***Enclosure No.: 1 to Specification of Essentials terms of the public contract (SIWZ)***

**Delivery specification – Three-phase Magnetron modulator**

|  |  |  |
| --- | --- | --- |
| Name, Type, Model, Producer …………………………………….. | | |
|  | Required parameters | Parameters offered |
| Magnetron RF peak power: | Up to 3,1MW |  |
| Type modulator | „Solid state” |  |
| Modulator peak power: | Max. 6,2MW |  |
| Modulator average power: | Max. 8kW |  |
| Pulse voltage | 30-52kV |  |
| Pulse current | 30-120A |  |
| Modulator voltage stability | ≤ 0,4% |  |
| Top flatness | < ± 2% |  |
| Pulse repetition frequency range | 0 - 500Hz |  |
| Pulse lenght | Max. 5us |  |
| Rate of voltage rise | 80-120kV/s |  |
| Control interface | Ethernet |  |
| Possibility of powering the magnetron: | MG6090 E2V Company |  |
| Additional functions | automatic reduction of filament current with an increase in average magnetron power |  |
| Local energy storage for controlled start of magnetron (for example – peaking box) |  |
| High voltage cable – 2m including connectors |  |
| Cooling | Water |  |
| Power supply | 3x400VAC, 50Hz |  |
| Mechanical parameters | | |
| Weight | <150kg |  |
|  | | |
| Miscalllaneus | Factory acceptance test (FAT) certificate |  |
| Operation and serwis manual |  |
| Training for operation and maintenance at FAT |  |