**Requirement Specification for**

**Protective Filters for Sniper Rifle Sights**

1. **Requirements**

**1.1. Description of the requirement**

DALO wishes to acquire a number of optical filters to be used by the Danish Armed Forces on both future and currently in-service sniper sights.

The optical filters are envisioned as add-on accessories that shall primarily prevent the detection of the weapon sight (scope), in a situation where a retro-reflection detection method is used against the operator while using the scope.

The optical filters are additionally envisioned as a method of effective protection against laser beams that could be transmitted through the scope, damaging the scope or hurting the operator’s eye.

It is therefore expected that the optical filters are capable of effective protection in a spectral range as wide as possible, with minimum impact on the visible light transmission. Furthermore, it is expected that the filters can be effectively mounted on different types of optics to minimize logistics and allow for maximum flexibility for the operators.

**1.2. Description and definitions**

The requirement specification, cf. section 1.4, describes all the requirements for the acquisition and consists of six columns with the following information:

|  |  |
| --- | --- |
| "#" | ID number |
| "Requirement" | Requirement description |
| "Classification" | The classification of the requirement as further described in section 1.3 |
| "DALO remarks" | Further information regarding the requirement |
| "Requirement compliance" | The tenderer's indication of compliance (YES or NO) |
| "Tender description" | Requirements regarding the tenderer's compliance description |

**1.3. Classification**

All requirements are mandatory requirements (SHALL) and shall be fulfilled by the tenderer. If just one of the mandatory requirements is not fulfilled, the tenderer's tender will not be taken into further consideration.

**1.4. Requirement and response sheet**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Requirement** | **Classification** | **DALO remarks** | **To be filled out be the tenderer** | | |
| **Requirement compliance**  **(tick a box)** | | **Tenderer's description** |
| **YES** | **NO** |
| 1 | The supplier shall offer 10 pcs. of filters capable of being mounted on sniper scopes from various manufacturers (standard tubular design) with an objective lens diameter of up to (and including) 50mm. | SHALL | Example reference scope:  Schmidt & Bender 3-20x50 PM II. |  |  |  |
| 2 | The supplier shall offer 10 pcs. of filters capable of being mounted on scopes from various manufacturers with an objective lens diameter of up to (and including) 56mm. | SHALL | Example reference scope:  Schmidt & Bender 5-25x56 PM II. |  |  |  |
| 3 | The offered mounting solution shall be tested against and be effective in handling recoil from 12,7mm bolt action sniper rifles. | SHALL |  |  |  |  |
| 4 | The filters shall prevent retro-reflections detectable by field equipment at distances of 200m and more. | SHALL |  |  |  |  |
| 5 | The filters shall be effective in preventing retro-reflections in the VIS, NIR and SWIR wavebands. | SHALL |  |  |  |  |
| 6 | The filters shall provide laser protection corresponding to at least OD2 across 800nm-1600nm waveband with a total VLT of at least 85%. | SHALL |  |  |  |  |
| 7 | The offered filters shall include a fixed flip-up protective cover with the following functionality:   1. Twistable around the optical axis, independently from the filter, (to allow different positioning of the opened cap); 2. when opened, able to flip and remain at least 225 degrees (in relation to the “closed” position). | SHALL |  |  |  |  |
| 8 | The offered filters (filter housings) and covers shall be colored similar to the non-extreme shades of the MultiCam pattern (matte, pale shades of earthy brown or green). | SHALL | Example reference color:  TAN 499 |  |  |  |
| 9 | All of the parts shall be new. | SHALL |  |  |  |  |
| 10 | The delivery time must be less than 185 calendar days from submission of the purchase order. | SHALL |  |  |  |  |