

Section IX. Test and Acceptance Procedure

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TEST AND ACCEPTANCE PROCEDURES FOR SQUAD ROCKET LAUNCHER LIGHT AND THE REQUIRED AMMUNITION (Country of Delivery)

VISUAL/OPERATIONAL/PERFORMANCE TESTS:

SPECIFICATIONS	PARAMETERS	COMPLIED	NOT COMPLIED	REMARKS
a. Caliber	The caliber of Squad Rocket Launcher Light must be 40mm.			
b. Barrel	The barrel must be standard smooth bore. The steel must be 4140 minimum and chrome plated.			
c. Length	The overall length should not be more than 1.0m.			
d. Weight	The overall weight of the Rocket Launcher Light, including the bipod and optic sight, must not be more than 8kg.			
e. Markings	Each RLL should have its own serial number, make, model engraved on the launcher.			
f. Bipod	It must be attachable and detachable to the RLL and its legs must be telescopic.			
Capable of Launching the following ammunitions:	Can fire a variety of warheads for Anti-Personnel, Anti-Tank, Thermobaric, Fragmentation and Tandem Charges.			
Muzzle velocity	The muzzle velocity of the rocket launcher light should be at least 100 m/s			

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Rate of fire	The rocket launcher light should be able to fire at least 4 rds per minute. (sustained)			
Effective range	500 meters			
Maximum range	900 meters			
Trigger Pull	The trigger pull of the rocket launcher light must be adjustable to within the range of 5lbs – 10lbs.			
Area of rearward blast	Maximum distance of thirty (30) meters at a maximum angle of hundred (100) degrees			
Service Life	The Rocket Launcher Light must be able to fire a minimum 1,000 rounds			
Anti-cook-off	Must not cook off when firing 4 rounds in one minute.			
Integrated Individual Accessory, 1 each per weapon	Collapsible bipod (folding and telescopic legs)			
	Optical sight with elevating mechanism			
	Sling			
	Backpack with a capacity of three (3) rounds ammunition. (2 per weapon)			
	Tools for assembling and disassembling the launcher			
Individual Spare parts Tools and Accessories. 1 Set per	Manufacturer's Standard Set Package			

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Weapon				
Individual Spare parts Tools and Accessories. 1 Set for every 9 launchers	Manufacturer's Standard Set Package			
Optical Sight Mechanism				
a. Magnification	At least 2.7x			
b. Field of view	At least 13 Degrees			
c. Range (direct aiming)	500 meters			
OPERATORS MANUAL	Provide operating instructions for the rocket launcher light and unit level preventive and corrective maintenance procedures as applicable. Provide print out and electronic copy. One printed and e-copy each per launcher, sub caliber training device and optical sight in English language			
Painting of Rocket Launcher Light	Painting of all Rocket Launcher Light should be similar to Philippine Marine Corps weapons.			
Marking of Rocket Launcher Light	Each RLL should have its own serial number, make and model engraved on the launcher.			
Packing of Rocket Launcher Light	Manufacturer's Standard			
Packing for Individual SPTA for each Launcher	Manufacturer's Standard			

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Packing for SPTA for every 9 Launchers	Manufacturer's Standard			
Rocket Propelled Grenade, 40mm, High Explosive, Fragmentation, Anti-Personnel				
SPECIFICATION				
Description	Designed to destroy enemy personnel in open terrain, in ditches, behind light fortifications and light shelters.			
Weapons Application	Rocket Launcher Light (40mm)			
Technical Data:				
Dimension and Weight:				
Diameter of Body	40mm			
Round Weight, max	2kgs			
Grenade Weight, max	1.5 kgs			
Grenade Warhead:				
Type	Fragmentation			
Material	Steel			
Filler	High Explosive			
Color	Manufacturer's Standard			
Marking (round)	Nomenclature Lot Number (Indicating Manufacturer's Code, Lot Number, Year of production)			
Type of Filler:				
Fuze	Manufacturer's Standard			
Primer:	Manufacturer's Standard			
Propelling Charge:	Manufacturer's Standard			
Performance:				
Lethal Radius	At least 20 meters			
Maximum Range	900 meters			
Effective Range	150 meters			

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Velocity	At least 100 mps			
Inner Packaging:	Manufacturer's Standard			
Outer Packaging	Philippine Marine Corps, PN, AFP Property Nomenclature Lot Number (Indicating Manufacturer's Code, Lot number, Year of Production) Manufacturer Quantity per Box Weight (N.E.W./Net/Gross) Dimension Hazard Classification Code			
Other Requirements	Product should have no alteration or erasures;			
	Items should be Palletized when delivered			
	Product must be sealed in its Original Manufacturer's Packaging;			
	Product must have been manufactured not more than a year from the date of delivery;			
	Test firing and evaluation procedures shall be conducted in-country during TIA,			
Rocket Propelled Grenade, 40/73 mm, High Explosive, Anti-Tank				
SPECIFICATIONS				
Description	Designed to destroy enemy tanks, gun emplacements, and armored vehicles. May be used also to destroy enemy personnel and heavy weapons in			

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	bunkers, ditches, shelters or behind light-walled defenses.			
Weapons Application:	Rocket Launcher Light (40mm)			
Technical Data:				
Dimension and Weight:				
Diameter of Body	40mm			
Diameter of Warhead (maximum)	100mm			
Round Weight (maximum)	3.0kgs			
Grenade Weight (maximum)	3.0kgs			
Grenade Warhead:				
Type	High Explosive Anti-Tank (HEAT)			
Material	Manufacturer's Standard			
Filler	High Explosive			
Color	Manufacturer's Standard			
Marking (round)	Nomenclature Lot Number (Indicating Manufacturer's Code, Lot Number, Year of production)			
Type of Filler				
Fuze:	Manufacturer's Standard			
Primer:	Manufacturer's Standard			
Propelling Charge:	Manufacturer's Standard			
Performance:				
Armor Penetration	At least 250mm			
Maximum Range	500 meters			
Effective Range	200 meters			
Velocity	At least 100 m/s			
Inner Packaging:	Manufacturer's Standard			

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Outer Packaging	Philippine Marine Corps, PN, AFP Property Nomenclature Lot Number (Indicating Manufacturer's Code, Lot number, Year of Production) Manufacturer Quantity per Box Weight (N.E.W./Net/Gross) Dimension Hazard Classification Code			
Other Requirements	Product should have no alteration or erasures;			
	Items should be Palletized when delivered			
	Product must be sealed in its Original Manufacturer's Packaging;			
	Product must have been manufactured not more than a year from the date of delivery;			
	Test firing and evaluation procedures shall be conducted in-country during TIA,			
Rocket Propelled Grenade, 40/106mm, Thermobaric				
SPECIFICATIONS				
Description	Designed to destroy enemy personnel in the open field, light shelters, behind building walls, concrete bunkers, and light armored vehicles.			
Weapons Application	Rocket Launcher Light (40mm)			

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Technical Data				
Dimension and Weight:				
Diameter of Body	40mm			
Diameter of Warhead (maximum)	110mm			
Round Weight (maximum)	5.0kgs			
Grenade Weight (maximum)	5.0kgs			
Grenade Warhead:				
Type	Thermobaric			
Material	Manufacturer's Standard			
Filler	Thermobaric Composition			
Color	Manufacturer's Standard			
Marking (round)	Nomenclature Lot Number (Indicating Manufacturer's Code, Lot Number, Year of production)			
Type of Filler				
Fuze:	Manufacturer's Standard			
Primer:	Manufacturer's Standard			
Propelling Charge:	Manufacturer's Standard			
Performance:				
Lethal Effect	Combined High Pressure Blast Wave with Thermal Emission (Shock and Heat)			
Maximum Range	900 meters			
Effective Range	150 meters			
Velocity	At least 60 mps			
Inner Packaging	Manufacturer's Standard			
Outer Packaging	Philippine Marine Corps, PN, AFP Property Nomenclature Lot Number (Indicating Manufacturer's Code, Lot number, Year of			

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	Production) Manufacturer Quantity per Box Weight (N.E.W./Net/Gross) Dimension Hazard Classification Code			
Other Requirements	Product should have no alteration or erasures;			
	Items should be Palletized when delivered			
	Product must be sealed in its Original Manufacturer's Packaging;			
	Product must have been manufactured not more than a year from the date of delivery;			
	Test firing and evaluation procedures shall be conducted in-country during TIA,			
SUB-CALIBER TRAINING DEVICE				
SPECIFICATIONS	PARAMETERS			
Description	<p>Designed to provide realistic training to RLL operators by simulating the muzzle velocity of a 40mm rocket ammunition with the use of a tracer bullet that is inserted and fired from its auxiliary barrel.</p> <p>The size, shape and weight of the Sub-Caliber Training Device is comparable to a real 40mm rocket and is</p>			

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	loaded into the muzzle breach of the RLL like a real 40mm rocket ammunition.			
Diameter of the Body	Should be 40mm			
Caliber of the auxiliary barrel	Manufacturer's Standard			
Firing range	At least 300 m			
Dimensions of the training device				
Length	Not more than 1meter			
Weight	Manufacturer's Standard			
Accessories	Operations Manual			
	Record Book			
Spare parts	Manufacturer's Standard			
Packaging	Manufacturer's Standard			
SUB-CALIBER TRAINING DEVICE BULLET				
SPECIFICATIONS	PARAMETERS			
Description	This is any standard tracer bullet that can be loaded into and fired from the delivered Sub-Caliber Training Device.			
Caliber	Should be compatible with the Auxiliary Barrel of the delivered Sub-Caliber Training Device			
Packing	Manufacturer's Standard			
Palletizing	Manufacturer's Standard			
Cartridge Case	Steel			
Bullet	Tracer			
Primer	Manufacturer's Standard			

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Propellant	Manufacturer's Standard			
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ADDITIONAL OPERATIONAL/PERFORMANCE TESTS:

SPECIFICATIONS	PARAMETERS	COMPLIED	NOT COMPLIED	REMARKS
Squad Rocket Launcher Light	The bipod and optical sight must be compatible to the launcher. It must be attachable and detachable to the launcher.			
	The launcher must be stable when placed on a level platform using the bipod.			
	The launcher must be able to fire at least three types of ammunition: HE-AP, HE-AT and Thermobaric.			
	It must be able to hit a 1x1 meter target at a distance of 100m when firing 2 shots each of HE-AP, HE-AT, and Thermobaric ammunitions.			

TEST METHODS FOR SQUAD ROCKET LAUNCHER LIGHT				
No	Number of Tests	Inspection/Test Type	Inspection/ Test Conditions	Requirements Assessment Criteria
1.	100% of the total batch	Visual inspection	Visual inspection of the package appearance	All packages must be undamaged.
			Visual inspection of packaging markings.	All required markings must be readable, legible, and visible.
2.	10% of the batch of launchers and sub-	Visual Inspection	Visual Inspection of the weapon.	The inspected weapons and sub-caliber training devices should have

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	caliber training device			none of the following defects: corrosion, scratch, dents, rough edge, sharp edge.
3.	1% of the batch of launchers, but not less than 1 weapon	Performance and Function Test	<p>The grenade launchers shall be taken to its best firing position with the use stand. It shall fire two (2) each HE-AP, HE-AT and Thermobaric using both iron sight and optical sight..</p> <p>The target will be a 1x1 meter-sized board positioned 100m away from the launcher. It shall have a 35cm diameter black dot in the middle as aiming point.</p> <p>The first firing order shall be with the use of iron sights. One shot each of HE-AP, HE-AT, and Thermobaric.</p> <p>The second firing order will be with the use of the optical sights. One shot each of HE-AP, HE-AT, Thermobaric.</p> <p>All firing will be performed on ambient temperature and with wind velocity not exceeding 5 m/s.</p>	<p>At least one (1) hit on the target.</p> <p>No stoppages during firing.</p>

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4.	20% of the batch of sub-caliber training device	Performance and Function Test	<p>The sub-caliber training device shall be tested with the use of same number of launcher. The launcher with the sub-caliber training device shall be taken to its best firing position with the use stand. It shall fire ten (10) rounds each of the training bullet using both iron sight and optical sight..</p> <p>The target will be a 1x1 meter-sized board positioned 100m away from the launcher. It shall have a 35cm diameter black dot in the middle as aiming point.</p> <p>The first firing order shall be with the use of iron sights. Five (5) rounds each of the training bullet.</p> <p>The second firing order will be with the use of the optical sights. Five (5) rounds each of the training bullet.</p> <p>All firing will be performed on ambient temperature and with wind velocity not exceeding 5 m/s.</p>	<p>At least one (1) hit on the target.</p> <p>No stoppages during firing.</p>
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**TEST AND ACCEPTANCE PROCEDURES FOR THE
SQUAD ROCKET LAUNCHER LIGHT AMMUNITION
(Country of Origin)**

1. The test evaluation of the rocket ammunition shall be in accordance with the Manufacturer's Test and Acceptance Procedure inclusive of its criteria on acceptability and rejection in the form of checklists duly explained by the manufacturer to the procuring entity.
2. The proponents are required to submit their Manufacturer's TAP for this purpose upon SOBE.

**TEST AND ACCEPTANCE PROCEDURES FOR THE
SUB-CALIBER TRAINING DEVICE BULLET (AMMUNITION)
(Country of Origin)**

1. The test evaluation of the sub-caliber training device bullet (ammunition) shall be in accordance with the Manufacturer's Test and Acceptance Procedure inclusive of its criteria on acceptability and rejection in the form of checklists duly explained by the manufacturer to the procuring entity.
2. The proponents are required to submit their Manufacturer's TAP for this purpose upon SOBE.

Name of Company (in print)

Signature of Company Authorized Representative

Name & Designation (in print)

Date