

Directorate General CRPF
Block No. 1, CGO Complex, New Delhi-110003
(Govt. of India/Ministry of Home Affairs)
(Phone / Fax- 011-24360155)
(E-Mail- digprov@crpf.gov.in)

No. U.II-98(Spec)/2024-25-Prov-14 (BSF LFCD-Digital) Dated, the 15th February 2024

To

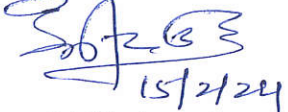
The Directorate General,
AR, BPR&D, CISF, CISF, ITBP, NSG and SSB HQr.

Subject: Regarding uploading of approved of revised QRs/Specification of "Cloth disruptive digital pattern uniform for BSF personnel".

BSF Directorate vide their letter No. P-630131/193/01/2024/Mod-I/BSF-307 dated 05/02/2024 ~~has~~ forwarded the draft QRs/Specification of "Cloth disruptive digital pattern uniform for BSF personnel".

2. On the subject matter, revised QRs/Specification of "Cloth disruptive digital pattern uniform for BSF personnel" was approved by **DG, CRPF vide note sheet dated 12/02/2024** (empowered vide MHA O.M. IV-24011/12/2011-Prov.I dated 13/06/2012 and F. No. 11012/02/2009-Fin-I/Prov-I-17 dated 02/01/2018) is enclosed herewith for further needful action please.

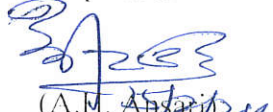
Encl: As above.


(A.H. Ansari)
DIG (Prov) Dte

No. U.II-98(Spec)/2024-25-Prov-14 (BSF LFCD-Digital) Dated, the February 2024

Copy forwarded to:-

1. The Directorate General, Border Security Force in this regard referred this Directorate letter of even number dated 13/02/2024 please.
2. SO (IT), North Block-with request to upload the approved QRs/Specification of "**Cloth disruptive digital pattern uniform for BSF personnel**" on MHA Website (e-mail ID :soit@nic.in).
3. **Sh. Paritosh Singhal, ACEO(GeM)**, Government of India, Ministry of Commerce & Industry, Government e-Marketplace, Jeevan Tara Building, 5-Parliament Street, New Delhi-110001 with request to upload the approved QRs/Specification of "**Cloth disruptive digital pattern uniform for BSF personnel**" on GeM Portal. On the matter, further clarification regarding creation of category may be communicated to BSF HQr please.


(A.M. Ansari)
DIG (Prov) Dte

QRs & TDs of Cloth Disruptive Digital Pattern Uniform for BSF Personnel

S/No	Qualitative Requirements	Test Method	Result expected /desired	
1.	Material	Cotton+Polyster +Spandex	-	Must be as per QRs.
2.	Count of yarn -Wrap -Weft	2/32 2/32 + 16 Spandex	IS 3442:1980	Must be as per QRs.
3.	Construction	Warp - 84 Weft - 48	IS 1963	Must be as per QRs.
4.	Weave Weave Pattern	PLAIN RIP STOP Warp: 24+3 Weft: 12+2	Visual	Must be as per QRs.
5.	Blend Composition(%)	Cotton -80%±3% (77.6-82.4) Polyester- 19%±3% (18.43-19.57) Spandex - 1%±3% (0.97-1.03)	IS 3416 (Pt 1):1988	Must be as per QRs.
6.	End/dm	330±5% (313.5- 346.5)	IS 1963 :1981	Must be as per QRs.
7.	Picks/dm	190±5% (180.5-199.5)	IS 1963: 1981	Must be as per QRs.
8.	Width, cm (Minimum) (Excluding selvedge)	150±5% (142.5-157.5)	IS 1954:1990	Must be as per QRs.
9.	Mass, gm/m ²	205±5% (194.75-215.25)	IS 1964: 2001	Must be as per QRs.
10.	Breaking strength Newton (Minimum) -Wrap-wise -Weft wise	700 280	IS 1969: 2018 (Part-1) (5 cm x 20 cm between grip)	Must be as per QRs.
11.	Tearing Strength, Newton (Minimum) -Wrap-wise -Weft-wise	30 17	IS 6489(Part-1): 2011	Must be as per QRs.
12.	Colour fastness to washing after 20 washes -Change in colour -Staining on cotton fabric	4 or better 4 or better	IS/ISO 105 C10 C (3): 2006 (Repeated four times)	Must be as per QRs.

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S/No	Qualitative Requirements	Test Method	Result expected /desired
13.	Colour fastness to perspiration -Change in colour -Staining on adjacent fabric	4 or better 4 or better	IS /ISO 105 -E04: 2013 Must be as per QRs.
14.	Colour fastness to rubbing -Dry -Wet	Rating 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 Must be as per QRs.
15.	Colour fastness to light	4 or better	IS/ISO 105-B02: 2014 Must be as per QRs.
16.	Dimensional Change due to relaxation, both direction, percentage maximum	3.0%	IS 2977:1989 Must be as per QRs.
17.	Dimensional stability to dry heat (both direction) percentage, maximum	3.0%	IS 12170: 1987 Temperature 150±2°C Must be as per QRs.
18.	pH value of aqueous extract	6.0-8.5	IS 1390 :2022 (Cold method) Must be as per QRs.
19.	Water soluble matter, %, Maximum	1	IS 3456:2022 Must be as per QRs.
20.	Pilling resistance, Grade, Minimum	4	IS 10971:2022 (Part-I) Must be as per QRs.
21.	Air permeability cc/sec/cm ² , Minimum	7	IS 11056:2013 Must be as per QRs.
22.	Drape Co efficient %	60-70	IS:8357:1977 Must be as per QRs.
23.	Water Vapour permeability, g/m ² /day, Minimum	1500	ASTM E-96,/E96M-05 (water method), RG: 50±2 % and Temperature: (32±2)°C velocity =0.5-2.5m/sec Must be as per QRs.
24.	Identification of dye for printing Identification of dye for base fabric	Vat Disperse + vat	IS 4472 (Part I): 2021 Must be as per QRs.
25.	Colour difference (E) For base colour For other colours	≤1.2 ≤1.5	See Tables 2A 2B, 2C and 2D (Also see Fig.2) Must be as per QRs.

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S/No	Qualitative Requirements	Test Method	Result expected /desired	
26.	Anti-microbial finish	99% Anti-bacterial activity (protection) after 20 laundry washes.	AATCC 100 as per ISO 6330 at 40°C. Tumble dry	Must be as per QRs.

by.

 (Anurag Garg) IPS, ADG (Log), BSF

Adarsh

 (Sukumar Sarangi), DIG (Prov), BSF

Dhendra

 (Dhirendra Singh Sindhu), DIG(CTS), BSF

Ashu

 (Brig. Navrattan Joshi), PSO, BPR&D

Ajeet

 (Ajeet Kumar), Comdt, (SIW), BSF

B S Chandra

 (B S Chandrael), 2IC (TPT), BSF

Vikram

 (Vikram Singh), 2IC, CRPF

Ashok Kumar

 (Ashok Kumar), AC, CISF

Ph. K K Sharma

 (Ph. K K Sharma), AC, SIW, BSF

Inspr/GD Salam Babu Singh

 (Inspr/GD Salam Babu Singh), CRPF

Inspr Kunwar Singh

 (Inspr Kunwar Singh), ITBP

Sub D P Mishra

 (Sub D P Mishra), Assam Rifle

Nb Sub Yogesh Chauhan

 (Nb Sub Yogesh Chauhan), 52 NSG

✓
Approved/ Not approved

Director General

 Director General
 CRPF

Directorate General CRPF
Block No. 1, CGO Complex, New Delhi-110003
(Govt. of India/Ministry of Home Affairs)
(Phone / Fax- 011-24360155)
(E-Mail- digprov@crpf.gov.in)

No. U.II-98(Spec)/2024-25-Prov-14 (BSF LFCD-Digital) Dated, the 03rd May' 2024

To

The Directorate General,
AR, BPR&D, CISF, ITBP, NSG and SSB HQr.

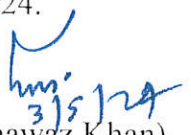
Subject : **Corrigendum to QRs/Specification of "Cloth disruptive digital pattern uniform for BSF personnel".**

Please refer this Directorate's letter number U.II-98(Spec)/2024-25-Prov-14 (BSF LFCD-Digital) dated 15/02/2024, vide which QRs/Specifications of "**Cloth disruptive digital pattern uniform for BSF personnel**" duly approved by the competent authority was forwarded to your office as well as for uploading on the websites of MHA and GeM portal.

2. Corrigendum to parameters of Water Vapour permeability mentioned on Sl. No. 23 is as under: -

FOR			READ		
Sl. No.	Qualitative Requirements	Test Method	Sl. No.	Qualitative Requirements	Test Method
23	Water vapour permeability g/m ² /day, Minimum	1500 ASTM E-96/E96M-05 (Water method), RG:50±2% and Temperature: (32±2) ⁰ C Velocity = 0.5-2.5 m/sec	23	Water vapour permeability mg/cm ² /hr Minimum	15 ASTM E-96/E96M: 2016 (Water Method), Temperature: (32±2) degree Celsius, RH: 50±2% (Upright method) Air Velocity = 0.5-2.5 m/sec

3. This has the approval of DG, CRPF on note sheet dated 02/05/2024.


(Shahnawaz Khan)
DIG (Prov) Dte

Contd. P/2.

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No. U.II-98(Spec)/2024-25-Prov-14 (BSF I.FCD-Digital) Dated, the 30th May' 2024
Copy forwarded to:-

1. **The Directorate General, Border Security Force**, this disposes their letter number P-63013/193/01/2024/Mod-I/BSF/1336 dated 29/04/2024 please.
2. SO (IT), North Block-with request to upload the approved QRs/Specification of "**Cloth disruptive digital pattern uniform for BSF personnel**" on MHA Website please (e-mail ID : soit@nic.in).
3. **Shri Anoop Dhanvijay**, Director- Buyer Management (CPSEs & Central Ministries), Government of India, Ministry of Commerce & Industry, Government e-Marketplace, Jeevan Tara Building, 5-Parliament Street, New Delhi-110001 with request to upload the approved QRs/Specification of "**Cloth disruptive digital pattern uniform for BSF personnel**" vide this Directorate letter of even number dated 15/02/2024 along with this corrigendum on GeM Portal please.

(Encl-Complete QRs/Spec with parameters as per corrigendum)


(Shahnawaz Khan)
DIG (Prov) Dtc