

# UK Procurement Process and Timelines for SSD

# Procure Whole Magnet

Item	Time (mths)	Cost (k£)
Review and Issue Specification	1	
Post in EU Journal	1	
Receive Bids	1	
Bid Evaluation	0.5	
Negotiate Contract	1	
Place Contract	0.5	0.3 SY (incl above)
Design Phase	10	0.2 SY, 550
Manufacture and on-site acceptance test	10	0.2 SY, 550
Delivery	1	10
Installation, acceptance tests, MICE integration	3	0.75 SY, 5
Total ( @50k/SY ~ 1190k£ ), +VAT ASG prices and timescales	29	1.45 SY, 1115

# Procure Cold Mass Only

Item	Time (mths)	Cost (k£)
Review and Issue Specification, Bid Review, Bid Register	1	
Post in EU Journal	1	
Receive Bids	1	
Bid Evaluation	0.5	
Negotiate Contract	1	
Place Contract	0.5	0.3 SY (incl above)
Design Phase	4	0.15 SY, 230
Manufacture	4	0.15 SY, 230
Cold mass test at Brookhaven and delivery	3	US contrib. 260
Remove old cold mass, jigs (// activity)	(3)	0.75 SY, 20
Inspection, refurbish and repair (// activity)	(2)	0.3 SY, 5
Cold mass integration	3	0.75 SY, 25
Installation, Acceptance tests, MICE integration	3	0.75 SY, 5
Total (@50k/SY ~ 931k£), +VAT ASG prices and timescales	22	3.15 SY, 775

# Risk trade-off

Item	Cold mass only	Mitigation	End risk	Complete magnet	Mitigation	End risk
Damaged components	high	Early investigation	medium	zero		zero
End flanges	high	Early investigation	low	zero		zero
Current leads	Medium	Investigate corrosion, spares	low	low	Test at manufacturer	zero
Thermal issues	medium	Careful re-assembly	low	low	Test at manufacturer	zero
Training	Low / medium	Test at BNL	low	Low / medium	Test at manufacturer	Low
Cost and schedule over-run	Medium / high	Careful planning	medium	Low / medium	Penalty clause / close supervision	low
Warranty	Only for workmanship	Cold test	No warranty	For complete magnet	Part of contract	Full Warranty