

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

<p><b>Service Provider:</b> L&amp;T Integrated Engineering Services  <b>Customer:</b> Customer develops, manufactures and markets medical solutions, headquartered in Europe  <b>Vertical:</b> Medical Equipments</p>	<p><b>Customer Profile:</b>  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><b>Project Profile:</b>  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><b>Business Objective:</b>  To reduce the overall cost of cart (mechanical parts)  <b>Technical Objective:</b>  Generate ideas related to alternate mechanisms, material, source, etc.</p>
<p><b>Duration of the Project:</b> 6 months  <b>Team Description:</b>  Size: 5 members  Profile: CAD Engineers, FEA Engineers, Sourcing Expert</p>	<p><b>Tools/Technologies Used:</b>  <b>CAD</b> – Inventor  <b>FEA</b> – Ansys, Hypermesh  <b>Costing &amp; Sourcing</b> – Standard internal costing &amp; sourcing templates</p>
<p><b>Methodology:</b>  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 &amp; Investment Estimation  Step 8 – Vendor Identification  Step 9 – Regular Sourcing Support</p>	<p><b>Results Achieved</b>  <b>Technical Benefits:</b> Reduction in number of parts, production time, assembly time, etc.  <b>Business Benefits:</b> 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  <b>Innovations:</b> Redesigned various mechanisms and integrated multiple parts</p>