

L&T IES: Value engineering services leading to cost reduction while retaining functionality and quality

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| <p>Service Provider: L&T Integrated Engineering Services Customer: Customer develops, manufactures and markets medical solutions, headquartered in Europe Vertical: Medical Equipments</p> | <p>Customer Profile: Customer is engaged in the development and production of high quality diagnostic ultrasound systems. Parent organisation specialises in precision signal acquisition and medical imaging</p> |
| <p>Project Profile: Providing value engineering services to their newly developed product cart for ultrasound machine. Scope – cost reduction for mechanical areas only without compromising quality and functionality and aesthetics</p> | <p>Business Objective: To reduce the overall cost of cart (mechanical parts) Technical Objective: Generate ideas related to alternate mechanisms, material, source, etc.</p> |
| <p>Duration of the Project: 6 months Team Description: Size: 5 members Profile: CAD Engineers, FEA Engineers, Sourcing Expert</p> | <p>Tools/Technologies Used: CAD – Inventor FEA – Ansys, Hypermesh Costing & Sourcing – Standard internal costing & sourcing templates</p> |
| <p>Methodology: Step 1 – Techno-commercial Feasibility from Offshore Step 2 – Onsite Presence for Requirement Gathering Step 3 – Idea/Concept Generation Step 4 – Shortlisting of Suitable Options Step 5 – Engineering Analysis of all Options for Optimum Solutions Step 6 – Detail Engineering of Ideas Step 7 – Cost & Investment Estimation Step 8 – Vendor Identification Step 9 – Regular Sourcing Support</p> | <p>Results Achieved Technical Benefits: Reduction in number of parts, production time, assembly time, etc. Business Benefits: Reduced 60 per cent of initial component cost, against a target of 30 per cent. Additionally, our solutions also reduced cost of inventories, which is a recurring cost advantage Innovations: Redesigned various mechanisms and integrated multiple parts</p> |