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**HEADQUARTERS
PHILIPPINE ARMY
TECHNICAL WORKING GROUP FOR QUARTERMASTER ITEMS
OFFICE OF THE ARMY QUARTERMASTER
Fort Andres Bonifacio, Metro Manila**

TECHNICAL EVALUATION ON THE SUBMITTED SAMPLE

PROJECT: Supply and Delivery of Brand New 2,031 pcs Military Binocular, Compact, Model 1 for the Philippine Army

SCB:

Number of Samples: One (1) set of Binocular

PHYSICAL INSPECTION CHECKLIST

Note: The inspection will only covers those parameters that can be inspected physically. Other parameters that cannot be evaluated physically and requires laboratory equipment will be indicated as N/C (Not Conducted).

PARAMETERS	MINIMUM REQUIREMENTS	FINDINGS	REMARKS
Material	The housing or chassis materials shall be fabricated with Polycarbonate, Magnesium alloy or Aluminum alloy		
Coating	It shall have a protective robust NBR (Nitrile Butadiene Rubber) armor coating.		
Color	Olive Drab		
Operating Requirements			
Magnification	8x		
Objective Lens Diameter, mm	30 to 42		
Field of View at 1,000 meters	340 ft (104 meters) minimum		
Exit Pupil diameter ,mm	3.0 (minimum)		
Eye relief Distance	11mm to 21mm		
	It shall provide adequate field of view to users wearing eyeglasses and shall have more comfort on observation.		
Mechanical Requirements			
Focusing System	Focusing system of the Binocular shall be Central Focus or an Individual focusing system in the ocular lens.		
Diopter Adjustment	The Binocular shall have a Diopter adjustment for focusing adjustment		
Eyecups	The binocular shall be a Twist-up eyecup or folded down eyecups.		
	It shall be made of silicone with ergonomic design		

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PARAMETERS	MINIMUM REQUIREMENTS	FINDINGS	REMARKS
Interpupillary Distance (IPD)	It shall have a hinge system between two barrels allowing the eyecups and the ocular lenses closer or further apart.		
Optical Requirements	It shall provide brighter, color rich and sharper edges of the periphery. The user shall not experience eyestrain and headaches on prolong use of the binocular.		
	It shall have a complete circular shape of the exit pupil		
Prism	Porro		
Glass type	BAK – 4		
Refractive Index	1.55 (minimum)		
Optical Coatings	Shall be fully-multi coated anti-reflections coating both inner and outer surfaces of the lenses		
	It shall provide vivid, brighter and sharper images.		
	The images shall show no sign of “ghost images” of bright objects, dim picture, washed-out image and poor observing experience.		
Shockproofness	Shall withstand the shocks and jars without damage, no derangement of any of the parts and functions and impairment of its adjustments beyond acceptable limits.		
Waterproof	The binocular shall be capable of being submerged into water at certain depth in specified time limits where it will not damage or adversely affect performance of the binocular directly or indirectly		
Fogproof	It shall be sealed with O-ring and purged with nitrogen or argon gas		
	It shall show no sign of fogging on the lens after a complete immersion in water.		
Low and High Temperature	The Binocular shall show no sign of glass breakage or other physical failure and shall meet all requirements after having been exposed to a required minimum low temperature and a minimum required high temperature.		
	It shall deliver consistently sharp, clear and fog-free images after exposure on the required temperature.		
Corrosion Resistant	The binocular shall show no evidence of corrosion that will damage or adversely affect performance of the binocular directly or indirectly after undergoing a simulated seawater environment prescribed in the test procedure.		

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PARAMETERS	MINIMUM REQUIREMENTS	FINDINGS	REMARKS
Size Requirements			
Dimension (H x W x L)	11.5 ± 1.5 cm x 17.5 ± 1.5 cm x 6.5 ± 1.5 cm		
Weight, g	680 (maximum)		
Accessories			
Carrying Case	It shall be provided with an olive drab soft carrying case		
	It shall have sliding shoulder pad and can be adjusted for length with the buckles. The back side of the case shall have a loop that enables the case to attach to the hip		
	The lid that folds over the top of the case is closed with a plastic quick release buckle which can be adjusted for length.		
	It shall have a single elasticated pocket as placement of few small items.		
	The binocular shall fit perfectly to the bag and shall be easy to close the lid with all lens cover attached to the binocular.		
Rain Guards	The binocular shall have a soft rubber rain guard as cover of the ocular lens		
	The rain guard shall have flexible bridge in between the two cups which takes up the slack and can fix to the eyecups regardless of the IPD setting		
	It shall have two loops (one on each cup) for attachment to the neck strap.		
Lens Cover	The binocular shall have objective lens cover		
	It shall be soft rubber or plastic objective lens cover on tethered caps that loops over the objective end of the tubular barrel or attached to the central pivot of a binocular.		
Neck Strap/Harness	Shall have a neck strap/harness attachment.		
	The strap shall have slider plastic buckle that enables to adjust the length of the strap.		
	It shall be attach/connect to the binocular by a quick release buckle.		

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PARAMETERS	MINIMUM REQUIREMENTS	FINDINGS	REMARKS
	The color shall be similar to the exterior body of the binocular.		
Cleaning Kit	The binocular shall be provided with a cleaning kit.		
	The cleaning kit shall consist with a minimum of lens cleaning brush, lens cleaning solution and a microfiber cleaning cloth.		
Instructions and Warranty Information	Shall have an Instruction and warranty information		
	The manual shall contain all the basic information/instruction needed, which includes but not limited to the parts of the binocular, instructions for use, setting the diopter, focusing, eyecup adjustment, cleaning as well as care and storage.		
Special Features			
Mil-dot Reticle	The binocular shall include a built-in horizontal and vertical scale reticle.		Failed
Construction and Design			
	The objective lens shall be well protected by a protruding body that shield from potential scratching, rain and dust.		
Serial Number	The binocular shall have serial number that is permanent and visible on the item.		
Hinges	The hinges of the binoculars shall be so designed as to permit the adjustment of the interocular distance.		
	It shall be fitted and adjusted with sufficient tightness, and the hinge lubricant shall be of such consistency that the interpupillary distance shall be maintained.		
Eyepiece	Shall be of rotating focusing type and shall be capable of being focused independently.		
Focusing system	The focus system shall be adjusted only once to each user's individual acuity.		
Workmanship	Shall be well-finished, well cleaned and free from any defects which may affect the serviceability, appearance of the finished item		
	The binocular shall be free from foreign particle or dust on the inside part of the binocular that affect the observation of the user.		

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