**Requirement Specification – Knee Pads**

1. **Requirements**

**1.1. Description of the requirement**

The Danish Defence has a need for Knee Pads. The Knee Pads are part of the Danish soldier’s personal equipment and are worn outside the combat pant. The combat pant has no arrangement for holding the Knee Pad in place. The Knee Pad issued today has a widely used design with a foam pad with two straps sewn in to one side and a protective shell on the front. The Knee Pads are used for protecting the wearer’s knees when he or she is kneeling down or crawling. The Knee Pads are used in many different environments including urban, dessert and forest. The Knee Pads will be used by conscripts and professional soldiers, men and women for both training and actual military operations. The Knee Pads are expected to withstand tough daily use for minimum one year and shall have the quality and durability in materials and craftsmanship to accomplish this.

**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:

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| --- | --- |
| "#" | 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 offer will not be taken into further consideration.

**1.4. Requirement and response sheet**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Requirement** | **Classification** | **DALO remarks** | **To be filled out by the tenderer** |
| **Requirement compliance****(tick a box)** | **Tenderer's description** |
| **YES** | **NO** |
| **1** | The Knee Pads shall be in a MultiCam compatible colour, not compromising camouflage. | SHALL | By this requirement, DALO mean that the overall impression of the Knee Pad shall be tan, sand, crocodile, green or similar colour tones or a combination. DALO do not consider black a MultiCam compatible colour. However small parts like the buckles, logo or similar small details can be black, as long as it is not interfering with the overall visual impression. |  |  |  |
| **2** | The Knee Pads shall have an adjustable **non** elastic strap that, when the kneepad is worn, sits above the calf and below the knee.  | SHALL |  |  |  |  |
| **3** | The non elastic strap shall be long enough to fit a person with a leg circumference above the calf and below the knee of up to 50 cm.  | SHALL |  |  |  |  |
| **4** | The Knee Pads shall have an adjustable elastic strap that, when the kneepad is worn, sits above the knee.  | SHALL |  |  |  |  |
| **5** | Both straps shall be easily detachable in one side of the Knee Pad. | SHALL | By easily detachable DALO mean that they should be fastened with a lock mechanism that is fast and easy to operate with gloves on. This can be by means of a slide in buckle or similar as seen on many knee pad models from well known brands. |  |  |  |
| **6** | The **main** fastening mechanism shall **not** be hook and loop closure. | SHALL | It is DALO experience that hook and loop closure easily gets filled with grass, mud or similar, making the closure unusable until it is cleaned. The knee Pad can have a hook and loop closure for e.g. avoiding a strap to swing and bounce, but the **main** fastening mechanism shall not be hook and loop closure. |  |  |  |
| **7** | The Knee Pad shall have a flexible protective hard shell of 12-20 cm height x 14 – 17 cm width.  | SHALL | The protective hard shell provides a level of abrasion and penetration resistance. It can be made of different materials like and shall be flexible to provide comfort and fit to the user. The width is understood as the measurement on the widest point of the protective shell. The height is understood as the longest vertical measurement of the protective shell. |  |  |  |
| **8** | The Knee Pad shall have a light reflectance of maximum 50 % in the near infrared (NIR) spectra 700 nm to 1000 nm. | SHALL | By this requirement, DALO mean that the main parts of the Knee Pad e.g. protective shell and retaining straps shall have a NIR reflectance of maximum 50%. However small parts like the buckles, logo or similar small details can have a higher reflectance. |  |  |  |
| **9** | The terms of delivery shall be INCOTERMS 2010 DAP. | SHALL |  |  |  |  |
| **10** | The delivery date shall be within 100 calendar days from order placement. | SHALL |  |  |  |  |