

Executive Summary

of Procurement of Video Endoscope Cart and Video Endoscope Cart with Stroboscopy System

The Project “Procurement of Video Endoscope Cart (VEC) and Video Endoscope Cart with Stroboscopy (VECS) System”, was implemented at Tata Memorial Hospital (TMH) Mumbai with the support of Kotak Securities Limited CSR. It was executed in FY 2022-23 to strengthen diagnostic infrastructure for early detection and treatment of Head and Neck Cancers (HNCs).

Tata Memorial Hospital had a single endoscopic system prior to the intervention, which led to prolonged waiting time and delay in treatment initiation. The additional and advanced endoscopic systems enable faster, more precise diagnosis. It reduces the strain on Minor Operation Theatres (OTs) by improving efficiency, reducing patient waiting time, and minimizing the need for general anesthesia procedures.

An Impact Assessment Study conducted by NuSocia for the year 2022-23 was evaluate the level of awareness and impact on the target beneficiaries, identify best practices and suggest areas of improvements and innovative approaches basis market trends.

Key Findings

- **Transparent procurement process** ensured smooth implementation of the integrated diagnostic system.
- A structured training program enabled optimal system utilization for the TMH doctors and staffs.
- **384 patients benefitted till March 2024** with this equipments.
- The system **improved early detection rates of cancers** and ensured timely intervention.
- The system has **reduced the waiting time from 3-4 days to 1 day** and facilitated same-day diagnostics.
- The integration of advanced diagnostic tools allowed high-resolution imaging and stroboscopic assessments, leading to more precise diagnoses.
- Minor OT procedures for **diagnostic evaluations decreased by ~50%**, improving hospital workflow.
- **The Oncology department could accommodate more patients (40-100/month)**, enhancing overall service delivery, and ensuring that healthcare resources were utilized more effectively
- The procured **equipment is designed to last 8-10 years**, ensuring long-term impact on cancer diagnostics



System installed in Homi bhabha centre in Tata Memorial centre

Impact

Outcomes	Details
Improved patient outcomes and early cancer detection	The introduction of VEC and VECSS has improved early-stage detection of HNCs, allowing for timely intervention and better treatment options. Patients have a higher chance of survival and improved prognoses due to faster diagnoses.
Enhanced Healthcare Access for Underprivileged Patient	The project benefited ~244 patients in the FY 2022-23 (till October 2023) through the addition of VEC and VECSS equipment. The number of beneficiary patients reached 394 by the end of March 2024. This project has increased the number of economically disadvantaged patients receiving timely diagnoses and treatment
Enhanced efficiency and operational impact	The project has helped in faster consultations and reduced dependency on Minor OTs, enabling more patients to receive timely diagnoses and treatment.

The “Procurement of Video Endoscope Cart and Video Endoscope Cart with Stroboscopy System” project at Tata Memorial Hospital has made an impact on cancer diagnostics, particularly for economically disadvantaged patients. It enabled early-stage detection. The project would have improved treatment outcomes and survival rates by reducing diagnostic delays.

The integration of advanced endoscopic machines into the OPD has optimized hospital resources by reducing dependence on minor OTs. It enabled same-day diagnostic procedures under local anesthesia. The project’s sustainability is reinforced through institutional integration, where these diagnostic services have become a core part of TMH’s healthcare delivery system. The project has set a benchmark in equitable cancer care, paving the way for broader adoption of similar equipment in other cancer hospitals across India.

SDGs Covered :

