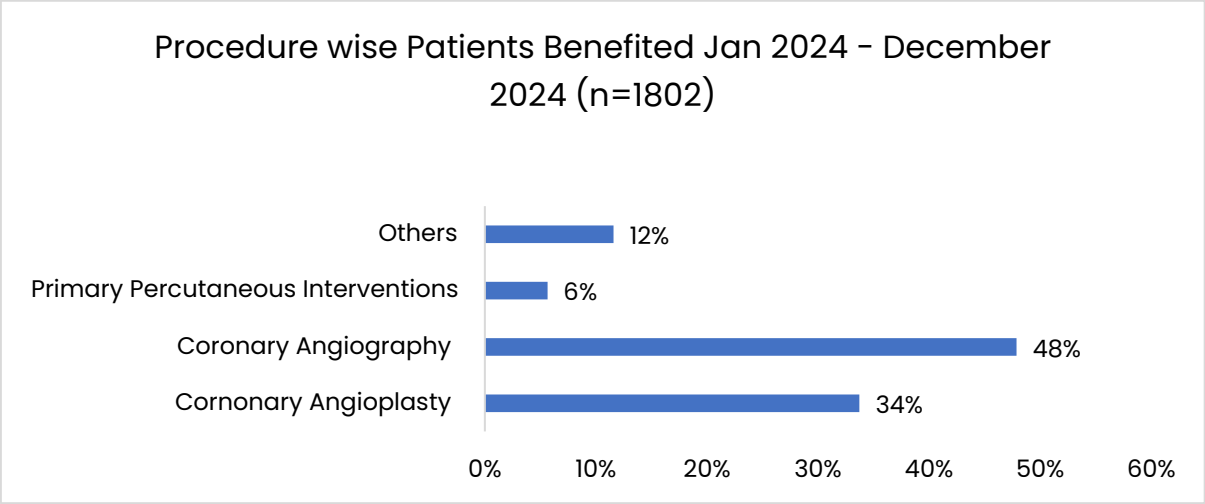


Figure 1. Procedure wise categorisation of Beneficiaries post Installation

From **January 2024 to December 2024**, a total of **1,802 procedures** were conducted in the **Cardiology Department's Cath lab** at **Dr. Bhimrao Ambedkar Memorial Hospital, Chhattisgarh**, following the installation of the **EggNest Radiation Protection Equipment**. The distribution of procedures shows that **Coronary Angiography** accounted for the highest proportion at **48%**, followed by **Coronary Angioplasty** at **34%**. **Primary Percutaneous Interventions (PCI)**, essential for emergency cardiac care, made up **6%**, while the remaining **12%** included other interventional treatments.

The implementation of radiation protection measures ensured that all patients undergoing these procedures were safeguarded from excessive radiation exposure. This highlights the successful utilisation of the Cath lab while maintaining high standards of patient safety and procedural efficiency.

3.2.2 Hospital Staff Benefitted from the Intervention

At Dr. Bhimrao Ambedkar Memorial Hospital, **36 staff members working in three shifts of 6-8 hours** each have been safeguarded against ionising radiation during various medical procedures through the implementation of the EggNest scatter radiation protection system.

The primary radiation beam strikes the patient during fluoroscopy or X-ray-guided treatments, causing secondary radiation (scatter) to bounce in various directions and creating a radiation risk to nearby medical personnel. The device is positioned over the patient's **lower body and pelvic region**, where a significant amount of **scatter radiation originates**.

By absorbing and deflecting this scatter radiation, the EggNest radiation protection equipment efficiently prevents exposure and drastically lowers the radiation dosages that healthcare personnel receive. The total radiation burden is much decreased, improving workplace safety even when Cathlab staff still continue to wear personal protective equipment such lead aprons, thyroid shields.

Qualitative interviews with the staff revealed a significant reduction in physical complaints that were commonly experienced prior to the installation of this protective system, thereby substantially enhancing their overall health and well-being.

3.3. Efficiency

3.3.1 Ease of Utilisation of the EggNest Radiation Protection Equipment

The EggNest Scatter Radiation Protection System is designed for ease of use, seamlessly integrating into existing catheterisation laboratory workflows. Its installation involves a carbon fiber platform embedded with internal radiation shielding, which securely attaches to the X-ray table. Once installed, the system remains in place, moving synchronously with the patient and imaging equipment, thereby maintaining procedural efficiency without necessitating adjustments for each case.

However, qualitative feedback from nursing staff has highlighted certain challenges associated with its use, particularly during specific imaging positions. Procedures requiring Left Anterior Oblique (LAO), Right Anterior Oblique (RAO) and cranial position, are challenging and movement of the equipment is heavy during interventions like angioplasty.

3.3.2 Training for Utilisation of the Equipment

Following the installation of the EggNest Scatter Radiation Protection System, comprehensive training sessions were conducted for the catheterisation laboratory staff. These sessions encompassed several key educational components:

- **Radiation Safety Education**: The Staff received in-depth information about ionising radiation, including factors influencing exposure levels and identification of areas within the lab where radiation is most concentrated.
- **Safety Protocols Without EggNest**: Guidance was provided on essential precautions and protective measures to minimise radiation exposure when the EggNest system is not in use.
- **EggNest System Training**: Detailed instructions were given on the purpose and strategic placement of the system's shields, accompanied by live demonstrations during actual procedures to illustrate optimal usage and ensure the equipment does not interfere with existing devices.
- **Maintenance and Usage Guidelines**: Staff were trained on proper maintenance practices to ensure the longevity and effectiveness of the EggNest system, including cleaning protocols and routine inspections.

3.3.3 Efficient Installation Process

The installation of the EggNest scatter radiation protection device at Dr. Bhimrao Ambedkar Memorial Hospital was completed efficiently, with approval and setup finalised within four months. The EggNest system is designed in such a way that, making it adaptable to various models of X-ray equipment used in catheterisation laboratories (Cath labs).

This seamless integration into existing Cathlab setups not only enhances safety by significantly reducing scatter radiation exposure for the medical team but also maintains procedural efficiency without disrupting workflow.

3.4 Coherence

Ensuring occupational safety in healthcare settings is a critical priority, particularly in high-exposure environments like catheterisation labs. The integration of the **EggNest Radiation Protection Equipment** in the cardiology department directly supports this objective by enhancing radiation shielding for healthcare professionals.

This chapter examines the coherence between the implementation of EggNest, national healthcare safety guidelines, and regulatory mandates. It explores how this intervention supports occupational health protocols, enhances compliance with radiation safety standards, and strengthens the overall healthcare ecosystem by prioritising the safety of frontline workers.

The EggNest device enhances radiation shielding for the Cathlab staff, ensuring compliance with the AERB's mandate to minimise occupational exposure to radiation.

National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases & Stroke (NPCDCS) – MoHFW

The use of the EggNest device in the **Cathlab's of cardiology department** aligns with NPCDCS goals by ensuring a safer

Occupational Health and Safety Guidelines for Healthcare Workers

The EggNest device enhances radiation shielding for the Cathlab staff, ensuring compliance with the AERB's mandate to minimise occupational exposure to radiation.

3.5 Impact

3.5.1 Improved Health and Efficiency of the Medical Staff

The installation of the EggNest Scatter Radiation Protection System at Dr. Bhimrao Ambedkar Memorial Hospital's catheterisation laboratory has led to notable improvements in both the health and efficiency of the medical staff.

Post-installation, staff have observed a marked decrease in symptoms such as fatigue, weakness, and headaches, which has positively influenced their personal lives and overall well-being. The seamless integration of the EggNest system into existing workflows has further ensured that these health benefits are achieved without disrupting procedural operations.

3.5.2 Improved Confidence of the Healthcare Staff in Conducting Procedures in the Cathlab for a Longer Duration

Qualitative interviews with healthcare staff at Dr. Bhimrao Ambedkar Memorial Hospital have indicated a notable improvement in their confidence while performing prolonged procedures in the Cathlab following the installation of the EggNest scatter radiation protection system. Staff members shared that, prior to the intervention, concerns about radiation exposure often led to fatigue, discomfort, and hesitation in conducting extended procedures. However, after the intervention, this hesitation has significantly reduced, allowing them to perform their duties with greater confidence.

Key insights from the interviews include:

- **Increased Sense of Security:** The radiation protection system has alleviated fears of long-term health risks, allowing staff to focus entirely on the procedures.
- **Greater Willingness to Engage in Lengthy Procedures:** The improved working conditions have encouraged staff to undertake complex and prolonged interventions with greater ease and confidence. Overall, the qualitative feedback underscores the positive impact of radiation protection measures, highlighting their role in enhancing both staff well-being and procedural efficiency in the Cathlab.

My complaints have comparatively reduced after the installation of the EggNest Scatter Radiation Protection Equipment. I feel much safer now while working in the Cathlab compared to before. Previously I couldn't go home directly due to the fear of exposing my family to radiation. Now it has been safer journey working in Cathlab.

Nurse, Cathlab

Image 6.Advanced Cardiac Institute, Dr. Bhimrao Ambedkar Memorial Hospital, Raipur

Image 5.Cathlab , Advanced Cardiac Institute, Dr. Bhimrao Ambedkar Memorial Hospital, Raipur

3.6 Sustainability

The sustainability of this project is dependent on the regular maintenance of the equipment to ensure its long-term usability.

3.6.1 Annual Maintenance Visits

Annual maintenance visits have been planned to ensure optimal performance of the EggNest system, including checks on radiation exposure levels. During the first successful visit, no technical issues were found. As part of proactive upkeep, a tear was identified in the side flaps of the EggNest scatter radiation protection device. To maintain its effectiveness, a focused maintenance visit will help repair or replace the component, ensuring continued safety and protection. Routine servicing and calibration ensure that the EggNest system functions at its highest efficiency, providing **maximum radiation protection** to healthcare providers.

3.6.2 Maintenance Mechanism

Along with the authorised Cathlab Technician at-Charge, the Cathlab In-Charge is responsible for managing the radiation protection system at the catheterisation laboratory at Dr. Bhimrao Ambedkar Memorial Hospital. Although the system needs minimal maintenance, the Eggnest service provider inspects it on an annual basis to make sure there are no technical issues. No problems have been reported thus far.

In the event of a technical issue or malfunction, the standard protocol involves immediate contact with the company's designated support personnel. Most issues are resolved remotely

via phone assistance. However, if necessary, a company representative visits the Cathlab to resolve the issue on-site along with the local dealer involved in maintaining wear and tear.

Additionally, standard operating procedures (SOPs) are in place for the handling and use of the equipment, and all Cathlab technicians and staff have been trained accordingly. Regarding maintenance and budget considerations, the equipment is typically covered under a warranty period, and any financial constraints related to upkeep are managed as part of the hospital's operational planning.

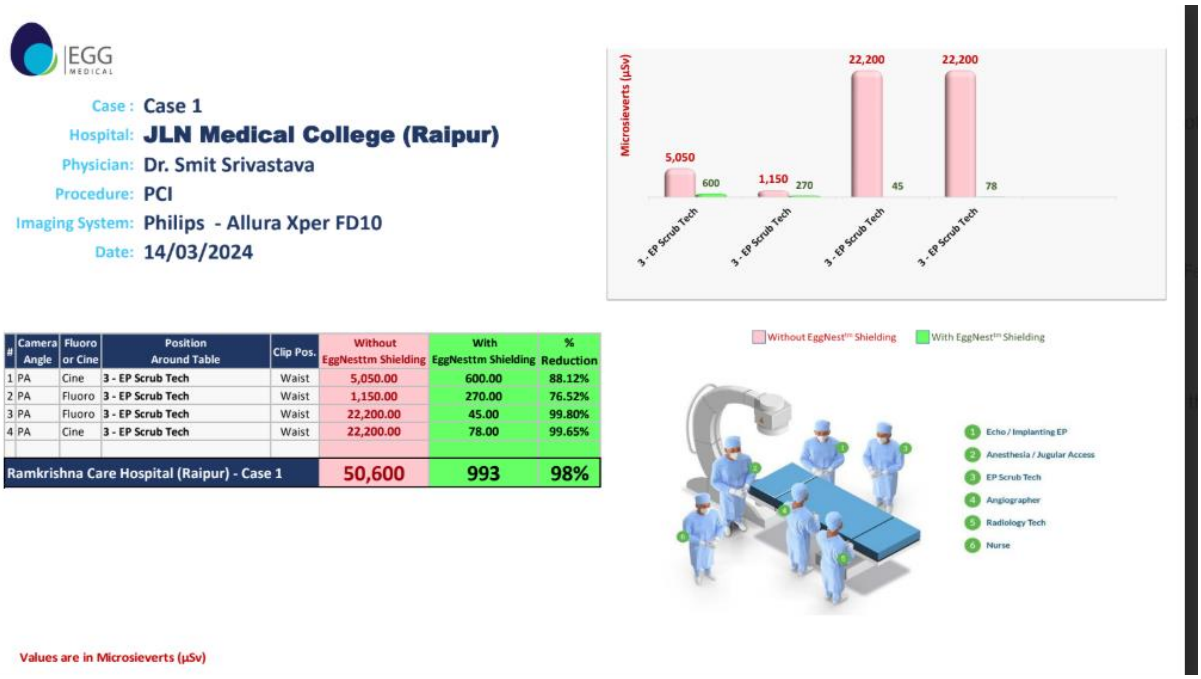
3.6.3 Regular Communication

Establishing a regular communication channel ensures that hospital staff can promptly report any issues or malfunctions to the EggNest company. Quick responses from the manufacturer or service team help address problems before they escalate, minimising downtime and ensuring continued protection for healthcare workers. Early detection of potential faults, wear, or degradation in radiation shielding materials can prevent more significant damage.

3.6.4 Radiation Exposure Monitoring and Access to Dosimeter

The hospital has provided a Thermoluminescent Dosimeter (TLD) badges to Cathlab employees to monitor radiation exposure in order to assure radiation safety in the catheterisation laboratory. The Atomic Energy Regulatory Board (AERB) lab collects these badges for evaluation every three months. Staff members who use TLD badges consistently improve radiation safety procedures and increase the accuracy of exposure monitoring.

To further improve radiation safety, installation of a real-time dosimeter, which would allow for constant exposure level monitoring. Instantaneous data from this sophisticated tracking system enables proactive safety measures and better protection for medical personnel.



#	Camera Angle	Fluoro or Cine	Position Around Table	Clip Pos.	Without EggNesttm Shielding	With EggNesttm Shielding	% Reduction
1	PA	Cine	3 - EP Scrub Tech	Waist	5,050.00	600.00	88.12%
2	PA	Fluoro	3 - EP Scrub Tech	Waist	1,150.00	270.00	76.52%
3	PA	Fluoro	3 - EP Scrub Tech	Waist	22,200.00	45.00	99.80%
4	PA	Cine	3 - EP Scrub Tech	Waist	22,200.00	78.00	99.65%
Ramkrishna Care Hospital (Raipur) - Case 1					50,600	993	98%

Image 7. 1st Maintenance Visit Checkup post installation

Physical Check (part by part)
JLN Medical College (Raipur)

Date	14/03/2024		
S. No.	**Part**	**Functioning properly**	**Physical Check**
1	Carbon Base Platform	Yes	All OK
2	Mattress topper	Yes	All OK
3	Right side Hanging Shield	Yes	All OK
4	Left side Hanging Shield	Yes	All OK
5	Head side Hanging Shield	Yes	All OK
6	Right Radial Access Board	Yes	All OK
7	Left Radial Access Board	Yes	All OK
8	Head Box Assembly Shield	Yes	All OK
9	Femoral Workbench	Yes	All OK
10	Clear Spot Shield	Yes	All OK
11	Anaesthesia Drape Loop	Yes	All OK
12	Right Arm Gel Pad	Yes	All OK
13	Left Arm Gel Pad	Yes	All OK

Image 8. Physical Checkup Checklist for EggNest Scatter Radiation Protection Equipment

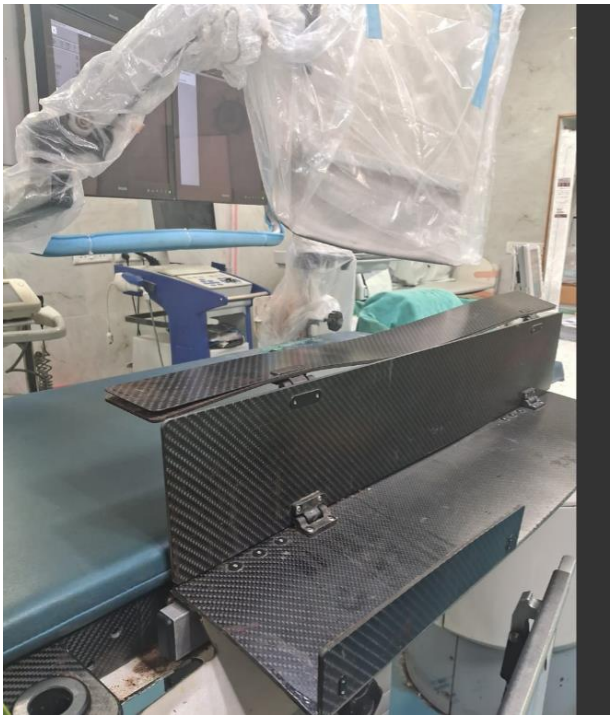


Image 9.Current condition of EggNest Scatter Radiation Protection Equipment

Image 10.Eggnest Scatter Radiation Protection Equipment

Observation Checklist for the EggNest Scatter Radiation Protection Equipment			
Observation Criteria	**Yes**	**No**	**Remarks**
Is the EggNest equipment being actively used during interventional procedures?	ü		
Do staff demonstrate proper positioning of the EggNest during procedures to optimise protection?	ü		
Are radiation dosimeter readings showing lower levels of exposure compared to before the equipment's installation?			Not Applicable
Do staff members report feeling safer with EggNest compared to using traditional lead aprons?	ü		
Has the use of EggNest reduced physical strain, fatigue, etc.?	ü		
Has the use of EggNest affected the efficiency of procedures?	ü		
Has the equipment allowed for smoother interactions and better teamwork among staff during procedures?		ü	The team coordination remains unchanged.
Are there any instances where the equipment interferes with the procedure or workflow?	ü		Sometimes
Are service records readily available and up to date?		ü	
Is there a log of all maintenance activities conducted on the equipment?		ü	

Table 6.Observation Checklist for EggNest Scatter Radiation Protection Equipment

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A 404-405, SWATI TRINITY,
APPLEWOODS TOWNSHIP, SP RING
ROAD, NEAR SHANTIPURA,
AHMEDABAD, GUJARAT 380058