

# Upcoming FAIR Tenders

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Head In-Kind and Procurement

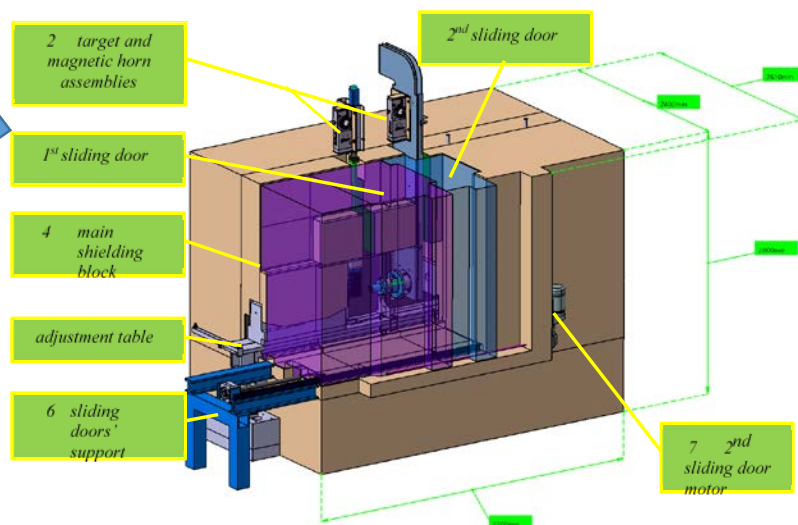
1<sup>st</sup> ILO Meeting 15. March 2021

# Tender ready to go in the coming year

Cost Book Item	Comments about procurement	Aprox. Value of Tender
Fast Valves	Various sizes, UHV	1-2M€
CR Microwave Damping CR Chambers	Complex high precision	0-1M€
pBar Magnetic Horn incl. Power Converter	Very fast, high current switched – extremely specialised provider needed	2-4M€
SFRS supports Quad, Sext, Beam Catcher	Several stands/supports	0-1M€
SFRS Connection boxes for SC magnets		0-1M€
SFRS Gas supply & Technical Gas Supply		3-5M€
SFRS Pillow Seal Support / guiding system	Specialised vaccum (remote)	0-1M€
SFRS Current lead regulation valve box		0-1M€
SFRS Robot System	For radiation hard places	1-3M€
SIS100 Power Part, Cabinet, Construction g-t Jump Quad	Fast swiched power supplies	0-1M€
SIS100 Power Part, Cabinet, Construction Extr. Septum 1, Lamb. Steerer	Fast swiched power supplies	0-1M€
SIS100 Power Part, Cabinet, Construction FAIR 2 (nc rad res. Quad)	Power supplies	0-1M€
SIS100 Power Part, Cabinet, Construction Extraction Septum 2-3	Fast swiched power supplies	0-1M€
SIS100 Power Part, Cabinet, Construction Chrom. Sextupole	Power supplies	0-1M€
SIS100 Power Part, Cabinet, Construction FAIR 1 (Fast Quad)	Power supplies	0-1M€
N.c. Lambertson Steerer	Magnet	0-1M€

# Some selected purchases - Tender or In-Kind

Description	Comments	Approx. price
pBar Target Station	See below	0-1M€
SFRS Energy Buncher Dipole	Super conducting magnets	3-5M€
pLINAC Power Lines and Transitions	RF	0-1M€
pLINAC Buncher Amplifier	RF	0-1M€
pLinac CCH Tanks	UHV/ precision RF parts	3-5M€
pbar Transport Vehicle	radiation	1-3M€



## Shielding of the pbar target station (PSP 2.9.11.6.1)

The antiprotons are generated by a primary proton beam that is interacting with a nickel rod. The main purpose of the target station is the suppression of secondary particles originating from the target. The shielding of the target station is pre-designed to have 1.6 m of iron behind the target area and 1 m in each other direction from the target area. The approximate weight of the main shielding block (brown) is 150 t. The 1st door (purple) is 24 t and the 2nd one (light blue) is about 8.5 t. Both doors are sliding on the support frame (blue) and get pushed individually by the motors.

### Content of delivery:

- main shielding block (150t)
- 1<sup>st</sup> (24t) and 2<sup>nd</sup> (8.5t) sliding doors
- sliding doors support and 2 sliding door motor
- graphite collimator
- copper and iron collimators stack
- adjustment table

### Necessary technological capabilities

- detailed 3D design
- casting steel billets
- billets cutting
- milling the required shape
- welding work
- anticorrosion processing and painting