

**ANNEX C**

**SEMI AUTOMATIC SNIPER WEAPON**

**BIPOD**

**TECHNICAL PURCHASE DESCRIPTION**



Prepared by:  
DSSPM 9  
Technical Authority/Life Cycle Material Manager  
National Defence Headquarters  
Major General George R. Pearkes Building  
Ottawa, Ontario  
K1A 0K2

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# 1 INTRODUCTION

## 1.1 Scope

1.1.1 The sniper is required to accurately engage targets out to 600 m with the Semi-Automatic Sniper Weapon (SASW) by day and night under extreme weather conditions. The sniper is often required to take difficult shots at stationary and moving targets of opportunity with fast engagement times. A dependable, precise and easily adjustable rifle bipod will provide the sniper with a stable shooting platform to ensure that the sniper is successful meeting his mission objectives.

1.1.2 This specification details the mandatory requirements to be met by the rifle bipod.

## 1.2 Acronyms

Acronyms	Description
CA	Contracting Authority
in	inch
mm	millimeter
NATO	North Atlantic Treaty Organization
SASW	Semi-Automatic Sniper Weapon
STANAG	Standardization Agreement
TA	Technical Authority
TPD	Technical Purchase Description

# 2 APPLICABLE DOCUMENTS

## 2.1 Applicability

The documents listed in section 2.2 set mandatory standards that apply to and form part of this Technical Purchase Description (TPD). The Contractor is responsible for ensuring that it has obtained the most current version of each document. The version of the below identified documents in effect at the time of Contract execution applies to and forms part of the TPD. All other document references contained elsewhere are to be considered supplemental information only. The Contractor must bring to the attention of the Contracting Authority (CA) all perceived inconsistencies between the TPD and referenced documents. In the event of conflict between the content of this TPD and the referenced documents, the content of this TPD must prevail.

## 2.2 Military Standards

2.2.1 Mil-Std 810G Environmental Engineering Considerations and Laboratory Tests

2.2.2 STANAG 4694 NATO Accessory Rail

### **3 REQUIREMENTS**

#### **3.1 Physical Requirements**

- 3.1.1 The bipod must be delivered with all components necessary to allow the sniper to attach the bipod to the 6 O'clock NATO accessory rail manufactured in accordance with STANAG 4694.
- 3.1.2 The bipod interface to the NATO accessory rail must be secure and remain secure during weapon firing.
- 3.1.3 The bipod must be installed and removed by hand without the use of tools.
- 3.1.4 The bipod must be removable from the NATO accessory rail as a single component including the rail interface mechanism.
- 3.1.5 The ground clearance to the 6 O'clock NATO accessory rail must be less than 160 mm (6.31 in) when the bi-pod legs are fully collapsed and located at the 90° position.
- 3.1.6 The ground clearance to the 6 O'clock NATO accessory rail must be greater than 220 mm (8.66 in) when the bipod legs are fully extended and located at the 90° position.
- 3.1.7 The bi-pod must have 180 degrees ranges of motion front to back and be lockable in at least five (5) positions located at 0°, 45°, 90°, 135° and 180°.
- 3.1.8 The bipod must be stable when locked in all positions.
- 3.1.9 The bipod legs must not bend under the loads of weapon firing and shifting of the sniper's position as he takes aim and tightens his weapon stance.
- 3.1.10 The bipod legs must adjust independently and lock in at least 4 height positions.
- 3.1.11 The bipod must permit transition between bipod leg positions in under 5 seconds.
- 3.1.12 The bipod must pan and cant smoothly without any change in tension once the tension has been adjusted.
- 3.1.13 The bipod must have a total range of at least 25 degrees when canting from left to right and lock in place.
- 3.1.14 The bipod must have a total range of at least 25 degrees when panning and lock in place.
- 3.1.15 The bipod canting and panning must have a means to control and adjust tension.
- 3.1.16 The bipod including interface attachments must weigh less than or equal to 14 ounces (.40 kgs).
- 3.1.17 The bipod must be painted or anodized to prevent surface corrosion.
- 3.1.18 The bipod colour must be in accordance with FED-STD-595C colour 30450 or equivalent colour approved by the Technical Authority (TA) or black.
- 3.1.19 The feet of the bipod must be made of rubber or similar material that prevents movement and reduces shock from weapon fire.
- 3.1.20 The feet of the bipod must be removable and replaceable by the sniper.
- 3.1.21 The bipod must not require operator maintenance beyond cleaning and lubrication.
- 3.1.22 The bipod must function in climatic environments C2 Cold (-46 deg C) and A1 Hot Dry (+ 49 deg C) IAW Mil-Std 810G.

#### **3.2 Alternate feet**

- 3.2.1 The bipod must have alternate feet which provide improved resistance to movement during target surveillance and rifle recoil relative to the standard rubber feet (eg spikes, talon).