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HEADQUARTERS  
PHILIPPINE ARMY  
OFFICE OF THE ARMY CHIEF QUARTERMASTER  
Fort Andres Bonifacio, Metro Manila

PA SPECIFICATION

QM SPEC NR IC - 21BWBDUB

OCT 22 2019

(INTERIM)

**BELT, WAIST FOR BATTLE DRESS UNIFORM (BDU) WITH BUCKLE**

**1. GENERAL**

1.1. Scope – This specification covers one (1) type of Belt, Waist for BDU with Buckle for use of military personnel of the Philippine Army.

1.2. Grade – The finished Belt, Waist for BDU with Buckle shall conform with the quality and grade of product prescribed by this specification.

1.3. Size – The sizes of Belt, Waist for BDU with Buckle shall be of one (1) size only, the dimension of which are shown in the attached illustration.

**2. REQUIREMENTS**

2.1. First Article –The contractor/manufacturer shall submit two (2) finished sample of Belt, Waist with Buckle to the Chief Army Quartermaster for inspection and approval against the bid sample prior to mass production.

**2.2. Materials**

**2.2.1. Belt, Waist**

2.2.1.1. Basic Material – The Belt, Waist shall be made of nylon webbing, olive drab in color with the length not less than 130 cm and a width of  $4.0 \pm 0.2$  cm and shall conform to the following requirements:

Yarn Size, Denier

Warp (Average of 3 warp yarns)	-	1,030 – 1,050
Filling	- - -	390 - 410

Thread Count/254 cm

Warp (Total of 3 warp yarns)	-	400 - 420
Filling	- - -	40 – 55

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No. of ply (minimum)					
Warp					
Type 1	-	-	-	-	4 ply
Type 2	-	-	-	-	2 ply
Type 3	-	-	-	-	1 ply
Filling	-	-	-	-	1 ply
Weight, g/lin. m.	-	-	-	-	50 (maximum)
Thickness, mm	-	-	-	-	1.30 ± 0.10
Tensile Strength, kg	-	-	-	-	900 (minimum)
Type of Weave	-	-	-	-	Plain Double
Color Quality (Color Difference)	-	-	-	-	1.5 (maximum)

2.1.1 Buckle

2.1.1.1 Basic Material – The Buckle shall be a rectangular frame with fixed brace and movable lock pin at the center, made of alloy, in black chemical finish, 70.0 ± 5.0 grams in weight, with the dimensions as shown in Figure 2:

2.3 Construction

2.3.1 Belt, Waist – One end of the belt shall be attached permanently to the brace of the buckle by means of sewing and the other end shall be heat treated to prevent the threads to unravel.

2.3.2 Buckle Frame – Formed with brace and movable lock pin with teeth at the center as shown in Figure 2.

2.3.3 Slider - The slider shall be cut from same basic material of the belt sewed to form a loop and can be moved along the length of the belt as shown in Figure 2.

2.4 Workmanship

2.4.1 Design - The Belt, Waist with Buckle for BDU shall be of the design essentially the same as shown in Figure 3 and the Official sample of the Philippine Army.

2.4.2 Finish – The Belt, Waist with Buckle for BDU shall be well-finished, well cleaned and free from any defect which may affect the serviceability, appearance and color of the finished item.

2.4.3 “ARMY” Marking – Shall be incorporated into the belt waist through design of the weaving, Stencil font, size 126 - 132 as shown in Figure 1 and 3.

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2.4.4 Contractor's Label – The name of Contractor shall be engraved on the front side of the buckle as illustrated in Figure 1, Arial font size 10 (maximum).

### 3. VERIFICATION

3.1 First Article Inspection- The two (2) samples of the finished Belt including materials and components submitted in para 2.1 shall be subjected to first article inspection by Philippine Army representative/agency. The samples shall be subjected to tests and examination to verify if the requirements in para 2.2 through 2.4 are satisfied with reference to the attached test parameters.

3.2. Sampling - Samples of finished Belt, Waist for BDU with Buckle shall be taken at random during acceptance and shall be subjected to test evaluation at authorized agency/facility. In-process inspection shall be conducted when stipulated in the contract for the purpose of examination to determine compliance with the requirements of the specification and immediate correction on the overall workmanship can be conducted.

### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection – Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. The Government/ Philippine Army thru OACQM, PA reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Responsibility for Compliance – All items must meet all requirements of sections 2 and 3. The inspection set forth in this document shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the document shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government/ Philippine Army to acceptance of defective material.

4.3 Samples – The sample of Belt, Waist for BDU with Buckle shall be submitted for testing in accordance to the test procedure set forth by the Philippine Army to determine the extent of compliance with this specification insofar as quality of materials used is concerned.

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## 5. PACKAGING AND PACKING

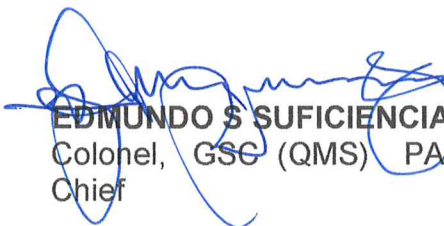
5.1 Packaging – One (1) piece of Belt, Waist with Buckle for BDU shall be properly placed in a resealable plastic bag.

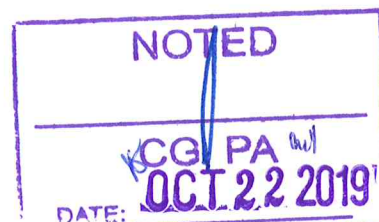
5.2 Packing — Eighty (80) pieces of Belt, Waist with Buckle for BDU shall be packed in a corrugated carton. The top cover when closed shall be sealed with binding tape and secured with straps. The box shall be labeled as follows:

BELT, WAIST FOR BDU WITH BUCKLE  
QM SPEC NR IC-21 BWBDU  
Name of Manufacturer  
Quantity: \_\_\_\_\_

## 6. NOTES

Any point not covered by this text shall be governed by the attached illustration which shall be followed in every detail.

  
EDMUNDO S SUFICIENCIA  
Colonel, GSC (QMS) PA  
Chief



BELT, WAIST FOR BATTLE DRESS UNIFORM (BDU) WITH BUCKLE

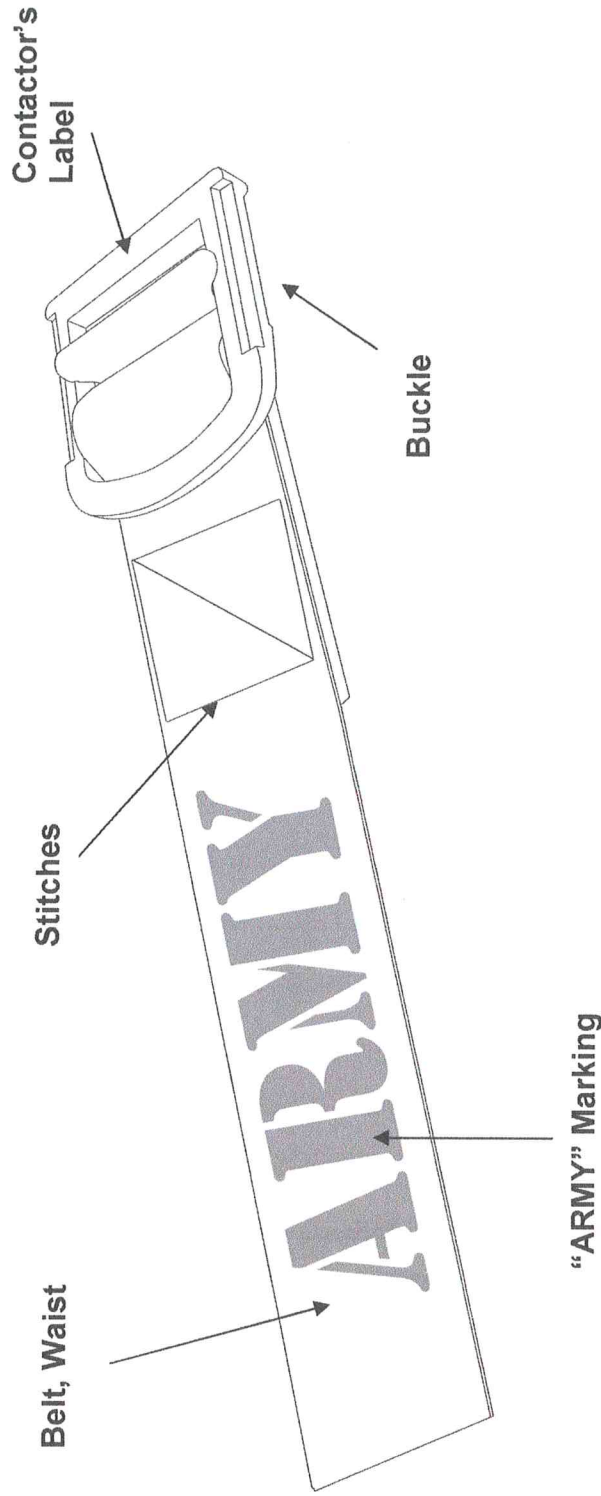


Figure 1

BELT, WAIST FOR BATTLE DRESS UNIFORM (BDU) WITH BUCKLE

Buckle (Parts and Dimensions)

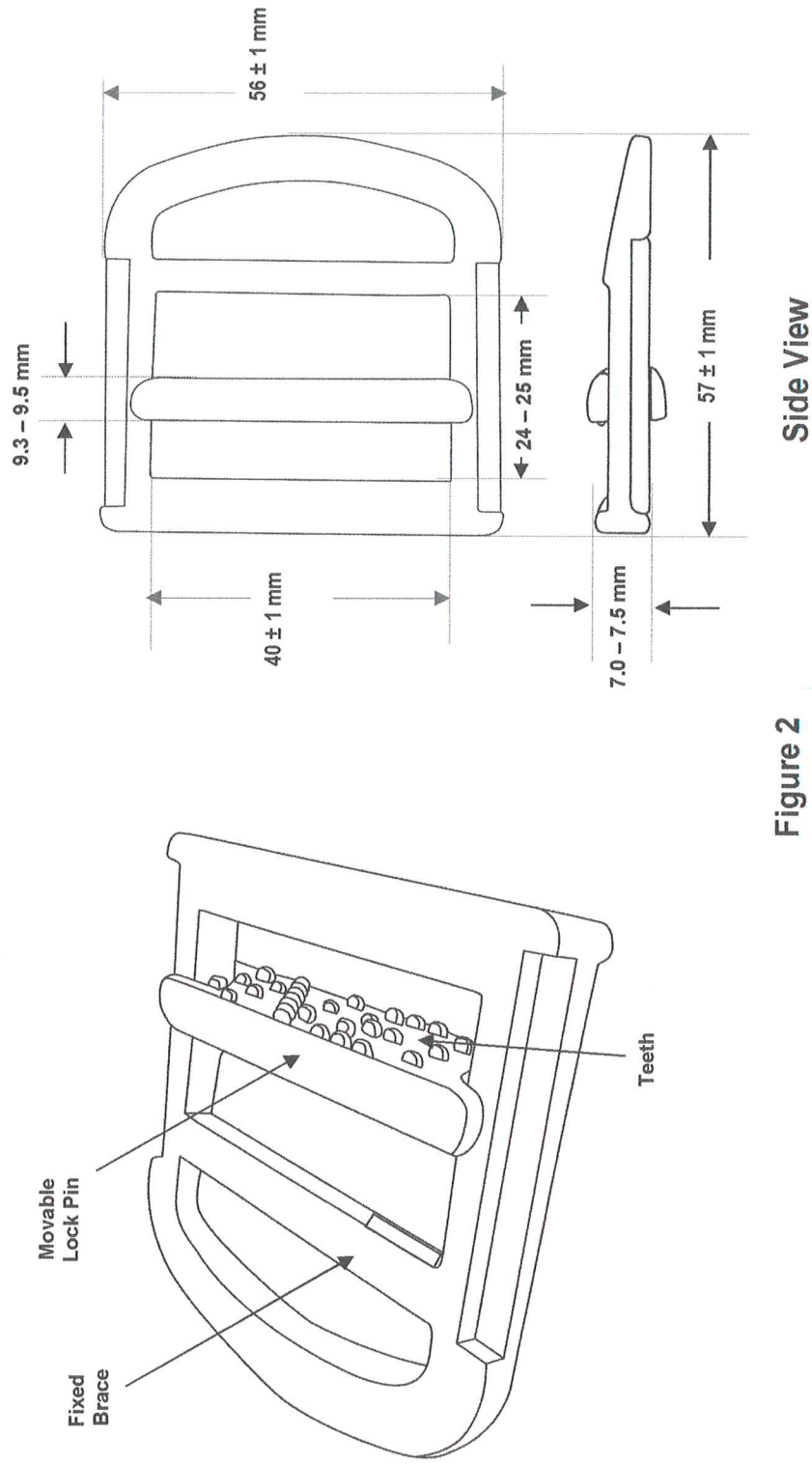


Figure 2

BELT, WAIST FOR BATTLE DRESS UNIFORM (BDU) WITH BUCKLE

(Actual Picture)

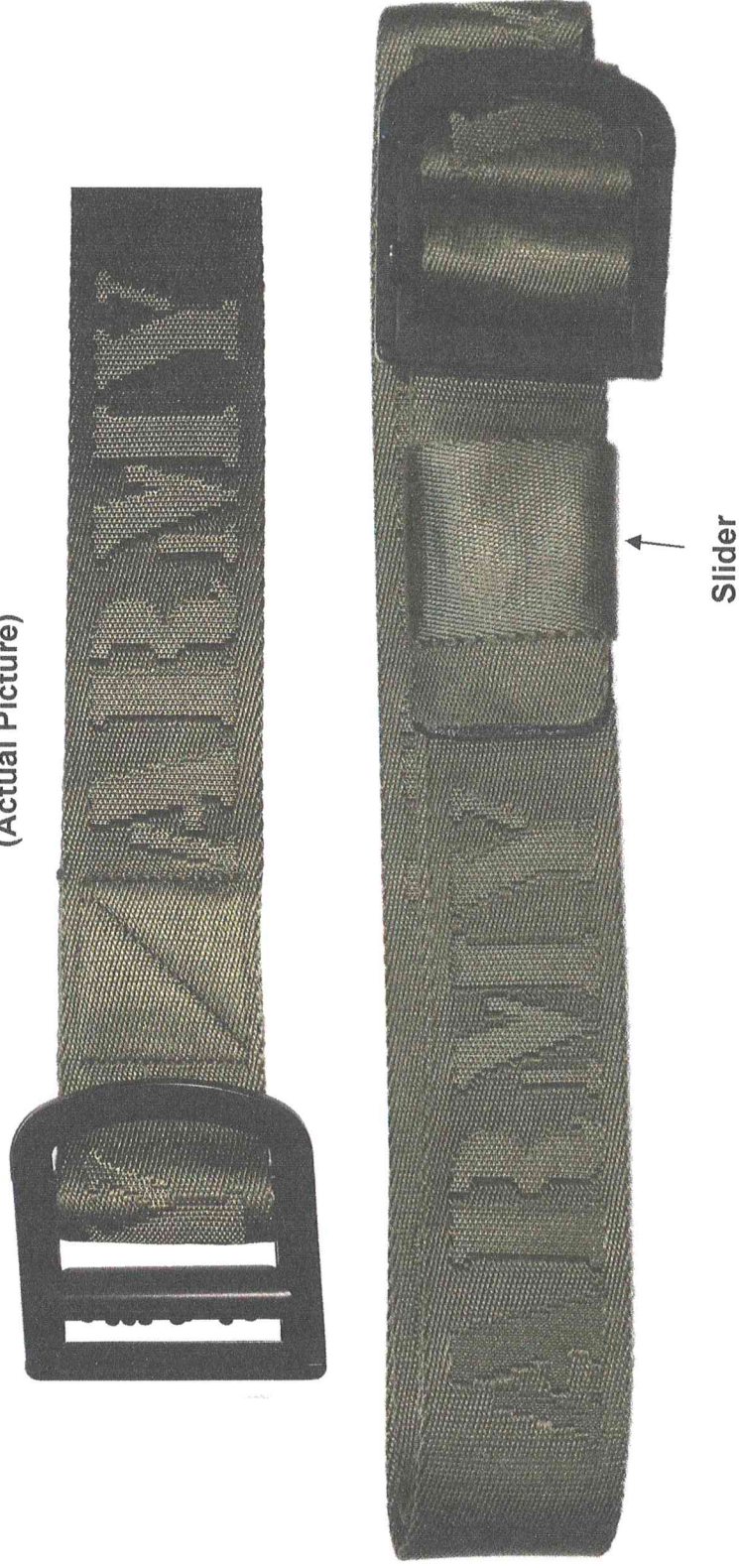


Figure 3

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TEST PARAMETERS

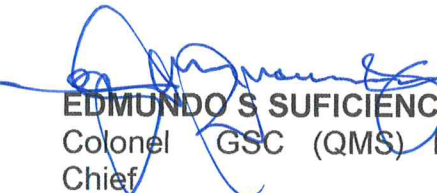
BELT, WAIST FOR BDU WITH BUCKLE

TEST PARAMETERS	QM SPEC NR IC-21BWBDUB dated 22 October 2019	Classification	
		Major	Minor
<b>Measurement, cm</b>			
Length	130 (min)	x	
Width	4.0 ± 0.2	x	
<b>Basic Material</b>	Nylon Webbing	x	
Yarn Size, Denier			
Warp (average of 3 warp yarns)	1,030 – 1,050		x
Filling	390 - 410		x
Thread Count/2.54 cm			
Warp (Total of 3 warp yarns)	400 – 420		x
Filling	40 - 55		x
No. of ply			x
Warp			x
Type 1	4 ply (minimum)		x
Type 2	2 ply (minimum)		x
Type 3	1 ply (minimum)		x
Filling	1 ply (minimum)		x
Weight, g/lin.m	50 (maximum)		x
Tensile Strength, kg	900 (minimum)	x	
Thickness, mm	1.30 ± 0.2		x
Type of Weave	Plain Double		x
Color Quality (Color Difference)	1.5 (maximum) Spectrophotometric Method	x	
Buckle	Alloy	x	
	Shall be a rectangular frame with fixed brace and movable lock pin at the center		x
Color	Black Chemical Finish	x	
Weight, gm	70.0 ± 5.0		x
<b>Construction</b>			
Belt, Waist	One end of the belt shall be attached permanently to the brace of the buckle by means of sewing		x
	The other end shall be heat treated to prevent the threads to unravel		x
Buckle Frame	Formed with brace and movable lock pin with teeth at the center	x	
Slider	shall be cut from same basic material of the belt sewed to form a loop and can be moved		x



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TEST PARAMETERS	along the length of the belt QM SPEC NR IC-21BWBDUB dated 22 October 2019	Classification	
		Major	Minor
<b>Workmanship</b>			
Design	Shall be essentially the same as shown in Figure 3	x	
Army Markings	Shall be incorporated into the belt waist through design of the weaving	x	
Font	Stencil Font		x
Size	126 - 132		x
Contractor's Label	shall be engraved on the front side of the buckle		x
<b>TOTAL TEST POINTS</b>		<b>10</b>	<b>21</b>

  
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**BELT, WAIST FOR BDU WITH BUCKLE**

**TEST CRITERIA**

**FOR POST-QUALIFICATION TEST:**

Destructive Testing Criteria based on Logistic Letter Directive Number SC-07-04 dtd 25 October 2007 para 5f.

TOTAL MINOR TEST POINTS	NO. OF ALLOWABLE DEFECTS	
	MAJOR	MINOR
21	0	2

1. No major defect allowed.
2. Maximum allowable minor defect is nine & 9/10 percent (9.9%) of total minor test points **"CONDUCTED"**

**FOR ACCEPTANCE TEST:**

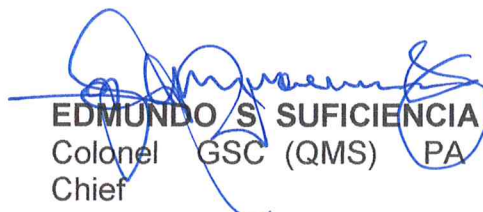
- I. Visual Inspection Criteria based on Mil Std 105E dtd 10 May 1989
  - All defects noted in 1<sup>st</sup> and 2<sup>nd</sup> sampling are cumulative.
  - In case of rejection, destructive testing will not be conducted

Classification of Defects	TABLE III-A General Inspection Level I Code Letter J Double Sampling Plan for Normal Inspection				
	Lot size 3,201 – 10,000 pcs Sample Size: 50 pcs + 50 pcs	Number of Defects			
		1 <sup>st</sup> Sampling		2 <sup>nd</sup> Sampling	
	AQL	Accept	Reject	Accept	Reject
MAJOR	6.5	5	9	12	13
MINOR	25	11	16	26	27

- II. Destructive Testing Criteria based on Logistic Letter Directive Number SC-07-04 dtd 25 October 2007 para 5f.

TOTAL MINOR TEST POINTS	NO. OF ALLOWABLE DEFECTS	
	MAJOR	MINOR
21	0	2

1. No major defect allowed.
2. Maximum allowable minor defect is nine & 9/10 percent (9.9%) of total minor test points **"CONDUCTED"**

  
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**VISUAL INSPECTION CHECKLIST**

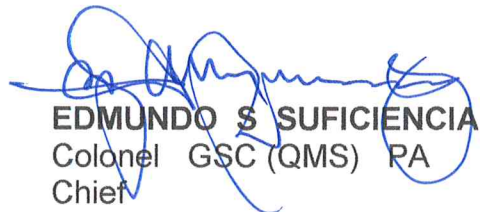
**BELT, WAIST FOR BDU WITH BUCKLE**

Supplier: \_\_\_\_\_

Lot Size : \_\_\_\_\_

Sample Size: \_\_\_\_\_

DESCRIPTION OF DEFECTS	CLASSIFICATION OF DEFECTS
1. Packing and Packaging	
a. Each belt individually wrap in a re-sealable plastic bag	Major
b. Eighty (80) pcs of belt shall be packed in a corrugated carton..	Minor
c. Quantity not as specified in the carton label	Minor
d. Contents of carton label not as specified.	Minor
2. Belt not OD in color	Major
3. Buckle not Black in Color	Major
4. Any component part missing:	
a. Slider	Major
b. Lock Pin	Major
c. Contractor's Label	Major
5. Loose sewing/Untrimmed thread ends	Minor
6. Presence of dirt, stains and other defects:	
a. Affecting appearance	Major
b. Does not affect appearance	Minor

  
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**BELT, WAIST FOR BDU WITH BUCKLE**

**LIST OF REQUIRED PROTOTYPE SAMPLES AND SWATCH MATERIALS FOR TESTING**

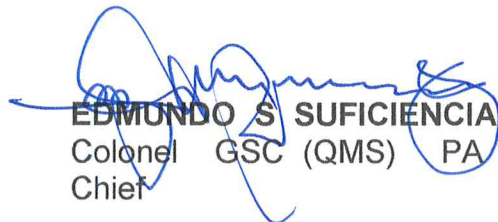
1. **FOR POST QUALIFICATION TEST**

PROTOTYPE SAMPLES

Four (4) pcs of belt

2. **FOR ACCEPTANCE TEST**

Three (3) pcs - Picked at random from delivery

  
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