



SPECIFICATION OF UNIFORM
ARTICLES FOR THE FINANCIAL
YEAR 2016-17

SPECIFICATION FOR TROUSER (K.D. CLOTH) FOR SINDH POLICE

S. No.	TEST	SPECIFICATION
1.	Colour of cloth	Khaki
2	Count of yarn with composition	
	Warp count with composition	33.17 tex \pm 3% (55% Polyester & 45% Cotton)
	Weft count with composition	33.17 Tex \pm 3% 55% Polyester & 45% Cotton)
3.	Ends per inch	140 \pm 3%
4.	Picks per inch	64 \pm 3%
5.	Composition	
	a) Polyester	55% \pm 3%
	b) Cotton	45% \pm 3%
6.	Weave	Twill 3/1
7.	Scouring loss	1.3% maximum
8.	Weight/Sq. Meter	265 Gsm \pm 5%
9.	Shrinkage	
	Warp	3% maximum
	Weft	3% maximum
10.	Breaking strength (10.2x16.8 cm B.G)	
	Warp	340 Kgs \pm 3%
	Weft	145 Kgs \pm 3%
11.	Nature of Dye	
	a) Polyester	Disperse
	b) Cotton	Vat
12.	Washing test	
	No.3 (PS-1337/C)	
	a) Change in Shade	GS No.4
	b) Change on cotton	GS No.4
13.	Rubbing Fastness (Crock Meter Test)	
	a) Dry Rubbing	GS No. 4
	b) Wet Rubbing	GS No. 3/4
14.	Light Fastness	
	(Fede-o-meter, 16 Hrs)	GS 4 Maximum

SPECIFICATION
TROUSER'S MEN'S Drill Khaki

- a. All measurements are in inches.
 - b. Tolerance $\pm 3\%$
1. **Pattern.** Trousers with 1.5" wide belt duly re-enforced with paper fusing having sewn 2 pleat at front on each side and dot sewn at back on each trouser shall be with three points belt loops fastened with visible buttons, two side pockets of 7" opening wide, cut pocket at hip with deep jetted to button through loop with place khaki urea color button, size of fly should not be less than 8" in length. Belt should be in 2 pieces with adjustable allowance 1.5 both side.
 2. **Belt Loops.** Pattern of belt loops should be as per approved sample.
 3. Buttons should be inserted instead Zip.
 4. Seem at inner back rise should be doubled.
 5. **Packing:** The store when ordered to be delivered "Packed" shall be packed as under.

Each set (shirt/Trouser) shall be properly folded and place in polythene of suitable size, the mouth of bag shall be sealed with transparent tape.

- c. Ten (10) (Shirt/Trouser) such bags shall be packed in carton corrugated 7 ply board
 - d. Each carton shall contain one size only.
6. **Size.** As per sizes given below.

MEASUREMENT STITCHED TROUSER

<u>Trouser Waist</u>	<u>Trouser Length</u>
<u>29</u>	<u>40</u>
<u>31</u>	<u>41</u>
<u>33</u>	<u>42</u>
<u>35</u>	<u>42</u>
<u>37</u>	<u>42</u>
<u>39</u>	<u>43</u>
<u>41</u>	<u>43</u>
<u>43</u>	<u>44</u>
<u>45</u>	<u>44</u>
<u>47</u>	<u>44</u>
<u>49</u>	<u>44</u>

SEWING THREAD

Balance of twist	50/3 Color according to matching fabric
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PAPER FUSING**SIZE & CARE LABEL**

Wt/sq mtr	65 + 5 gm
Material	100% polyester
Size	As per requirement
Color	White
Weave	Plain

BUTTONS KHAKI #24-L

MATERIAL	UREA MATERIAL
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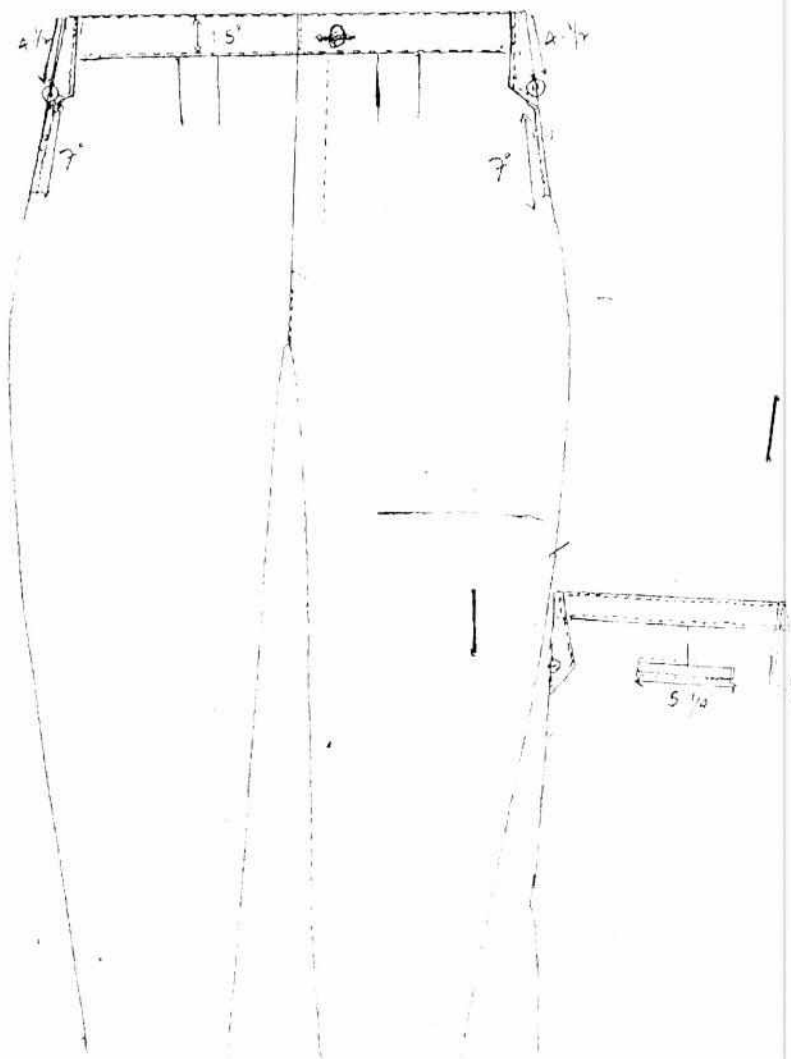
POLYTHENE BAG TRANSPARENT (TROUSER / SHIRT)

MATERIAL	POLYTHENE
THICKNESS	0.127mm + 0.02
SIZE	SUITABLE SIZE

TRANSPARENT ADESIVE TAPE 10CM (TROUSER/SHIRT)**TRANSPARENT ADHESIVE TAPE 2.5CM****CORRUGATED CARD BOARD 7 PLY (TROUSER/SHIRT)**

3

Sindh Police Pant



Handwritten signature or initials

SPECIFICATION FOR SHIRT (MAZRI CLOTH) FOR SINDH POLICE

S. No.	TEST	TEST METHOD	SPECIFICATION
1	Warp count with composition	ASTM-D 1059	18s \pm 5% (80% Cotton & 20% Polyester)
2	Weft Count with composition	ASTM-D 1059	18s \pm 5% (80% Cotton & 20% Polyester)
3	Ends / Inch	ASTM-D 3775	84 \pm 3%
4	Picks / Inch	ASTM-D 3775	52 \pm 3%
5	Weight/Sq Meter (Gram)	ASTM-D 3776	175 \pm 5%
6	Weave		Cellular
7	Composition i) Cotton ii) Polyester	ATICC 20.20A	80% \pm 3% 20% \pm 3%
8	Nature of Dye		Disperse + Vat
9	Shrinkage in Warp/Weft		\pm 3% Maximum
10	Smoothness Appearance	ATICC 124	3 (Minimum)
11	Pilling NU Martindale	ASTM-D4970 (1000 Cycle)	3-4 (Minimum)
12	Colour Fastness to washing i) Change in shade ii) Staining on cotton	ATICC 61-3A	4 (Minimum) 4 (Minimum)
13	Colour fastness to Rubbing i) Dry ii) Wet	ATICC 8 71 Dr for 42 mm Ts	4 (Minimum) 2-3 (Minimum)
14	Colour Fastness to light (24 Hours)	ATCC 16E	4 (Minimum)
15	Colour Fastness to perspiration i) Change in shade ii) Staining on cotton	ATICC 15	4 (Minimum)

SPECIFICATION

SHIRT MEN'S CELLULAR MERCERIZED (MAZRI SHIRT)

- a. All measurements are in inches.
 - b. Tolerance $\pm 3\%$
1. **Collar.** Two piece collars should be sued for shirt collar point should be 3", Collar height 1.5".
 2. **Shoulder Strap.** Length of shoulder strap should be up to 7" inch and for collar 4" are follows
7^{1/2} inches sample.
 3. **Cuffs.** Arms Cuffs should be in Square Instead of round shape. Height 2.5-4 and
with are as follows

S.M.L.

XL,XXL,XXXL

4. **FLAPS** Width 5.1/4 Height from center 2.3/4 (Sindh Police Pattern).
5. **Pockets** Box pleat pockets from end should be rounded. Width 5.1/4" Length 5.1/4
6. **Pocket measurement with Flap** Length 5.3/4 Width 5./14
7. **Stitching** 9-11 Stitches per inch.
8. **Stitching thread / sewing thread,** sufficiently strong with excellent dye fastness is required to be used for throughout stitching / sewing.

Size. As per sizes given below.

MEASUREMENT STITCHED MAZRI SHIRT

MAZRI SHIRT				
Collar	Length	Shoulder	Chest	Sleeve
14	28	16 1/2	39	23
14 1/2	28	17 1/2	41	24
15 1/2	29	18 1/2	44	24
16 1/2	30	19	46	24 1/2
16 1/2	30	19	46	25
17	30	20	46	25
17 1/2	30	20	48	25 1/2
18	30	21	52	26
18	31	22	54	26
18	32	22	54	26
18	32	22	56	26

SEWING THREAD

Balance of twist	50/3 Color according to matching fabric
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PAPER FUSING**SIZE & CARE LABEL**

Wt/sq mtr	65 + 5 gm
Material	100% polyester
Size	As per requirement
Color	White
Weave	Plain

BUTTONS KHAKI #24-L

MATERIAL	UREA MATERIAL
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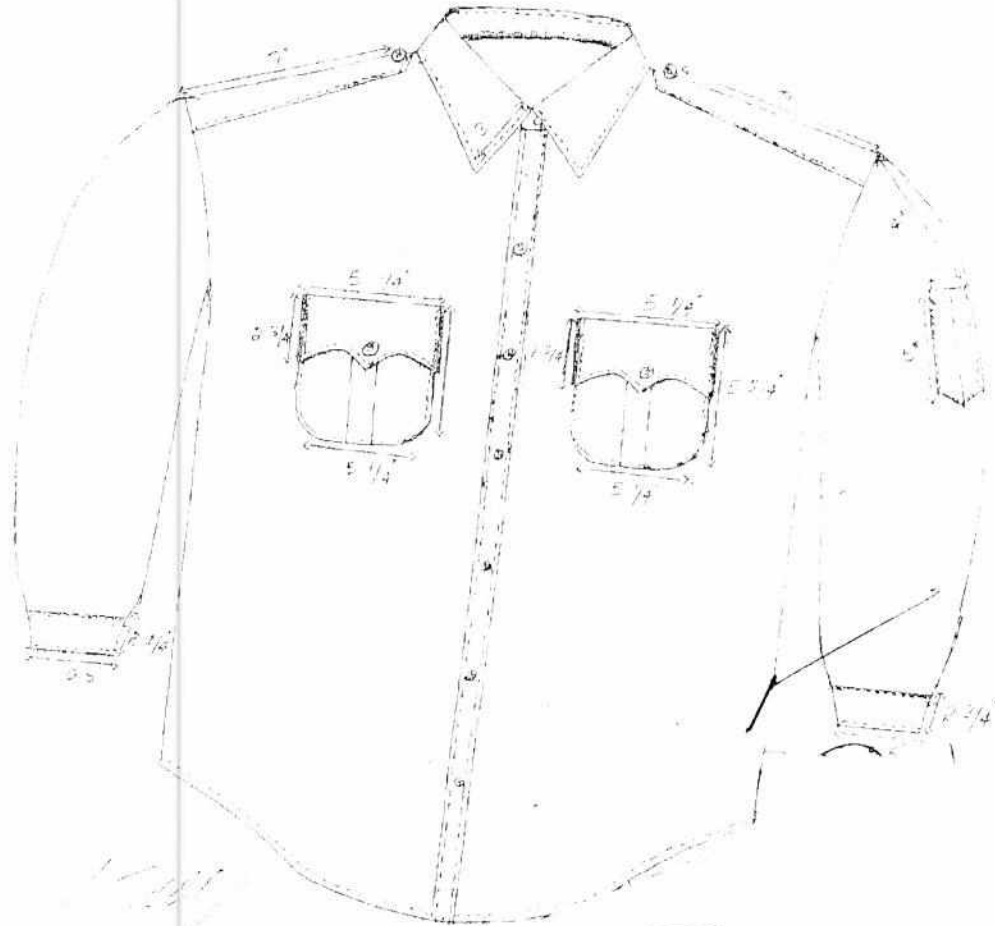
POLYTHENE BAG TRANSPARENT (TROUSER / SHIRT)

MATERIAL	POLYTHENE
THICKNESS	0.127mm + 0.027
SIZE	SUITABLE SIZE

TRANSPARENT ADESIVE TAPE 10CM (TROUSER/SHIRT)**TRANSPARENT ADHESIVE TAPE 2.5CM****CORRUGATED CARD BOARD 7 PLY (TROUSER/SHIRT)**

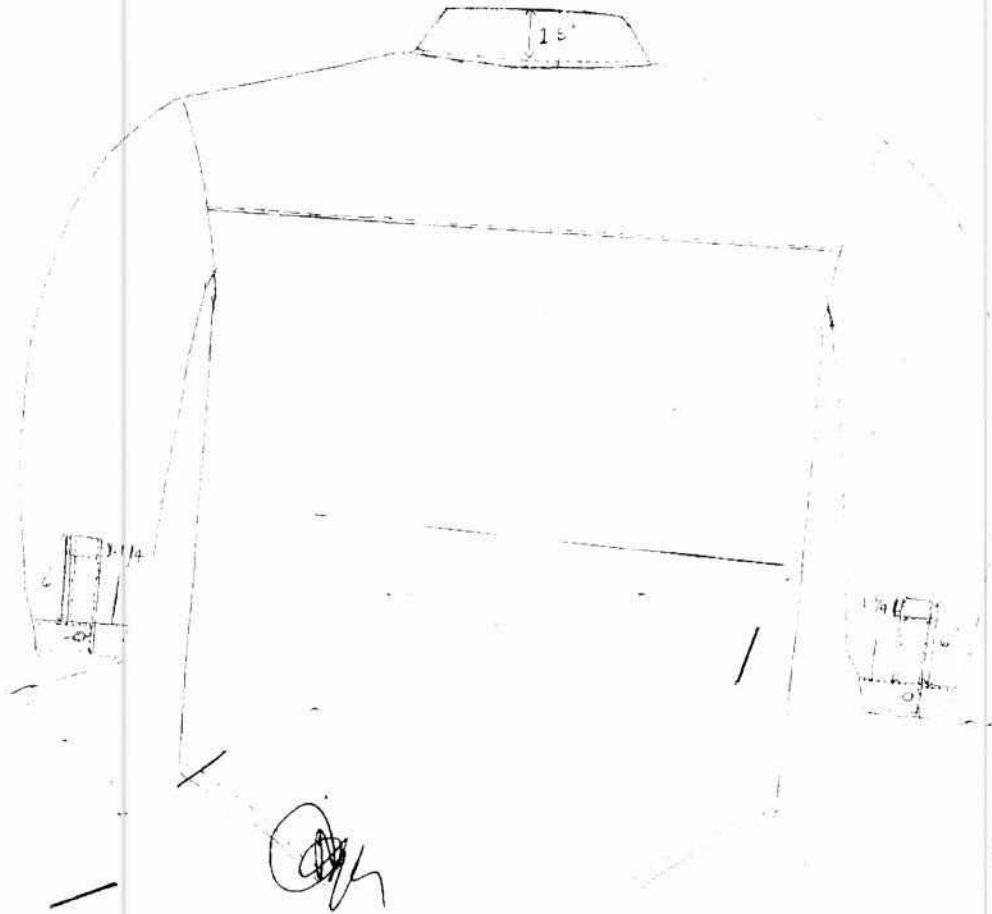
Sindh Police Shirt

Front



4
Sinh Police Short

Back



PROPOSED SPECIFICATIONS OF DMS BOOT BLACK PANAMA SOLE FOR SINDH POLICE

DESIGN	Derby style combat boot in Black Zuggrain Leather with plain toecap 3 eyelets. 5 hooks V cut with polyurethane sole.
MATERIAL	The boot shall be manufactured from following materials.
<u>COMPONENT /PARTS</u>	<u>MATERIAL</u>
Sole	Double density PU
Shank	Mild Steel (length 4" inch)
Binding Adhesive	PU (Graft Adhesive)
Insole	Non woven / leather board
Upper components of boots	Zuggrain & plain Lather (Black full grain full chrome)
Fabric	Cordura (Nylon) 1000 Denier
Vamp lining	Canvas 150 GSM
Stiffener	Thermoplastic
Toe Puff	Thermoplastic
Insock	Rubber sheet (thickness 2.5 mm)
Thread	Nylon 3 chord multifilament
Eyelet	Double Eyelet. Black Brass 2 per Quarter
Speed hooks	Black Brass 5 per quarter
Webbing	Nylon 2" in both sides of quarter Nylon 1" at back side of quarter
Laces	Polyester Lace with plastic round tips 62" length.
<u>COMPONENTS</u>	<u>SUBSTANCE, (MIN) MM</u>
Vamp	2.00-2.50
Counter	1.50-2.00
Stiffener/Toe puff	1.00-1.50
Insole	3.00-3.50
STITCHING	The upper components shall be closed by lock stitching with nylon thread.
EYELETING	Two pieces of double eyelets black brass and five pieces of black brass speedy hooks shall be fitted on each quarter facing.
LASTING	Upper shall be fitted on last properly for shape retaining.
SOLE PASTING	Pasting of sole to the upper shall be done on high pressure hydraulic cementing machine.
BONDING OF TOE AND HEEL	No separation between upper at toe and sole at pressure of 27 Kg. No separation between upper and heel at pressure of 32 Kg.
SOLE TRACTION PATTERN	As per approved sample.

↓ **STANDARD SPECIFICATIONS: MENS SOCKS**

S. No	Description	Specification
1.	COLOUR	NAVY BLUE
2.	COTTON	70% \pm 5%
3.	COUNT	20'S CARDIED
4.	POLYESTER 150D	30% \pm 5%
5.	COURSES / INCH	22 \pm 5%
6.	WEIGHT PER PAIR	48/50 GRAMS
7.	WASHING INTERNATIONALLY ACCEPTED	3./4
8.	<u>RUBBING FASTNESS.</u> a. Dry	3./4
	b. Wet	3./4
9.	TYPE OF HEEL	REAL HEEL
10.	STITCHING THREAD TOE PORTION	NYLON
11.	MENS SIZE EURO SIZE 39/45	
12.	FOOT 28 CM	
13.	LEG 28 CM	
14.	ANTI ALLERGIC, ANTI BACTERIAL, ANTI FUNGUS TREATMENT.	
15.	LOGO OF SINDH POLICE ON LEG. AS PER APPROVED SAMPLE	

STANDARD SPECIFICATIONS BERET CAP (NAVY BLUE COLOUR)

1. Wool.....100⁰ ± 2⁰ 0
2. Quality of wool.....60s to 64s.
3. Weight (Gram) as per size
 - 6 ¾90 (Gram) (Minimum)
 - 7..... 95 (Gram) (Minimum)
 - 7 ¼100 (Gram) (Minimum)
 - 7 ½105 (Gram) (Minimum)
 - 7 ¾110 (Gram) (Minimum)
4. Colour Fastness.
 - i) Rubbing Wet & Dry.....4/4
 - ii) Light.....4
 - iii) Washing.....4
5. WASHING.
 - a) Change in Colour.....4 Minimum.
 - b) Staining to cotton/wool4 Minimum.
6. Nature of Lining Cloth.....VISCOSE/PC
7. Nature of Ribbon.....Polyster/cotton.
8. No. of Needles.....9 Nos. (Minimum).
9. Finish.....Felted and Sheared.
10. Colour/Feet/Finish/Shade.....Navy blue(as per approved pattern/shade).
11. Stitching Thread.....Nylon.
12. Air Holes.....4 Air Holes.

STANDARD SPECIFICATIONS: BELT U/SUBORDINATE

1. Pure Black Leather (Drum Dyed).
2. Belt plate made by stainless steel 18 Gage with mono-gram "SINDH POLICE"
3. 3 Holes for adjustment.
4. Length.....51/52"
5. Width.....2".

4. STANDARD SPECIFICATIONS: BELT LOWER SUBORDINATE

1. Leather.....Pure black leather (drum Dyed)
2. Holes.....3 Holes for adjustment.
3. Length.....53.
4. Width.....2"

STANDARD SPECIFICATIONS: WARM JERSEY (GRAY/BLUE)

1. Acrylic.....	80+7%
2. Nylon.....	20+7%
3. Count of yarn.....	32/2+7%
4. Nature of Dye.....	Cationic Dye.
5. Wales /DM.....	38+4%
6. Courses/DM.....	55+4%
7. Weight as per size.	
36.....	700 (Gram) Minimum
38.....	750 (Gram) Minimum.
40.....	800 (Gram) Minimum.
42.....	850 (Gram) Minimum.
Extra 42.....	900(Gram) Minimum.
8. Dimensional Change (Due to Relaxation)...	5% Maximum
9. Scouring Loss.....	4% Maximum.
10. PH Value (Aqueous Extract).....	5 to 8.
11. Mercerized Drill Cloth will be used in middle of both arms and for pocket bag.	
12. Washing Fastness (ISO-3 Test)	
i) Change in Shade.....	GS 4 (Minimum).
ii) Staining on Cotton.....	GS 4 (Minimum).
13. Dry Cleaning.....	GS 4 (Minimum)
14. Light Fastness Test.....	GS 4 (Minimum)
(FADS-O-METER TEST)	
(XENON ARC LAMP, 16 HOURS)	
15. Crock Meter Test.	
i. Dry.....	G.S. 4 (Minimum)
ii. Wet.....	G.S 3-4 (Minimum)
16. Colour/Feel/Finish/Shade.....	Gray/Blue.(As per pattern/shade).
17. Stitching Thread.....	Nylon.
18. Cloth (Pocket/Arm).....	PC 50.50, count of yarn
	18s Ends/Picks 120.60
	Disperse + Reactive dye.
	weight SQ/Met Gram
	(250+5%).

STANDARD SPECIFICATIONS / TECHNICAL DATA OF FIELD JACKET OF SINDH POLICE.

S. No	Description	Test Results	
1.	Fabric		
	Warp & weft Count	16x10	
	Ends / Inch	108	
	Picks / Inch	46	
	Weight / sq Meter	286	
	Weave Type	3/1 Twill	
	Composition	55/45 CVC	
	Dyestuff	Disp / Reactive	
	Shrinkage warp/weft	3%	
	Colour Fastness to Washing	Change in shade	4
		Staining on cotton	4
	Colour Fastness to Rubbing	Dry	4
		Wet	3
Colour Fastness to Light (24 Hours)	4		
Water Repellent	3		
2.	Cloth Lining		
	P/C	50X50	
	Weave: Sheeting Plain		
	Construction:	36X36 / 136X72	
	Dyeing:	Disperse Reactive	
3.	Twill Tape		
	Width	1.8 - 2 cm	
	Nature	Reactive Dye	
Wt/linear Mtr	5 - 6		
4.	Zipper Polyester (Slider)		
	(Small/Large)		
	Material	Aluminium Alloy	
Zipper teeth	Plastic		
5.	Sewing Tread		
	Balance of twist	30/2	
6.	Buckram		
	Weight Sq Mtr	190,20,22	
7.	Braided cord Elastic round		
	Construction core (Rubber)	28-40	
	Thread	Polyester	
8.	Velcro Tape 2.5cm (M/F)		

	Washing Test No.3	
	Change in Shade Material	3/4-4
	Material	Nylon & other Fabber
9.	Eyelet Brass 10mm	
	Wt/5000 Eyelet	1500gm± 50
10.	Button 19mm	
	Specific gravity Material	1.12-1.22
	Material	Polyester/Thermopiles Plastic
11.	Tip Plastic (Large/Small)	
	Material	Nylon / Plastic
12.	Barrel Cord Lock Plastic:	
	Material	Plastic / Polyester
	Colour	Blue
	Spring	Aluminium
13.	Fleece	
	Material	Polestar
	Colour	Matching With Sindh Police blue shade
	Shrinkage % age	
	Length	.5"
	Width	.5"
14.	Snap Button 15mm	
	Material	Brass
	Composition %	
	Copper	70± 3
	Zinc	30± 3
	Colour Finish	Antique Dull Brass Anodized
15.	WARMER DETACHABLE, ZIPPER WITH SLEEVES.	
	<u>Fabric</u>	
	Fabric Composition	T-190 Taffeta 100% Polyester
	Fabric Weight	51-53 GSM
	Fab Finish	Normal w/o water Repellent
	Weave	Plain
	Colour	Navy
	Polyester Wadding filling)	150 GSM
	Sleeves Cord Zipper	Tape Polyester

GENERAL DIRECTION / INSTRUCTION FOR THE MANUFACTURE SINDH POLICE JACKET

1. **Sizes:** Field Jacket will be manufactured in following sizes. Size details are as follows.

- A. Small
- B. Medium
- C. Large
- D. Ex-Large

2. **USE:** this item will be used as winter clothing over Sindh Police Uniform.

3. **Material testing.** The material be subjected to tests laid down in the specification and related particulars. The material may also be subjected to such tests, which are deemed necessary by the inspection authority in order to determine their suitability.

S.NO	ITEM
a.	Cloth 3/1 twill 55/45 CVC water repellent in Sindh Police Blue Colour
b.	Cloth liner 50% polyester and 50% cotton blended in Sindh Police Blue Colour
c.	Velcro tape 25mm (male / female) in Sindh Police Blue Colour
d.	Braided cord elastic Round in Sindh Police Blue Colour
e.	Braided cord polyester 1.5cm in Sindh Police Blue Colour
f.	Sewing Thread polyester 30/2 in Sindh Police Blue Colour
g.	Buckram
h.	Button 19mm 4 Hole Blue Colour
i.	Barrel cord Lock Plastic in Sindh Police Blue Colour
j.	Tip Plastic in Sindh Police Blue Colour
k.	Zipper Small Polyester NO-5 (YKK or equivalent quality) in Sindh Police Blue Colour
l.	Zip Large # 8 (YKK or equivalent Quality) in Sindh Police Blue Colour
m.	Snap Button Antique Brass Finish
n.	Eye let Brass 10mm
o.	Fleece weight (GSM) 210 to 230 in Sindh Police Blue Colour
p.	Size & Care Label
q.	Washing / ironing instruction Label
r.	Polythene Bag Transparent
s.	Transparent Adhesive Tape 10cm
t.	Transparent Adhesive Tape 2.54cm
u.	Carton Corrugated Card Board
v.	Plastic Hoop 1.2 cm

4. **MANUFACTURE** The FD Jacket Shall Be Manufactured With Cloth 3/4 CVC Twill With Water Repellent Finish. It Shall Be Consist Of Jacket And detachable Hood. The Shape and Design of the Jacket Shall be as per approved samples. The Jacket Shall Be Fabricated from the Preshrunk Material.

5. **JACKET**

- a. The jacket with detachable hood shall be manufactured from cloth 3/4 twill polyester 55% cotton 45% blended fabric 16x12 108x46 with water repellent finish having lining inside throughout body and sleeves. Lining cloth shall be polyester cotton blend 50% /50% without water repellent.
- b. **FRONT OPENING** the jacket shall be made with open front attached collar. A zip plastic heavy # 8 (ykk or equivalent quality shall be stitched at front along with 6 snap button. (the zip when closed shall not open it self without use of puller). The 1 snap button shall be clinched at a distance of 6.0cm from collar stitching and last snap button shall be clinched at 23 cm above from the bottom line. The remaining snap button shall be clinched at equal distance.
- c. **SLEEVE:** shall be made in two pieces. A strap 8.5 cm long and 5 cm wide lined shall be provided at each cuff with Velcro for adjustment of grip. A pen pocket shall be provided on left side of sleeve at 9.cm from shoulder seam. Size of pen pocket shall be as per approved sample. 2x pleats shall be provided at elbow as shown in the Approved sample.
- d. **SHOULDER STRAPS:** Pointed Should Be Straps with Button Holes Duly Lined with Fusing Buckram Shall be Provided as per approved sample.
- e. **HOOD:** the detachable hood shall be in four pieces made of self material as that the jacket. The attachment of hood with body shall be with zip (ykk or equivalent quality) provided at the base of collar. Sleeve at front of hood shall be provided for braided polyester cord 3.5mm circumference 100 cm long. Braided cord 3.5mm shall be provided with barrel cord locks plastic at each side. End of cord shall be fused properly and provide wit plastic tip. Eyelet brass 10mm shall be clinched at each side for insertion of braided cord a strap 12 cm x 2.5cm of self material with Velcro shall be provided at back sided for adjustment of size hood. The hood shall be finished with double row of stitching.
- f. **POCKETS**
- 1). There shall be two breast and two thigh pockets with flaps. flaps shall be lined with fusing buckram. Pocket shall be cargo type each pocket should have 2x buttons concealed in between two layers of flaps as shown in the drawing. The backside of the thigh pocket shall

be side open to make a side pocket. the side open thigh pockets shall be lined with fleece in Sindh police blue colour.

2). A 2.5 cm wide Velcro (male/female) size 15cmx 2.5cm shall be provided at left breast pocket for nameplate.

3). Two pocket made of lining cloth shall be provided at inner back side of jacket with a supporting piece of same cloth with two flat plastic button attached on jacket and button holes on pocket and cam supporting piece. Pockets end shall be provided with bar taking as mentioned in the Approved Sample.

- g. **COLLAR:** Double Layer of Self Material Round Collar Shall Be Provided with tape Loop 9.5cm X 2.2 cm with Velcro shall be provided at base of collar for closing of collar as mentioned in approved sample.
- h. **STITCHING:** Sewing thread polyester 30/2 Tex shall be used for stitching. The Number of stitches shall be 8 to 10 per 2.5 cm. the machine stitches shall be of even tension and all loose ends shall be trimmed / fastened off.
- i. Double row of machine stitching shall be provided on collar, pocket flap, straps, front fly and zip fasteners. All the pocket ends shall be provided with bar taking.
- j. The bottom of the jacket shall be provided on collar, pocket flap, straps, front fly and zip fasteners. All the pocket ends shall be provided with bar taking.
- k. An elastic cord 3.5 mm circumference 175 long shall be provided at waist for size fitting at waist. End of elastic cord shall be properly and provided with plastic tip and barrel cord lock.
- l. Two pleats at back seam shoulder from top shoulder seam to arm hole seam shall be provided as shown in approved sample.
6. **PACKING:** The store when ordered to be delivered "Packed" Shall be packed as under:-
- a. Each Jacket shall be properly folded lengthwise from center to reduce the packing length and place in polythene of suitable size; the mouth of bag shall be sealed with transparent tape.
- b. Ten (10) such bags shall be packed in carton corrugated 7 ply board.
- c. Each carton shall contain one size only.

STANDARD SPECIFICATIONS: COTTON DURREE.

1. Average Weight..... 1 Kg 50 Grams.
2. Length in meter.....183 cm (6 fit).
3. Width in meter.....91.5 cm.
4. No. of thread per inch(25 mm)....a) Warp..... 13-14.
b) Weft.....100+5 (Two thread working as one).
5. Selvedges..... 28 of 2/59.1 Tex (2/10s) each selvedge.
6. Count of yarn.....a) Warp...2/59.1 Tex(2/10s)
b) Weft...2/29.1 Tex(2/10s)
7. Weave..... Plain (Hand loom).
8. Colour.....Blue.

STANDARD SPECIFICATIONS: MOSQUITO NETS

1. SIZE OF NETTING

- i) LENGTH.....1.98 m (78")
- ii) Breadth.....1.04 m (42") \pm 2.5 cms.
- iii) Fall.....1.27 m (50")

2. PARTICULARS OF NET

- i) END PER DM.....161/165.
- ii) PICKS PER DM.....161/165 30s Count.
- iii) Mesh..... Square.
- iv) Min. wt. Per sq mt.....(68 GMS).

3. PARTICULARS OF CALICO CLOTH.

- i) ENDS PER DM.....307/315.
- ii) PICKS PER DM.....102/205.
- iii) MIN WT PER SQ MT.....105 GMS.

4. PARTICULARS OF COTTON TAPE.

- i) WIDTH.....1.27 CMS (2 INCH).
- ii) LENGTH.....23 CMS + 1.27 CM (9" + 0.5")
- iii) PICKS PER DM.....70/75 OF 10/2 TWISTED.
- iv) TOTAL WARP THREADS.....18/20 OF 10/2 TWISTED.

STANDARD SPECIFICATIONS: IRON COT FRAMES

1. LENGTH.....6'3"
2. WIDTH.....3'
3. HEIGHT.....21"
4. GAUGE OF PIPE.....14
5. DIAMETER OF PIPE..... 1½ " FROM OUT SIDE.
6. NO JOINT IN ANY PIPE LENGTH (AS SHOWN ABOVE).
7. ELECTRIC WELDING.
8. COLOUR.....BLACK DURABLE COLOUR

STANDARD SPECIFICATIONS: KIT BOX

1. GAUGE.....22
2. INNER MEASUREMENT.
 - a) LENGTH.....61 CM
 - b) WIDTH.....46 CM
 - c) DEPTH WITH OUT LID..... 35 CM
 - d) LID.....7.5 CM
3. HEIGHT WITHOUT LEG.....41 CM.
4. METAL.....GALVANISED IRON SHEET.
5. GAUGE OF LEG BASE.....16
6. COLOUR.....WITHOUT ANY COLOUR.
7. END OF THE BASE LEG SHOULD BE HALF FOLDED.

STANDARD SPECIFICATIONS: DERBY BOOTS URBAN AREA

Police Shoes Specification		
S. #	Description	Specification
1.	Design / Construction	7 ¼ ± ¼ inch derby style zipper boot with toe. Upper with cow full grain Leather.
2.	Sole	TPR With Heel
3.	Insole	Latex board/ Winner tex with shank Board (2mm)
4.	Zipper	Y.K.K Imported Zipper (Min 15C M)
5.	Linning	Buff Brn with thickness minimum 0.5mm Crimping Cloth at vamp portion
6.	Socks	Buff Leather snuffed brown thickness min 0.5mm with EVA sheet Half.
7.	Thread	Nylon / Polyester
8.	Upper Material	Cow Full Grain Leather
9.	Feel	Medium soft
10.	Vamp (Thickness)	1.4-1.6mm(Without Lining)
11.	Quarter (Thickness)	1.4-1.6mm(Without Lining)
12.	Toe (Thickness)	1.4-1.6mm(Without Toe Puff)
13.	Chemical & Physical Properties of leather:	
	Chromium Oxide IUC/8	2.5 (Min)
	Oil & Fats IUC/4	3.5 (Min)
	Flaz Meter IU/20	No Crack in Upper Leather at 20,000 Flexes.
	Tear Strength IUP/8	Min 100n (Min)
14.	Sole (Stuck on)	TPR with Heel
15.	Sole AT Toe	15-17 mm
16.	Sole AT Heel	28-30 mm
17.	Hardness	50-60
18.	Sole Attachment.	
	Toe	Min 15 Kg
	Heel	Min 30 Kg
19.	Toe Puff and Counter Stiffener:-	
	Toe Puff	Thermoplastic 1.0 mm Minimum
	Counter Stiffener	Thickness 1.0 mm Minimum
20.	Shank	Good Quality Steel
21.	Thickness	0.9 mm (Min)
22.	Width	1.0 mm (Min)
23.	Length	9.0 mm (Min)
24.	Socks (material Thickness)	Buff Leather snuffed brown thickness min 0.5mm with EVA sheet Half

SPECIFICATIONS OF COMMANDO BLACK UNIFORM FOR SPG/RRF

Sr.#	TEST	TEST METHOD	SPECIFICATIONS
1.	Warp Count (Combed)	ASTM-D 1059	40.2 \pm 7%
2.	Weft Count(Combed)	ASTM-D 1059	40/2 \pm 7%
3.	Ends/Inch	ASTM-D 3775	120 \pm 5%
4.	Picks/Inch	ASTM-D 3775	56 \pm 4%
5.	Weight/Sq Meter (Gram)	ASTM-D 3776	225 \pm 5%
6.	Weave		3'1 (Twill)
7.	Composition 70% Cell30%		
	Cotton	ATTC 20.20A	48% \pm 5%
	Polyester		52% \pm 5%
8.	Nature of Dye		Disperse - V.A
9.	Shrinkage in Warp/Weft.		\pm 2.5% (Maximum).
10.	Width.	ASTM-D 3774	56" \pm 0.5"
11.	Colour Fastness to Chlorine		
	Change in Shade	ISO 105-NO1	4 (Minimum.)
	Staining on Cotton		4 (Minimum.)
12.	Colour Fastness to Washing		
	Change in Shade	ATTC 61-3A	4 (Minimum)
	Staining on Cotton		4 (Minimum)
13.	Colour Fastness to Rubbing		
	Dry	ATTC 8 71 Dr for 42 mm Ts.	4 (Minimum)
	Wet		3 (Minimum)
14.	Colour Fastness to light (24 hours)	ATTC 16E	4-5 (Minimum)
15.	Colour Fastness to perspiration		
	Change in Shape	ATTC 15	4 (Minimum)
	Staining on Cotton		4 (Minimum)
16.	Smoothness Appearance	ATTC 124	2 - 3 (Minimum)

POLO CAP FOR SPG/RRF

S. No.	Test	Specified limit
		Outer Cloth
1	Wt/Sq mtr RH 64% at 21 °C	160.8 gm
2	Thread 25 mm	
	One side	134, 135
	Other side	58, 59
3	Weave	3/3/4 will
4	Washing-3	
	Change in shade	GS No.4
	Staining on cotton	GS No.4
	Staining on polyester	GS No.3/4
5	Material	Polyester
6	Nature of Dye	Disperse
		Inner Cloth PC used in cap
7	Wt/Sq mtr RH 64% at 21 °C	164.3 gm
8	Thread 25mm	
	One side	65, 66
	Other side	56, 57
9	Weave	Plain
10	Material	
	Cotton	All cotton
	Polyester	-
		Velcro used in cap
11	Width	
	Male	20, 20.5 mm
	Female	20, 20.5 mm
12	Material	-
		Netting used in cap
13	Mash size	-
14	Material	Polyester

BERET CAP RED FOR SPG/RRF

S. No.	Test	L/Wing Specified limit
1	Wt/Sq mtr RH 64% at 22 °C	600.2 gm
2	Shrinkage %	
	One side	11 ⁰ ₀
	Other side	10 ⁰ ₀
3	Washing-3	
	Change in shade	GS No. 4
	Staining on cotton	GS No. 2-3
	Staining on polyester	GS No. 3
4	Material	
	Wool	96.3 ⁰ ₀
	Other	3.7 ⁰ ₀
5	Nature of dye	Acid dye
		Cloth lining used in cap
6	Wt/Sq mtr RH 64% at 22 °C	112.3 gm
7	Thread	
	One side	141, 143
	Other side	84, 83
8	Washing-3	
	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
	Staining on polyester	GS No. 4
9	Material	Polyester
10	Nature of dye	Disperse dye
		Piping
11	Wide	29, 30 mm
12	Washing-3	
	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
	Staining on polyester	GS No. 4
13	Construction of stitching thread	2 cord each single

BLACK POLO SHIRT FOR SPG/RRF

S. No.	Test	Specified limit
1	Wt/Sq mtr RH 65% at 22 °C	238.0 gm
2	Shrinkage%	
	Length	0.0%
	Width	2.0%
3	Wales/ 25 mm	24, 25
4	Course/ 25 mm	Not possible
5	Count of yarn	32.6 tex
6	Washing-3	
	Change in shade	GS No.4
	Staining on cotton	GS No.3
7	Perspiration (Acid/Alkali)	
	Change in shade	GS No.4
	Staining on cotton	GS No.4
8	Material	Cotton
9	Nature of Dye	Reactive Dye
10	Scouring loss	0.8%

T-SHIRT BLACK ROUND NECK FOR SPG/RRF

S. No.	Test	Specified limit
1	Wt/Sq mtr	195.4 gm
	RH 65% at 22 °C	
2	Shrinkage%	2.5%
	Length	
	Width	
3	Wales/ 25 mm	50.51
4	Course/ 25 mm	27.0 Tex
5	Count of yarn	GS No.4
6	Washing-3	GS No.4
	Change in shade	
	Staining on cotton	
7	Perspiration (Acid/Alkali)	GS No.4
	Change in shade	
	Staining on cotton	
8	Material	-
9	Nature of Dye	Disperse & Reactive Dye
10	Scouring loss	0.8%

TRACK SUIT FOR SPG/RRF

S. No.	Test	Specified Limit (Black Cotton used)	
		Shirt	Trouser
1	Wt/Sq mtr RH 64% at 22 °C	117.9 gm	115.5 gm
2	Thread/25 mm		
	Warp	129, 128	120, 119
	Weft	90, 91	90, 91
3	Shrinkage %		
	Warp	Nil	Nil
	Weft	Nil	Nil
4	Count of yarn		
	Warp	74.5 Den	77.1 Den
	Weft	Loose structure	
5	Weave	Plain	Plain
6	Washing-3		
	Change in shade	GS No. 4	GS No. 4
	Staining on cotton	GS No. 4	GS No. 4
	Staining on polyester	GS No. 4	GS No. 4
7	Material	Polyester	Polyester
8	Nature of Dye	Disperse	Disperse
(Elastic cord used)			
9	Circumference	5.5, 6 mm	5.5, 6 mm
10	Wt/Linear mtr	3.5 gm	3.38 gm
(Cloth Netting used)			
11	Wt/Sq mtr	544 gm	617 gm
12	Mesh size 25 mm	9x10 hole	8x9 hole
13	Washing-3		
	Change in shade	GS No. 4	GS No. 4
	Staining on cotton	GS No. 4	GS No. 4
	Staining on polyester	GS No. 4	GS No. 4
14	Material	Polyester	Polyester
15	Nature of Dye	Disperse	Disperse
(Ferozi cotton used)			
16	Washing-3		
	Change in shade	GS No. 4	GS No. 4
	Staining on cotton	GS No. 4	GS No. 4
	Staining on polyester	GS No. 4	GS No. 4
17	Material	Polyester	Polyester
18	Nature of Dye	Disperse	Disperse
19	Width	Nil	Nil

PROPOSED SPECIFICATIONA OF LADIES POLICE SHOE FOR SINDHI POLICE

Design:	Oxford style in black Analin Leather with four Eyelets.
Material:	
Sole	PVC/ PU
Heal	1.25 inch
Shank	Mid steel 4 inch
Binding adhesive	Hardner
Insole	Leather Board
Insocks	soft material
Vamp Lining	Canvas
Stiffener	Tollen paper
Toe Puff	Tollen paper
Upper Components	Analin Leather
Toe and Counter	Tollen material
Thread	Nilone 3-50
Eyelet	Four black
Laces	Nilone

STANDARD SPECIFICATIONS: SOCKS FOR LADY POLICE

S. No	Description	Specification
1.	COLOUR	NAVY BLUE
2.	COTTON	70% ± 5%
3.	COUNT	20'S CARDED
4.	POLYESTER 150D	30% ± 5%
5.	COURSES / INCH	22 ± 5%
6.	WEIGHT PER PAIR	30/32 GRMS
7.	WASHING INTERNATIONALLY ACCEPTED	3/4
8.	<u>RUBBING FASTNESS.</u> a. Dry	3.4
	b. Wet	3.4
9.	TYPE OF HEEL	REAL HEEL
10.	STITCHING THREAD TOE PORTION	NYLON
11.	LADIES SIZE EURO SIZE 35/38	
12.	FOOT 25 CM	
13.	LEG 25 CM	
14.	ANTI ALLERGIC, ANTI BACTERIAL, ANTI FUNGUS TREATMENT.	

STANDARD SPECIFICATIONS: CELLULAR KHAKI CLOTH FOR LADY POLICE.

S.#	TESTS	TEST RESULT
1.	Count of Warp	20.2s
2.	Count of Weft	14.8s
3.	End (inch)	89
4.	Picks (inch)	55
5.	Weight / square meter (Gram)	192 g
6.	Weave	Cellular
7.	Composition	
	a) Cotton	65.3%
	b) Polyester	34.7%
8.	Nature of Dye	Disperse + Vat
9.	Shrinkage	
	Warp	2.0 %
	Weft	2.0 %
10.	Width	65.5" / 64.2"
11.	Colour Fastness to Washing	
	Change in Shade	GS-4
	Staining on Cotton	GS-4

MAZRI CLOTH FOR LADY POLICE

S.#	TEST	TEST METHOD	SPECIFICATION
1	Warp Count (Combed)=	ASTM-D 1059	20s \pm 4%
2	Weft Count(Combed)	ASTM-D 1059	20s \pm 4%
3	Ends/Inch	ASTM-D 3775	72 \pm 4%
4	Picks/Inch	ASTM-D 3775	48 \pm 4%
5	Weight/Sq Meter (Gram)	ASTM-D 3776	150 \pm 4%
6	Weave		Cellular
7	Composition 70%Cell 30% i) Cotton ii)Polyester	ATFCC 20.20A	70% \pm 4% 30% \pm 4%
8	Nature of Dye		Disperse+VAI
9	Shrinkage in Warp/Weft.		2% (Maximum)
10	Width.	ASTM-D 3774	36"-0.5" (Maximum)
11	Smoothness Appearance	AATCC 124	3 (Minimum)
12	Pilling NU Martindale	ASTM-D4970(1000 Cycle)	4 (Minimum)
13	Colour Fastness to Washing Change in Shade Staining on Cotton	ATFCC 61-3A	4 (Minimum) 4 (Minimum)
14	Colour Fastness to Rubbing Dry Wet	ATFCC 8 71 Dr for 42 mm 1s.	4 (Minimum) 2-3 (Minimum)
15	Colour Fastness to light (24 hours)	ATCC 16E	4-5 (Minimum)
16	Colour Fastness to perspiration Change in Shape Staining on Cotton	ATFCC 15	4 (Minimum)
17	The hemming of each meter of the cloth should read "Manufactured for Sindh Police by M/s _____ Lot No. _____ Date: _____		

TWO PIECE SUIT FOR SPECIAL BRANCH

S. No.	Test	Specified limit		Specified limit	
		Coat			Paint
		Outer fabric	Inner lining		
1	Wt/Sq mtr RH 65% at 21 °C	191.5 gm	50.5 gm	187.7 gm	
2	Thread/25 mm				
	Warp	103, 104	137, 138	103, 104	
	Weft	79, 80	75, 76	78, 79	
3	Count of yarn				
	Warp	16.8 tex	6.5 tex	16.75 tex	
	Weft	20.59 tex	8 tex	20.5 tex	
4	Shrinkage %	Nil	Nil	Nil	
	Warp	Nil	Nil	Nil	
	Weft	Nil	Nil	Nil	
5	Washing-3				
	Change in shade	GS No. 4	-	GS No. 4	
	Staining on cotton	GS No. 4	-	GS No. 4	
	Staining on polyester	GS No. 4	-	GS No. 4	
6	Washing-2				
	Change in shade	-	GS No. 4	-	
	Staining on cotton	-	GS No. 4	-	
	Staining on polyester	-	GS No. 4	-	
7	Perspiration (Acid/Alkali)				
	Change in shade	GS No. 4	GS No. 4	GS No. 4	
	Staining on cotton	GS No. 4	GS No. 4	GS No. 4	
	Staining on polyester	GS No. 4	GS No. 4	GS No. 4	
8	Material	80% Wool 20% Polyester	Polyester	80% Wool 20% Polyester	
9	Nature of Dye	Disperse & Reactive	Disperse Dye	Disperse & Reactive	

SAFARI SUIT FOR CTD & SPECIAL BRANCH

Test	Specified Limit	
	Shirt	Paant
Wt sq mtr RH 65% at 21 °C	160.2 gm	160.6 gm
Thread/25 mm		
Warp	77.76.77	76.77.76
Weft	61.62.62	61.62.62
Count of yarn		
Warp	2/16 Tex	2/16 Tex
Weft	23.5 Tex	23.2 Tex
Shrinkage%		
Warp	Nil	Nil
Weft	Nil	Nil
Washing-3		
Change in shade	GS No.4	GS No.4
Staining on cotton	GS No.4	GS No.4
Staining on wool	GS No.4	GS No.4
Perspiration (Acidic/Alkaline)		
Change in shade	GS No.4	GS No.4
Staining on cotton	GS No.4	GS No.4
Staining on wool	GS No.4	GS No.4
Material	Polyester	Polyester
Nature of Dye	Disperse	Disperse

WAIST COAT FOR CTD & SPECIAL BRANCH

S. No.	Test	Specified Limit	
		Outer Fabric	Inner Fabric
1	Wt/Sq mtr RH 64% at 21 °C	160.7 gm	18.5 gm
2	Weave	Plain	Plain
3	Thread/25 mm		
	Warp	52, 53	102, 103
	Weft	52, 52	77, 78
4	Denier		
	Warp	324 Den	504 Den
	Weft	353 Den	576 Den
5	Washing-3		
	Change in shade	GS No. 4	-
	Staining on cotton	GS No. 4	-
6	Washing-2		GS No. 4
	Change in shade	-	GS No. 4
	Staining on cotton	-	-
7	Material	(60% Wool & 40% Polyester)	(60% Cotton & 40% Polyester)
8	Nature of dye	Disperse	Disperse

K.T CLOTH WHITE FOR (SB, CID & NAIB QASID)

S. NO.	PARTICULAR	SPECIFIED LIMIT
1	Count of Yarn	
	a. Warp	40/S \pm 3%
	b. Weft	40/S \pm 3%
2	Construction of Fabric	
	a. Ends	120 \pm 5
	b. Pick	80 \pm 5
3	Composition of Fabric	
	a. Polyester	80% tolerance \pm 5%
	b. Viscose	20% Tolerance \pm 5%
4	Colour White	
	a. Berger	150
5.	Colour Fastness to washing	
	a. Change and Shade	GS No.4
	b. Staining on Cotton	GS No.4
6.	Nature of Dye	Disperse Vat

SPECIFICATION OF CTD UNIFORM CAMOUFLAGE CLOTH

Description	Camouflage cloth
Blend	100% cotton
Count of Yarn	
Warp	16
Weft	12
Read	108
Pick	48
Width	57"/58"
Weight	250 GSM
Nature of Dye	Reactive

SPECIFICATIONS OF DMS BOOT FOR CTD

DESIGN	Derby style combat boot in Black Zuggrain Leather with plain toecap 3 eyelets- 5 hooks V cut with polyurethane sole.
MATERIAL	The boot shall be manufactured from following materials.
<u>COMPONENT /PARTS</u>	<u>MATERIAL</u>
Sole	
Shank	Polyurethane (as per EN 345)
Binding Adhesive	Mild Steel (length 4" inch)
Insole	PU (Graft Adhesive)
Upper components	leather board
Fabric	Zuggrain & plain Lather (Black full grain full chrome)
Vamp lining	Nylon Fabric 200GSM
Zip	Canvas 150 GSM
Stiffener	Vislon 8" original YKK Zipper
Toe puff	Split Leather
Insock	Split Leather
Thread	Rubber sheet (thickness 2.5 mm)
Eyelet	Nylon 3 chord multifilament
Speed hooks	Double eyelet. Black Brass japanned.
Webbing	Black Brass 5 per quarter
Webbing	Nylon 2" in both sides of quarter
Laces	Nylon 1" at back side of quarter Polyester Lace with plastic round tips 62" length.
<u>COMPONENTS</u>	<u>SUBSTANCE, (MIN) MM</u>
Vamp	2.00-2.5
Counter	1.5-2.00
Stiffener/Toe puff	1.00-1.5
Insole	3.00-3.5
STITCHING	Upper components shall be closed by lock stitching with nylon thread.
EYELETING	There pieces of double eyelets black brass and five pieces of black brass japanned speedy hooks shall be fitted on each quarter facing.
LASTING	Upper shall be fitted on last properly for shape retaining. For suitable time.
SOLE PASTING	Pasting of sole to the upper shall be done on high pressure hydraulic cementing machine.
SOLE TRACTION PATTERN	As per approved sample.

STANDARD SPECIFICATIONS: M.T (DRIVER) BOOTS

1. BOND TEST.

Toe at 40 Lbs (L&R odd).....No Separation at 40 Lbs.
Middle at 40 Lbs (L&R odd).....No Separation at 40 Lbs.
Heel at 80 Lbs (R odd).....No Separation at 80 Lbs.
Heel at 80 Lbs (L odd).....No Separation at 80 Lbs.

2. THICKNESS OF UPPER.

Vamp.....1.6-1.8 mm.
Toe Cap.....1.6-1.8 mm.
Quarter.....1.4-1.6 mm.

3. CRACKNESS OF GRAIN (UPPER)... Shall not crack on double folding

4. CHROMIUM%..... 2.9% Min.

5. IDENTIFICATION OF LEATHER.

Quarter (L & R odd).....Buffalo full Grain.
Vamp (L & R odd).....Buffalo full Grain.
Tongue (L & R odd).....Buffalo full Grain.

LACES BOOT.

6. Length with Tips..... 148 to 150 cm.

7. CONSTRUCTION.

Braided Yarn.....16 Cord each single.
Core Yarn.....3 Cord each single.

8. COUNT/DEN OF YARN

Braided Yarn.....1506 Den.
Core Yarn.....6/7.79s.

9. WASHING-2.

Change in shade.....GS NO. 4
Staining on Cotton.....GS No. 4.

STANDARD SPECIFICATIONS: K.D. CLOTH FOR M.T. DANGRI

1. Nature of Fibre.....	a) Cotton.... $65^{\circ} \pm 5^{\circ}$..
	b) Polyester $35^{\circ} \pm 5^{\circ}$..
2. Shade.....	Khaki.
3. Width. (inch).....	Not less than 56"
4. Weight/square meter (Gram).....	$260 \pm 5^{\circ}$..
5. Ends/inch.....	$128 \pm 5^{\circ}$..
6. Picks/Inch.....	$60 \pm 5^{\circ}$..
7. Count of Warp.....	$29.52 \text{ tex} \pm 5^{\circ}$..
8. Count of Weft.....	$36.90 \text{ tex} \pm 5^{\circ}$..
9. Shrinkage in Warp/Weft.....	2° .. maximum
10. Breaking Strength	a) Warp $310 \text{ Kgs} / \pm 5^{\circ}$..
(10.2 x 16.8 cm B.G).	b) Weft $130 \text{ Kgs} / \pm 5^{\circ}$..
11. Wave.....	3/1 (twill)
12. Washing Test (ISO 3)	a) Change in Colour GS 4 Min
	b) Staining to cotton GS 4 Min
13. Rubbing Fastness	a) Dry Rubbing. GS 4 Min
(Crock meter test).	b) Wet Rubbing. GS 3 4 Min
14. Nature of Dye.	Disperse + Vat.
15. Scouring Loss % ..	1.3° .. Maximum.
16. Light Fastness	
(Fede-o-Meter, 16 Hrs).....	BS 4 Maximum.
17. The hemming of each meter of the cloth should read "Manufactured for Sindh Police by	
M/s	_____
Lot No.	_____
Date:	_____

STANDARD SPECIFICATIONS: WHITE CLOTH FOR TRAFFIC POLICE.

1	Warp / cm	32
2	Weft / cm	28
3	Warp yarn	30 / 2
4	Weft Yarn	20
5	Construction	30 / 2 x 20 / 80 x 72
6	Fabric Composition	80% Polyester, 20% Viscose
7	Type of Weave	1 will Weave 2 / 1
8	Finish Fabric Weight	210 gm per square meter
9	Finish Width	59"
10	Colour	Optical White
11	Whiteness	Berger White 120 (Minimum)
12	Shrinkage	
	Warp	1% _o
	Weft	1% _o
13	Finishing	Easy Care Hydrophilic finish with soil release properties

SPECIFICATION
SHIRT MEN'S WHITE FOR TRAFFIC

- c. All measurements are in inches.
d. Tolerance $\pm 3^{\text{rd}}$.
4. **Collar.** Two piece collars should be used for shirt collar point should be 3". Collar height 1.5".
5. **Shoulder Strap.** Length of shoulder strap should be up to 7 inches per approved sample.
6. **Cuffs.** Arms Cuffs should be in Square Instead of round shape. Height 2 3/4 and with are as follows:

S.M.L. NL,XXL,XXXL

4. **FLAPS** Width 5.1/4 Height from center 2.3/4 (Sindh Police Pattern).
5. **Pockets** Box pleat pockets from end should be rounded. Width 5.1/4" Length 5.1/4"
6. **Pocket measurement with Flap** Length 5.3/4 Width 5.1/4
7. **Stitching** 9-11 Stitches per inch.
8. **Stitching thread / sewing thread,** sufficiently strong with excellent dye fastness is required to be used for throughout stitching / sewing.

Size. As per sizes given below.

MEASUREMENT STITCHED MAZRI SHIRT

MAZRI SHIRT				
Collar	Length	Shoulder	Chest	Sleeve
14	28	16 1/2	39	23
14 1/2	28	17 1/2	41	24
15 1/2	29	18 1/2	44	24
16 1/2	30	19	46	24 1/2
16 1/2	30	19	46	25
17	30	20	46	25
17 1/2	30	20	48	25 1/2
18	30	21	52	26
18	31	22	54	26
18	32	22	54	26
18	32	22	56	26

SEWING THREAD

Balance of twist	50/3 Color according to matching fabric
------------------	---

PAPER FUSING**SIZE & CARE LABEL**

Wt/sq mtr	65 + 5 gm
Material	100% polyester
Size	As per requirement
Color	White
Weave	Plain

BUTTONS KHAKI #24-L

MATERIAL	UREA MATERIAL
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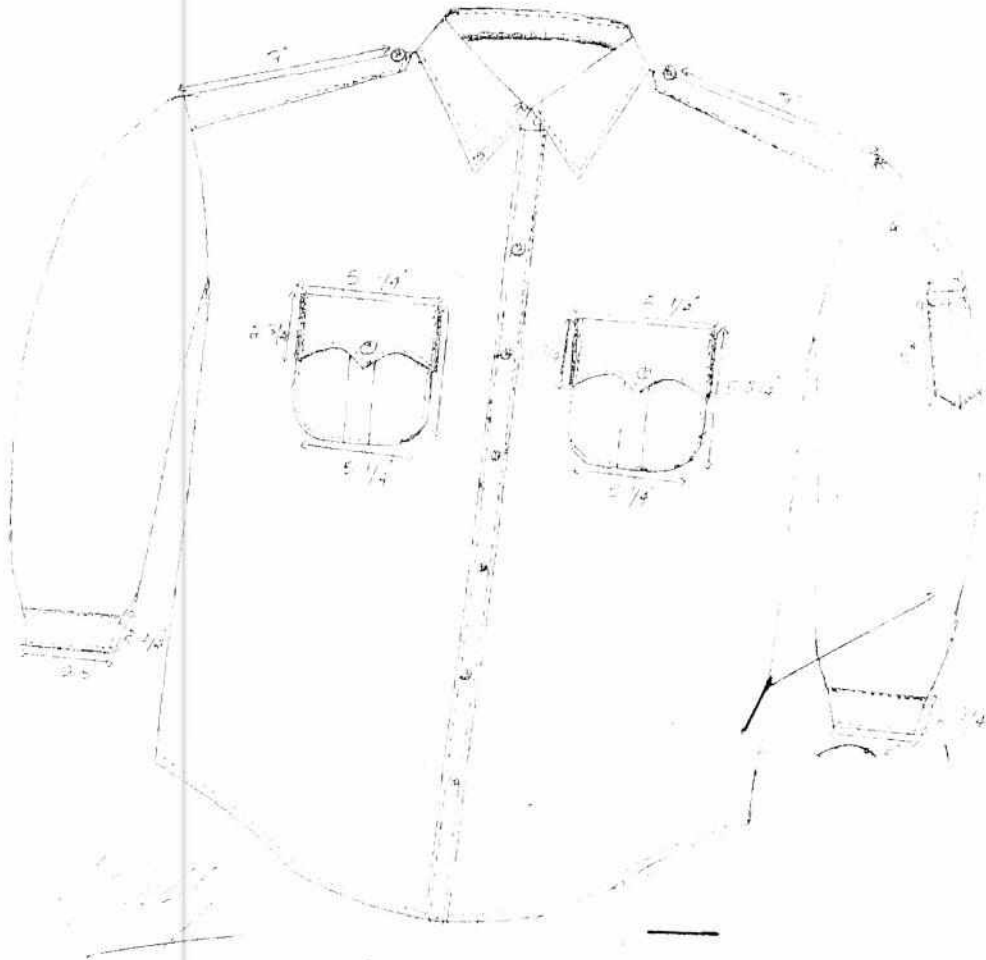
POLYTHENE BAG TRANSPARENT (TROUSER / SHIRT)

MATERIAL	POLYTHENE
THICKNESS	0.127mm + 0.027
SIZE	SUITABLE SIZE

TRANSPARENT ADESIVE TAPE 10CM (TROUSER/SHIRT)**TRANSPARENT ADHESIVE TAPE 2.5CM****CORRUGATED CARD BOARD 7 PLY (TROUSER/SHIRT)**

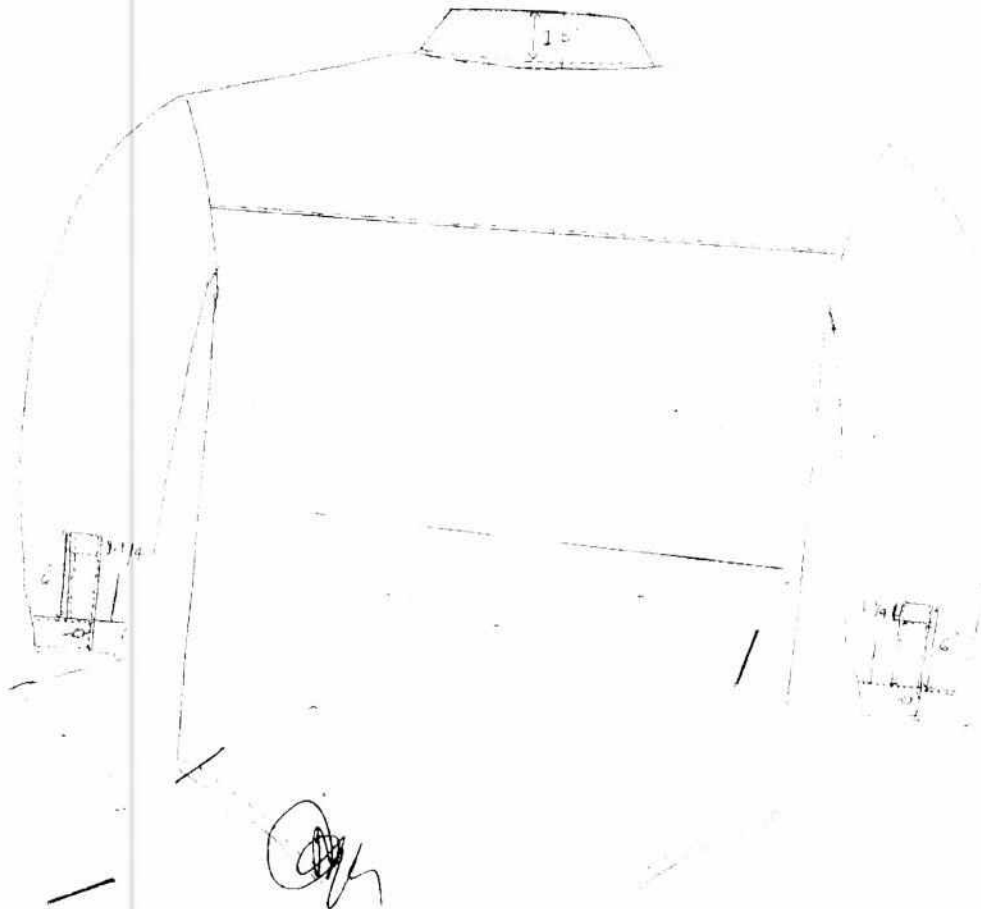
51nd Police Shirt

Front



4
Sinh Police Short

Back



SPECIFICATION
TROUSER'S MEN'S WHITE FOR TRAFFIC

- e. All measurements are in inches.
 - f. Tolerance $\pm 3\%$
7. **Pattern.** Trouser with 1.5" wide belt duly re-enforced with paper fusing having sewn 2 pleat at front on each side and dot sewn at back on each trouser shall be with three points belt loops fastened with visible buttons, two side pockets of 7" opening wide, cut pocket at hip with deep jetted to button through loop with place khaki urea color button, size of fly should not be less then 8" in length. Belt should be in 2 pieces with adjustable allowance 1.5 both side.
 8. **Belt Loops.** Pattern of belt loops should be as per approved sample.
 9. Buttons should be inserted instead Zip.
 10. Seem at inner back rise should be doubled.
 11. **Packing:** The store when ordered to be delivered "Packed" shall be packed as under:
 - g. Ten (10) (Shirt/Trouser) such bags shall be packed in carton corrugated 7 ply board
 - h. Each carton shall contain one size only.
 12. **Size.** As per sizes given below.

MEASUREMENT STITCHED TROUSER

<u>Trouser</u> <u>Waist</u>	<u>Trouser</u> <u>Length</u>
<u>29</u>	<u>40</u>
<u>31</u>	<u>41</u>
<u>33</u>	<u>42</u>
<u>35</u>	<u>42</u>
<u>37</u>	<u>42</u>
<u>39</u>	<u>43</u>
<u>41</u>	<u>43</u>
<u>43</u>	<u>44</u>
<u>45</u>	<u>44</u>
<u>47</u>	<u>44</u>
<u>49</u>	<u>44</u>

SEWING THREAD

<u>Balance of twist</u>	<u>50/3 Color according to matching fabric</u>
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PAPER FUSING**SIZE & CARE LABEL**

<u>Wt/sq mtr</u>	<u>65 + 5 gm</u>
<u>Material</u>	<u>100% polyester</u>
<u>Size</u>	<u>As per requirement</u>
<u>Color</u>	<u>White</u>
<u>Weave</u>	<u>Plain</u>

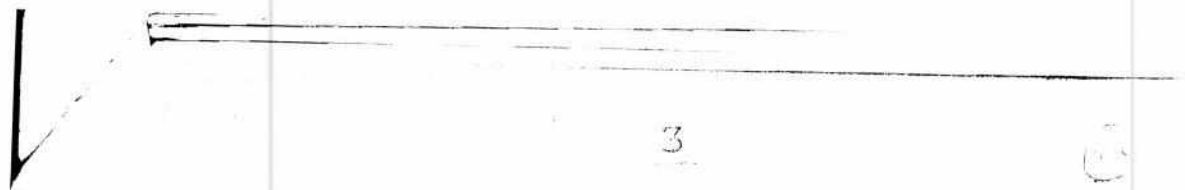
BUTTONS KHAKI #24-L

<u>MATERIAL</u>	<u>UREA MATERIAL</u>
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POLYTHENE BAG TRANSPARENT (TROUSER / SHIRT)

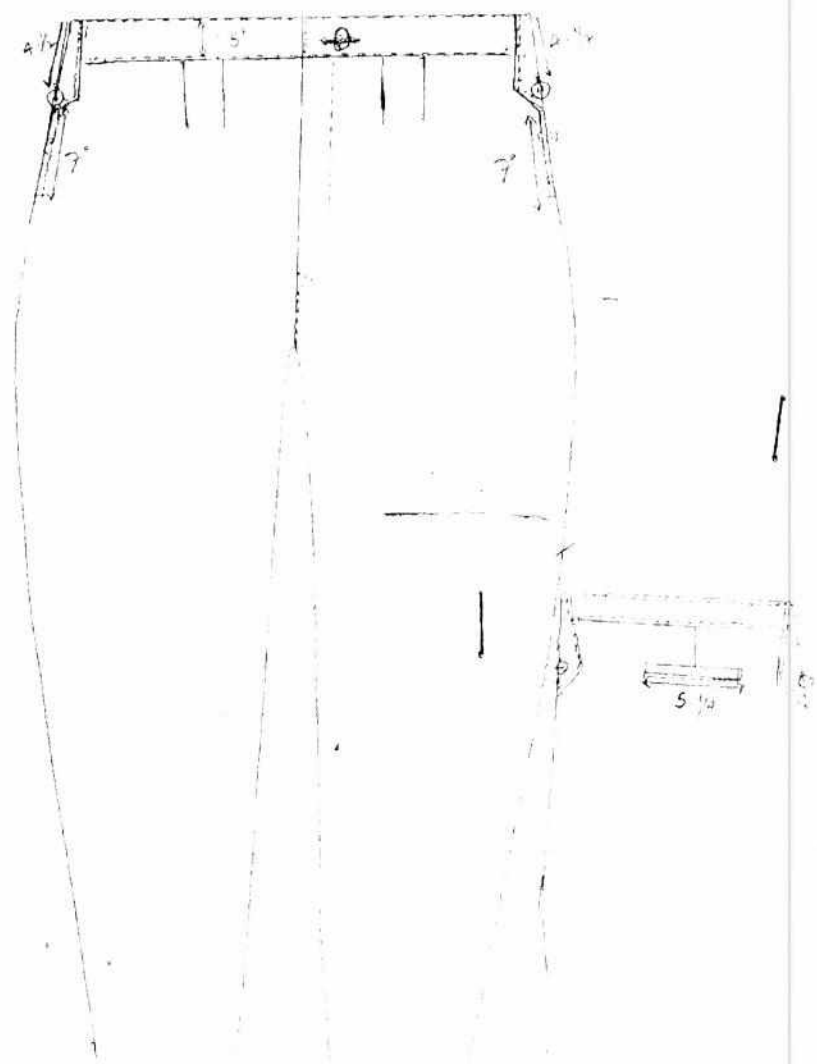
<u>MATERIAL</u>	<u>POLYTHENE</u>
<u>THICKNESS</u>	<u>0.127mm + 0.027</u>
<u>SIZE</u>	<u>SUITABLE SIZE</u>

TRANSPARENT ADESIVE TAPE 10CM (TROUSER/SHIRT)**TRANSPARENT ADHESIVE TAPE 2.5CM****CORRUGATED CARD BOARD 7 PLY (TROUSER/SHIRT)**



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Sindh Police Parl



[Handwritten signature]

STANDARD SPECIFICATIONS: DERBY BOOTS FOR TRAFFIC POLICE

S.No	Description	Specification
1.	Design / Construction	9 ¼ ± ¼ inch derby style zipper boot with toe. Upper with cow full grain leather.
2.	Sole	TPR With Heel
3.	Insole	Latex board/ Winner tex with shank Board (2mm)
4.	Zipper	Y.K.K Imported Zipper (Min 15CM)
5.	Linning	Buff Brn with thickness minimum 0.5mm + Crimping Cloth at vamp portion
6.	Socks	Buff Leather snuffed brown thickness min 0.5mm with EVA sheet Half
7.	Thread	Nylon / Polyester
8.	Upper Material	Cow Full Grain Leather
9.	Feel	Medium soft
10.	Vamp (Thickness)	1.4-1.6mm(Without Lining)
11.	Quarter (Thickness)	1.4-1.6mm(Without Lining)
12.	Toe (Thickness)	1.4-1.6mm(Without Toe Puff)
13.	Chemical & Physical Properties of leather:	
	Chormium Oxide IUC/8	2.5 (Min)
	Oil & Fats IUC/4	3.5 (Min)
	Flaz Meter IU/20	No Crack in Upper Leather at 20,000.Flexes.
	Tear Strength IUP/8	Min 100n (Min)
14.	Sole (Stuck on)	TPR with Heel
15.	Sole AT Toe	15-17 mm
16.	Sole AT Heel	28-30 mm
17.	Hardness	50-60
18.	Sole Attachment.	
	Toe	Min 15 Kg
	Hell	Min 30 kg
19.	Toe Puff and Counter Stiffener:-	
	Toe Puff	Thermoplastic 1.0 mm Minimum
	Counter Stiffener	Thickness 1.0 mm Minimum
20.	Shank	Good Quality Steel
21.	Thickness	0.9 mm (Min)
22.	Width	1.0 mm (Min)
23.	Length	9.0 mm (Min)
24.	Socks (material Thickness)	Buff Leather snuffed brown thickness min 0.5mm with EVA sheet Half

STANDARD SPECIFICATIONS: REFLECTIVE JACKETS

1. HIGH VISIBILITY SATURN YELLOW COLOUR WASHABLE AND HIGHLY DURABLE MATERIAL. SUITABLE FOR TROPICAL CONDITION SHOULD CONSIST OF LARGE BLUE COLOUR MONOGRAM WITH HIGHLY REFLECTIVE LETTERS "POLICE" ON THE BACK AND A MEDIUM MATCHING MONOGRAM ON THE FRONT INCLUDING WHITE STRIPES IN TOP QUALITY RETRO-REFLECTIVE MATERIAL AND IS FITTED WITH VERY DURABLE ZIP, FULL SLEEVES.

2. SIZES.....MEDIUM/LARGE AND EXTRA LARGE.

**STANDARD SPECIFICATIONS: RAIN COAT WITH HOOD FOR TRAFFIC
POLICE**

1. MATERIAL.....WHITE REXZINE.
2. LENGTH..... 45"
3. WIDTH.....24"
4. POCKET.....2 with flap and closing button.
5. IT SHOULD HAVE FRONT OPENING TO CLOSE WITH
FOUR PLASTIC BUTTON OF GOOD QUALITY.
6. ONE BELT WITH IRON BUCKLE.
7. A LARGE BLUE COLOUR MONOGRAM WITH LETTER
"POLICE" ON THE BACK AND A MEDIUM MATCHING
MONOGRAM ON THE FRONT.
8. SIZES.....LARGE & EXTRA LARGE.

VEB BELT FOR TRAFIC POLICE

S.#	DESCRIPTION	SPECIFICATIONS
1.	Material	Nylon (Black)
2.	Width	2 ¼ ± 1% inch
3.	Length	48 ± 1 inch
4.	Ring Material	Stainless Steel
5.	Buckle Plate (Material)	Stainless Steel Engraved insignia of "SINDHI POLICE" Gauge of steel should be 20 gauge.

STANDARD SPECIFICATION POLO CAPS FOR TRAFFIC POLICE

S. No.	Test	Specified limit
1	Wt/Sq mtr RH 64% at 21 °C	Outer Cloth 160 gm
2	Thread 25 mm	
	One side	135
	Other side	59
3	Weave	3 3 Twill
4	Washing-3	
	Change in shade	GS No.4
	Staining on cotton	GS No.4
	Staining on polyester	GS No.3 4
5	Material	Polyester
6	Nature of Dye	Disperse
		Inner Cloth PC used in cap
7	Wt/Sq mtr RH 64% at 21 °C	165 gm
8	Thread 25mm	
	One side	66
	Other side	57
9	Weave	Plain
10	Material	
	Cotton	All cotton
	Polyester	-
		Velcro used in cap
11	Width	
	Male	20, 21 mm
	Female	20, 21 mm
12	Material	-
		Netting used in cap
13	Mash size	-
14	Material	Polyester

Polo Cap made of Navy Blue PC Twill, with Traffic Police Monograms (embroidery) with fast colour polyester thread. A ribbon of 3 colours (as per sample) will be stitched below the monogram. Sun shield will be stitched in double needle. In the middle of the Cap good quality black net will be stitched and good quality Velcro also will be stitched on the back loop.

BOMB DISPOSAL UNIT UNIFORM

S. No.	Test	Specified limit (T-Shirt H/S)
1	Wt/Sq mtr RH 65% at 21 °C	164.2 gm
2	Wales/25 mm	36.37
3	Course/25 mm	47.48
4	Denier	111 Den
	Washing-3	
5	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
	Perspiration (Acidic/Alkali)	
6	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
7	Material	Polyester
8	Nature of dye	Disperse Dye
		Specified limit (Trousers)
9	Wt/Sq mtr RH 64% at 21 °C	216.7 gm
10	Weave	3/1 Twill
	Thread/25 mm	
11	Warp	118, 119
	Weft	56, 55
	Count of yarn	
12	Warp	30.6 Tex
	Weft	29.1 Tex
	Shrinkage %	
13	Warp	0.5%
	Weft	0.5%
	Washing-3	
14	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
	Perspiration (Acidic/Alkaline)	
15	Change in shade	GS No. 4
	Staining on cotton	GS No. 4
	Blending	
16	Cotton	33.8%
	Polyester	66.2%
17	Nature of Dye	Vat & Disperse