

CASE STUDY:

Data Centre

Bells MES was awarded the contract on a Data Centre to supply and test the new fuel system consisting of fuel pump skids, GRP enclosures, secondary steelwork, control system, trace heating, insulation & their scope also included connecting into the existing 'live' Fuel Systems.

Bells MES carried out BIM (with our partner PorthillBIM) Revit Fabrication for coordination with all services / structure, fabrication detailing and manufacture. Working collaboratively with our Client, their professional team, other contractors we attended workshops to resolve engineering & co-ordination challenges using the Clients Federated Model for approval/ sign off before factory fabrication commenced.

Bells MES scope expanded to provide 8 No. MEP modular risers. Our scope included structural engineering (with our partner RSA Design), scanning (with our partner Virtually Built) of the existing builders work openings & structure to de risk spatial constraints including structural tolerances to develop a BIM model (with our partner Virtually Built) which was federated by our Client, workshopped & approved/ signed off.

This enabled Bells MES to fabricate the MEP modular risers off site and lifted into each of the openings. Each MEP modular riser stood a total of 18meters in height, split every 6meters for logistic purposes. The width was split between electrical and mechanical services spanning a total 3meters with a depth of 800mm. Our clients mechanical & electrical contractor attended our factory to carry out the installation of services within the risers.

All the 8 no modular risers were fabricated/built at our Bells MES factory delivered, offloaded & lifted into position by our lifting company (with our partner AIS Vanguard, London) fixed into place on site. With our logistics team we delivered to site and used our contracted lift and using our in-house lifting team to assist we installed 8no modular risers within the building.

BellsMES provided the design, scanning of the existing roof (with our partner Virtually Built), structural calculations & modelling (with our partner RSA Design) for the secondary steels for the roof plant purchased by our Clients team. BellsMES model was reviewed/ approved with the Clients team for BellsMES to fabricate off site at Erith which was delivered, lifted & positioned



