

**Section VII. Technical Specifications**

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### **STATEMENT OF COMPLIANCE TO TECHNICAL SPECIFICATIONS**

The bidder must state in the last column opposite each parameter and required specifications either **“Comply”** or **“Not Comply”**. All pages shall be properly signed. Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause above goods manufactured by us.

### **CLARIFICATION AND SETTLEMENT OF CONFLICTING INTERPRETATION OF THE TECHNICAL SPECIFICATIONS**

All clarifications regarding the technical specifications stipulated in this section will be clarified by the members of the **Technical Working Group/PN Project Management Team; FAP Lot2C Sublot-2 (30mm Ammunition)** Circular of Requirements will be referred to. In cases of conflicting interpretations, the nature and purpose of the equipment will be the basis of interpretation. The main basis for technical specifications and requirements is the nature and purpose of the equipment and its intended use as determined by the doctrinal application of the end-users represented herein by the **Project Management Team**.

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**A. CTG 30MM TP-T**

**TECHNICAL SPECIFICATION**  
**CTG 30MM TP-T**

	PARAMETERS	COMPLY/NOT COMPLY
<b>Description:</b>	- The cartridge is fixed type, percussion primed 30mm ammunition. The 30 x 173mm ammunition is used in automatic cannon and is used in target practice. The cartridge is consists of an inert, solid projectile without a fuze. No function takes place except penetration and tracer. The cartridge has a blue painted projectile with white markings. The inert/solid projectile is a three piece assembly consisting of steel body with cavity, rotating band, and aluminum nose piece. The cartridge case is aluminum or steel.	
<b>Weapons Application:</b>	- ASELSAN 30MM SMASH (MK44 Bushmaster II Automatic Canon)	
<b>Technical Data:</b>		
<b>1. Caliber</b>	30 x173mm	
<b>2. Type</b>	Target Practice Tracer (TP-T)	
<b>3. Cartridge Case</b>	Aluminum or Steel	
<b>4. Case Length</b>	173mm ± 0.5mm	
<b>5. Cartridge</b>		
<b>Cartridge Length</b>	290mm ± 0.3mm	
<b>Cartridge Weight</b>	670g ± 5 g (Aluminum) / 840g ± 5 g (Steel)	
<b>Color</b>	Blue painted projectile with white markings	
<b>6. Primer</b>	M36A2 Percussion or its equivalent	
<b>7. Projectile Weight</b>	370g ± 5 g (Aluminum) / 363g ± 5 g (Steel)	
<b>8. Propellant</b>		
<b>Propellant Type</b>	Single Base	
<b>Propellant Weight</b>	153g ± 5 g (Aluminum) / 158g ± 5 g (Steel)	
<b>9. Performance:</b>		
Minimum Effective Range	3,000 Meters	
Muzzle velocity	1080 mps ± 15 (Aluminum) / 1100 mps ± 15 (Steel)	

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Chamber pressure	345MPa (Aluminum) / 380MPa (Steel)	
Dispersion	< 0.5 Milliradians	
<b>10. Linked</b>	Metal Link MK15 or equivalent	
<b>11. Can</b>	Metal- M592 or equivalent	
<b>12. Tracer</b>	Tracer and Igniter	
<b>Packaging:</b>	30 linked cartridge in two (2) 15 round belts packed nose-to-nose with two plastic separators in an M592 ammunition container / can.	
<b>Markings:</b>		
Cartridge Case Head Stamp	- Manufacturer's Code	-
	- Year of manufacture	-
Primary packaging	- Manufacturer's Packaging based on NATO Standard	-
Outer packaging (See attached Illustration/Drawing)	- Standard Nomenclature	-
	- Standard Lot Number (MIL-STD 1168)	-
	- Quantity per pack	-
	- Manufacturer/Country of Origin	-
	- Dimension/Volume	-
	- Gross Weight	-
Other requirements	- Hazard Classification	-
	- Not valid if the product found to have alteration or erasures;	-
	- Palletized(Heavy duty plastic or wood), not higher than 1.5 meters per pallet;	-
	- The product must be sealed in its Original Manufacturer's Packaging;	-
	- Delivered Ctg, 30mm TP-T must not be more than one year from the date of manufacture to delivery;	-
	- Sampling procedures and tables for inspection attributes according to MIL-STD 105E / ISO 2859 Operative;	-
	- Test firing shall be conducted at the contractor's facility and shall present test and evaluation procedures: dimensions; visual inspection; and functional;	-
	- Further, MK44 Bushmaster II Automatic Canon Gun system must be used during the test firing.	-
	- Availability of 2 Rounds 30mm	-

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	TP-T Cut away ammunition for training purposes at no cost to the PN; and - One (1) year minimum warranty;	
	- Foreign bidders must have the necessary valid Indentor's License or License to Operate or Deal in Ammunitions issued by PNP to facilitate the entry of the ammunition and ensure timely delivery.	-

**B. CTG 30MM HEI**

**TECHNICAL SPECIFICATION**  
**CTG 30MM HEI**

	PARAMETERS	COMPLY/NOT COMPLY
<b>Description:</b>	- The cartridge is fixed type, percussion primed 30mm ammunition. The 30 x 173mm ammunition is used in automatic cannon and is used in armor piercing and the main charge detonation produces fragmentation of the projectile body resulting in antipersonnel effects in target vicinity. The cartridge has a yellow painted projectile with black markings. The projectile is a three piece assembly consisting of steel body with cavity, rotating band, and aluminum nose piece. The cartridge case is aluminum or steel.	
<b>Weapons Application:</b>	- ASELSAN 30MM SMASH (MK44 Bushmaster II Automatic Canon)	
<b>Technical Data:</b>		
<b>1. Caliber</b>	30 x173mm	
<b>2. Type</b>	High Explosive Incendiary (HEI)	

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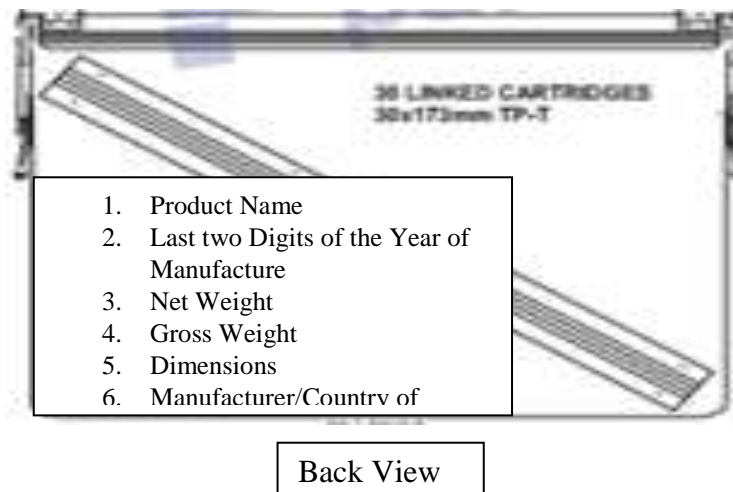
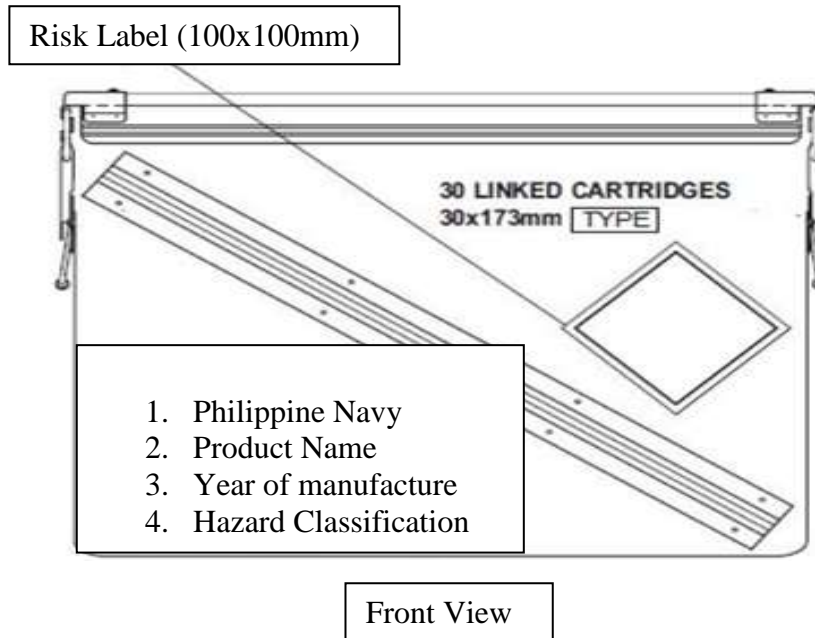
<b>3. Cartridge Case</b>	Aluminum or Steel	
<b>4. Case Length</b>	173mm $\pm$ .5mm	
<b>5. Cartridge</b>		
<b>Cartridge Length</b>	290mm $\pm$ .3mm	
<b>Cartridge Weight</b>	670g $\pm$ 2 grams (Aluminum) / 840g $\pm$ 5 grams (Steel)	
<b>Color</b>	Yellow painted projectile with black markings	
<b>6. Primer</b>	M36A2 Percussion or its equivalent	
<b>7. Projectile Weight</b>	363g $\pm$ 2 grams (Aluminum) / 363g $\pm$ 5 grams (Steel)	
<b>8. Propellant</b>		
<b>Propellant Type</b>	Single Base	
<b>Propellant Weight</b>	147g $\pm$ 3 g (Aluminum) / 158g $\pm$ 5 g (Steel)	
<b>9. Performance:</b>		
Minimum Effective Range	3,000 Meters	
Muzzle velocity	1020 mps $\pm$ 15 (Aluminum) / 1100 mps $\pm$ 15 (Steel)	
Chamber pressure	375MPa (Aluminum) 380MPa (Steel)	
Dispersion	< 0.5 mils	
<b>10. Fuse</b>	Point-Detonating Self-Destroying (PDSB)	
Linked	MK15 or equivalent	
Can	Metal- M592 or equivalent	
<b>Packaging:</b>	30 linked cartridge in two (2) 15 round belts packed nose-to-nose with two plastic separators in an M592 ammunition can.	
<b>Markings:</b>		
Cartridge Case Head Stamp	- Manufacturer's Code	-
	- Year of manufacture	-
Primary packaging	- Manufacturer's Packaging based on NATO Standard	-
Outer packaging (See attached Illustration/Drawing)	- Standard Nomenclature	-
	- Standard Lot Number (MIL- STD 1168)	-
	- Quantity per pack	-
	- Manufacturer/Country of Origin	-
	- Dimension/Volume	-
	- Gross Weight	-
	- Hazard Classification	-

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<p>Other requirements</p>	<ul style="list-style-type: none"> <li>- Not valid if the product found to have alteration or erasures;</li> <li>- Palletized(Heavy duty plastic or wood), not higher than 1.5 meters per pallet;</li> <li>- The product must be sealed in its Original Manufacturer’s Packaging;</li> <li>- Delivered Ctg, 30mm HEI must not be more than one year from the date of manufacture to delivery;</li> <li>- Sampling procedures and tables for inspection attributes according to MIL-STD 105E / ISO 2859 Operative;</li> <li>- Test firing shall be conducted at the contractor’s facility and shall present test and evaluation procedures: dimensions; visual inspection; and functional; Further, MK44 Bushmaster II Automatic Canon Gun system must be used during the test firing.</li> <li>- Availability of 2 Rounds 30mm HEI Cut away ammunition for training purposes at no cost to the PN; and</li> <li>- One (1) year minimum warranty</li> </ul>	<p>-</p>
	<ul style="list-style-type: none"> <li>- Foreign bidders must have the necessary valid Indentor’s License or License to Operate or Deal in Ammunitions issued by PNP to facilitate the entry of the ammunition and ensure timely delivery.</li> </ul>	

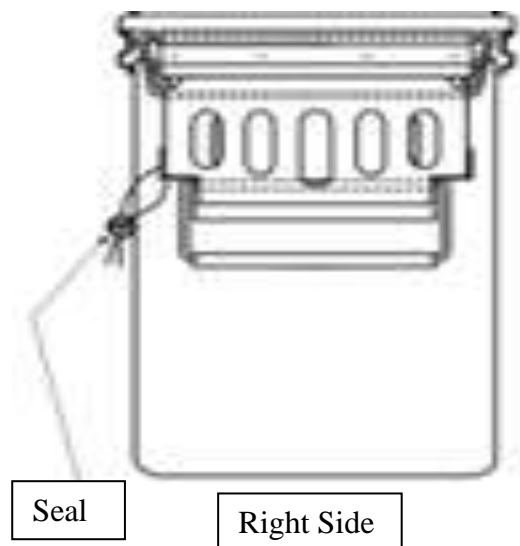
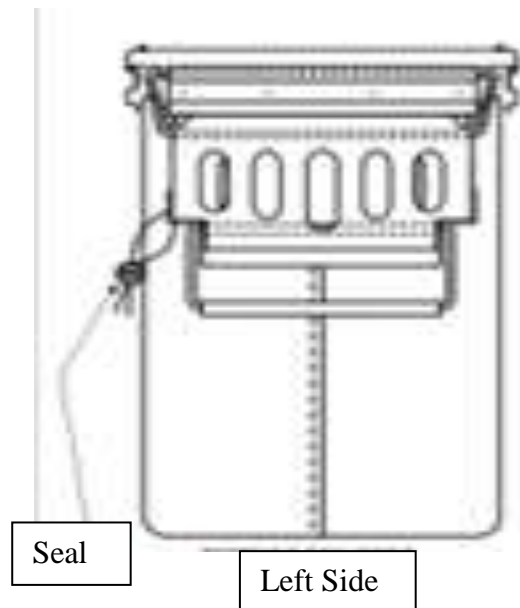
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Outer Packaging Illustration/Drawing:





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