

## Executive Summary

1. High Level Process Map developed for the Business Processes from Sales-Coordination to Production. The Business Processes that are covered are

<b>Department / Function</b>	<b>Business Process</b>
Sales Coordination	<ul style="list-style-type: none"> <li>• Sale Order Creation</li> <li>• Technical Specification Document</li> </ul>
Design & Development	<ul style="list-style-type: none"> <li>• Customer Bill of Material</li> </ul>
Production Engineering	<ul style="list-style-type: none"> <li>• Routing Plan</li> <li>• Nesting Plan</li> </ul>
Production Planning	<ul style="list-style-type: none"> <li>• Work Orders for Internal Manufacturing Processes</li> <li>• Job Orders for Outsourced Processes</li> <li>• Purchase Requests for Imports &amp; Domestic</li> </ul>
Purchase	<ul style="list-style-type: none"> <li>• Domestic &amp; Import Purchases</li> </ul>
Stores	<ul style="list-style-type: none"> <li>• Spare &amp; Consumable Stores</li> <li>• Production Stores</li> </ul>
Production	<ul style="list-style-type: none"> <li>• Work Order Monitoring &amp; Closure</li> </ul>

2. Shortcomings of the existing Business Processes studied.
  - 2.1. One Common Observation. XL is being used as a parallel system in every function which is prone to human error and oversighting.
3. New Business Processes are identified for ERP operations with minimum manual intervention and Dependency on XL is progressively minimized and removed.
4. The new Business Processes identified are

<b>Department / Function</b>	<b>Business Process</b>
Sales Coordination	<ul style="list-style-type: none"> <li>• Technical Specification Document as E-Document and linking the same with Sale Order.</li> </ul>
Field Sales	<ul style="list-style-type: none"> <li>• Web Based Query System with Pricing Module.</li> </ul>

Department / Function	Business Process
Design & Development	<ul style="list-style-type: none"> <li>• Customer Bill of Material – Automatic Generation from ERP with Tech. Spec E-document as Input.</li> <li>• Non-Regular item list to Production Planning @ C-BoM stage itself cutting down the lead time to plan.</li> </ul>
Production Engineering	<ul style="list-style-type: none"> <li>• Nesting Plan linking with Fabrication Work Order and ROL logic</li> </ul>
Production Planning	<ul style="list-style-type: none"> <li>• ROL logic to be built for Work Orders for Internal Manufacturing Processes, Job Orders and Purchase Requests.</li> <li>• Work Order for Regular items should be based on ROL logic and automatic from ERP.</li> <li>• Manual Work Order generation &amp; releasing only for Non-regular items</li> </ul>
Purchase	<ul style="list-style-type: none"> <li>• Annual PO for High Volume parts. (Maximum Volume)</li> <li>• ROL fixing based on Average Monthly Consumption and Lead time to procure.</li> </ul>
Stores	<ul style="list-style-type: none"> <li>• Two Bin System</li> <li>• Planning of Low Volume – High Value Spares to be integrated with Regular Production Planning.</li> <li>• Material Reservation System</li> <li>• Stock Liquidation Plan for Non Moving and Very Slow moving items</li> </ul>
Production	<ul style="list-style-type: none"> <li>• Work Order Monitoring &amp; Closure</li> </ul>