

Tender Cod. C.I.G.: 48754493CA for the provision of a femtosecond fiber laser

A) The economical score (maximum 60 points) is defined by the following expression: $ES = 60 \frac{P_{\min}}{P}$

- 1) Toptica quotation 33220 euros
- 2) Menlo quotation 38275 euros

ES (Toptica)=60

ES (Menlo)=52

B) The technical score (maximum 40 points) is defined by the following expression

$$TS = \sum_{i=1}^n W_i$$

where:

n = total number of technical points as specified in the technical specification file to be evaluated;

W_i = score of the technical point as specified in the technical specifications file;

Laser Properties	Technical Requirements	Menlo	Toptica
Fundamental wavelength	1560 nm	OK	OK
Beam shape	TEM00	OK	OK
Laser output power	As maximum as possible (not less than 200 mW) 0-12 points	>300 mW 10 points	>350 mW 12 points
Pulse width	As minimum as possible (not larger than 100 fs) 0-12 points	<80 fs 12 points	<100 fs 10 points
Repetition rate	In the interval 50-100 MHz	OK	OK
Spectral width	As broad as possible 0-4 points	50 nm 3 points	60 nm 4 points
Polarization	Linear (Horizontal)>95 %	OK	OK
Beam size	As small as possible 0-2 points	Φ<2.5 mm 2 points	Φ ~3.5 mm 1 points
Beam divergence	As small as possible 0-2 points	< 1mrad 2 points	<2 mrad 1 points
Repetition rate instability	As minimum as possible (not larger than 2 ppm) 0-4 points	<2 ppm 4 points	<2 ppm 4 points
Output power stability	As minimum as possible (not larger than 1 %) 0-4 points	<1% 4 points	< 1% 4 points
Output coupling	Free space	OK	OK
		Total points	Total points
		37	36

Total score (ES+TS)

Toptica 96

Menlo 89

