

IMPACT ASSESSMENT STUDY OF BHARAT DYNAMICS LIMITED'S CSR PROJECTS

FOR THE FY 2021-22



Submitted to



Submitted by



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EXECUTIVE SUMMARY

BDL is conscious about its responsibilities towards society and as per the provisions of the Companies Act, 2013, BDL is spending 2% of the average net profits of the immediate three preceding financial years towards CSR activities. The core areas of focus under CSR are Healthcare, Nutrition, Education & Literacy, Skill Development and Sanitation etc. BDL as per DPE Guidelines, has also ventured into Aspirational Districts / underdeveloped areas in Telangana and Andhra Pradesh to undertake Corporate Social Responsibility (CSR) activities. The CSR budget for the fiscal year 2021-22 is set at ₹ 1812.61 lakh.

IPE was tasked with performing impact assessments for seven Corporate Social Responsibility (CSR) projects initiated by BDL during the fiscal year 2021-22, each with a budget of one crore or more. These projects have been in operation for at least one year, allowing for a comprehensive evaluation of their effectiveness in meeting the developmental needs of the communities served by BDL. To conduct this analysis, IPE employed the OECD DAC framework, a robust evaluation methodology that examines each project's relevance, coherence, efficiency, effectiveness, impact, and sustainability. This method ensured optimal execution, effective resource utilization, and alignment with strategic goals. IPE focused significantly on outcome measurements, highlighting the positive changes experienced by target communities, such as lives saved due to BDL's various healthcare initiatives during the COVID-19 pandemic, as well as socio-economic advancements and improved livelihood opportunities with other community projects.

Framework: OECD DAC framework has been used for evaluating the impact of BDL CSR projects. The scores of all the projects under study are based on their relevance, efficiency, effectiveness, and impact and sustainability parameters.

Weightage marks are assigned to each OECD DAC parameter, and each parameter's scores are computed according to their performances. Based on the sum of all parameters' weightage scores, the IPE team develops a 5-point rating scale and details are given below.

- Excellent (81 to 100)
- Above Average (61 to 80)
- Average (41 to 60)
- Below Average (21 to 40)
- Very Poor (1 to 20)

Overall Project Scores: The project efficiently utilized the inputs (funds, expertise etc.) and achieved the required outcomes and achievements that were desired from the projects. Overall project scores ranged between 77 to 90. The average score of 07 projects is around 83.75 out of 100 points.

Project wise performance of various parameters details is given below.

S. No.	Name of the Project	OECD DAC framework Evaluation Parameters					Total obtained score
		Relevance (20 Marks)	Efficiency (20 Marks)	Effectiveness (20 Marks)	Impact (20 Marks)	Sustainability (20 Marks)	
1	Smart Classrooms in Government Schools at Vizianagaram	18	17	17	17	17	86 (Excellent)
2	Construction of Girls Toilets in Govt. Schools of Rajanna Sircilla	17	15	15	15	15	77 (Above Average)
3	Procurement of Covid related equipment at Naval Hospitals, Delhi	19	17	17	18	17	88 (Excellent)
4	Construction of ZP High School at Bhanur Village	16	15	15	15	15	76 (Above Average)
5	Contribution to Covid Hospital at Lucknow	19	18	18	18	17	90 (Excellent)
6	Commissioning Oxygen Generation Plants at Military Hospital, Secundrabad and ESIC Hospital, Sanathnagar, Hyderabad	16	16	16	16	16	80 (Very Good) Military Hospital
		17	18	17	17	18	87 (Excellent) ESIC Hospital
7	Setting up of Covid Separation facilities at ESIC, Sanathnagar, Hyderabad	18	17	17	17	17	86 (Excellent)

The Project wise impact is given below

Project 1: Smart Classrooms in Government Schools at Vizianagaram

With the aim of enhancing the modern teaching and learning environment at government schools in Vizianagaram district, various stakeholders including public representatives, the district collector, and district education officer joined forces with Bharat Dynamics Limited to secure CSR funds for the implementation of smart classroom systems. As a result, During FY 2021-22, BDL extended CSR financial support of Rs. 100 lakhs to establish 40 smart classroom systems across 34 primary and 6 upper primary schools in Vizianagaram district.

Outcome / Effectiveness: BDL achieved the project objective by installing 40 KYAN smart classroom systems in selected 40 government schools across the Vizianagaram district. A total of 2500 primary and upper primary school students benefited from this project, engaging with diverse subject materials and attending smart classroom sessions daily. Consequently, schools conducted 3-4 smart classroom sessions per day, providing students with enriched educational experiences and resulting in enhancements in their fundamental numeracy skills, understanding of environmental science concepts, as well as proficiency in English and Telugu languages.

Impact: This project has transformed classroom teaching and learning environments in government schools of Vizianagaram district, Andhra Pradesh, leading to improved educational standards, increased school enrollment, reduced absenteeism, and enhanced overall education quality in government schools.

Project 2: Construction of Girls Toilets in Govt. Schools of Rajanna Sircilla

Recognizing the importance of girls' toilet facilities in government schools, the District Magistrate and the Education Department in Rajanna-Sircilla district actively sought CSR funding support from Bharat Dynamics Limited (BDL), a defense public sector organization. Their efforts were fruitful as they obtained Rs. 200 lakhs in funding, which was utilized to construct girls' toilets in 39 selected Government Schools. The construction of these toilets was made possible only because of the generous financial assistance from BDL. The project commenced in the financial year 2020-21 and was completed by 2021-22.

Outcome / Effectiveness: The aim of this project has been successfully achieved as it has ensured the provision of toilet facilities specifically for schoolchildren in 39 government schools located in the Rajanna-Sircilla district. Consequently, there has been a significant improvement in the quality of toilet facilities available in government schools. Presently, A total of 3000 schoolchildren for both boys and girls access the toilet facilities daily.

Impact: The construction of distinct toilets for boys and girls at government schools in the Rajanna-Sircilla district has yielded significant results, including a rise in enrolment of schoolchildren, improved attendance rates, and decreased dropout rates. This beneficial impact is credited to the availability of conveniently located separate restrooms for schoolchildren, which fosters a sense of dignity and privacy among them. As a result, there has been a noticeable improvement in the overall health and academic performance of schoolchildren. Additionally, this project has enhanced menstrual hygiene facilities for young girl students.

Project 3: Procurement of COVID Related Equipment at Naval Hospitals, Delhi

BDL extended financial support to multiple Indian Navy Hospitals throughout the nation during the fiscal year 2021-22, aimed at addressing the urgent need for emergency medical treatments amid the COVID-19 pandemic. The specifics of the medical equipment acquired for each Navy hospital through BDL's CSR funding, amounting to Rs. 300 lakhs. Indian Naval Benevolent procured various medical equipment

Outcome / Effectiveness: BDL has successfully met the objectives of this project by providing a range of medical equipment, devices, and facilities aimed at bolstering the medical infrastructure of five INHS hospitals, one INS hospital, and one Diving School Hospital. As a result, this initiative has significantly improved the treatment protocols for COVID-19, ultimately saving the lives of Indian Navy personnel and their dependents who were infected. Additionally, the project has enhanced the capacity for outpatient, inpatient, emergency, and surgical treatments through the upgraded equipment and facilities in these hospitals.

Impact: The COVID-19 pandemic has created a pivotal opportunity to accelerate the development of treatment facilities in Indian Navy hospitals. This project has reinforced the medical infrastructure, ensuring that these hospitals are well-prepared to address any health



emergencies that may occur in the future. The increased availability of critical medical equipment, advanced devices, and enhanced facilities has resulted in a significant decrease in time needed for emergency treatments. As a result, the upgraded facilities have not only improved the overall effectiveness of hospital services but have also played a vital role in safeguarding the lives of many individuals associated with the Indian Army and their dependents. The advancements made during this challenging time have set a new standard for healthcare delivery within the military framework, ensuring better preparedness for any future health crises.

Project 4: Construction of ZP High School at Bhanur Village

Zilla Parishad High School (ZPHS), Bhanur, was established in 1989 as a co-education school. This educational institution has played a significant role in transforming the public education system in Bhanur village, a rural area located in the Sangareddy district of Telangana state. Currently, the school has a total enrollment of 145 students, comprising 75 boys and 70 girls. The teaching staff consists of 9 members, while there are 3 non-teaching staff members. Over the years, the school has achieved remarkable academic success. However, it faced numerous challenges in terms of classroom infrastructure and basic amenities. To address these challenges, BDL constructed a school building and provided essential facilities with a cost of Rs. 324 lakhs. This project was initiated during February 2020 and completed by March 2022.

Outcome / Effectiveness: The project has accomplished its objective with great effectiveness by creating an environment that promotes learning for 145 students in classes VI to X. Following the construction of the school building, improvements were observed in classroom instruction, extracurricular activities, sports provisions, student amenities during lunchtime, access to clean drinking water, and restroom facilities. These provisions have significantly enhanced the quality of educational standards and student facilities.

Impact: BDL's initiation of the construction of school building at ZP High School, Bhanur has led to significant changes, such as an increase in school enrollment, a decrease in students' absenteeism, and an enhancement in academic achievements among students. Additionally, this endeavor has positively impacted the health of children by offering adequate facilities for clean drinking water, sanitation, nutritious midday meals, and sports activities. Moreover, the project executed in Bhanur village has not only brought about favorable transformations in education and socio-economic conditions but has also instilled a sense of hope and optimism for the future among the residents. It serves as an outstanding illustration of how education and community-driven initiatives can uplift and empower marginalized communities.

Project 5: Contribution to Covid Hospital at Lucknow

In 2021, amidst the devastating impact of the Corona pandemic, the Indian government took proactive measures to establish a fully equipped Makeshift Covid Centre in Lucknow, Uttar Pradesh. This initiative, named the Atal Bihari Vajpayee makeshift COVID Care Centre, was a response to the urgent need to address the severe impact of the second wave of the pandemic. The site for the center was allocated at Awadh Shilpgram in Lucknow by the Uttar Pradesh government, and the overall responsibility for construction was undertaken by DRDO, with the Chief Construction Engineer (CCE), North successfully completing the establishment within a fortnight. The center was equipped with 500 beds, a 40 KLD cryogenic oxygen gas supply system, intensive care units, ventilators, a lab, a dispensary, and other essential

healthcare facilities. DRDO also facilitated the operations and provided medical staff for the entire duration of the center's operation (May 5, 2021, to March 31, 2022). The funding for this initiative, totaling nearly twenty-five crores, was mobilized with 60% from PM CARES and 40% from CSR, with contributions from organizations such as the Bharat Dynamics Limited, Hyderabad and Other PSUs. Following the PMO's directive, DRDO sought financial assistance from Bharat Dynamics Limited (BDL). In response to the appeal, BDL approved a sum of Rs. 2 crore and disbursed it to DRDO during FY 2021-22. This ambitious venture provided timely medical care and life-saving treatment to thousands of critically ill patients.

Outcome / Effectiveness: The objective was achieved with the creation of the temporary COVID-19 Hospital in Lucknow. Through efficient collaboration with the DRDO, a significant number of COVID patients received successful treatment at this facility, thereby preserving many lives. After the setup of this makeshift center, thousands of critically ill individuals were provided with medical care and life-saving interventions at this temporary hospital from 5th May 2021 to 31st March 2022.

Impact: The creation of a 500-bed Atal Bihari Vajpayee makeshift COVID Care Centre in Lucknow offered treatment to numerous COVID-19 patients from 5th May 2021 until the conclusion of the Second wave, easing the strain on the public healthcare system. This center was established in preparation for the third wave to address potential emergencies. Following this, the medical equipment and facilities were transferred to other healthcare systems for alternative treatments after completely reducing the burden of COVID-19.

Project 6: Commissioning Oxygen Generation Plants at Military Hospital, Secunderabad and ESIC Hospital, Sanathnagar, Hyderabad

The oxygen supply crisis that impacted India in April and July 2021 during the peak of the second wave of the coronavirus pandemic had severe repercussions. Hospitals nationwide struggled to meet the rising demand for oxygen, leading to a significant increase in COVID-19 related deaths. The overwhelming number of infected patients strained healthcare facilities, resulting in shortages of beds, oxygen, and other vital resources. Telangana state faced a significant challenge during the second wave, experiencing high rates of infection and mortality. To address the acute oxygen shortages at military hospital in Secunderabad, and the ESIC Medical College and Hospital in Hyderabad, BDL took the initiative to install oxygen plants, each with a capacity of 960 liters to ensure a consistent oxygen supply for COVID-19 treatment, following the directives of the Concerned Defence Ministry, Government of India. These installations occurred towards the end of the second wave of COVID-19, from June 2021 to September 2021, in preparation for the anticipated third wave of the pandemic and other potential health crises. BDL incurred an expenditure of Rs. 188.80 lakhs for installing these two oxygen plants in both hospitals.

Outcome / Effectiveness: The project was successful in delivering desired outcomes of optimum level oxygen supplies to ESIC medical college & hospital and Military Hospital - Secunderabad treating critical care patients. This project strengthened medical infrastructure facilities at military hospital and ESIC medical college & hospital in Telangana state. Furthermore, this project enabled the availability of medical oxygen, which can help these hospitals face any catastrophic health emergencies.



Impact: The COVID-19 pandemic has presented an opportunity to enhance our health system and its delivery protocols. The installation of Oxygen-generation plants and provision of medical infrastructure facilities like oxygen pipeline systems augmented the supply of oxygen to military hospital and ESIC medical college and hospital in Telangana in treating various patients of armed forces personnel, ESI-insured persons and their family members on time to save their lives. The tremendous burden of oxygen scarcity in hospitals was lessened by oxygen plants, which allowed hospitals to manage and save a significant proportion of critically sick patients who needed oxygen at a rate of five to fifteen LPM to maintain saturation oxygen levels of 92-96%.

Project 7: Setting up of COVID Separation facilities at ESIC, Sanathnagar, Hyderabad

ESIC Medical College and Hospital (ESIC MC & H), Sanathnagar, Hyderabad, is an 800-bed hospital catering to more than 14 lakh insured persons covered under the ESI Scheme in Telangana. During COVID-19 this hospital has rendered both COVID and Non-COVID Services. This hospital has a footfall of more than 2400 patients each day. To reduce non-COVID patients entering areas where COVID-19 patients were being treated, ESIC MC & H decided to install flap barriers at various eight strategic locations on the campus. Furthermore, they approached BDL for CSR funding under the COVID-19 disaster management program, and as a result, eight flap barriers were successfully installed. The flap barriers aided in cutting down the flow of patients and patients' attendants into COVID and non-COVID treatment areas while granting access only to those allowed to enter those areas. The total cost of the project was Rs. 170 lakhs

Outcome / Effectiveness: ESIC MC & H successfully achieved its project objectives of controlling access for unauthorized individuals or excessive attendants of ESIC-insured patients and monitoring of employee attendances by implementing 8 flap barriers at strategic locations. These flap barriers are linked to controllers that continuously monitor their connectivity and transmit data from RFID cards used for access. The controllers are connected to two servers in the IT server room, storing access details for analysis as needed. Additionally, the application serves as a backup for the attendance management system, utilizing facial recognition technology for employee attendance based on data captured by the same application used for the flap barriers.

Impact: The program resulted in significant modifications, such as the improvement of monitoring systems at ESIC MC & H for ESIC-insured individuals and their companions' access, the prevention of unauthorized entry, and the promotion of employee punctuality. These enhancements have led to better management of ESIC-insured patients' data, employee efficiency, and reduced operational costs by optimizing the deployment of security personnel. The initiative was particularly beneficial during the COVID-19 pandemic, as it effectively managed the flow of both COVID-19 and non-COVID-19 patients by allowing treatment exclusively for eligible general & ESIC-insured individuals through a card access system, resulting in a decrease in virus transmission among individuals on the campus.