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# Project Impact Assessment Report

## Strengthening of Pediatric ICU Set Up at IGLCH Hospital : Covid Wave 2 Support

Prepared For



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**BOSCH GLOBAL SOFTWARE TECHNOLOGIES PVT LTD**

Prepared By



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# ABBREVIATIONS

<b>BI PAP</b>	Bi-Level Positive Airway Pressure
<b>CMC</b>	Continuous Maintenance Contract
<b>IGICH</b>	Indira Gandhi Institute of Child Health
<b>NIMHANS</b>	National Institute of Mental Health and Neuro Sciences
<b>ICU</b>	Intensive Care Units
<b>BGSW/CSR</b>	Bosch Global Software Technologies Private Limited/ Corporate Social Responsibility
<b>SDGs</b>	Sustainable Development Goals

# EXECUTIVE SUMMARY

This report presents the results of an evaluation conducted for a project aimed at providing medical equipment to enhance the ICU set-up at IGICH to fight COVID-19 during the second wave of the pandemic. In the project, PPHF is the implementation partner, providing the technical knowledge and expertise in the domain of intervention, with the financial support provided by BGSW/CSR.

The evaluation focused on assessing the project's effectiveness, efficiency, and overall impact on healthcare facilities' ability to address the challenges posed by the pandemic. The findings demonstrate that the project had a profound impact and significantly contributed to improving healthcare services and managing medical cases. One notable outcome was the improvement in healthcare infrastructure in the ICU for children. By supporting ICUs with life-saving equipment, the project helped healthcare facilities strengthen their infrastructure and expand their capacity to treat patients. As a result, people in underserved areas, where healthcare systems were strained, gained increased access to quality healthcare services. The project also enhanced treatment capabilities by providing advanced medical instruments. This enabled healthcare providers to improve the effectiveness of treatments, leading to reduced mortality rates and better patient outcomes.

Furthermore, the project played a crucial role in strengthening infection prevention and control measures. The equipment, including ventilators, humidified high-flow nasal cannula system and disposable pediatric infant flow nasal cannula, BiPAP, monitors, and syringes, were provided to ensure preparedness to tackle children's health emergencies during the third wave of COVID-19. This initiative foresaw the risk for children, given the fact they were not fully protected under the vaccination programs.

This not only increased the efficiency of healthcare workers but also fostered community trust in the healthcare system's ability to respond to the pandemic in view of children's needs. Importantly, the project's impact extended beyond the immediate pandemic response. The medical equipment became permanent assets for the healthcare institutions, enabling them to continue providing better healthcare services even after the pandemic subsided. This resulted in long-term benefits for healthcare practitioners and the communities they serve.

The positive outcomes achieved through the support of medical equipment underscore the importance of targeted interventions during emergency situations. The findings of the evaluation emphasize the significance of ongoing investments in healthcare infrastructure in the ICUs of IGICH and resources and provide valuable insights for future projects.

The evaluation was conducted using a mixed methods research approach to evaluate the key activities involved in strengthening the ICUs at IGICH to understand the outcomes achieved through the initiative and their impact on the beneficiaries.

## Project Activities

Under this project, the pediatric ICU at IGICH was strengthened to enhance the treatment offered to children from marginalized communities who were admitted to ensure good health and well-being.

In the attempt to do so, medical equipment such as ventilators, humidified high-flow nasal cannula system and disposable pediatric infant flow nasal cannula, BiPAP, monitors, and syringes were provided.



### Project Year

2021



### NGO Partner

People To People Health Foundation



### Project Location

Bengaluru, Karnataka



### Project Budget

₹1.02 Cr.



### Project Expenditure

₹1.02 Cr.

## SDG Goal



## Research Methodology



### Application of Quantitative Techniques

The qualitative study was used to analyze divergent CSR activities with the structured tool of the interview schedule. It helps in revealing quantifiable objective outcomes.



### Application of Qualitative Techniques

The qualitative technique of interviews with key stakeholders supports the quantitative data and helps build qualitative narratives as evidence.



## Research Design

### Geography Covered (State)

Bangalore

### Stakeholders

Children from neighboring under-resourced communities, healthcare practitioners, NGO representatives

### Sample Technique

Purposive & Stratified Random Sampling

### Direct Beneficiary Covered

54

### Key Output:

**100**

Beds are available in PICU

**100**

CC Pump extension sets installed

**10**

Syringe pumps available in PICU

**5**

Ventilators are available

**8**

Monitors for observation setup in the PICU

**2**

Ambu Cuff Pressure Gauges available

**2**

Bi-PAP available

### Key Impacts:



The majority of the respondents for the evaluation conducted belonged to vulnerable groups, such as children.



Respondents suggested that the treatment cost is zero for the BPL card holders and they do not have to pay for any treatment-related expenses.



Stakeholders like healthcare practitioners narrated that the initiative effectively enhanced the services that were offered using the equipment.



All of the respondents were extremely satisfied with the service they received.



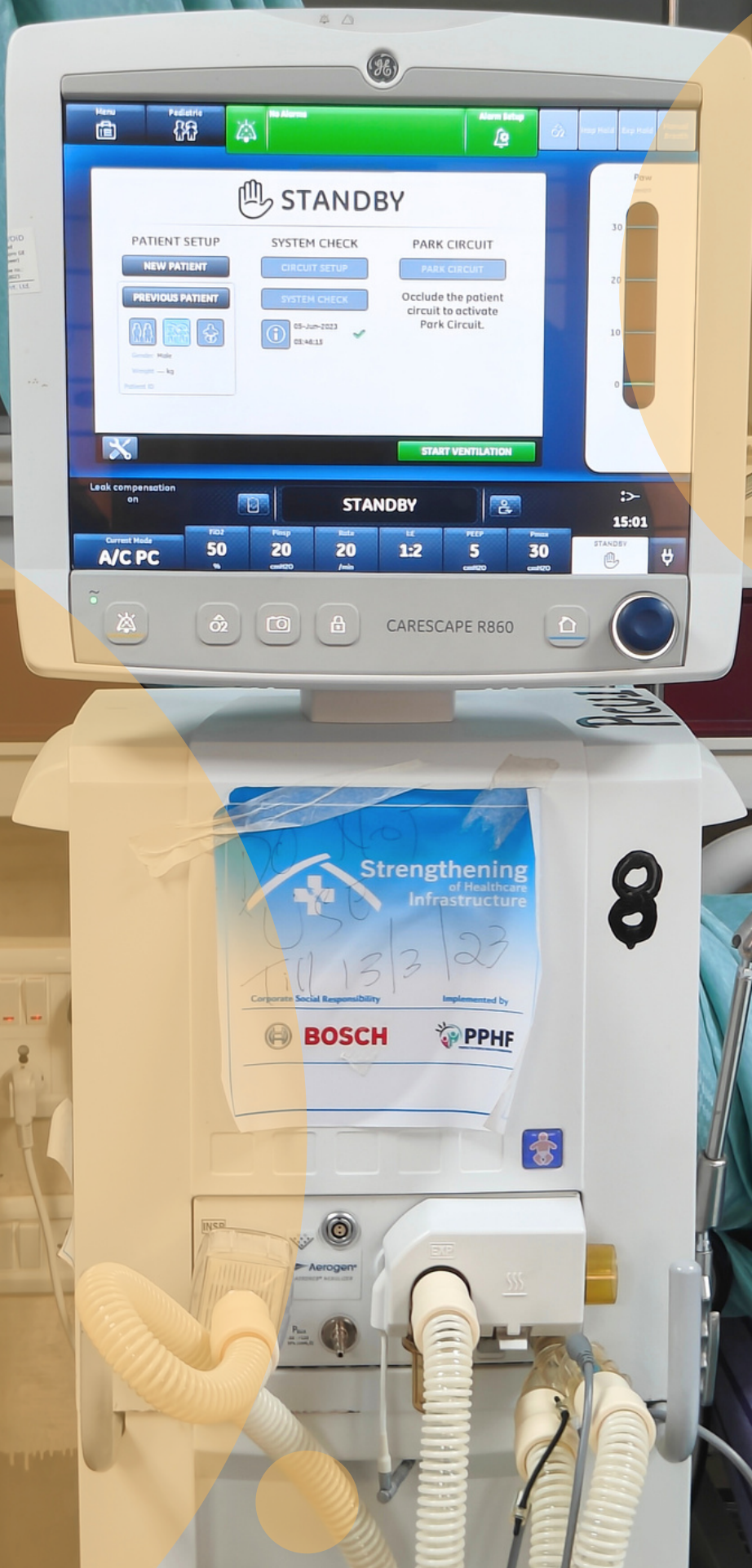
The training provided under the initiative was beneficial and enhanced the sustainability of the project.

**\*Note: The data for the Endline indicators was collected in the fiscal year 2022-2023.**

# CHAPTER 1: INTRODUCTION

The COVID-19 pandemic has brought to light the significant impact that inadequacies in health systems can have on various aspects of society, including health outcomes, economic development, public trust in governance, and social unity. While it remains crucial to implement measures for containing and mitigating the spread of the virus, it is equally important to focus on strengthening the capacity of health systems to respond rapidly and effectively to such crises. These challenges are especially pronounced for countries with limited resources and healthcare infrastructure. Strengthening health systems goes beyond vaccination campaigns. It involves investing in robust healthcare infrastructure, expanding healthcare workforce capacities, improving surveillance and monitoring systems, and enhancing community engagement and trust. By bolstering health systems' resilience and responsiveness to children's health risks, countries can better address not only the current pandemic but also future health crises.

The need of the hour was to focus on strengthening the health infrastructure in India to enhance the country's preparedness to tackle the second wave of the COVID-19 pandemic, particularly regarding the availability of equipment in intensive care units (ICUs). During the pandemic, the demand for ICU beds and life-saving equipment, such as ventilators, surged dramatically. Unfortunately, the existing healthcare infrastructure in India met with significant challenges in addressing this unprecedented demand. Since children were not secured fully under the vaccination program, they were more vulnerable. Many hospitals struggled to provide adequate ICU facilities, resulting in a strain on the healthcare system and compromising patient care. Investing in and improving the availability of ICU equipment is essential for several reasons. First, it allows the timely and effective treatment of severe COVID-19 cases, reducing the mortality rate and easing the burden on hospitals. Second, a well-equipped ICU infrastructure can provide comprehensive care for children with other critical illnesses, ensuring that they receive the necessary support and treatment.



GE Ventilator

## Project Background

A massive surge in COVID-19 cases put a tremendous strain on India's healthcare infrastructure, leading to a desperate need to address these gaps. The overwhelming infection rate during the second wave of the pandemic left hospitals without enough beds and medical oxygen and communities struggling to find adequate medical facilities, creating a dire situation. The impact on marginalized sections was particularly devastating, with heart-wrenching scenes of adults and youngsters pleading for their lives, leading to a need to focus on serving and protecting children in case of a third wave.

Taking the situation into consideration, Robert Bosch Engineering and Business Solutions Private Limited/Corporate Social Responsibility (BGSW/CSR) formulated a Proactive-Curative and Rehabilitative Approach to combat the second wave and help the healthcare infrastructure and communities recover.

There were predictions that the third wave of the pandemic could heavily affect children and involve a "super spreader". In anticipation of this, BGSW/CSR worked to enhance the pediatric care facilities and ensure the well-being of the young and vulnerable population.

Given this context, BGSW/CSR received a request from the Indira Gandhi Institute of Child Health (IGICH), located near NIMHANS and in the vicinity of the Bosch Office at Koramangala, to provide support to enhance their ICU setup. This upgrade was specifically aimed at treating children affected by COVID-19.

The objective of the project was to bolster the pediatric intensive care unit (PICU) at IGICH, with a focus on improving healthcare for children, particularly those from disadvantaged backgrounds, and ensuring their long-term well-being by restoring their health. This involved enhancing the infrastructure of the ICU at IGICH, including the installation and maintenance of critical equipment such as ventilators, humidified high-flow nasal cannulas, bi-level positive airway pressure (BiPAP), multipara monitors, syringe pumps, and digital display setup.

## Key activities undertaken under the initiative



**Inviting Quotation  
for the equipment**



**Finalizing vendor**



**Issuing Purchase  
Order**



**Delivery of  
Equipment**



**Installation and  
Training of  
Equipment to key  
staff**

Under the initiative, constituting the project activities, the following equipment were provided to support ICU setup at IGICH:

Sl.No.	Description of Medical Equipment	Units
1	GE: Carescape R860 Ventilator	5
2	HFNC (Humidified High-Flow Nasal Cannula System with Disposable Pediatric Infant High-Flow Nasal Cannula)	5
3	Bi-PAP	2
4	Monitor (Advance Multipara Monitor with EtCO2 and Pediatric BP Cuff)	4
5	Monitor (Advance Multipara Monitor with Pediatric BP Cuff)	4
6	Syringe Pump	10
	G30402M Alaris CC Pump Extension Set	100
7	Digital Display Setup (for real-time data at the hospital)	1
8	Ambu Cuff Pressure Gauge	2

## About NGO Partner

People to People Health Foundation (PPHF) is a renowned non-governmental organization based in New Delhi, India, committed to advancing public health and well-being. The foundation has made substantial contributions in various areas and has gained recognition for its impactful work.

The foundation's work encompasses a wide range of health issues prevalent in India. They focus on issues such as maternal and child health, infectious diseases, malnutrition, healthcare accessibility, and health education. By addressing these critical concerns, PPHF aims to improve the overall health outcomes and quality of life for individuals and communities.

In their efforts to improve maternal and child health, the foundation implements programs to enhance prenatal care, safe delivery practices, and postnatal care for women. To combat infectious diseases, the foundation actively participates in vaccination campaigns and raises awareness about diseases like tuberculosis, malaria, and HIV/AIDS. It is committed to ensuring healthcare accessibility, especially in underserved areas. Leveraging its expertise and acknowledging the distinct requirements of different regions, PPHF collaborates with key partners to create and implement tailored initiatives. Its programs incorporate cutting-edge, research-based interventions in three primary domains:

- Enhancing the competency of healthcare professionals and bolstering the capacity of local healthcare systems.
- Enhancing the availability and quality of healthcare services to ensure improved accessibility.
- Fostering the development and expansion of community support systems.

PPHF has emerged as a leading organization in India, dedicated to improving public health. Its comprehensive approach, diverse funding structure, and focus on key health issues demonstrate its commitment to creating positive and lasting change. Through its work, the foundation continues to make significant strides in enhancing health outcomes and ensuring the well-being of communities across the country.

## About the CSR Partner

BGSW is a subsidiary of the renowned German multinational engineering and technology company Bosch. With a focus on delivering innovative solutions and services in the areas of engineering, software, and business operations, BGSW has established itself as a prominent player in the Indian market.

BGSW recognizes the importance of CSR and actively engages in initiatives that positively impact society. The company's CSR efforts align with its core values of sustainability, integrity, and social responsibility. BGSW's CSR initiatives primarily revolve around education, healthcare, and environmental conservation.

In the healthcare sector, BGSW focuses on improving the well-being of marginalized communities. The company supports healthcare centers by providing medical equipment, conducting health camps, and organizing awareness campaigns on preventive healthcare practices. BGSW actively engages with local communities to understand their healthcare needs and tailors its initiatives accordingly.

BGSW's CSR activities extend beyond financial contributions, as the company actively seeks to build sustainable, long-term partnerships with NGOs, government agencies, and other stakeholders. BGSW aims to maximize the impact of its CSR initiatives and create meaningful change in society by collaborating with like-minded organizations. By leveraging its resources, expertise, and employee engagement, BGSW is making a significant difference in the lives of marginalized communities and contributing to a more sustainable future.



# CHAPTER 2: RESEARCH METHODOLOGY



BGSW commissioned SoulAce to conduct an impact assessment study to evaluate the immediate and enduring impacts of the program implemented under the BGSW/CSR: Rehabilitative Theme to combat the second Covid wave in the fiscal year 2021-22. The impact assessment study conducted on 6th June 2023.

A research methodology is crucial in social science because it provides a systematic and rigorous framework for studying social phenomena. It helps researchers determine the most effective techniques, collect relevant data, and interpret the results. The significance of research methodology in social research lies in its emphasis on ensuring reliability, validity, and ethical conduct.

Research methodology ensures the credibility and dependability of social science research. By employing appropriate study designs, sampling strategies, and data collection methods, researchers can enhance the reliability and validity of their findings. A robust research methodology helps reduce bias, control for extraneous variables, and ensure that the data collected accurately reflects the research objectives. It enables researchers to make sound judgments and support their claims about the social phenomenon under investigation. Therefore, a well-developed research methodology is essential for conducting meaningful research and overcoming potential obstacles.

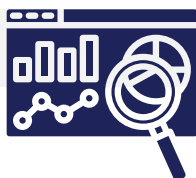
## Selection of Mixed Methods Research Approach

This impact study follows a mixed methods approach which involves using qualitative and quantitative data in a single research project, helping explore complex phenomena in detail.

Since an intervention includes both the quantitative and qualitative aspects of outcomes, mixed methods research is appropriate for this study as it allows both qualitative and quantitative viewpoints. Therefore, the combination of these two methods nullifies the other's weaknesses, deriving the best from diverse sources or styles.

Using a mixed methods approach, a comprehensive and insightful understanding of the impact of the project can be gained. Triangulations have been used for enhancing the evaluation of the given implementation in its respective context. A scientific approach was applied to collect data using structured interview schedules for collecting quantitative data and open-ended questionnaires to capture the nuanced realities of the impact. To substantiate the quantitative evidence, qualitative data from key stakeholders, such as healthcare practitioners, social workers, state project coordinators, among others, were collected.

## Research Design



- **Name of the project** : Strengthening of Pediatric ICU Set-Up at IGICH
- **Project Partner** : People To People Health Foundation
- **Research Design** : Descriptive Research Design
- **Sampling Technique** : Random sampling
- **Quantitative Sample Size** : 54 beneficiaries
- **Qualitative Outreach** : 10 In-depth interview of stakeholders (healthcare practitioners, Bio medical engineer, social workers, Program team member and FGD)



## Study Tools

**Primary data was collected using two types of questionnaires.**

### Structured Interview Schedules for Primary Beneficiaries:

Structured interview schedules were created to examine the project specifics related to each focus area. The surveys were designed in advance with pre-defined indicators to guide the data collection process.



### Questionnaire for Secondary Beneficiaries & Stakeholders:

To collect comprehensive data from different sample groups, semi-structured questionnaires were tailored for each specific category within the group. Stakeholders representing various focus areas were identified and engaged in the data collection process. Additionally, individual interviews were conducted with beneficiaries to gain in-depth insights and prepare detailed case studies.

## Ensuring Commitment to Research Ethics

This impact evaluation research was conducted keeping in mind the ethical consideration that the study be conducted in a responsible manner. Participants were fully informed about the nature of the research and their participation involved. They were given the opportunity to fully consent to participate in the research study or withdraw at any time. The confidentiality of the participants was maintained, and they were treated with fairness and respect. Beneficiaries made no false promises and were not disadvantaged culturally or economically.



Interaction with the Director

# CHAPTER 3: MAJOR FINDINGS OF THE STUDY

Upon evaluation, analyzing both the qualitative and quantitative data, the following findings were derived:



The majority of the respondents consulted in the evaluation belonged to vulnerable groups, children and the elderly.



The majority of the respondents paid between ₹3–₹4 lakhs only.



Stakeholders like healthcare practitioners narrated that the initiative effectively enhanced the services offered using the equipment.



The majority of the respondents were extremely satisfied with the service while the remaining reported being satisfied.



The training provided under the initiative was beneficial and enhanced the sustainability of the project.

## Cumulative Statistics of the utilisation of Pediatric ICU Set up - Indira Gandhi Institute of Child Health for the year 2022-23

Sr. No.	Performance Indicators	Achievement Remarks
1	Usage pattern of the Equipment in Number of patients being treated through these installations and the recovery rate	A total of 630 ICU Patients benefited Recovery rate was 90%
2	No of Children from marginalized communities who have availed the benefits of this support	867
3	Approx. Waiver obtained for economically weaker sections through the usage of these equipment's	60 lakhs
4	No of patients cured of Covid (Successful discharge each month)	566

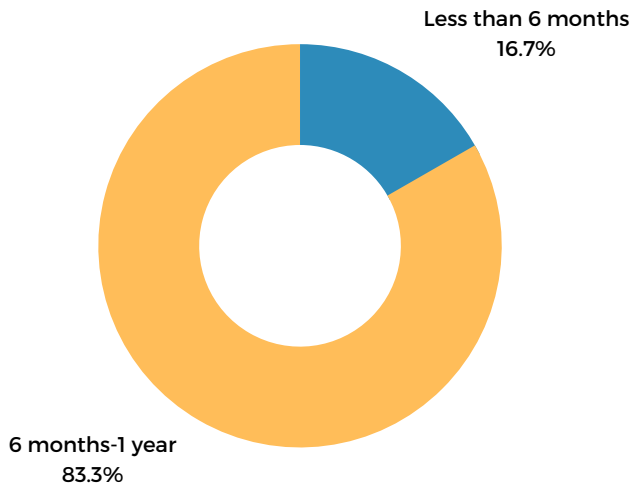
The impact of the program was measured in terms of the total number of patients served in the ICU, the number of marginalized children who benefited from the equipment, the number of patients successfully treated for COVID-19 and the concession awarded to patients from economically weaker sections.

The average monthly utilization of each type of Bosch-provided equipment in the ICU, over the 18 months from December 2021 to May 2023, was as follows:

- **Ventilator Support:** The 5 ventilators supplied by BGSW were availed by a total of 270 patients., averaging at around 15 patients per month. Notably, patients on ventilator support often spend an average of 2-3 months in the ICU.
- **HFNC Support:** The 5 HFNC units provided by BGSW benefited a total of 270 patients in the ICU, averaging at around 15 patients per month.
- **Bi-PAP Support:** The 2 Bi-PAP machines supplied by BGSW supported a total of 90 patients in the ICU, averaging at around 5 patients per month.

### 3.1 Social & Demographic profile of the respondents

#### Percentage distribution of wards of respondents by Age-Group



As can be inferred from the graph, the majority of the wards of respondents are concentrated in two age groups, i.e., "less than 6 months".

“The Director was very happy about the initiative and he appreciated the efforts of BOSCH and PPHF. He said the initiative increased the capacity of our hospital in a way we can treat now large numbers of the patients. As well as this initiative increased the capability of the staff with equipment now we can treat the patients efficiently. He thanked BGSW and PPHF for this initiative and he looks forward for more such projects in future.

**-Director - IGICH Hospital**

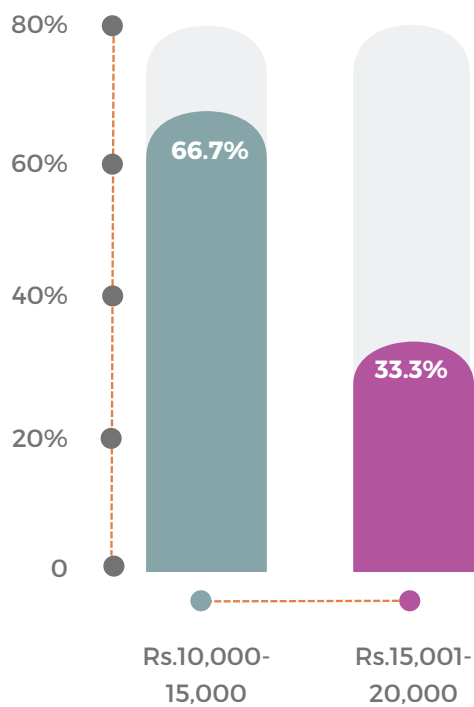
“Mr. Ajay explained the project implementation process. He said the program was selected anticipating that children will be more affected due to Covid-19 in IGICH they only have the capacity of 30 beds in PICU project aims to increase the capacity to 100 beds in PICU to provide treatment to COVID affected children. For the procurement process to happen, we got 3 quotes from Hospital. Equipment photos were shared for confirming with Hospital.

After the confirmation, purchase order was issued, and for each items different equipment vendor was selected. On a regular basis, The Coordination is done by checking the condition, and functionality of equipment to see if there are any technical issues being faced. On overall, The Hospital is happy with the equipments received and the implementation process.

**-Mr.Ajay Pal - State Program Manager, People to People Health Foundation.**



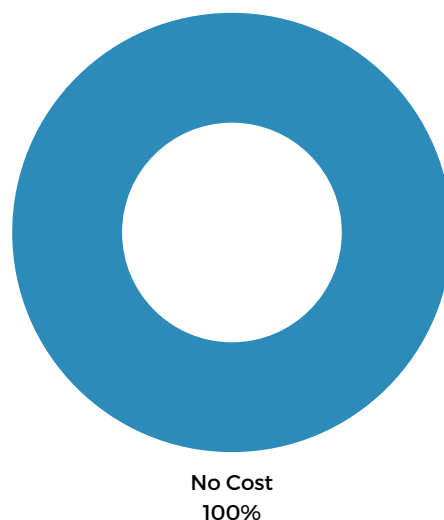
### Percentage distribution of respondents by Monthly Income



The data suggest that the greater part of the population belongs to the income group with a monthly earning is ₹10000 - ₹15000. The remaining population is equally distributed among the medium- and low-income groups.

## 3.2 Total treatment cost received

### Percentage distribution of respondents by the total treatment cost



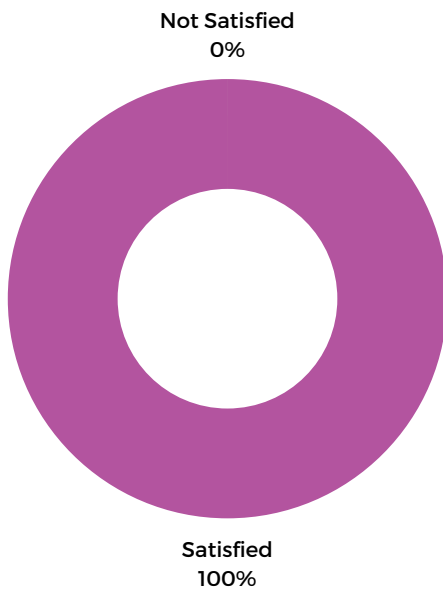
The analysis illustrates the cost of the treatment availed by the respondents. All of the respondents incurred a zero-treatment cost. Treatment cost in the hospital for BPL card holders is free.



“**Mr. Rajiv, a dedicated social worker,** operates to provide financial aid to families in need. In order to ensure that deserving families receive the entitled support and have access to quality healthcare, he meticulously verifies documents such as BPL cards, income certificates, and other social category certificates. Additionally, when social assistance schemes offer financial aid, hospital authorities often step in to provide support.

”

## Percentage distribution of respondents by satisfaction level



The overall response of the population was positive. All of the respondents were very satisfied with the service they received in comparison to respondents who suggested that they were satisfied.

**Mrs. Deepika is a biomedical engineer and a key stakeholder** in the project. As a representative of one of the beneficiary hospitals, she confirmed that all the supported equipment received through BGSW's initiative was put to good use and was successfully integrated into the hospital's existing infrastructure and workflow. She acknowledged that BGSW took the initiative to provide proper training to all the personnel involved. She highlighted that the donated equipment requires continuous maintenance contracts or annual maintenance contract support. Mrs. Deepika expressed her delight and appreciation for BGSW's initiative to provide ICU equipment. Her satisfaction serves as a testament to BGSW's commitment to improving healthcare infrastructure and contributing to the well-being of the community.

**Dr. Sanjeeva GN is an associate professor of pediatrics at IGICH.** He acknowledged the generous donation of ICU equipment made by both People to People Health Foundation and BGSW. He expressed that this effort facilitated access to critical resources, improving patient care and enhancing healthcare facilities' capacity to treat severe cases effectively. The efficient utilization of these resources positively impacted the hospital's ability to provide quality healthcare to patients, ensuring better outcomes and support for those in critical need. The joint initiative recognized and appreciated by Dr. Sanjeeva GN underscores the importance of collaborative efforts in addressing critical healthcare needs during a pandemic.

# CHAPTER 4: IMPACT CREATED

The Bosch Global ICU Equipment Project has had a significant impact on healthcare accessibility, affordability, and increased capacity and efficiency at the Indira Gandhi Institute of Child Health (IGICH). The project aimed to enhance the ICU setup at IGICH to better serve children, especially those from marginalized communities, during the COVID-19 pandemic. Here are the key impacts of the project:



## **Accessibility:**

The project has significantly enhanced access to high-quality healthcare services for children in under-resourced communities. Through the reinforcement of the pediatric ICU at IGICH with advanced medical equipment, the project has expanded the hospital's capability to provide treatment for severe cases, including COVID-19 patients. The provision of ventilators, monitors, and other vital equipment has ensured that critically ill children receive timely access to life-saving treatments.



## **Affordability:**

One of the remarkable achievements of the project is the significant reduction in treatment costs for children and their families. To ensure that eligible individuals can avail themselves of the benefits, a proper verification process has been established for documents such as BPL cards, income certificates, and other social category certificates. Moreover, hospital authorities frequently offer support when social assistance schemes provide financial aid. The study's findings indicate that all respondents incurred no treatment costs, and it was observed that treatment is provided free of charge for BPL card holders at the hospital. This outcome has greatly alleviated the financial burden on families, allowing them to access necessary healthcare services without financial constraints.



**FGD with the Hospital team and Director**

From the FGD it has been revealed that. During the COVID IGICH hospital were functioning only with the 30beds capacity for the children. For upcoming way they were working on the improving these bed capacity to 100 beds. The support helped in dealing with the 2nd wave of COVID and was able to treat the children affected with the COVID. With these support it has increased the efficiency and reduced the burden on the hospital staff. Now the equipment required in the ICU is available through they are catering the patients. Hospital staff appreciated the initiative and very satisfied with the quality of the equipment. Hospital authority is Thankful to BOSCH and PPHF for this initiative.

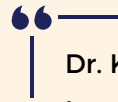


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Mrs. Anitha said, she personally uses all the ICU equipments given under the project on daily basis while working in the ICU. The equipments are well built and made to last for a long period of time and use of the equipments is very easy and feasible. The GE ventilators are well put to use and work efficiently. She is very happy as those equipment eased her work and now she can work more efficiently. And she is able to incorporate all the knowledge that she gained from the training program.

**-Mrs. Anitha Menzes, Senior Nursing officer and In charge of PICU**

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Dr. Keshav said, The initiative by the BOSCH was much needed for our hospital and it has cater to the need of our patient. For the work of BOSCH and the People to People Health foundation he felicitated them. Through this donation, he had utilised the machines and equipment in a full fledge manner and had saved a lot of lives since the usage of these machines and equipments. With his experience and expertise he said the provided equipment are good in the quality, He said that the Ambu Cuff donated is very accurate. He is very satisfied with the initiative and Thankful to BOSCH for the support.

**-Dr. Keshav Moorthy, Associate Professor, IGICH Hospital.**



#### **Increased Capacity and Efficiency:**

The project has significantly enhanced the capacity and efficiency of the pediatric ICU at IGICH (Indira Gandhi Institute of Child Health). By installing ventilators, bi-level positive airway pressure (BiPAP) machines, monitors, and various other medical equipment, healthcare practitioners now have the resources to deliver high-quality care to critically ill children. This improvement in infrastructure has not only bolstered the hospital's ability to address the healthcare needs of children during the COVID-19 pandemic but also for other critical illnesses. Furthermore, the training provided to the staff has effectively enhanced their skills and knowledge, ensuring the sustainability of the project's impact.

To conclude, the Bosch Global ICU Equipment Project has made healthcare services more accessible and affordable for children from marginalized communities



## RELEVANCE

## RATING



The project has successfully achieved its objective of procuring and installing the necessary equipment in the ICU setup. The urgent requirement for well-equipped ICU facilities arose due to the need to enhance the hospital's capacity to provide COVID-19 care. By fulfilling this need, the project has played a crucial role in strengthening the facility's ability to handle the increased demand for intensive care services during the pandemic.

## COHERENCE

## RATING



The project is aligned with several Sustainable Development Goals (SDGs):

**SDG 3: Good Health and Well-being:** The project directly contributes to this goal by enhancing the pediatric ICU setup, which improves access to quality healthcare services for children. It ensures that critically ill children receive the necessary treatment and care, thereby promoting good health and well-being.



**SDG 17: Partnerships for the Goals:** The project's success relies on collaboration and partnerships between various stakeholders, such as the government, healthcare providers, equipment suppliers, and other relevant organizations. These partnerships ensure the effective implementation and sustainability of the project, aligning with the spirit of SDG 17.



Furthermore, the project's objectives are in line with the National Health Mission that envisages the achievement of universal access to equitable, affordable & quality healthcare services that are accountable and responsive to people's needs. By strengthening the Pediatric ICU, the project supports the mission's goal of providing accessible and affordable healthcare services to all segments of the population, with special emphasis on vulnerable groups such as children. The project's efforts align with the mission's vision of reducing child mortality and promoting overall child health.

**Index:** 5 Points - Very High ; 4 Points - High ; 3 Points - Moderate ; 2 Points - Low ; 1 Point - Very Low

## EFFECTIVENESS

### RATING



The program has successfully achieved its objective of reaching its target group, which consists of children from under-resourced families. By doing so, it has ensured that these children have access to quality healthcare services without imposing financial burdens on their families. The program has effectively addressed the economic barriers that these families face, providing them with the necessary support to access healthcare services without incurring financial stress. This achievement highlights the program's commitment to promoting equitable access to healthcare and reducing disparities among disadvantaged populations.

## EFFICIENCY

### RATING



The project was implemented with a sense of urgency, recognizing the critical need for intensive care services for children, particularly during the second wave of the COVID-19 pandemic. It served as an infrastructural preparedness program, specifically designed to ensure the delivery of high-quality intensive care to children in need. By strengthening the infrastructure and capacity of the pediatric ICU, the project proactively responded to the anticipated surge in demand for intensive care services. This initiative aimed to provide timely and effective care to children, aligning with the project's objective of prioritizing their well-being and health during the challenging times of the pandemic.

## IMPACT

### RATING



The project has successfully generated the intended impact on children belonging to marginalized communities in the neighboring areas. The high level of satisfaction observed in the findings provides solid evidence to support this claim. The project has brought about multiple benefits, including increased accessibility and affordability of healthcare services, as well as enhanced capacity and efficiency of the hospital. These were the desired effects of the initiative.

Furthermore, the project has inadvertently created an additional positive impact on healthcare practitioners. According to their feedback, the project has improved the quality of treatment provided by empowering them with better resources and infrastructure. This unintended outcome has further strengthened the overall effectiveness and success of the project, as it has not only benefited the targeted children but also positively influenced the healthcare professionals involved.

**Index:** 5 Points - Very High ; 4 Points - High ; 3 Points - Moderate ; 2 Points - Low ; 1 Point - Very Low

## SUSTAINABILITY

## RATING



The project can be considered a sustainable intervention due to its focus on promoting lifelong healthy living. By providing the necessary equipment for the pediatric ICU, the project ensures that children will have long-term access to high-quality intensive care services. This sustainable provision of equipment enables ongoing support for children's healthcare needs.

Furthermore, the technical knowledge building provided to the staff contributes to the long-term sustainability of the initiative. By enhancing the skills and expertise of healthcare professionals, the project empowers them to effectively utilize the equipment and deliver optimal care to children in the ICU. This knowledge transfer ensures that the impact of the project extends beyond its implementation phase, as the staff members can continue to apply their enhanced skills, thereby sustaining the positive outcomes of the initiative.

In summary, the project's focus on lifelong healthy living, coupled with the provision of equipment and the development of staff expertise, establishes it as a sustainable intervention with a lasting impact on the well-being of children accessing ICU services.

## CHAPTER 5: RECOMMENDATION



To ensure the longevity and efficiency of the equipment, it is crucial to establish a regular maintenance schedule. This will involve periodic inspections, servicing, and repairs as needed. Additionally, staying updated with advancements in medical technology will enable the hospital to consider necessary upgrades in the future.



Establishing a quality improvement framework that includes regular feedback loops, performance reviews, and incorporation of best practices will help identify areas for improvement and ensure the delivery of high-quality pediatric care at IGICH Hospital.