

**B****E****S**

## CASE STUDY NO 54

### Clean Assembly Facility

- 4000m<sup>2</sup> - Full Turnkey Construction
- Design & Construction
- Extensive Civils & Ground Works
- Project Value: £4.2m
- Fully Validated facility
- cGMP Grade C

Working together with the client's Design Team and End Users we delivered this highly specified, flagship facility on an existing brown field site.

BES were engaged to carry out the full Design and Construction of this new 4000 m<sup>2</sup> Assembly facility. Working within a brownfield site, we carefully planned the initial civil works within a tight footprint, surrounded by access roads, an open drain culvert and overhead power cables.

Due to the location of the site and challenging ground conditions, 260 reinforced concrete piles were driven 20 metres down. Work then began on a network of pile caps and ground beams, which were set out to facilitate internal crane access for erection of the steel portal frame. Composite cladding was finally erected to encapsulate the building.

The building was designed to comply fully with Part 'L' of the building regulations and therefore our In House Energy Assessor actively monitored the shell construction and ensured full attention to detail.

Internally the building is set out on two levels, ground and mezzanine. The ground floor consists of ISO7 Grade Assembly and Packing Halls, along with Warehousing and Laboratories. The 1<sup>st</sup> floor consists of a walk on maintenance deck above the Assembly and packing halls with a concrete Mezzanine Plant room. The building is heavily serviced Utilising Heat Pump technology and LED lighting to minimise energy usage.

