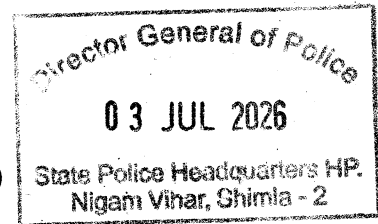




No. PL-3(Purchase-Combat Dress) 26-27 13943
O/o The Director General of Police,
Himachal Pradesh, Shimla-171002.



EXPRESSION OF INTEREST (EOI)

is invited from Composite Textile Mills/Manufactures for Supply of Loose Fit Combat Dress (LFCD) Fabric for Himachal Pradesh Police

1. INTRODUCTION

Himachal Pradesh Police intends to procure 55000 meters (apprx.) **Loose Fit Combat Dress (LFCD) Fabric** for its personnel.

Before inviting bids, HP Police intends to interact and assess technically competent Composite Textile Mills having adequate manufacturing capability, quality assurance systems, and experience in manufacturing uniform fabrics.

Accordingly, Expression of Interest (EOI) is invited from eligible Composite Textile Mills/ Original Fabric Manufacturers (**OFMs**) fulfilling the eligibility criteria prescribed herein which should reach in the office of the Director General of Police, Himachal Pradesh, near HPPWD Office, nigam Vihar, Shimla-171002 on or before 25.07.2026 at 01.00 PM.

2. OBJECTIVE

The objectives of this EOI are:

- To identify reputed Composite Textile Mills.
- To evaluate manufacturing capability.
- To evaluate technical competence.
- To evaluate quality assurance systems.
- To evaluate the fabric sample.
- To finalize technically suitable manufacturers for subsequent procurement.

3. SCOPE OF WORK

The successful OFM shall be required to manufacture and supply LFCD Fabric conforming to the specifications prescribed in **Annexure-A**.

The exact quantity shall be communicated in the subsequent Tender.

4. ELIGIBILITY CRITERIA

The Interested OFM shall satisfy the following conditions:-

I. EOI is invited only from OFM/ Composite Textile Mills having established brands such as Raymond, OCM, Digjam, Arvind, Mafatlal, Donear, Grado, Mayur or equivalent subject to fulfill eligibility criteria. No Dealer, Distributor or Channel Partner shall be eligible.

II. The Firm shall be a Composite Textile Mill having in-house facilities for

- Spinning
- Weaving
- Dyeing
- Processing
- Printing
- Finishing

under one PAN/Equivalent. Declaration on above points on Rs.100 Stamp Paper shall be submitted.

III. The Composite Textile Mill/OFM shall have minimum annual processing capacity Suiting : 200 lakh metres and Shirting : 200 lakh metres. **Valid Ministry of Textiles Certificate shall be enclosed.**

IV. Average Annual Turnover of the Composite Textile Mill/OFM shall not be less than Rs.200 Crores during preceding three Financial Years.

V. The Composite Textile Mill/OFM should preferably possess, ISO 9001 and OEKO-TEX Certification

V. The Composite Textile Mill/OFM should have successfully supplied uniform fabrics to any Government Departments/Police/CAPFs/PSUs/Reputed Institutions during last three years. **Copies of Purchase Orders shall be enclosed.**

5. DOCUMENTS TO BE SUBMITTED

The following shall accompany the EOI by The Interested Composite Textile Mill/OFM

- Covering Letter
- PAN
- GST
- Declaration regarding Composite Mill
- Processing Capacity Certificate
- ISO Certificate
- OEKO-TEX Certificate
- Audited Accounts (3 Years)
- ITR (3 Years)
- Purchase Orders
- Company Registration Documents
- Manufacturing Details
- Testing Laboratory Details
- Non-Blacklisting Certificate

6. SUBMISSION OF FABRIC SAMPLE

Each participating OFM shall submit the following along with EOI:

- Two identical samples.
- four metres each.
- Samples shall be free of cost and non-returnable.
- Each sample shall be accompanied by: Colour measurement report indicating CIE L^*C^*h , CIE XYZ and ΔE values.

The samples shall strictly conform to **Annexure-A**.

The submitted samples may be independently tested by Himachal Pradesh Police from any approved laboratory.

The decision of Himachal Pradesh Police shall be final and binding.

7. EVALUATION OF EOI

The Expression of Interest (EOI) received from the participating OFM/ Composite Textile Mills shall be evaluated by a duly constituted Evaluation Committee of HP Police. The evaluation shall include scrutiny of the documents submitted to establish compliance with the prescribed eligibility criteria, verification of the technical and financial credentials of the applicant, assessment of the submitted fabric samples for conformity with the technical specifications prescribed in **Annexure-A**, and laboratory testing of the samples through approved laboratory, wherever considered necessary. The Committee may also assess the manufacturing capability, quality assurance systems, testing facilities, production capacity and past performance of the applicant, and may conduct inspection of the manufacturing premises, if required, to verify the claims made in the EOI. The decision of Himachal Pradesh Police in this regard shall be final and binding on all applicants.

8. DISQUALIFICATION

The EOI shall be rejected if:

- False information is submitted.
- Documents are incomplete.
- Sample fails laboratory testing.
- Colour parameters exceed prescribed tolerance.
- Pattern differs from approved design.
- Firm is blacklisted or poor performance record is established.

9. RIGHTS OF HIMACHAL PRADESH POLICE

Himachal Pradesh Police reserves the right to:

- Accept or reject any EOI.
- Seek clarification.

- Conduct factory inspection.
- Obtain independent laboratory testing.
- Cancel the EOI.
- Modify the specifications before Tender.

No claim shall lie against Himachal Pradesh Police on this account.

10. VALIDITY

EOI shall remain valid for **180 days**.

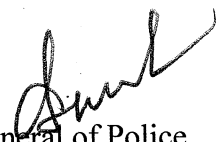
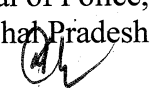
11. SUBMISSION

EOI shall be submitted in sealed cover superscribed:

Expression of Interest (EOI) for Supply of LFCD Fabric to Himachal Pradesh Police

Addressed to

**The Director General of Police,
Himachal Pradesh, near HPPWD office, Nigam Vihar
Shimla-171002**


Director General of Police,
Himachal Pradesh


Specifications of LFCD (Loose Fit Combat Dress) Disruptive Digital Pattern Uniform For HP Police Personnel [Cotton, Polyester and SPANDEX (80:19:1)]

The LFCD fabric shall conform to the specifications given in Table 1. Specification for colour used in printing shall be as given in Table 2A, 2B, 2C and 2D

TABLE 1: SPECIFICATIONS OF CLOTH DISRUPTIVE DIGITAL PRINT

Sl. No.	Characteristics	Requirements	Test Method / Standard
1	Material	Cotton + Polyester + Spandex	—
2	Count of Yarn Warp Weft	2/32 2/32 + 16 Spandex	IS 3442:1980
3	Weave Pattern	Plain Rip Stop Warp: 24 + 3 Weft: 12 + 2	Visual Examination
4	Blend Composition (%)	Cotton : Polyester : Spandex (80:19:1) Cotton: 77.6%–82.4% Polyester: 18.43%–19.57% Spandex: 0.97%–1.03%	IS 3416 (Part-1):1988
5	Ends / dm	330 ± 5% (313.5–346.5)	IS 1963:1981
6	Picks / dm	190 ± 5% (180.5–199.5)	IS 1963:1981
7	Width cm (Minimum) (Excluding Selvedge)	150 cm (Minimum)	IS 1954:1990
8	Mass (g/m ²)	205 ± 5% (194.75–215.25)	IS 1964:2001
9	Breaking Strength (Minimum) Warp-wise Weft-wise	700 N 280 N	IS 1969 (Part 1):2018 (5 cm × 20 cm between grips)
10	Tearing Strength, Newton (Minimum) -Warp-wise -Weft-wise	30 17	IS 6489 (Part-1):2011
11	Colour Fastness to Washing after 20 Washes -Change in colour -Staining on adjacent fabric	4 or better 4 or better	IS/ISO 105-C10, Test Condition C(3):2006 (Repeated four times)
12	Colour Fastness to Perspiration - Change in Colour	4 or better	IS/ISO 105-E04:2013

	- Staining on Adjacent Fabric	4 or better	
13	Colour Fastness to Rubbing -Dry -Wet	Grade 4 or better for all colours i) 3–4 or better for dark colours ii) 4 or better for light colours	IS/ISO 105-X12:2016
14	Colour Fastness to Light	4 or better	IS/ISO 105-B02:2014
15	Dimensional Change due to Relaxation, Both Directions, Percentage Maximum	3.0%	IS 2977:1989
16	Dimensional Stability to Dry Heat (Both Directions), Percentage Maximum	3.0%	IS 12170:1987 Temperature (150 ± 2°C)
17	pH Value of Aqueous Extract	6.0–8.5	IS 1390:2022 (Cold Method)
18	Water Soluble Matter, Maximum	1%	IS 3456:2022
19	Pilling Resistance, Minimum	4	IS 10971 (Part 1):2022
20	Air Permeability/cc/sec/cm ² /, Minimum	7	IS 11056:2013
21	Drape Co efficient	60–70%	IS 8357:1977
22	Water Vapour Permeability mg/cm ² /hr Minimum	15	ASTM E96/E96M:2016 (Water Method), 32 ± 2 degree, Celsius RH 50 ± 2%, [Upright Method], Air Velocity =0.5–2.5 m/s
23	Identification of Dye for Printing Identification of Dye for Base Fabric	Ground (Base Fabric): The base fabric shall be dyed uniformly in Khaki shade (Ref.Table 2A) using suitable Disperse and Vat dyes compatible with the 80:19:1 Cotton/Polyester/Spandex blend. The approved Digital Disruptive Camouflage pattern shall thereafter be printed using Vat class dyes.	IS 4472 (Part 1):2021

24	Colour Difference (ΔE) For base Colours For other Colours	≤ 1.2 ≤ 1.5	As per Tables 2A, 2B, 2C & 2D (Refer Fig. 2)
25	Anti-microbial Finish	99% anti-bacterial activity after 20 laundry washes	AATCC 100; as per ISO 6330 at 40°C, Tumble Dry

SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON, POLYESTER AND SPANDEX (80:19:1)]”

Table 2A: Specification of Colour – Disruptive Digital Pattern (Khaki)

(Guidelines of AATCC Test Method 173:2015 & AATCC Evaluation Procedure 7:2015)

Parameter	Specification
Colour	Khaki
Colour System	CIE LCH
Illuminant	D-65
Standard Observer	10°
Tristimulus Values	X = 20.841 Y = 20.493 Z = 14.128
LCH Values	L = 52.39 C = 17.61 h° = 66.67
CMC (l:c)	2 : 1
Maximum Colour Difference (ΔE_{cmc})	≤ 1.5

Interpretation of Results:

- i) If ΔE_{cmc} is less than or equal to 1.5, then sample is acceptable.**
- ii) If ΔE_{cmc} is greater than 1.5, the sample is unacceptable.**

Note-1 : Absorbance/ reflectance/ transmittance are affected by surface characteristic features of the substrate. Therefore comparison should be made between sample of same type i.e identical fabric construction parameters and filament/fiber composition.

Note-2 : Test should be carried out after proper conditioning as per AATCC 173 using Defuse (sphere) geometry spectrophotometer.

SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON, POLYESTER AND SPANDEX (80:19:1)]”

Table 2B: Specification of Colour – Disruptive Digital Pattern (Navy Blue)

(Guidelines of AATCC Test Method 173:2015 & AATCC Evaluation Procedure 7:2015)

Parameter	Specification
Colour	Navy Blue
Colour System	CIE LCH
Illuminant	D-65
Standard Observer	10°
Tristimulus Values	X = 4.117 Y = 4.402 Z = 6.850
LCH Values	L = 24.96 C = 9.35 h° = 265.05
CMC (l:c)	2 : 1
Maximum Colour Difference (ΔE_{cmc})	≤ 1.5

Interpretation of Results:

- i) If ΔE_{cmc} is less than or equal to 1.5, then sample is acceptable.**
- ii) If ΔE_{cmc} is greater than 1.5, the sample is unacceptable.**

Notes:

1. Absorbance, reflectance and transmittance are affected by the surface characteristics of the substrate. Therefore, colour comparison shall be carried out only between samples having identical fabric construction parameters and fibre/filament composition.
2. The test shall be conducted after proper conditioning in accordance with AATCC Test Method 173:2015 using a Diffuse (Sphere Geometry) Spectrophotometer.

SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON, POLYESTER AND SPANDEX (80:19:1)]”

Table 2C: Specification of Colour – Disruptive Digital Pattern (Yellow)

(Guidelines of AATCC Test Method 173:2015 & AATCC Evaluation Procedure 7:2015)

Parameter	Specification
Colour	Yellow
Colour System	CIE LCH
Illuminant	D-65
Standard Observer	10°
Tristimulus Values	X = 56.019 Y = 50.942 Z = 9.464
LCH Values.	L = 76.64 C = 73.54 h° = 74.03
CMC (l:c)	2 : 1
Maximum Colour Difference (ΔE_{cmc})	≤ 1.5

Interpretation of Results:

- i) If ΔE_{cmc} is less than or equal to 1.5, then sample is acceptable.
- ii) If ΔE_{cmc} is greater than 1.5, the sample is unacceptable

Notes:

1. Absorbance, reflectance and transmittance are affected by the surface characteristics of the substrate. Therefore, colour comparison shall be carried out only between samples having identical fabric construction parameters and fibre/filament composition.
2. The test shall be conducted after proper conditioning in accordance with AATCC Test Method 173:2015 using a Diffuse (Sphere Geometry) Spectrophotometer.

SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON, POLYESTER AND SPANDEX (80:19:1)]”

Table 2D: Specification of Colour–Disruptive Digital Pattern (Olive/Angola)

(Guidelines of AATCC Test Method 173:2015 & AATCC Evaluation Procedure 7:2015)

Parameter	Specification
Colour	Olive/Angola
Colour System	CIE LCH
Illuminant	D-65
Standard Observer	10°
Tristimulus Values	X = 6.141 Y = 6.270 Z = 4.737
LCH Values	L = 30.08 C = 9.03 h° = 76.20
CMC (l:c)	2 : 1
Maximum Colour Difference (ΔE_{cmc})	≤ 1.5

Interpretation of Results:

- i) If ΔE_{cmc} is less than or equal to 1.5, then sample is acceptable.
- ii) If ΔE_{cmc} is greater than 1.5, the sample is unacceptable

Notes:

1. Absorbance, reflectance and transmittance are affected by the surface characteristics of the substrate. Therefore, colour comparison shall be carried out only between samples having identical fabric construction parameters and fibre/filament composition.
2. The test shall be conducted after proper conditioning in accordance with AATCC Test Method 173:2015 using a Diffuse (Sphere Geometry) Spectrophotometer.

**SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL
PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON,
POLYESTER AND SPANDEX (80:19:1)]”**

HIMACHAL PRADESH POLICE (HPP)

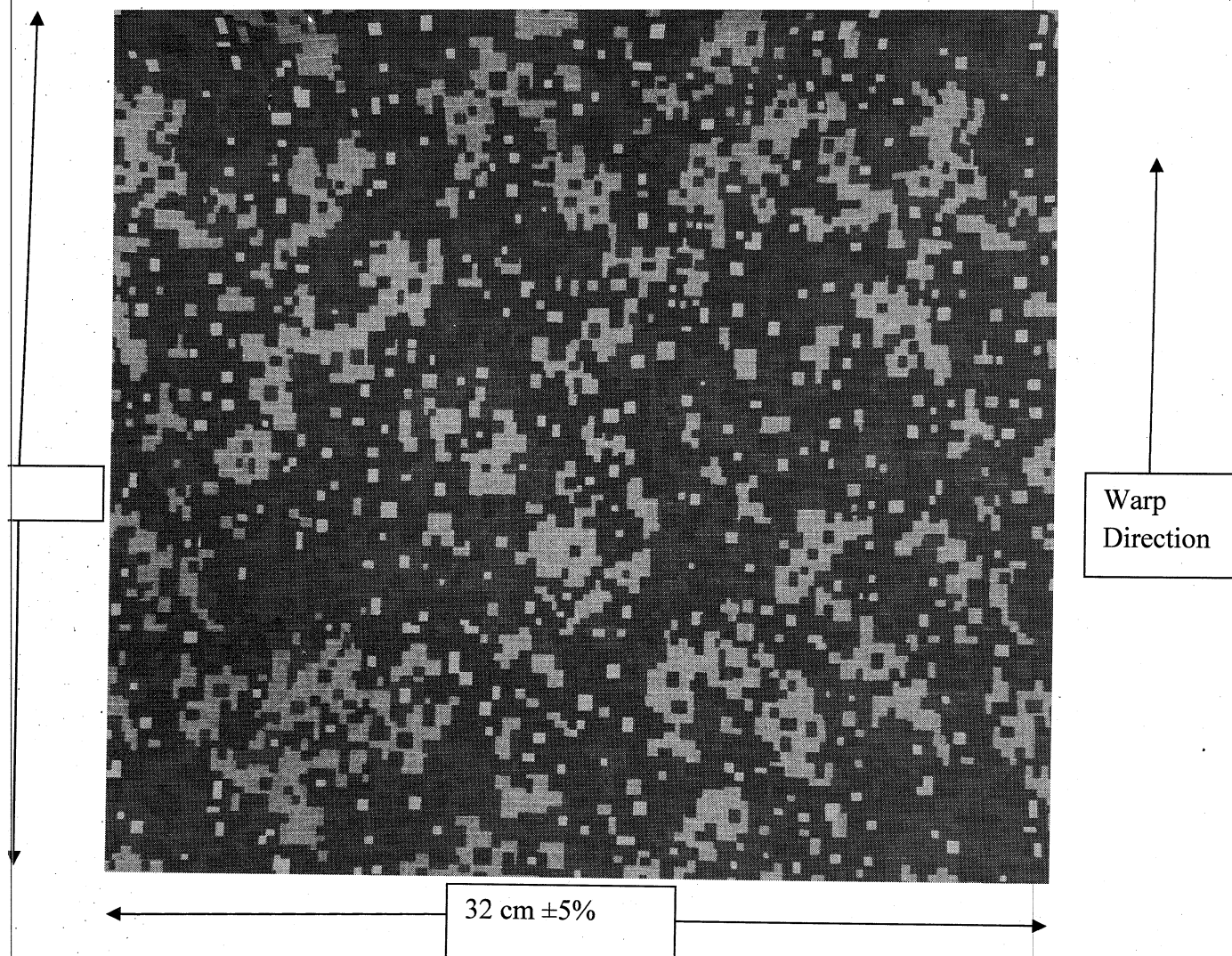
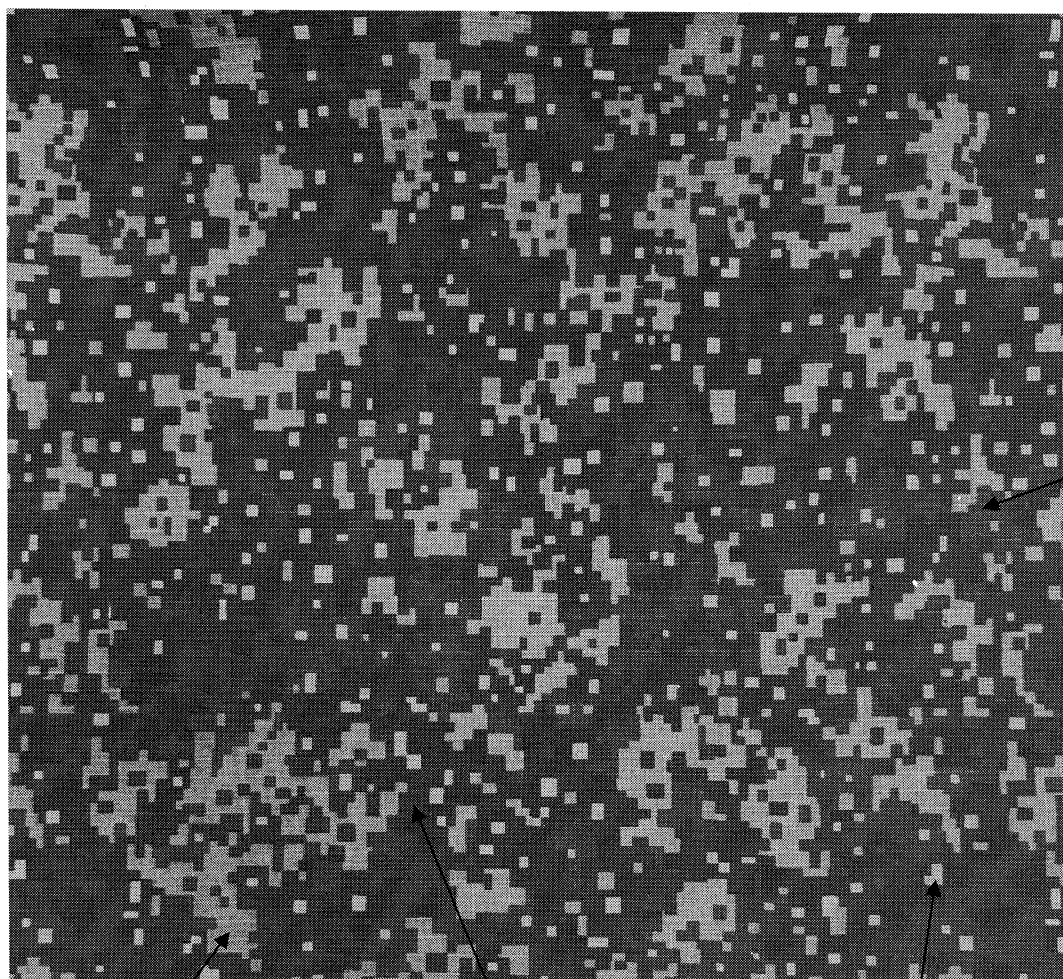


Fig. 1. Disruptive Pattern Print- One repeat of the design

(for true colours refer Table 2A, 2B, 2C and 2D (LC h° and XYZ value)

**SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL
PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON,
POLYESTER AND SPANDEX (80:19:1)]”**

HIMACHAL PRADESH POLICE (HPP)



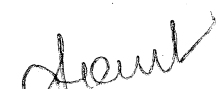
Olive/Angola
Table-2D

Khaki
Table-2A

Navy Blue
Table-2B

Yellow
Table-2C

Fig.2 Cloth Disruptive Pattern Print-Color specification for Himachal Pradesh Police


Director General of Police,
Himachal Pradesh.

**SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL
PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON,
POLYESTER AND SPANDEX (80:19:1)]”**

HIMACHAL PRADESH POLICE (HPP)

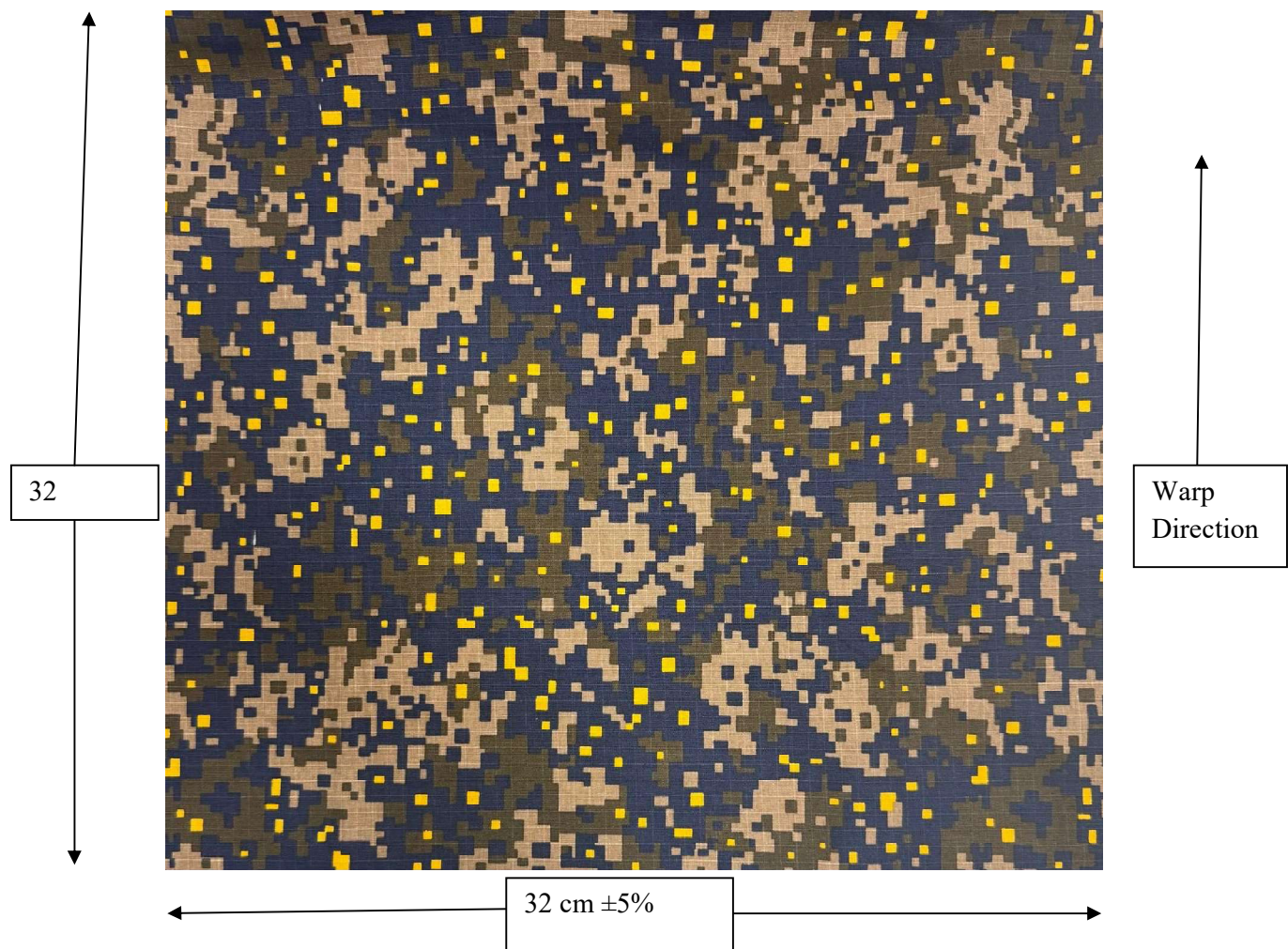


Fig. 1. Disruptive Pattern Print- One repeat of the design

(for true colours refer Table 2A, 2B, 2C and 2D (LC h° and XYZ value))

**SPECIFICATIONS OF “CLOTH LFCD DISRUPTIVE DIGITAL
PATTERN UNIFORM FOR HP POLICE PERSONNEL [COTTON,
POLYESTER AND SPANDEX (80:19:1)]”**

HIMACHAL PRADESH POLICE (HPP)

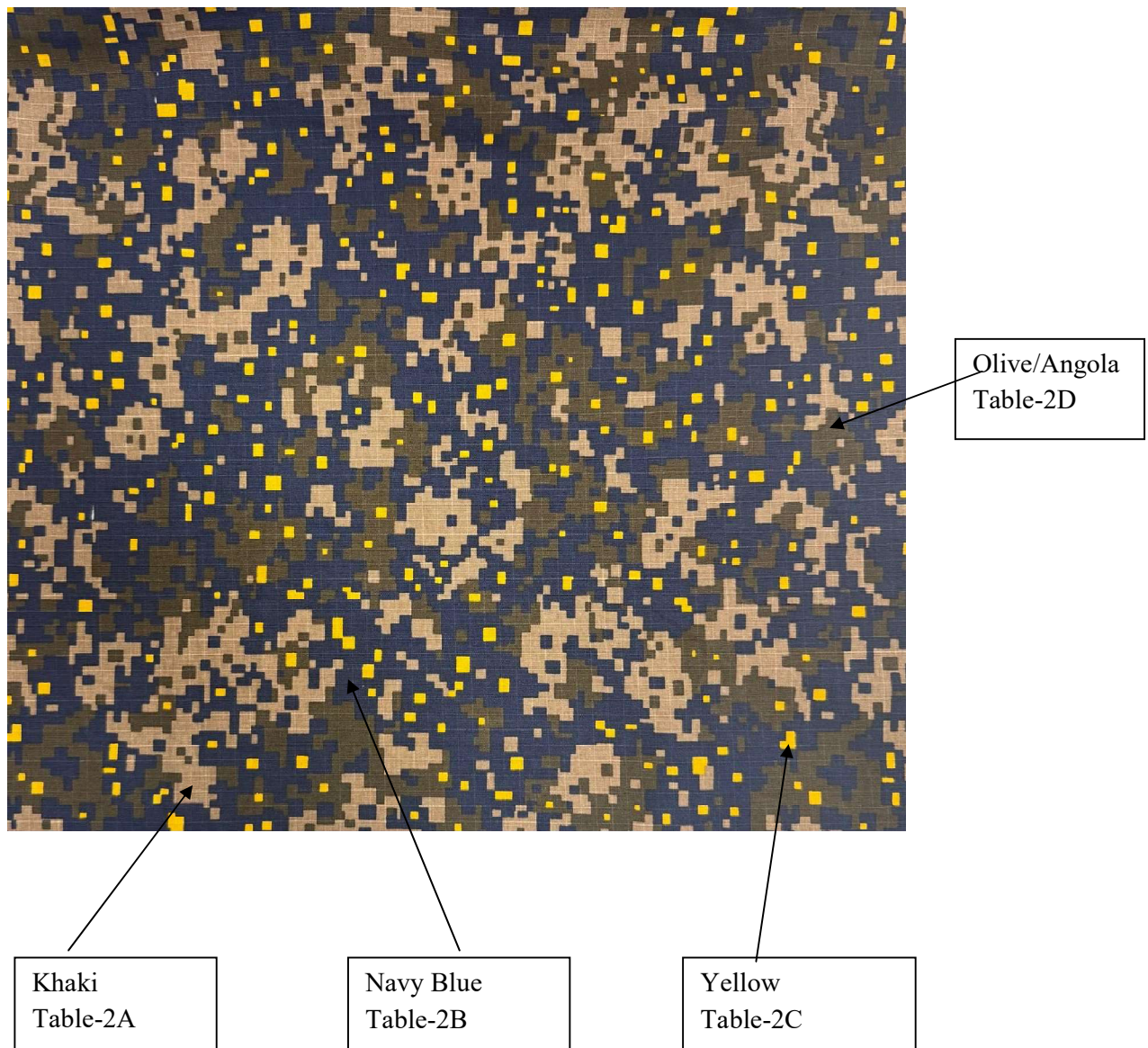


Fig.2 Cloth Disruptive Pattern Print-Color specification for Himachal Pradesh Police

SD/-
Director General of Police,
Himachal Pradesh.