ABB was invited to carry out an EIA to enable a better understanding of what engineering modifications would be required to their existing facility in order to facilitate the continuous manufacturing of the new product.

The client is currently investigating the viability of introducing a new product to their portfolio. The product which is not harmful on inhalation has an unpleasant odour. As part of the feasibility process, ABB were invited to carry out an EIA to enable a better understanding of what engineering modifications would be required to their existing facility in order to facilitate the batch manufacturing of the new product.

ABB’s structured approach focused on ensuring we had a clear understanding of the:

- Business drivers for the project
- Project objectives
- Success criteria

This enabled ABB review all available options, analyse these options and rank them against the agreed success criteria.

The criteria that were considered for this project include:

- Safety
- Capital cost
- Operational cost
- Operability
- Constructability
- Sustainability

**Solution**

A document detailing the preliminary design and project information for various options proposed by ABB for the control of the odour emanating from the new product was issued to the client.

As part of the study, the manufacturing process was broken down into 5 sections with each section being assessed in detail. This enabled ABB provide a number low cost options where applicable. The study concluded the most practical and cost effective way to control the odour emanating from the product was by a combination of different methods. A trial was recommended as the next logical step in order to determine the probability of success prior to a final decision on investment.
Benefits
- Provided the customer with clear guidance on all options available to them
- Optioneering of all potential solutions
- Identified areas for improvement within the manufacturing process
- Reduced the demand on operator in-house engineering resource
- Provided unbiased advice - independent of technology suppliers
- Provided a suitably robust cost estimate which can be used as part of the sanction approval for the next stage of the project

01 Map of ABB’s solution.