Procedure for Creation of Isoefficiency Curves (1, 2, and 3) For Centrifugal Pump

1. Align graph for Efficiency vs. Capacity and the graph for Head of the pump vs. Capacity in the manner shown on the schematic. Make sure that capacity scale is same for both graphs.

2. Pick three efficiency levels on the Efficiency vs. Capacity graph and draw horizontal lines to intersect with curves for all tested speeds (n1, n2, and n3).

3. From each intersect point draw a vertical line to intersection with corresponding speed curve (n1, n2 or n3) on the Head of the pump vs. Capacity graph.

4. Create the best fitting line for each set of points obtained on Head of the pump vs. Capacity graph which will give us set of isoefficiency curves for tested device.