



Tesla Engineering Limited,
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E4260

2/7/06

Dear Alexandre,

Tesla is pleased to provide a budgetary quotation to provide one solenoid magnet for the PANDA experiment. Our budgetary quotation includes the following:

- a/ Engineering and manufacturing design.
- c/ Superconducting coil including materials, insulation, epoxy etc.
We already have two quotations for the supply of the wire.
- d/ Cryostat with chimney and thermal shield, pumping port, quench detecting voltage taps, thermal sensors diodes and resistors.
- e/ Necessary one off tooling.
- f/ Coil manufacturing and assembly inside the cryostat.
- g/ Initial cool down and cryogenic testing without the iron yoke. We have allowed 5000 litres of helium for training the magnet at £2.30/litre. If more is required then this will be at the customers cost.
- i/ Assembly and tests at GSI with the return yoke.

The quotation does not include the means to refrigerate the magnet since we don't know what the policy of GSI is. When we get to the design it may be efficient to re-condense the helium using 4 1.5 Watt Sumitomo cryocoolers or it may be that GSI supply lines of helium and nitrogen.

Our price to supply that specified above is €1.6m.

If we had to also make a test coil then we would suggest that we make a 1/5th scale model of the cold mass and test it in a helium dewar. This would add about another €50,000 to the price.

Delivery will be about 24 months from placement of order,

Yours

Sincerely

A handwritten signature in black ink that reads "Michael Begg". The signature is written in a cursive style and is positioned above a horizontal line.

Managing Director