Tender Covering Form

Directorate of Procurement (Navy)
Through Bahria Gate, Near SNID Center,Naval Residential Complex, E-8, Islamabad

Contact: Reception 051-20062074, Bahria Gate 0331-5540649, Section 051-9262314

Tender No & Date 625034/R-2611/330386 dated 04 NOV 26

Tender Description STITCHING OF JOCKEY CAP FLAT TOP FOR DIGITAL CAMOUFLAGE DRESS GENERAL SERVICE, SSG(N) AND PAK MARINES

IT Opening Date 26 NOVEMBER 2026

Firm Name _____

Postal Address _____

Email Address for Correspondence _____

Contact Person Name _____

Contact Number (Landline _____) (Mobile _____)

Documents to be Attached with Quotation

Firm is to submit its proposal in a sealed envelope which shall contain 03 x Sealed Envelops as per details given below:

Sealed Envelop 1 – Technical Offer in Duplicate

This envelope must contain 02 x sets of Technical Offer (01 x Original + 01 x Copy). Each Set must contain following documents as per this order and Supplier is to mark tick ✓ against each to ensure that these documents have been attached:

S No	Document	Original Set	Copy Set
1.	Bank Challan		
2.	Principal Authorization Letter (where applicable)		
3.	Principal Invoice (Muted – without Price) (where applicable)		
4.	DP -1 Form of IT (with compliance remarks)		
5.	DP – 2 Form of IT with compliance remarks against each clause		
6.	Technical Offer / Specs		
7.	Annexes of IT		
8.	DP-3 form of IT (dully filled & signed)		
9.	DGDP Registration Letter (If firm is registered with DGDP)		
10.	Income Tax Filling Proof		
11.	Sales Tax Registration Proof		
12.	Affidavit/ Undertaking of Provisional registration on judicial stamp paper of value Rs. 100		

Sealed Envelop 2 – Earnest Money

This Envelop must contain Earnest Money only.

Sealed Envelop 3 – Commercial Offer

This Envelop must contain following documents:

1.	Firm's Commercial Offer	01 x Original
2.	Principal Invoice (where applicable)	01 x Original
3.	Dully filled DP-2 Form of IT	01 x Original

Firm's Declaration

It is certified that we have submitted tender in compliance with above instructions and we understand that our offer is liable to rejection if tender is not prepared / packed as per above instructions.

Firm's Authorized Signatures _____

DIRECTORATE PROCUREMENT (NAVY)

Tender No. 625034/R2611/330386
Directorate of Procurement (Navy)
Through Bahria Gate
Near SNIDS Centre,
Naval Residential Complex, E-8,
Islamabad
Contact: Reception: 051-20062074
Bahria Gate: 0331-5540649
Section: 051-9262314
Email: dpn@paknavy.gov.pk
adpn33@paknavy.gov.pk

M/s_____
_____
_____
_____ Date _____

INVITATION TO TENDER AND GENERAL INSTRUCTIONS

Dear Sir / Madam,

1. DP (Navy) invites you to tender for the supply of stores/equipment/ services as per details given in attached Schedule to Tender (Form DP-2).

2. **Caution**: This tender and subsequent contract agreement awarded to the successful bidder is governed by the rules / conditions as laid down in PPRA Rules-2004 and DPP&I-35 (Edition 2024) covering general terms & conditions of contracts laid down by MoD / DGDP. As a potential bidder, it is incumbent upon you and your firm to first acquaint yourself with PPRA Rules 2004 (**www.ppra.org.pk**) and DPP&I-35 (Edition 2024) (print copy may be obtained from DGDP Registration Cell on Phone No. 051-9270967 before participating in the tender. If your firm / company possesses requisite technical as well financial capability, you must be registered or willing to register with DGDP to qualify for award of contract, which shall be made after security clearance and provision of required registration documents mentioned in Para 15 of this DP-1.

Understood agreed ☐ Understood not agreed ☐

3. Conditions Governing Contracts. The 'Contract' made as result of this I/T (Invitation to Tender) i.a.w PPRA Rules 2004 shall mean the agreement entered into between the parties i.e. the 'Purchaser' and the 'Seller' on Directorate General Defence Purchase (DGDP) contract Form "DP-19" in accordance with the law of contract Act, 1872 and those contained in Defence Purchase Procedure & Instructions and DPP&I-35 (Edition 2024) and other special conditions that may be added to given contract for the supply of Defence Stores / Services specified herein.

Understood agreed ☐ Understood not agreed ☐

4. **Delivery of Tender.** The tender documents covering technical and commercial offers are to be furnished as under:-

a. **Commercial Offer.** The offer will be in duplicate and indicate prices quoted in figures as well as in words in the currency mentioned in IT. It

Understood agreed ☐ Understood not agreed ☐

should be clearly marked in fact on a separate sealed envelope **"Commercial Offer"**, tender number and date of opening. Taxes, duties, freight/transportation, insurance charges FATs Local Training, Foreign Training, Installation Commissioning, Services Taxes etc are to be indicated separately. Total price of the items quoted against the tender is to be clearly mentioned. In case of more than one option offered by the firm, DP(N) reserves the right to accept lowest technically accepted option if more than one options were accepted in Technical Scrutiny Report.

b. **Technical Offer: (Where Applicable).** Should contain all relevant specifications in DUPLICATE (or as specified in IT) along with essential literature/brochure, drawings and compliance metrics in a separate sealed envelope and clearly marked "Technical Offer" without prices, with tender number and date of opening. Technical offer shall be opened first; half an hour after the date and time for receipt of tender mentioned in DP-2. Firms are to confirm/comply with IT technical specification in the following format:

Understood agreed ☐ Understood not agreed ☐

S.No	***Technical requirement as per IT***	***Firm's endorsement (Comply/ Partially Comply/ Non Comply***	***Basis of C, PC of NC i.e. Refer to page or brochure***	***In case of non availability of enclosed proof from brochure/ Literature, quote/ attach additional documents/ data/undertaking as proof of compliance***

(Legend: C = Fully Comply, PC = Partially Comply, NC = Not Comply)
(Firms must clearly identify where their offer does not meet or deviates from IT Specs)

c. **Special Instructions.** Tender documents and its conditions may please be read point by point and understood properly before quoting. All tender conditions should be responded clearly. In case of any deviation due to non-acceptance of tender conditions(s), **the same should be highlighted alongwith your offered conditions. Tender may however be liable to be rejected.**

Understood agreed ☐ Understood not agreed ☐

d. Firms shall submit their offers in two separate envelopes (i.e. two copies of commercial offer and two or more copies of the technical offer as asked in the IT) and envelops clearly marked "Technical proposal", "Commercial proposal" in bold. The commercial offer will include rates of items/services called for and the technical offer will not indicate the rates. Both types of offers are to be enclosed in separate covers and each envelope shall be properly sealed bearing the signature of the bidder. Each cover shall indicate type of offer, number and date of IT and IT opening date. Thereafter both the envelopes (technical and commercial offer) shall be placed in one envelope (second cover) duly sealed and signed. This cover should bear the address of the procurement agency indicating, issuance date of IT and No, with its opening date. This should be further placed in another cover (third cover), addressed and indicated

in the tender documents, without any indication that there is a tender within it.

e. **FORM DP-1, DP-2, DP-3 and Questionnaires.** Form DP-1, DP-2 (alongwith annexes), DP-3 and Questionnaires duly filled in are to be submitted with the offer duly stamped/signed by the authorized signatory/ person. It is pertinent to mention that all these are essential requirement for participation in the tender.

Understood agreed ☐ Understood not agreed ☐

f. The tender duly sealed will be addressed to the following:-

Directorate of Procurement (Navy)
Through Bahria Gate, Near SNIDS Centre,
Naval Residential Complex, E-8,
Islamabad
Contact: Reception: 051-20062074
Bahria Gate: 0331-5540649
Section: 051-9262314
Email: dpn@paknavy.gov.pk
adpn33@paknavy.gov.pk

5. **Date and Time For Receipt of Tender.** Tender must reach this office by the date and time specified in the Schedule to Tender (Form DP-2) attached. This Directorate will not accept any excuse of delay occurring in post. **Tenders received after the appointed/ fixed time will NOT be entertained.** The appointed time will, however, fall on next working day in case of closed/forced holiday. Only legitimate/registered representatives of firm will be allowed to attend tender opening. In case your firm has sent tender documents by registered post or courier service, you may confirm their receipt at DP (Navy) on Phone No 051-9262314 well before the opening date / time.

Understood agreed ☐ Understood not agreed ☐

6. **Tender Opening.** Tenders will be opened as mentioned in the schedule to tender. Commercial offers will be opened at later stage if Technical Offer is found acceptable on examination by technical authorities of Service HQ. Date and time for opening of Commercial offer shall be intimated later. Only legitimate / registered representative of firm will be allowed to attend tender opening. Tenders received after date & time specified in DP-2 would be rejected without exception and returned un-opened i.a.w Rule 28 of PPRA-2004.

Understood agreed ☐ Understood not agreed ☐

7. **Validity of Offer.**

a. The validity period of quotations must be indicated and should invariably be 120 days from the date of opening of commercial offer or 30th June whichever is later. Firm undertakes to extend validity of offer if required by equal number of original bid period (i.e. 120 days as per original offer) i.a.w PPRA Rule-26.

Understood agreed ☐ Understood not agreed ☐

b. The quoting firm will certify that in case of an additional requirement of the contract items (s) in any qty(s) within a period of 12 months from the date of signing the contract, these will also be supplied at the ongoing contract rates with discount.

8. **Part Bid.** Firm may quote for the whole or any portion, or to state in the tender that the rate quoted, shall apply only if the entire quantity/ range of stores is taken from the firm. The Director Procurement reserves the right of

accepting whole or any part of the tender or portion of the quantity offered, and firm shall supply these at the rate quoted.

9. **Quoting of Rates.** Only one rate will be quoted for entire quantity, item wise. In case quoted rates are deliberately kept hidden or lumped together to trick other competitors for winning contract as lowest bidder, DP(N) reserves the right to reject such offers on-spot besides confiscating firm's Earnest Money / Bid Security and take appropriate disciplinary action. Conversion rate of FE/LC components will be considered w.e.f. opening of commercial offer as per PPRA Rule-30(2).

Understood agreed ☐ Understood not agreed ☐

10. **Return of IT** ITs are to be handled as per following guidelines:

Understood agreed ☐ Understood not agreed ☐

a. For registered firm(s), case will be referred to DGDP for necessary administrative action if firms registered / indexed for tendered items/stores do not quote / participate.

b. It is a standard practice to invite all firm(s) including those un-registered with DGDP who gave their preliminary budgetary/ technical proposals to end users / indentors. If your firm has been invited to participate in the tender, you must either participate in tender. In case of your inability to do so, you must inform DP (Navy) by a formal letter/email.

11. **Withdrawal of Offer** Firms shall not withdraw their commercial offers before signing of the contract and within validity period of their offers. In case the firm withdraws its offer within validity period and before signing of the contract, Earnest Money of the firm shall be confiscated and disciplinary action may also be initiated for embargo.

Understood agreed ☐ Understood not agreed ☐

12. **Provision of Documents in case of Contract**. In case any firı wins a contract, it will deposit following documents before award of contract:

Understood agreed ☐ Understood not agreed ☐

a. Proof of firm's financial capability.
b. Foreign Seller has to provide its Registration Number issued by respective Department of Commerce authorizing export of subject stores.
c. Principal/Agency Agreement.
d. Registration with DGDP (Provisional Registration is mandatory)

13. **Treasury Challan.**

a. Offers by registered firms must be accompanied with a Challan form of Rs.200/- (obtainable from State Bank of Pakistan/Government Treasury) and debit able to Major Head C02501-20, Main Head-12, Sub Head 'A' Miscellaneous (Code Head 1/845/30). Each offer will be covered by one Challan.

Attached ☐ Not Attached ☐

b. Firms, un-registered / un-indexed with DGDP (Registration Section) are to acquire prior approval from DP (Navy) to participate in the tender competition through formal application accompanied by Challan Form of Rs 300 in favour of CMA (DP).

14. **Earnest Money/Tender Bond:-** Your tender must be accompanied by a **Call Deposit Receipt (CDR) in favor of CMA (DP),** Rawalpindi for the following amounts:-

Attached ☐ Not Attached ☐

a. **Submitting improper Earnest Money**. Earnest Money/Bid Security furnished with tender is strictly in conformity of tender/IT conditions (Clause 14 of DP-1 and clause 10 of DP-2) on the subject. We have no objection on confiscation of Earnest Money/Bid security and rejection of our offer in case amount of Earnest Money/Bid Security is improper / insufficient in violation of IT condition.

b. **Rates for Contract**. The rate of earnest money and its maximum ceiling for different categories of firms would be as under:-

(i) **Registered/Indexed/Pre-Qualified Firms**. 2% of the quoted value subject to maximum ceiling of **Rs. 0.500 Million.**

(ii) **Registered/Pre-Qualified but Un-indexed Firms**. 3% of the quoted value subject to maximum ceiling of **Rs. 0.750 Million.**

(iii) **Unregistered/not Pre-Qualified/Un-indexed Firms**. 5% of the quoted value subject to maximum ceiling of **Rs. 1.000 Million.**

c. **Return of Earnest Money**

(i) Earnest money to the unsuccessful bidders will be returned on finalization of the contract.

(ii) Earnest money of the firm/firms with whom contract is concluded will be returned on submission of Bank Guarantee and its acceptance by CMA (DP).

d. Photocopy of EM must be attached with Technical Offer as proof after hiding the amount with black Bold Marker.

15. Documents for provisional registration: In case your firm wins a contract on Earnest Money (EM) , it will deposit following documents to DGDP (Registration Section) before the award of contract for provisional registration:-

Understood agreed ☐ Understood Not agreed ☐

S No	Local Supplier	Foreign Supplier
a.	Three filled copies of SVA-8121 of each member of management.	Three filled copies of SVA-8121-D of each member of management.
b.	Three filled copies of SVA-8121-A	Three filled copies of SVA-8121.
c.	Three photocopies of NIC for each member of management.	Three photocopy of Resident Card or equivalent identification Card for each member of management.
d.	Three PP size photographs for each member of management.	Three PP size Photographs for each member of management.
e.	Challan Form	Challan Form
f.	Bank Statement for last one year.	Financial standing/audit balance sheet
g.	Photocopy of NTN	Photocopy of passport
h.	Foreign Principal Agency Agreement in case of local agent.	Agency Agreement in case of Trading House/ Company/ Exporter /Stockiest etc.

16. **Inspection Authority.** Inspection will be carried out by relevant Inspecting Authority of PN, Consignee & Specialist User or a team nominated by Pakistan Navy in light of DPP&I 35 (Revised 2024).

Understood agreed ☐ Understood not agreed ☐

(Note: CINS shall not be held responsible or liable for any loss, damage or injury to the supplier/ firm's assets, items under inspection, equipment, infrastructure or personnel that may occur during or in connection with the inspection activities/ operations carried out by CINS inspectors. The supplier firm shall be responsible for ensuring the safety and protection of tits facilities, equipment, materials and personnel during the inspection process.)

17. **Condition of Stores.** Brand new stores will be accepted on Firm's Warranty/Guarantee Form DPL-15 enclosed with contract.

Understood agreed ☐ Understood not agreed ☐

18. **Documents Required.** Following documents are required to be submitted along with the quote:

Understood agreed ☐ Understood not agreed ☐

a. The firm/supplier shall provide correct and valid e-mail and Fax No to PN Inspecting Authority and DP(N). Supplier/contracting firm shall either provide OEM Conformance Certificate to PN Inspecting Authority or is to be e-mailed to PN Inspecting Authority under intimation to DP (Navy). Hard copy of COC must follow in any case through courier. On receipt, PN Inspecting Authority shall approach the OEM for verification of Conformance Certificates issued by OEM. Companies/firms rendering false OEM Conforming Certificates will be blacklisted.

b. Original quotation/Principal/OEM proforma invoice.

c. In case of bulk proforma invoice, a certificate that prices indicated in the bulk proforma invoice have not been decreased since the date of bulk proforma invoice from the manufacturers/ suppliers.

d. Submit breakup of cost of stores/ services on the following lines:

(i) Imported material with break down item wise along-with import duties.
(ii) Variable business overheads like taxes and duties imposed by the federal/ provincial government as applicable:-
  (1) General Sales Tax
  (2) Income Tax
  (3) Custom Duty. PCT code along with photocopy of the related page is to be attached where applicable.
  (4) Any other tax/duty.
(iii) Fixed overhead charges like labour, electricity etc.
(iv) Agent commission/profit, if any.
(v) Any other expenditure/cost/service/remuneration as asked for in the tender.

19. **Rejection of Stores/Services.** The stores/services offered as a result of contract concluded against this tender may be rejected as follows:

Understood agreed ☐ Understood agreed ☐

a. 1st rejection on Govt. expense
b. 2nd rejection on supplier expense

c. 3rd rejection then contract cancellation will be initiated on RE in light of DPP&I-35 (Revised 2024).

20. **Bank Guarantee .** To ensure timely and correct supply of stores the firm will furnish an unconditional Bank Guarantee (BG) from a schedule Bank of Pakistan for an amount upto 10 % of the contract value (excluding Taxes, duties/freight handling charges) on a Judicial Stamp Paper (All pages) of the value of (Rs 100.00) as per prescribed format or in shape of CDR/Bank Draft/Pay Order. The Bank Guarantee shall be endorsed in favour of CMA (DP) Rawalpindi who is the Accounts Officer specified in the contract. The CMA (DP) Rawalpindi has the like power of seeking encashment of the Bank Guarantee as if the same has been demanded by the purchaser himself. The Bank Guarantee shall be produced by the supplier within 30 days from the date of issue of the contract and remain valid for upto 60 days after completion of warranty period and remain in force till one year ahead of the delivery date given in the contract. If delivery period is extended, the supplier shall arrange the extension of Bank Guarantee within 30 days after the original delivery period to keep its validity always one year ahead of the extended delivery period. The BG form can be obtained from DP(N) on e-mail address given on page 1. Format of BG is enclosed at Annex B.

Understood agreed ☐ Understood not agreed ☐

21. **Integrity Pact.** There shall be “zero tolerance” against bribes, gifts, commission and inducement of any kind or their promises thereof by Supplier / Firm to any Government official / staff whether to solicit any undue benefit, favour or otherwise. Integrity Pact amended at Annex D shall be signed by Supplier. Moreover, following provisions must be clearly read & understood for strict compliance:

Understood agreed ☐ Understood not agreed ☐

a. Integrity Pact shall be applicable to all tenders / contracts irrespective of their financial value. However, a written Integrity Pact shall be signed for contracts exceeding Rs 10 Million between the procuring agency and the supplier / contractor i.a.w Rule-7 of PPRA-2004. The form is available at www.ppra.org.pk or can be requested at adpn33@paknavy.gov.pk

b. If a Supplier / Contractor is found involved in any unbusiness-like / unethical activity, same would be considered a serious breach of the Integrity Pact. DP (Navy) shall take severe disciplinary action against that person(s) and the firm / company, which may include, but not limited to, **PERMANENT BLACKLISTING** of firm / company through DGDP and legal action against the individual (s) involved as per Pakistan’s Code of Criminal Procedure.

c. It is strictly forbidden to socialize, call or meet any official / staff of DP (Navy) in private or during off hours. If any official / staff from Purchaser side asks for any undue favour or gratification directly or indirectly, the matter is to be immediately brought to the personal notice of Director Procurement (Navy) on Tel: 051-9271468 or through a personal meeting in office. Privacy of firms and their Reps sharing such information will be guaranteed without any prejudice to their normal business activities.

22. **Correspondence.** All correspondence will be addressed to the Purchaser i.e. DP (Navy). Correspondence with regard to payment or issue of

Understood agreed ☐ Understood not agreed ☐

delivery receipt may be addressed to CMA Rawalpindi & Consignee respectively with copy endorsed to the DP (Navy).

23. **Pre-shipment Inspection**.PN may send a team of officers including DP(N) member for the inspection of major equipments and machinery items at OEM premises as per terms of contract. If not already provided for and mentioned in the I.T, firm(s) must clarify the place, number of persons, duration and whether expenses on such visits would be borne by the Purchaser or Contractor. In case contractor is responsible for bearing such expenses, detailed breakdown of the same should be given separately in the commercial offer.

Understood agreed ☐ Understood not agreed ☐

24. **Amendment to Contract.** Contract may be amended/ modified to include fresh clause (s) or modify the existing clauses with the mutual agreement by the supplier and the purchaser. Such modification shall form an integral part of the contract.

Understood agreed ☐ Understood not agreed ☐

25. **Discrepancy**. The consignee will render a discrepancy report to all concerned within 30 days after receipt of stores for discrepancies found in the consignment. The quantities found short are to be made good by the supplier, free of cost.

Understood agreed ☐ Understood not agreed ☐

26. **Price Variation.**

a. Prices offered against this tender are to be firm and final.

Understood agreed ☐ Understood not agreed ☐

27. **Force Majeure**

a. The Parties will not be held responsible for any non-fulfillment or delay in carrying out the contractual obligations due to an event of Force Majeure such as acts of God (earthquake, flood, fire, typhoon, hurricane, mass epidemic diseases), war (military actions, subversive activities or sabotages), riots, civil commotion, strike, lockouts, prohibitive measures of governments (prohibition of trade relations with certain countries as a result of UN sanctions etc) directly affecting the parties and any event or circumstances on which the parties has no control.

Understood agreed ☐ Understood not agreed ☐

b. To be deemed force-majeure, the said events should be of extraordinary, unpredictable and unavoidable nature, and occur after the contract comes into force and be beyond the control of the Parties.

c. Should be the force-majeure circumstance occur, the suffering party must notify in writing the other party within 30(thirty) days from occurrence thereof. The notice should contain information about the nature of the circumstance and, if possible, an evaluation or estimate of their probable impact upon performance of obligations under the contract, as well as the time required for such performance.

d. Upon termination of the above-mentioned circumstances, the suffered party should promptly give a relevant written notice to the other party. The notice should specify the time within which performance of obligations under the contract is being suggested.

e. Within reasonable time, the party exposed to force-majeure should transfer to other party a certificate issued by the legal authorities as evidence of occurrence of the force-majeure situation.

f. Should the force-majeure situation occur, the timing of performance by the parties of their respective obligations under the contract shall be extended adequately by adding on the duration of such circumstances and consequences thereof.

g. Should the force-majeure circumstances continue for more than consecutive 60 (sixty) days, the parties shall negotiate and coordinate appropriate measures needed to perform their respective obligations under the contract. If duration of such circumstances exceeds 6 (Six) months and the parties fail to agree on further coordinated measures to perform their respective obligations, the Contracting Party (Purchaser) shall have the right to terminate the contract, whether partially or wholly, free of any subsequent claims, by sending a written termination notice to the other party (Seller).

h. The Purchaser may not claim LD in relation to delays in delivery, provided that such delays have been caused by occurrence of a force-majeure event.

j. Delay in obtaining the export licenses, permits, and/or third-party certificate may not be counted as force-majeure.

28. **Arbitration.** Parties shall make their attempt to settle all disputes arising under this contract through friendly discussions in good faith. In the event that either party shall perceive such friendly discussion to be marking insufficient progress towards settlement of dispute(s) at any time, then such party may be written notice to the other party to refer the dispute (s) to final and binding arbitration as provided below:

Understood agreed ☐ Understood not agreed ☐

a. The dispute shall be referred to Secy (MoD) for his discussion.

b. The venue of arbitration shall be the place as the Purchaser at his discretion may determine.

c. Decision of Secy (MoD) shall be final and binding on both the parties.

d. In course of arbitration, the contract shall be continuously be executed except that part which is under arbitrating.

e. All proceedings under this clause shall be conducted in English language and writing.

29. **Court of Jurisdiction**. In case of any dispute, the courts of Islamabad / Rawalpindi. Pakistan shall have the jurisdiction to decide the matter.

Understood agreed ☐ Understood not agreed ☐

30. **Liquidated Damages(LD).** Liquidated Damages upto 2% per month are liable to be imposed on the suppliers by the purchaser in accordance with DP-35, if the stores supplied after the expiry of the delivery date without any valid reasons. Total value of LD shall not exceed 10% of the contract value. Grace period of shall be 21 days.

Understood agreed ☐ Understood not agreed ☐

31. **Risk Purchase.** In the event of failure on the part of supplier to comply with the contractual obligations the contract will be cancelled at the Risk and Expense (RE) of the supplier in accordance with DPP&I-35 (Revised 2024). The purchaser shall be entitled to receive back all advance payment made by him and will have the right to purchase the store of similar or equivalent specification from elsewhere. In such a case the price difference (if any over and above the net LC value of this contract) will be paid by supplier as confiscation for RE amount.

Understood agreed ☐ Understood not agreed ☐

32. **Compensation Breach of Contract.** If the contractor fails to supply the contracted stores or contract is cancelled either on RE or without RE or contract become ineffective due to default of supplier / seller or stores / equipment declared defective and caused loss to the Government, contractor shall be liable to pay to the Government compensation for loss or inconvenience resulting for his default or from the rescission of his contract when such default or rescission take place such compensation will be in excess to the RE amount, if imposed by the competent authority. Compensation amount in terms of money will be decided by the purchase officer and will be deposited by contractor / seller in Government treasury in the currency of contract.

Understood agreed ☐ Understood not agreed ☐

33. **Termination of Contract.**

Understood agreed ☐ Understood not agreed ☐

a. If at any time during the currency of the contract the Purchaser decides to terminate the contract for any reason whatsoever (other than for reasons of Non-Delivery) he shall have right to do so by giving the Supplier a registered notice to that effect. In that event the Purchaser will accept delivery at the contract price and terms of such stores/goods/services which are in the actual process of manufacture that is completed and ready for delivery within thirty days after receipt by the Supplier of such notice.

b. In the case of remainder of the undelivered stores/goods/services the Purchaser may elect either:

(i) To have any part thereof completed and take the delivery thereof at the contract price or.

(ii) To cancel the remaining quantity and pay to the Supplier for the articles or sub-components or raw materials purchased by the Supplier and are in the actual process of manufacture at the price to be determined by the Purchaser. In such a case materials in the process of manufacture shall be delivered by the Supplier to the Purchaser.

(iii) No payment shall however be made for any materials not yet in the actual process of manufacture on the date notice of cancellation is received.

c. Should the Supplier fail to deliver goods/services in time as per quality terms of contract or fail to render Bank Guarantee within the stipulated time period or any breach of the contract the Purchaser reserves the right to terminate/cancel the contract fully or any part thereof at the risk and expense (RE) of the Supplier.

34. **Rights Reserved.** Directorate of Procurement (Navy), Islamabad reserves full rights to accept or reject any or all offers including the lowest.

Understood agreed ☐ Understood not agreed ☐

Grounds for such rejections may be communicated to the bidder upon written request, but justification for grounds is not required as per PPRA Rule 33 (1).

35. **SECRECY/ NON DISCLOSURE AGREEMENT (NDA).**

Understood agreed ☐ Understood not agreed ☐

a. The Purchaser and the Contractor undertake and agree to exercise their best efforts to prevent any unauthorized person(s) from gaining access to drawing offices or workshops or other premises where the supplies are being designed, manufactured, constructed, stored and/ or outfitted.

b. As the contractor and is Sub-Contractor(s) are the exclusive owners of the intellectual property right/ copy right and industrial rights of any and all contractual designs, data, software, TDP, drawings etc., and since they possess all relevant rights therein, the Purchaser and the Contractor undertake and agree to prevent such designs, data, software, drawings, TDP, etc. as well as copies thereof from falling into the hands of representatives of any other foreign power of competitor of the Contractor or its Sub-Contractor(s) and Purchaser or any other unauthorized Party or person.

c. The above provisions shall, however, not be constructed as any restriction whatsoever of the Purchaser's/ Shipyard's application and use of such drawings and TDP for any purpose in accordance with this Contract.

d. The secrecy obligations above are supplementary to those contained in any agreement between the Pakistan Navy on behalf of the Purchaser, whereby the obligations pursuant to above shall be subject to the Pakistan law regarding the custody and protection of classified matter.

e. It is the Contractor's responsibility to ensure that all such information is protected in accordance with the protective markings assigned by the Purchaser. If in any case this become essential with regards to this Contract to disclose the information classified as Confidential or above to Sub-Contractors (OEMs), approval must be sought from the Purchaser.

f. The Contractor undertakes to prevent any unauthorized visits to the platform(s) being constructed / upgraded, and / or systems / equipment being manufactured /developed for the Purchaser to ensure confidentiality of the information concerning this project. No unauthorized Part or person may be allowed onboard during its construction/ upgrade and qualification tests.

g. The terms of this Contract are 'CONFIDENTIAL' and each Party agrees not to disclose them to any Third party except as may be necessary for the performance of this Contract which includes its professional advisors and as else may be required.

h. The Contractor undertakes that any information about the sale/purchase of the goods/stores under this contract shall not be communicated to any person/organization/agency, other than the manufacturer of the stores/ equipment/material, or to any press or agency not authorized by the Purchaser to receive it. Any breach on this account

will be punishable under Official Secrets Act-1923 of Pakistan and may lead to legal action against the Contractor in addition to termination of the contract at the risk and expense of the Contractor.

j. Undertaking as per format at Annex E be signed by the supplier.

36. **Acknowledgment.** Firms will send acknowledgement slips within 07 days from the date of downloading of IT from the PPRA Website i.e. **WWW.PPRA.ORG.PK**

Understood agreed ☐ Understood not agreed ☐

37. **Disqualification.** Offers are liable to be rejected if:-

Understood agreed ☐ Understood not agreed ☐

a. Received later than appointed/fixed date and time.
b. Offers are found conditional or incomplete in any respect.
c. There is any deviation from the General /Special/Technical Instructions contained in this tender.
d. Forms DP-1, DP-2 (along with Annexes), and DP-3 duly signed, are NOT received with the offers.
d. Taxes and duties, freight/transportation and insurance charges NOT indicated separately.
e. Treasury challan is NOT attached with the offer.
f. Multiple rates are quoted against one item.
g. Manufacturer's relevant brochures and technical details on major equipment assemblies are not attached in support of specifications.
j. Subject to restriction of export license.
k. Offers (commercial/technical) containing non-initialed/ unauthenticated amendments/corrections/overwriting.
l. If the validity of the agency agreement is expired.
m. The commercial offer against FOB/CIF/C&F tender is quoted in local currency and vice versa.
n. Principals invoice in duplicate clearly indicating whether prices quoted are inclusive or exclusive of the agent commission is not enclosed.
p. Earnest money is not provided.
q. Earnest Money is not provided with the technical offer (or as specified).
r. If validity of offer is not quoted as required in IT or made subject to confirmation later.
s. Offer made through Fax/E-mail/Cable/Telex.
t. If offer is found to be based on cartel action in connivance with other sources/ participants of the tender.
u. If OEM and principal name and complete address is not mentioned.
v. Original Principal Invoice is not attached with offer.

38. **Appeals by Supplier/Firm.** Any aggrieved Supplier/Firm against the decision of DP (N) or PN Inspecting Authority or any other problematic area towards the execution of the contract may prefer an Appeal to Standing Appeal Committee (SAC) comprising PN Officers and military finance rep at Naval headquarters, Islamabad. The detail and timeline for preferring appeals is given below:

Understood agreed ☐ Understood not agreed ☐

S.No.	Category of Appeal	Limitation Period
a.	Appeals for liquidated damages	Within 180 days of decision
b.	Appeals for reinstatement of	Within 60 days of decision

	contracts	
c.	Appeals for risk & expense amount	Within 180 days of decision
d.	Appeals for rejection of stores	Within 21 days of decision
e.	Appeals in all other Cases	Within 60 days of decision

39. **Limitation.** Any appeal received after the lapse of timelines given in para 38 above shall not be entertained.

Understood agreed ☐ Understood not agreed ☐

40. **For Firms not Registered with DGDP**. Firms not registered with DGDP undertake to apply for registration with DGDP prior signing of Contract. Details can be found on DGDP website www.dgdp.gov.pk.These firms can participate in tender iaw relevant paras and provision of documentary proof regarding financial status of the firm alongwith NTN and GST registration copies.

Understood agreed ☐ Understood not agreed ☐

41. Firms which are not registered with DGDP should initiate provisional registration in accordance with Para 41. Besides, ground check by Field Security (FS) Team will be made for security clearance related to participation in the tender after technical opening. Firms undertake to provide following documents for ground check by FS Team:

Understood agreed ☐ Understood not agreed ☐

a. NTN
b. Income Tax Return
c. Sales Tax Return
d. Sales Tax Certificate
e. Chamber of Commerce Industry Certificate
f. Professional Tax Certificate (Excise & Taxation)
g. Office/Home/Ware House Property documents
h. Utility Bills (Phone/Electricity)
j. Firm Vehicle/Personal Vehicle
k. CEO Visiting Card/NIC Copy, 03Xspecimen signature of CEO
l. DGDP Registration letter
m. Firm Bank Statement
n. Non Black List Certificate
p. 2 X Witness + CNIC and Mobile Numbers
q. Police Verification
r. Agency Agreement
s. OEM Certificate
t. ISO Certificate
u. Stock List with value
v. Company Profile/Broachers
w. Employees List
x. Firm Categories
y. Sole Proprietor Certificate
z. Partnership Deed
aa. Pvt Limited
ab. Memorandum of Articles
ac. Form 29 and Form A
ad. Incorporation Certificate

42. We solemnly undertake that all IT clauses marked as “Understood & Agreed" shall not be changed / withdrawn after tender opening. The IT provisions accepted shall form the baseline for subsequent contract negotiations.

Understood agreed ☐ Understood not agreed ☐

43. The above terms and conditions are confirmed in total for acceptance.

Understood agreed ☐ Understood not agreed ☐

44. Format of all forms and their relevant details are mentioned under:

Understood agreed ☐ Understood not agreed ☐

S No.	Annex	Detail
a.	Annex A to DP-1	DPL-15 (Warranty/ Guarantee Format)
b.	Annex B to DP-1	BG Format on Judicial paper
c.	Annex C to DP-1	Integrity Pact
d.	Annex D to DP-1	Undertaking for registration with DGDP
e.	Annex E to DP-1	Data for Issuance of Contracts on Bid Security/ Earnest Money
f.	Annex F to DP-1	Undertaking/ Non-Disclosure Agreement

Sincerely yours,

_____
(To be Signed by Officer Concerned)
Rank:_____
NAME:_____

ANNEX 'A'
To DP-1

DPL-15 (WARRANTY)

FIRM'S NAME: M/s_____
_____
_____
_____

1. We hereby guarantee that the articles supplied under the terms of this contract are produced new in accordance with approved drawings/specification and in all respect in accordance with the terms of the contract, and the materials used whether or not of our manufacture are in accordance with the latest appropriate standard specifications, as also in accordance with the terms of complete of good workmanship throughout and that we shall replace FOR/DDP Karachi free of cost every article or part thereof use or in use shall be found defective or not within the limits and tolerance of specifications requirement or in any way not in accordance with the terms of the contract.

2. In case of our failure to replace the defective stores free of cost within a reasonable period, we shall refund the relevant cost FOR/DPP Karachi (As the case may be in currency in with received).

3. This warranty shall remain valid for **01 Year** after the acceptance of stores by the end user

The signature must be the same as that on the tender/contract, or if otherwise must be shown to be the signature of a person capable of giving a guarantee on behalf of the contractor

SIGNATURE_____

DATE_____

PLACE_____

ANNEX 'B'
To DP-1

BANK GUARANTEE FOR PERFORMANCE ON JUDICIAL STAMP PAPER OF RS. 100/- OR AS SUITABLE TO THE AMOUNT OF BG

(i) Contract No._____ dated _____
(ii) Name of Firm/Contractor_____
(iii) Address of Firm/Contractor _____
(iv) Name of Guarantor _____
(v) Address of Guarantor _____
(vi) Amount of Guarantee Rs. _____
(_____)
(in words)
(vii) Date of expiry of Guarantee_____

To: The President of Islamic Republic of Pakistan through the Controller of Military Accounts (Defence Purchase) Rawalpindi.

Sir,

1. Whereas your good self have entered into Contract No. _____ _____ dated _____ with Messer's_____ _____
(Full Name and Address)
hereinafter referred to as our customer and that one of the conditions of the Contract is the submission of unconditional Bank Guarantee by our customer to your good self for a sum of Rs. _____ Rupees/FE (as applicable)_____ _____

2. In compliance with this stipulation of the contract, we hereby agree and undertake as under: -

a. To pay to you unconditionally on demand and/or without any reference to our Customer and amount not exceeding the sum or Rs. _____Rupees or FE (as applicable) _____ as would be mentioned in your written Demand Notice.

b. To keep this Guarantee in force till _____.

c. That the validity of this Bank Guarantee shall be kept one clear year ahead of the original/extended delivery period or the warrantee of the stores which so ever is later in duration on receipt of information from our Customer i.e. M/s_____ or from your office. Claim, if any must be duly received by us on or before this day. Our liability under this Bank Guarantee shall cease on the closing of banking hours on the last date of the validity of this Bank Guarantee. Claim received thereafter shall not be entertained by whether you suffer a loss or not. On receipt of payment under this guarantee, this document i.e. Bank Guarantee must be clearly cancelled, discharged and returned to us.

d. That we shall inform your office regarding termination of the validity of this Bank Guarantee one clear month before the actual expiry date of this Guarantee.

e. That with the consent of our customer you may amend/alter any term/clause of the contract or add/delete any term/clause to/from this contract without making any reference to us. We do not reserve any right to receive any such amendment/alternation or addition/deletion provided such like actions do not increase our monetary liability under this Bank Guarantee which shall be limited only to Rs. _____ (Rupees _____).

f. That the Bank Guarantee herein before given shall not be affected by any change in the constitution of the Bank or Customer/Seller or Vendor.

g. That this an unconditional Bank Guarantee, which shall be enchased on sight on presentation without any reference to our Customer/Seller or Vendor.

Guarantor

Dated: _____

_____

(Bank Seal and Signatures)

ANNEX 'C'
To DP-1

INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC PAYABALE BY THE SUPPLIER OF GOODS, SERVICES & WORKS IN

Contract No.
Contract Value:
Contract Title:

a. M/s _____ hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

b. Without limiting the generality of the foregoing, M/s _____represents and warrant that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, interest, privilege or other obligation or benefit in whatsoever from Government of Pakistan(GoP), except that which has been expressly declared pursuant hereto.

c. M/s _____ that it has made and shall make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP as referred to above and has not taken any action or shall not take any action or shall not take any action to circumvent the above declaration, representation or warranty.

d. M/s _____ accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be avoidable at the option of GoP.

e. Notwithstanding any rights and remedies exercised by GoP in this regard, agrees to indemnify GoP for any loss or damage incurred by GoP on account of the corrupt business practices of M/s _____ and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by M/s _____as aforesaid for the purpose of obtaining or inducing the

f. Procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever from GoP.

_____ _____
[The Buyer] [The Supplier]

ANNEX 'D'
To DP-1

AFFIDAVIT/ UNDERTAKING
(FOR PROVISION REGISTRATION)
(ON JUDICAL OR E/STAMP PAPER WORTH RS 100/-)

1. I, Mr_____ having CINC No/ Passport No. _____ Authorized signatory/ Partner/MD /. Proprietor of M/s_____, do hereby solemnly affirm to DGDP, MoD, Rawalpindi that our firm M/s_____ will apply/ has applied for registration with Director General Defence Purchase (DGDP), MoD by submitting all the documents required for the registration on _____ (Insert date).

2. In case we do not apply for registration by the date mentioned above or it is found at any stage that our firm has not applied for registration with the DGDP, MoD as stated above, our firm shall be liable to disciplinary and legal action by the DGDP/ MoD or any of the organization of the MoD.

3. I also accept that any disciplinary and legal action taken by the MoD or any of its organization against my firm in this regard will not be challenged in any court of law.

Signature _____
Station: _____ Name: _____
Date: _____ Appointment in Firm _____

Note. Give complete address with telephone/fax numbers and email address.

ATTESTED BY OATH COMMISSIONER WITH STAMP

Annex'E'
To DP-1

NECESSARY DATA FOR ISSUANCE OF CONTRACTS ON BID SECURITY/ EARNEST MONEY

IMPORTANT

Each column must be filled in with BLOCK CAPITAL LETTERS, incompletion shall render disqualification.

1. Name : _____

2. Father's Name : _____

3. Address (Residential) : _____

_____

_____

4. Designation in Firm : _____

5. CNIC : _____
(Attach Copy of CNIC)

6. NTN : _____
(Attach Copy of NTN)

7. Firm's Address _____

_____

_____

8. Date of Establishment of Firm : _____

9. Firm's Registration Certificate with FBR/Chamber of Commerce/Registrar of Companies. (Attach Copy of relevant CERTIFICATE)

10. In case PARTNERSHIP (Attach particulars at serial 1,2,3,4,5 and 6 of each partner).

(Kindly fill in the above form and forward it under your own letter head with contact details)

Annex F
To DP-1

UNDERTAKING/ NON DISCLOSURE AGREEMENT

(To be given on affidavit dully attested by Oath Commissioner/Magistrate)

1. I _____
(Name & Appointment)

on behalf of _____
(Name for Firm / Contractor)

_____
(With address and Telephone Number)

2. Do hereby solemnly affirm to abide by the provision of Official Secrets Act 1923 and the conditions contained therein. Breach of these provisions on my part or any employee of the firm, in addition to any penalty under law, will render immediate cancellation of the contract and may lead to legal action beside completion of the reminder work by any other business concern considered suitable by the accepting office at our own risk.

3. M/s……. accepts full responsibility and strict liability to protect classified information contained in the contract however in any case this become essential to disclose the information classified as confidential or above to sub contractor (OEM), approval from the purchaser shall be sought. Infringement of aforesaid will render contract termination apart from legal action before the court of competent jurisdiction as per contract.

Sig _____
Status/Appointment _____
Place _____
Date _____

1. Signature of Witness _____
Name (in Block capital) _____
CNIC No _____ Seal & Date
(Please attach photocopy)
Address _____
_____

2. Signature of Witness _____
Name (in Block capital) _____
CNIC No _____ Seal & Date
(Please attach photocopy)
Address _____
_____

DP2

INVITATION TO TENDER FORM

1. Schedule to Tender No 625034/R-2611/330386 dated 04 Nov 26. This tender will be closed for acceptance at 1030 Hours and will be opened at 1100 Hours on 26-11-2026. Please drop tender in the Tender Box No 203.

2. You are requested to please use this Performa for price quotation, fill in the prices, affix your stamp on the same, sign it and forward it in original as your Commercial offer along with the covering letter of your firm. If you do not use this form as price quotations your offer might be rejected.

3. You are requested to please attach DP-1 and DP-3 alongwith your quotation duly signed & stamped. Same are available at www.ppra.org.pk.

S NO	DETAIL OF STORES	QTY/ UNIT	UNIT PRICE	GST (___%)	TOTAL PRICE
1.	**Part No: 8440-50-440-1143** Stitching of Jockey Cap Flat Top for Camouflage Dress 4 100% Cotton Size 55 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**5,000 NOs**			
2.	**Part No: 8440-50-450-1144** Stitching of Jockey Cap Flat Top for Camouflage Dress 4 100% Cotton Size 57 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**7,500 NOs**			
3.	**Part No: 8440-50-450-1145** Stitching of Jockey Cap Flat Top for Camouflage Dress 4 100% Cotton Size 59 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**7,500 NOs**			
4.	**Part No: 8440-50-450-1146** Stitching of Jockey Cap Flat Top for Camouflage Dress 4 100% Cotton Size 61 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**5,000 NOs**			

5.	**Part No: 8440-50-440-1147** Stitching of Jockey Cap Flat Top for Camouflage Dress Pak Marines 60% Cotton 40% Polyester Size 55 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**2,000 NOs**			
6.	**Part No: 8440-50-440-1148** Stitching of Jockey Cap Flat Top for Camouflage Dress Pak Marines 60% Cotton 40% Polyester Size 57 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**3,000 NOs**			
7.	**Part No: 8440-50-440-1149** Stitching of Jockey Cap Flat Top for Camouflage Dress Pak Marines 60% Cotton 40% Polyester Size 59 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**3,000 NOs**			
8.	**Part No: 8440-50-440-1150** Stitching of Jockey Cap Flat Top for Camouflage Dress Pak Marines 60% Cotton 40% Polyester Size 61 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**2,000 NOs**			
9.	**Part No: 8440-50-440-2047** Stitching of Jockey Cap Flat Top for Camouflage Dress SSG(N) 60% Cotton 40% Polyester Size 55 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**200 NOs**			

10.	**Part No: 8440-50-440-2048** Stitching of Jockey Cap Flat Top for Camouflage Dress SSG(N) 60% Cotton 40% Polyester Size 57 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**400 NOs**			
11.	**Part No: 8440-50-440-2049** Stitching of Jockey Cap Flat Top for Camouflage Dress SSG(N) 60% Cotton 40% Polyester Size 59 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**400 NOs**			
12.	**Part No: 8440-50-440-2050** Stitching of Jockey Cap Flat Top for Camouflage Dress SSG(N) 60% Cotton 40% Polyester Size 61 cm **Detailed Technical Specifications:** As per Annex "A" **Genral Requirements/ Instructions:** As per Annex "B"	**400 NOs**			
Total Amount		(Without GST)		(With GST)	

Amount in words: _____

Terms & Conditions

1. **Terms of Payment.** 100% Payment of after delivery of stores and issuance of CRV (certified receipt voucher)

2. **Origin of Stores.** INDIGENOUS/ LOCAL

3. **Origin of OEM.** INDIGENOUS/ LOCAL

4. **Technical Scrutiny Report** Required

5. **Delivery Period.** **100% delivery within 03 Months after receipt of cloth**

6. Trade Link between firm and OEM

7. **Currency.** Pak Rupees.

8. **Basis for acceptance.** FOR/ DDP Karachi Basis

9. **Bid validity** The validity period of quotations must be indicated **and should invariably be 120 days from the date of opening of commercial offer or 30th June whichever is later**. Firm undertakes to extend validity of offer if required by equal number of original bid period (i.e. 120 days as per original offer) i.a.w PPRA Rule-26.

10. **Tendering procedure** Single Stage - Two Envelopes bidding procedure will be followed. PPRA Rule 36 (b) refers.

11. **Earnest Money/Tender Bond**:- Your tender must be accompanied by a **Call Deposit Receipt (CDR)** in favor of CMA (DP) in separate envelope, Rawalpindi for the following amounts:-

a. **Rates for Contract**. The rate of earnest money and its maximum ceil for different categories OF FIRMS would be as under:-

(i) **Registered/Indexed/Pre-Qualified Firms**. 2% of the quoted value subject to maximum ceiling of **Rs. 0.500 Million.**

(ii) **Registered/Pre-Qualified but Un-indexed Firms**. 3% of the quoted value subject to maximum ceiling of **Rs. 0.750 Million.**

(iii) **Unregistered/not Pre-Qualified/Un-indexed Firms**. 5% of the quoted value subject to maximum ceiling of **Rs. 1.000 Million.**

b. Photocopy of EM must be attached with Technical Offer as proof after hiding the amount with black Bold Marker.

c. **Return of Earnest Money**

(i) Earnest money to the unsuccessful bidders will be returned on finalization of the contract.

(ii) Earnest money of the firm/firms with whom contract is concluded will be returned on submission of Bank Guarantee and its acceptance by CMA (DP).

12. **Special Note**.

All Participating firms must submit technical offers in duplicate (one for TSR committee and one for DP (Navy) record).

a. Unregistered (Not registered with Directorate General Defense Purchase) firms must provide the documentary evidence of their financial capability to undertake the project.

b. Unregistered firms are to submit a certificate along with their Technical offer stating that the firm is not black listed by any government organization and not under disciplinary trial or embargo.

c. Only registered suppliers on Active Taxpayers List (ATL) of FBR are eligible to participate in the Tender and submit quote.

d. Release of payments is subject to mandatory submission of Filer Certificate duly issued by FBR showing the name of supplier on active Taxpayers List (ATL). No payment will be released by CMA (DP) unless latest Filer Certificate duly issued by FBR showing the name of supplier on its Active Taxpayers list is submitted alongwith payment documents.

e. In case of Pakistani firms, sales tax, NTN and income tax registration certificates are to be attached with the offer. These certificates are mandatory with the BID, otherwise offer shall be REJECTED.

f. Company registration certificates are to be attached with offer.

g. Requisite amount of earnest money (in shape of CDR/Demand Draft/Pay Order in the favour of CMA (DP)) is to be attached **in separate envelop in sealed condition with the Technical offer**. Photocopy of the same shall also be attached with DP-2 as a testimony. **Cheques/ crossed cheques shall not be accepted. Technical offers received without earnest money shall not be accepted and will be rejected on spot. Tender Opening Board is authorized to check earnest money. AUTHORIZATION LETTER IS MANDATORY FORM YOUR PRINCIPAL FIRM AT THE TIME OF PARTICIPATION IN TENDER.**

h. **UNDER TAKING ON STAMP PAPER W.R.T ADEQUACY OF SUBMITTED EARNEST MONEY IS ALSO BE ENCLOSED.**

j. Duly completed Form DP-1 and DP-3 are to be attached with Technical Offer.

k. DP-2 Form shall also be submitted with Technical Offer without mentioning of prices. Moreover, compliance or otherwise against each para/ requirement of Annex A & B duly signed & stamped by firm authorized rep is to provided for technical scrutiny.

l. Price preference is admissible to local manufacturers over foreign vendors as per PPRA Rule 24 and Govt of Pakistan (Ministry of Commerce) SRO 827 (I)/2001.

m. Tender having single item with different sizes will be dealt as a package depending on overall cost/ lowest bid.

m. In case of multiple options quoted by firm, offer will be rejected.

NOTE: IN CASE OF FAILURE TO COMPLY ABOVE INSTRUCTIONS, TERMS AND CONDITIONS, OFFER WILL LIABLE FOR REJECTION.

Annex A
To DP-2

PN SPECIFICATION & BARCODE



PAKISTAN NAVY SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEBRUARY 2026

JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS 4 100% COTTON

This document is the property of the Pakistan Navy and its use is authorized for personnel in the course of their Inspection, Quality Assurance, Stowage, and Issuance and on need to know basis. The unofficial retention or destruction of this document is an offence.

Prepared by:

Directorate of Inventory Deletion
Naval Research & Development Institute
(NRDI) ITD Wing (South)
at NSSD Area, West Wharf Road
KARACHI

Tel: 021-48508411-9256
Fax: 021-9921476
Email: ditd-s@paknavy.gov.pk
did@paknavy.gov.pk

PROMULGATION ORDER

1. This specification is hereby approved and promulgated for information, guidance and compliance by all concerned.

2. Details contained in the specification are to be studied and implemented with due regard to interest of the Service.

SUGGESTIONS FOR AMENDMENT

1. The specification has been prepared to bring the test methods and procedures in line with up-to-date PN requirements and facilities held in Pakistan. CINS may request to amend any test requirement/ test procedure in light of the experience emanating from its inspection history, through the feedback form placed at Annex G. However, such an alteration will be effective when the amendment is promulgated by this Directorate, and will be effective on the contracts which materialize after the promulgation date of respective amendment.

Lt PN Sajjad Umer (ADP 33 PRE AND POST) 21 May 26 1522 hrs

CONTENTS

Description	Page No
Promulgation Order	ii
Suggestions for Amendment	ii
Table of content	iii
Record of Changes/ Amendements	iv
Details	
Designation	1
Usage	1
Introduction	1
Scope	1
Related Documents	1
Definitions & Abbreviations	2
Technical Details of Jockey Cap Flat top	2
Measurement Schedule	2
Manufacturing Details of Jockey Cap Flat top	2
Quality of Workmanship and finishing	3
Testing	3
Tender Sample	3
Advance Sample	3
Inspection	4
Stamping of Accepted/ Rejected Stores by Inspector	5
Special Instructions	5
Packing Details	5
Identification Label	6
Packing List	6
Marking of Stores	6
Delivery	7
Annexes:	
A. Definitions & Abbreviations	8
B. Technical Details of Jockey Cap Flat top	9
C. Measurement Schedule	12
D. Technical Drawings of Jockey Cap Flat top	15
E. Common Defects	22
F. Acceptable Quality Levels (AQLs)	25
G. Feedback Form	27
Blank page	28

PN SPECIFICATION 03/2026
JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS 4
100% COTTON

0101. DESIGNATION

1. Jockey Cap Flat top for camouflage dress 4.

0102. USAGE

1. This Jockey Cap Flat top for camouflage dress 4 will be used by Officers, CPO's/ Sailors of General Service.

0103. INTRODUCTION

1. This specification is prepare by Director of Inventory Deletion (DID) of ITD Wing -South, to provide necessary guidance to the potential manufacturers/suppliers of the items mentioned herein. This specification is to be used for testing and deciding upon acceptance, or otherwise, of the items mentioned. Any alteration or addition in this specification suggested to DID at ITD Wing. However, it implemented with approval of DCLS. This specification supersedes and replace Revised PN/Specification/04/2017 dated 28 March 2022 (Camouflage Jockey/ Sea Cap) and other specifications promulgated earlier in relation to the item mentioned herein.

2. This specification consists **32** pages, including cover page and **07** Annexes.

0104. SCOPE

1. This specification covers the manufacturing/ inspection requirements of Jockey Cap Flat top is worn by General Service. This specification lays down the standard to which the stores shown under designation above should conform. It defines and lays down the quality, standard and details of materials, workmanship and finish. It also lays down the details of sampling, testing, inspection rejection, marking, preservation, packing and delivery etc.

2. The supplier/ manufacturer shall comply in every respect with the terms of this specification and ensure that the stores conform to it, in all respects.

0105. RELATED DOCUMENTS

1. The latest standards documents that have been referred to in this specification are:

a.	AATCC-20A	Determination of fiber quality.
b.	AATCC-8	Color fastness to crocking.
c.	ASTM D 1667	Flexible cellular materials.
d.	ASTM D 1777 opt 5	Standard test methods for thickness.
e.	ASTM D 3776 opt D	Standard test methods for mass per unit area (weight) fabric.
f.	ASTM D 5034	Tearing strength of fabric.
g.	ASTM D2256	Elongation, strength and tenacity of thread

h.	ASTM D 5170	Peel strength for hook and loops.
j.	ASTM D 5169	Shear strength for hook and loops.
k.	ISO-105-C10 (C3)	Color fastness to washing.
l.	ISO-105-E02	Colour fastness to Seawater test.
m.	ISO-105-E04	Colour fastness to Perspiration.
p.	ISO 6330 (4N)	Domestic washing and drying procedures for textile testing.
q.	ISO-105-X12	Colour fastness to Rubbing test.
r.	ISO-7211/1	Determination of Weave pattern.
s.	ISO-7211/2	Determination of number of thread per unit length.
t.	ISO-7211/5	Determination of linear density of yarn removed from fabric.
u.	ISO-3801	Determination of mass per unit length and area.
v.	ISO-13934	Tensile properties of fabrics Determination of maximum force and elongation at maximum force using the strip method.
w.	ISO-2589	Determination of thickness.
x.	ISO-3801	Weight per Sq. mtr.
y.	BS EN ISO 12945-2	Determination of fabric propensity to surface fuzzing and to pilling.
z.	BS EN ISO 12947-2	Determination of the abrasion resistance of fabrics by the Martindale method.
aa.	BS EN 25077	Determination of Dimensional Change in washing and drying.
ab	Mil spec A-A-55126B	Fasteners tapes Hook loop synthetic.

0106. DEFINITIONS & ABBREVIATIONS

1. Definitions for the terms used in this standard are given at Annex A.

0107. TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP

1. The technical details of Jockey Cap Flat top is given at Annex B of this specification.

0108. MEASUREMENT SCHEDULE

1. The measurement schedule of Jockey Cap Flat top is given at Annex C of this specification.

0109. MANUFACTURING DETAILS OF JOCKEY CAP FLAT TOP

1. Jockey Cap Flat top shall be fabricated in accordance with the measurement schedule and drawings as illustrated in the drawing at Annex C and D, respectively.

2. 01 x panel is attached in circular shape to form Jockey Cap side panel & 01 x panel of Flattop is attached as per Annex D. The panels are stitched with each other using single needle stitch neatly using 10-12 SPI.

3. Base fabric should be used at upper and lower side of polymeric peak.

4. Velcro tape (fasteners tapes Hook loop synthetic) used for adjustment of cap shall be 2.5 cm i.a.w Mil spec A-A-55126B. The color of Velcro and embroidery on eyelets shall be Black in color.

5. Care label and identification label is attached with inner cloth.

0110. **QUALITY OF WORKMANSHIP AND FINISHING**

1. Workmanship and finish of the Jockey Cap Flat top shall be as per drawing and it shall be best of its class and to the entire satisfaction of the inspector.

0111. **TESTING**

1. The material subjected to tests, laid down in this specification at Annex B and related documents. At least 02 x meters fabric and two Jockey Cap Flat topwill be required to complete all the tests mentioned at Annex B of this specification. Inspecting Authority reserves the right to get any B/R samples tested from any reputable Laboratory other than PN.

0112. **TENDER SAMPLE**

1. Tender sample approved by TSR Committee. For each contract, the manufacturer shall supply 03 x samples of Jockey Cap Flat top along with 02 x meters fabric at the time of tendering along with samples of materials used in manufacturing of caps for inspection.

0113. **ADVANCE SAMPLE**

1. Advance sample or pre-production sample, when required, submitted in accordance with terms of the contract for inspection, testing and approval. The minimum quantities required for Jockey Cap Flat top are as follows:

a.	Jockey Cap Flat top Cloth	02 x meter
b.	Jockey Cap Flat top	03 of any size
c.	Sewing thread polyester	50 gm
d.	Embroidery thread	50 gm
e.	Velcro tape	1 meter

2. Whenever Tender, Advance or pre-production sample is not required, the suppliers / manufacturer are advised in their own interest to submit to the Inspecting Officer or his representative an initial delivery of 01 % of the contract or 10 x samples of Jockey Cap Flat top whichever are more along with samples of materials for inspection.

3. The approval of the sample authorizes the commencement of bulk production but does not relieve the suppliers/ manufacturers from compliance with all the provisions of this specification.

4. Firm shall provide advance sample along with quality verification reports of Jockey Cap Flat top from an accredited laboratory to ensure in process inspection/ quality procedure of the firm.

0114. **INSPECTION**

1. **Bulk Representative Sample.** B/R random sampling will be carried out as per rules in vogue.

2. **Bulk Inspection.** Bulk inspection will be carried out after satisfactory completion of Visual Examination and Testing of B/R Sample.

3. **Inspection of Jockey Cap Flat.** The common defects for such examination/ inspection are listed at Annex E. Offered store shall be inspected as per AQL or order of Inspection Authority.

4. **Inspection/ Acceptance and Rejection of Stores.** Inspection/ acceptance is to be carried out to the satisfaction of Chief Inspector Naval Stores.

5. The Jockey Cap Flat top shall be examined for the correctness of material, shape, design, dimension, size, workmanship and finish.

6. All Jockey Cap Flat top shall be inspected especially for stitching and finishing, weaving defects, defective shape, discoloration/ fading, pinholes. Stitching and embroidery of Jockey Cap Flat top is to be especially checked.

7. CINS reserves the right to reject the whole supply in case, upon examination, material or packing of any sample or portion of the consignment is found **'NOT CONFORMING'** to this specification.

8. If on examination of 5% of any delivery, 20% of those examined from bulk supply are found **'NOT CONFORMING'** to this specification in respect of the pattern, dimensions, workmanship and finish, the whole consignment may be rejected without any compromise.

9. All stores and packing **'NOT'** fully in accordance with this specification shall be rejected.

10. Jockey Cap Flat top with major defects as described in Annex E of this specification will be rejected.

11. **Responsibility for Inspection.** The supplier is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. PN reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

12. **Responsibility for Compliance.** The inspection set forth in this specification shall become a part of the supplier's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to PN for acceptance comply with all requirements of the contract. Sampling

inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit PN to acceptance of defective stores (material).

13. **Replacement by the Contractor.** The supplier/ manufacturer is responsible for replacement of the consignment or any part thereof whenever it is found to be not conforming to this specification. The supplies so tendered in replacement, shall be subjected to testing/ inspection and acceptance by the Inspecting Officer.

14. **Responsibility for Safety.** The supplier/ manufacturer is wholly responsible for the safety of supplies during inspection, storage at firm's premises, proper packing, dispatch and delivery up to consignee.

0115. STAMPING OF ACCEPTED/ REJECTED STORES BY THE INSPECTOR

1. Following instructions are to be followed:

   a. **Stamping of Accepted Stores.** Each acceptable Jockey Cap Flat top shall be stamped with Inspector's Individual Acceptance Mark. The stamping shall be legible.

   b. **Stamping of Rejected Stores.** The rejected Jockey Cap Flat top shall be marked with Inspector's Rejection Mark to avoid re-submission by the supplier.

2. The Inspector is the authority in all matters pertaining to inspection.

0116. SPECIAL INSTRUCTIONS

1. **Care Label Instructions.** Care instructions in English and Urdu shall be attached with each Jockey Cap Flat top as indicated in the drawing and have minimum requirement as follows:

   a. Washing procedure e.g. gentle cycle machine wash.
   b. Ironing procedure e.g. Warm iron.
   c. Drying procedure e.g. Air dry.
   d. Any prohibition e.g. Do not bleach and dry clean etc.

0117. PACKING DETAILS

1. The store when ordered to be delivered **'PACKED'** shall be packed as per following instructions:

   a. 10 x Jockey Cap Flat top shall be packed in a neat, dry and clean condition in standard polyethylene packing of 0.035 mm $\pm$ 0.05mm thickness. These bags shall be sealed with transparent adhesive tape of 2.54 cm with thickness of 0.04-0.05 mm.

   b. 30 x such bundles (300 x caps) shall be packed in Carton Corrugated Card board box (07 ply).

c. Each Carton shall contain one size of Jockey Cap Flat top only.

0118. **IDENTIFICATION LABEL**

1. Each Jockey Cap Flat top shall bear following minimum information on the label attached with Jockey Cap Flat top as indicated in Technical drawing at Annex D of this specification:

a. Item name/ item description with NSN/Pattern No.
b. Material Composition and Size.
c. Contract number and Date.
d. Year of manufacturing.
e. Contractor's name, initials, or trade mark.
f. Batch no.

0119. **PACKING LIST**

1. Firm is bound to provide a packing list of store offered for inspection along-with the challan, which include complete details about the store i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and Date, Challan No. and Date. A packing list shall be enclosed after completion of inspection with each packed box giving full details about the stores packed i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and date, I/Note No. or voucher No. and date, consignee, consignor, date of packing and packer's signature.

0120. **MARKING OF STORES**

a. Each carton of Jockey Cap Flat top will stenciled with quick drying Black indelible ink/ print in clearly define characters as per followings:

a. On Front and Top:

(1) Catalogue No and Designation of the store packed.
(2) Contract No and date.
(3) Quantity of the Item packed.

b. On Back:

(1) Consignee address.
(2) Designation i.e Railway Station.
(3) Weight of the Package.
(4) The No. of individual Package and the total No of Packages in the consignment joined by the Word 'of 'e.g. 2 of 300.

c. On Bottom:

(1) Consignor's Name.
(2) Voucher No. or inspection note no. and date.
(3) Month and year of packing.

0121. **DELIVERY**

1. The consignment of store will be delivered in accordance with the terms of contract.

2. The store shall be delivered in Brand new, clean and dry condition.

3. The contractor/ manufacturer is fully responsible for the safety of the supplies during inspection, storage at firms premises proper packing, dispatch and delivery up to consignee.

RAO MUZAFFAR ALI
Captain Pakistan Navy
Director

Annexes:

1.	Definitions & Abbreviations	8
2.	Technical Details of Jockey Cap Flat top	9
3.	Measurements Schedule	12
4.	Technical Drawing of Jockey Cap Flat top	15
5.	Common Defects	22
6.	Acceptable Quality Levels (AQLs)	25
7.	Feedback Form	27

Lt PN Sajjad Umer (ADP 33 PRE AND POST) 16 May 26, 1522 hrs

DEFINITIONS & ABBREVIATIONS

1. DEFINITIONS

a. Following definitions are used in this specification and will be adopted for use:

(1) **Inspector.** The term inspector shall include the "Inspection Authority", Inspecting Officers and their representatives, duly authorized for the purpose of discharging inspection duties involved.

(2) **Inspection Authority.** Chief Inspector of Naval Stores (CINS). His verdict in respect of Sealed Inspection matters is to be taken as final.

(3) **Inspecting Officers.** An Officers nominated by the CINS for carrying out inspection of stores supplied by the supplier, against a specified contract or order, in accordance with the particulars stipulated therein.

(4) **Acceptance Quality Level (AQL).** It represent allowable limit/ tolerance of defects or non-conformities in an offered store/ lot/ batch. It represent in percentage, also known as Allowable Quality Limits.

(5) **Minor Defects.** They are small insignificant issues that don't affect the function or form of the item. Highest tolerance of AQL has been set for minor defects.

(6) **Major Defects.** They would likely result in product return but don't poses safety risk. AQL tolerance depend upon the description/ quality of finished product.

2. ABBREVIATIONS

a. Following abbreviations are used in this specification and will be adopted for use:

(1) **CINS**: Chief Inspector of Naval Stores.

(2) **DID**: Directorate of Inventory Deletion.

(3) **DCLS**: Directorate of Clothing Stores.

(4) **PNCSD**: Pakistan Navy Clothing Store Depot.

(5) **PNCTA**: Pakistan Navy Central Testing Authority.

ANNEX B TO
PN SPECIFICATION NO 03/2026
PROMULGATION DATE 24 FEB 26

TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP

S NO	ITEMS	INT'ERNATIO NAL STANDARDS	RESULTS		
1.	**BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)**				
a.	Material	AATCC-20A	100% Cotton		
b.	Count of Yarn (1) Warp (2) Weft	ISO-7211/5	 20^{s}+ 2 (29.5 + 2 Tex) 16^{s}+ 2 (37 + 2 Tex) Ring spun Combed yarn shall be used		
c.	Threads per Inch 2.54mm (1) Warp (2) Weft	ISO 7211/2	 123 +5 (Ends) 63 +5 (Picks)		
d.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop		
e.	Threads /Rip (1) Warp (2) Weft		 2 each single 2 each single		
f.	Size of Rip (1) Warp (2) Weft		 6mm+1mm 6mm+1mm		
g.	Weight (gm/sq.mtr)	ISO 3801	245 gm + 2%		
h.	Finish	Chemical analysis	Mercerize, pre- shrink by sanforize and hydrophilic softener (nano finish)		
j.	Nature of Dye Ground Print	Chemical Analysis	 Vat dye Vat print		
k.	Digital Camouflage Design Pattern		As per Appendix I		
l.	Color shade	Panton Shade (TCX)	L	a	b
	(1) Black	19-1101	30.96	2.44	0.82
	(2) Dark Grey	18-4006	49.64	0.26	0.75
	(3) Medium Grey	17-4405	54.41	-0.17	0.28
	(4) Light Grey	15-4003	65.30	-0.31	2.28
	(5) Grey	16-4702	72.92	-1.23	3.12
	(6) Pastel Grey	13-4303	77.34	-0.64	3.25
m.	Color Difference	$\Delta E \leq 1$			
p.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop		
q.	Nature of Dye	Chemical Analysis	Vat dyes & vat print		
r.	Shrinkage % (1) Wrap (2) Weft	ISO-6330 (4N) BSEN 25077	 $\pm$2% $\pm$2%		

2.	**BASE FABRIC PERFORMANCE TESTING**		
a.	Color fastness to washing (1) Change in Shade (2) Staining	ISO-105-C10 (C3)	 GS: 4 or better GS: 4 or better
b.	Color Fastness to Rubbing (Dry) (1)Staining	AATCC-20A	GS: 4 or better
c.	Color Fastness to Rubbing (Wet) (1) Staining		GS: 4 or better
d.	Color Fastness to light (1) Change in Shade	BS EN-1006	 GS: 4 or better
e.	Color Fastness to perspiration (1) Change in Shade (2) Staining	ISO-105 E04	 GS: 4 or better GS: 4 or better
f.	Color Fastness to Sea Water (1) Change in Shade (2) Staining	ISO 105 E02	 GS: 4 or better GS: 4 or better
g.	Tensile strength (N) (1) Warp (2) Weft	ISO-13934	 1000 + 5% 750 + 5%
h.	Tear Strength(N) (1) Warp (2) Weft	ISO 13937-01	 35 + 5% 44 + 5%
j.	Flammability	ASTM D 1230	Class1 Flame spread time ≥ 3.5 sec
k.	Dimensional Stability test after 3 HL 40°C (1) Warp (2) Weft	BS EN 25077 BS EN ISO-6330 (4N)	 +2% +2%
l.	Wrinkle recovery		Minimum 3-4
m.	Crease recovery		210° + 3%
n.	Appearance after 5-10 washes (3A) with tumble dry	BS EN ISO 6330 Visual/ Manual	Satisfactory
p.	Pilling resistance after 5,000 cycles	BS EN ISO 12945-2	Grade 5
q.	Abrasion resistance after 6,000 cycles	ISO – 13947-1	No thread break
r.	Air permeability(mm/sec at 100 Pa)	ISO-9237	Minimum 45
s.	Moisture Management		0.75 Min
t.	Water absorbency (drop test)	AATCC 79-2010	Front side 7 sec(max) Back side 6 sec (max)
u.	pH level	ISO-3071	6-8
3.	**STITCHING THREAD MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester
b.	Color	Visual Analysis	Light grey Pantone # 15-4003 TCX
c.	Count of yarn	ISO-7211/5	3/22 Tex ± 3%
d.	Construction	Visual Analysis	3 cord each single

4.	**STITCHINGTHREAD PERFORMANCE TESTING**		
a.	Color fastness to washing (Test No. 3) (1)Change in Shade (2)Staining	ISO-105-C10 (C3)	 GS: 4 GS: 4
b.	Strength, cN	ASTM D2256	2680 ± 10
c.	Tenacity, cN/Tex		39.24 ± 3
d.	Elongation %		18.53 ± 2
5.	**PLASTIC PEAK MATERIAL SPECIFICATION**		
a.	Material	Identification of Plastic	Plastic (virgin)
b.	Thickness	ISO-2589	1.5 -1.7 mm
c.	Hardness	IRHD	97 ± 1 IRHD
d.	Density	ASTM D 1667	0.92 g/cc ± 0.01
6.	**CARE LABEL MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester with visible printing which remain satisfactory after washing test.
b.	Shade	Visual Analysis	Nearest to ground fabric color i.e. light grey
7.	**EMBROIDERY THREAD MATERIAL SPECIFICATION**		
a.	Colour	Visual Analysis	Black Pantone# 19-4006 TCX
b.	Material	AATCC-20A	Viscose
c.	Count of yarn	ISO-7211/5	2/44^{s} ± 2
8.	**EMBROIDERY THREAD PERFORMANCE TESTING**		
a.	Colour fastness to washing Test No. 3 (1) Change in Shade (2) Staining	ISO-105-C10 (C3)	 GS: 4 GS: 4
9.	**VELCRO TAPE MATERIAL SPECIFICATION**		
a.	Material (1) Male (Hook) (2) Female (Loop)	AATCC-20A	 Nylon Nylon
b.	Colour	Visual Analysis	Light Grey Pantone # 15-4003 TCX or matching with the base cloth
10.	**VELCRO TAPE PERFORMANCE TESTING**		
a.	Before Sticking/ unsticking 300 times at 300 g	Visual Analysis	Satisfactory
b.	After Sticking/ unsticking 300 times at 300 g		Satisfactory
c.	Class – I for hook and loops	AATCC-20A	100% Nylon with selvage
d.	Type – II		5.8 mil 300 denier hook
e.	Width		1 inch
f.	Thickness (1) Hook (2) Loop	ASTM D 1777, opt 5	 0.05 in (min) 0.095 in (min)
g.	Weight Grams/ linear yard ()	ASTM D 3776 opt	

	(1) Hook (2) Loop	D	4.7 5.9
h.	Breaking strength lbs (min) () (1) Hook (2) Loop	ASTM D 5034	 100 75
j.	Peel strength lbs/inch/ (min) (1)Before wash (2)After 03 launderings	ASTM D 5170	 1-1.5 1.0
k.	Shear strength, (1)Before wash (2)After 03 launderings	ASTM D 5169	 10 10
l.	Fray resistance after 03 launderings	Mil spec A-A-55126B	No fraying observed

PN SPECIFICATION NO 03/2026 07 May 26, 1522 hrs
Lt PN Sajjad Umer (ADP 33 PRE AND POST)

ANNEX C TO
PN SPECIFICATION NO.03/2026
PROMULGATION DATE 24 FEB 26

MEASUREMENTS AND DIMENSIONS

S. No	Description	Size (cm)				Tolerance
	Internal circumference	**55**	**57**	**59**	**61**	**± 0.5**
a.	Height at front (Without puttee)	4.5	4.5	4.5	4.5	**± 0.2**
b.	Height at front (With puttee)	7.5	7.5	7.5	7.5	**± 0.2**
c.	Height at Back (Without puttee)	6.5	6.5	6.5	6.5	**± 0.2**
d.	Height at Back (With puttee)	9.5	9.5	9.5	9.5	**± 0.2**
e.	Puttee all round out side width	3	3	3	3	**± 0.1**
f.	Round Top Width	16	16	18	18	**± 0.3**
g.	Round Top Length	18	18	20.5	20.5	**± 0.3**
h.	Peak Length (at center)	6	6	6	6	**± 0.2**
	Peak width (at Back)	18	18	18	18	**± 0.3**

Note:

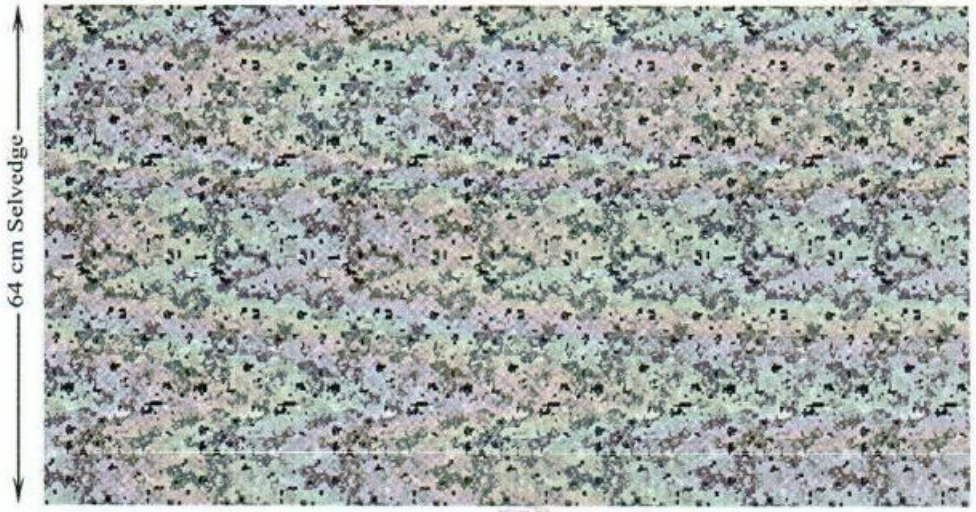
The tolerances are given only for made up caps to cover the stitching allowance. Manufacturer will ensure exact size.

Lt PN Sajjad Umer (ADP 33 PRE AND POST)

APPENDIX I TO ANNEX C TO
PN SPECIFICATION NO 03/2026
PROMULGATION DATE 24 FEB 26

DIGITAL CAMOUFLAGE DESIGN/ PATTERN OF DRESS 4

4B Pixilated Camo

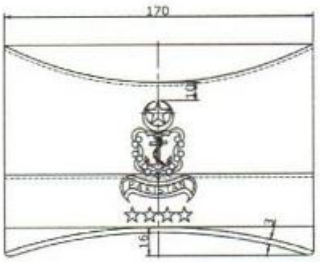


BLACK	DARK GREY	MEDIUM GREY	LIGHT GREY	GREY	PASTLE GREY(DYE)
5.87 %	20.55 %	6.85 %	45.72 %	25.53 %	3.82 %

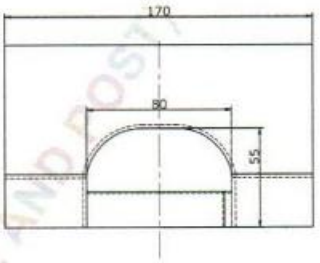
PN SPECIMEN
Lt PN Sajjad Umer (ADP 33 PN)
15:12 hrs

TECHNICAL DRAWING

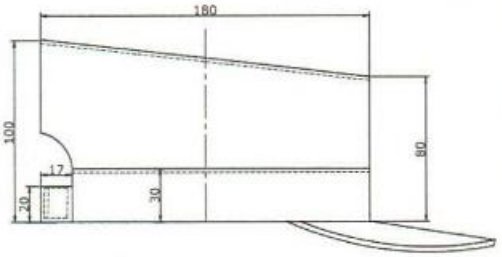
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



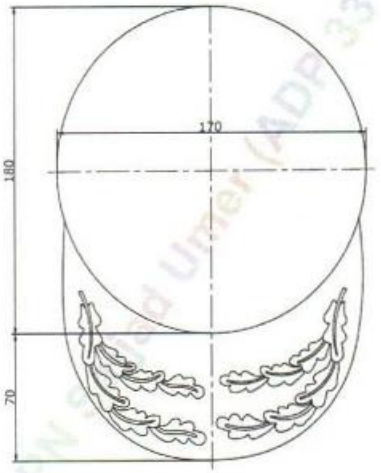
FRONT VIEW



BACK VIEW



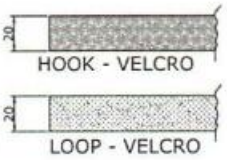
SIDE VIEW



FRONT VIEW



ANCHOR



1742

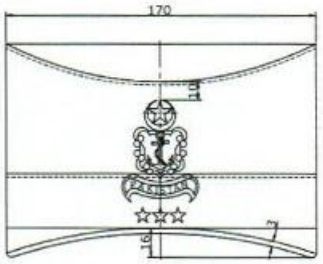
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (ADMIRAL)		
DWG.NO. TD-2934/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HOM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DTD

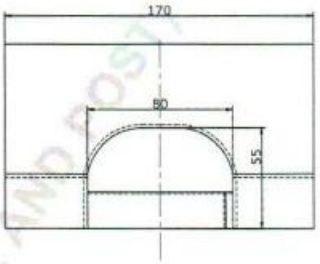
Lt HW Signed Under (ADP 33 PRE AND POST

TECHNICAL DRAWING

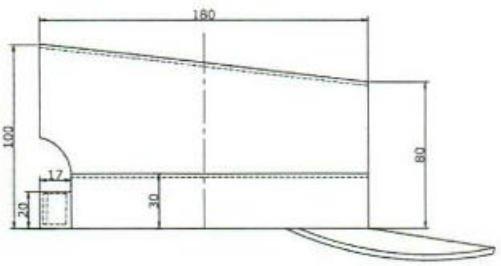
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



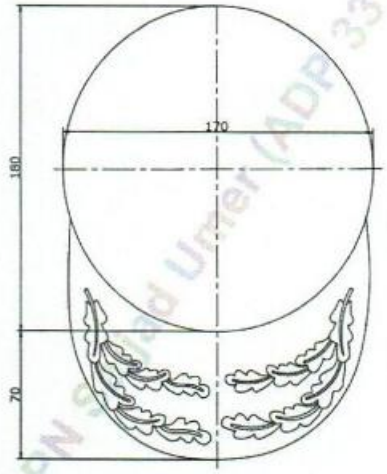
FRONT VIEW



BACK VIEW



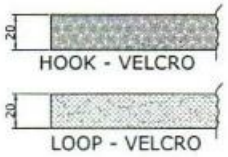
SIDE VIEW



FRONT VIEW



ANCHOR



1743

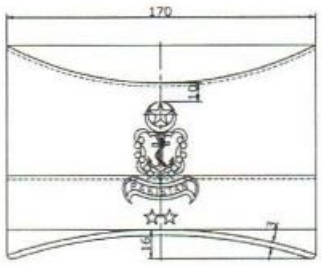
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (VICE ADMIRAL)		
DWG.NO. TD-2935/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DIO

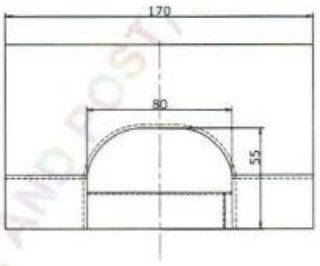
Lt PN Stored Under (ADP 33 PRE AND POST)

TECHNICAL DRAWING

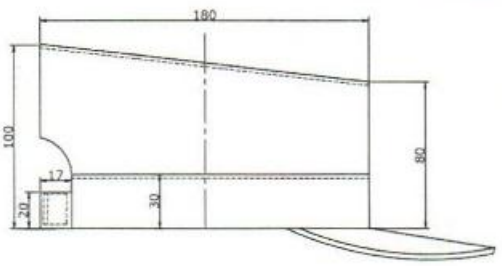
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



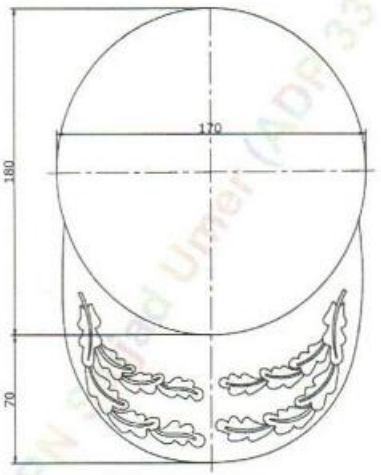
FRONT VIEW



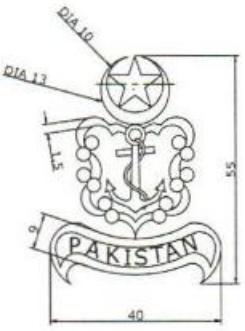
BACK VIEW



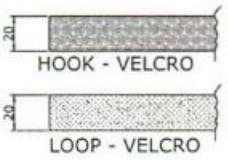
SIDE VIEW



FRONT VIEW



ANCHOR



1744

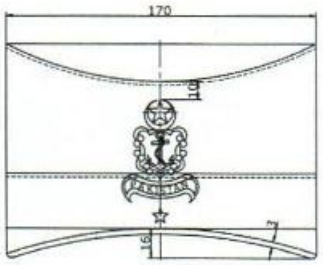
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (REAR ADMIRAL)		
DWG.NO. TD-2936/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HOM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DO TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

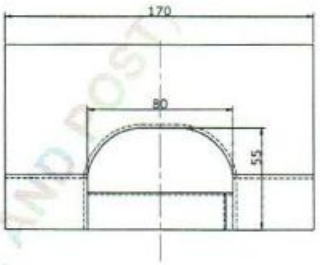
LT HW Sohail Umer (ADF 33 PRE AND POST)

TECHNICAL DRAWING

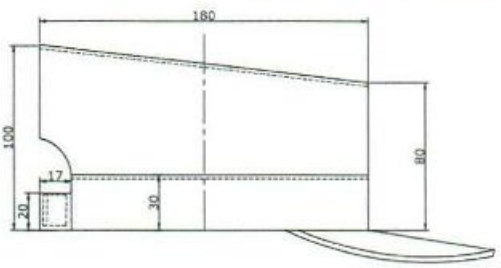
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



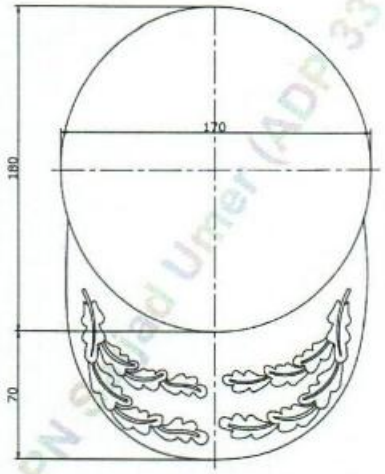
FRONT VIEW



BACK VIEW



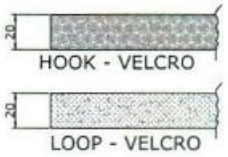
SIDE VIEW



FRONT VIEW



ANCHOR



1745

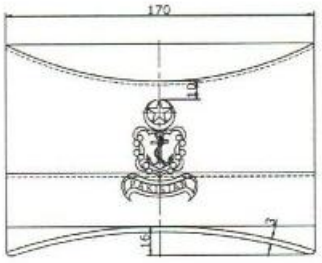
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (COMMODORE)		
DWG.NO. TD-2937/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

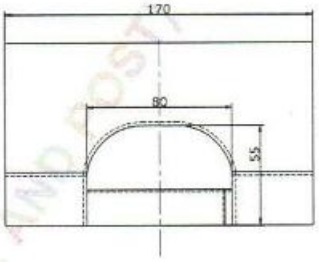
Lt PN Stood Under (ADP 33 PRE AND POST)

TECHNICAL DRAWING

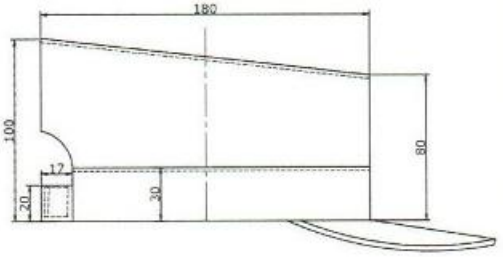
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



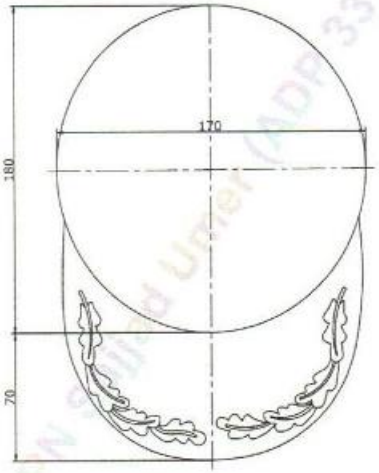
FRONT VIEW



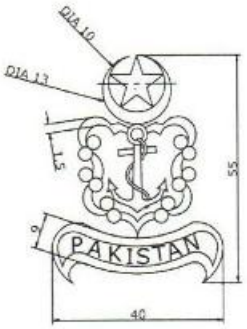
BACK VIEW



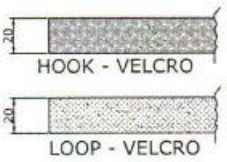
SIDE VIEW



FRONT VIEW



ANCHOR





1746

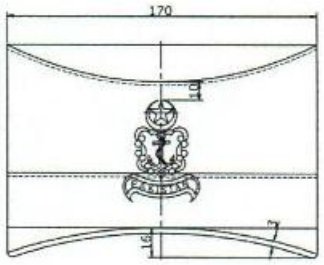
ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CAPT & CDR)		
DWG.NO. TD-2938/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

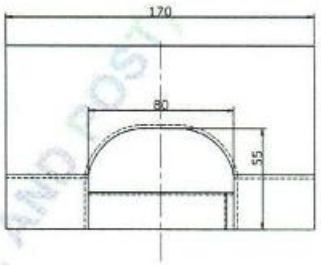
Lt PN Stand Under (ADP 33 PRE AND POST)

TECHNICAL DRAWING

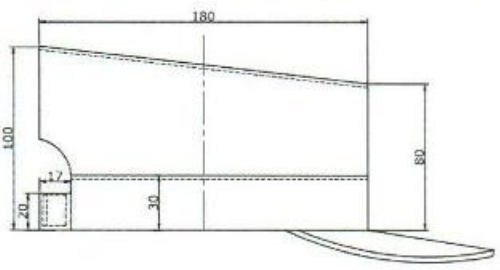
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



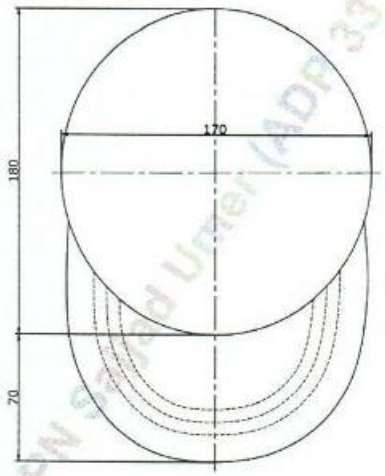
FRONT VIEW



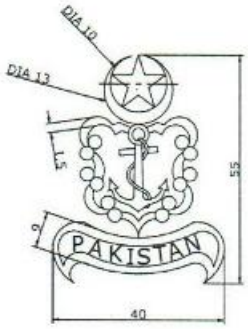
BACK VIEW



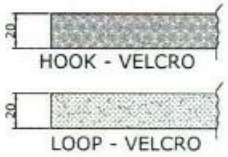
SIDE VIEW



FRONT VIEW



ANCHOR



1747

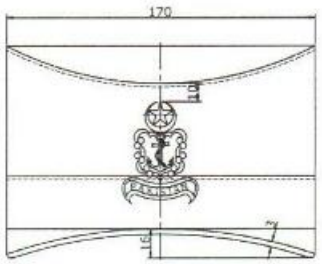
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (LT CDR & BELOW)		
DWG.NO. TD-2939/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DSD

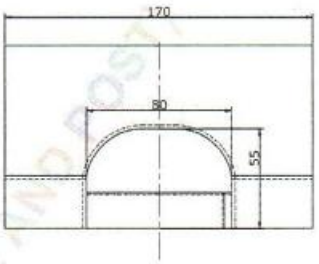
Lt PN Seized Under (ADP) 33 PRE AND POST

TECHNICAL DRAWING

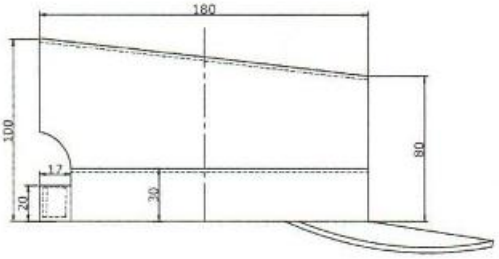
ANNEX "D" TO
PN SPECIFICATION NO. 03/2026
PROMULGATION DATE: 24 FEB 2026



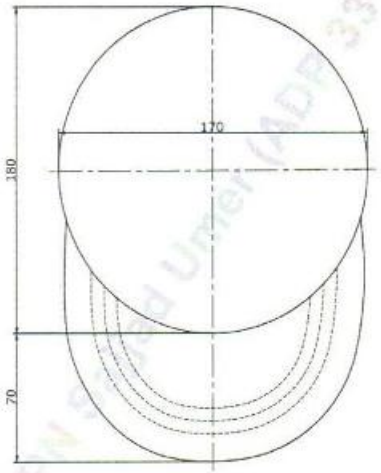
FRONT VIEW



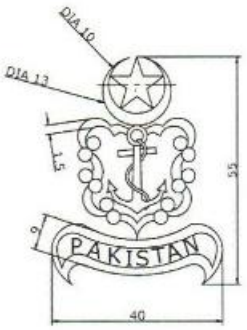
BACK VIEW



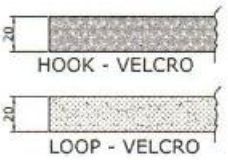
SIDE VIEW



FRONT VIEW



ANCHOR



1748

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CPO's & SAILORS)		
DWG.NO. TD-2940/2026		DIMENSIONS: mm
DATE: 24-02-2026		SCALE: NTS
REVISION NO. --		REVISION DATE: -- -- --
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DTD

IT HW Stand Under (ADP) 33 PRE AND POST

ANNEX E TO
PN SPECIFICATION NO 03/2026
PROMULGATION DATE 24 FEB 26

COMMON DEFECTS

S.No	Defects	Definition
	FABRIC	
a.	**Abrasion Mark (bruise, Chafe Mark or rub)**	An area of fabric damaged by friction Damaged due to a braded or uneven surface in a machine.
b.	**Baggy or wavy cloth**	Cloth that will not lie flat on a Cutting Table Tight or loose yarn either in warp or filling (weft).
c.	**Barré Mark**	An unintentional, repetitive visual pattern of continuous bars and stripes usually parallel to the filling of woven fabric. Barré can be caused by physical, optical, or dye differences in the yarns, geometric differences in the fabric structure, or by any combination of these differences.
d.	**Blotch**	An off colored area of any shape caused by grease or Oil. (Syn. oil spot).Cause due to leakage/ slippage from machine.
e.	**Bow**	A fabric condition resulting when filling yarns are displaced from a line perpendicular to the selvages and form one or more arcs across the width of fabric.
f.	**Broken filament**	In multifilament yarn, breaks in one or more filaments.
g.	**Clip mark**	An open place causing a streak of variable length approximately parallel of the length of width.
h.	**Decanting Mark**	A crease marks or impression extending across the cloth near the beginning or end of a piece due to the thickness of the fabric leader seam.
j.	**Double Pick**	In woven fabrics, two picks wrongly place in the same place.
k.	**Draw Back**	A weave distortion characterized by tight and stack places in the same warp yarn.
l.	**End out**	A void caused by a missing warp yarn.
m.	**Float**	In woven fabrics, the portion of a warp or filling yarn that extends unbound over two or more warp of filling yarns.
n.	**Filling Band**	In woven fabrics, visual defect across the width due to a change occurring in the yarn for a large number of picks.
p.	**Frosting**	A change in color in a limited area of fabric cause by abrasive wear.

q.	**Hole**	In fabric, imperfection, wear one or more yarn or sufficiently damaged to create an aperture.
r.	**Fuzzy**	Characterized by a hair appearance due to protruding broken fibers or filaments.
s.	**Let-off Mark**	In woven fabrics, a corrugated defect pattern distributed across the fabric width.
t.	**Loom fly**	Waste fibers create during weaving that are woven into a fabric.
u.	**Loop Salvage**	An improperly woven salvage of uneven width or a salvage containing irregular filling loops extending beyond the outside edges.
v.	**Messiness**	Surface distortion in a fabric characterized by objectionable unevenness due to many minor deformations.
w.	**Pin Hole**	In fabric, a very small hole, approximately the size of the a cross section of the pin.
x.	**Pin Mark**	A series of holes near the edge parallel with the lengthwise direction of a fabric caused by the holding device on the pin tender frame.
y.	**Reed Mark**	In woven fabric, a creak between groups of ends, either continues or at intervals.
z.	**Scalloped Salvage**	An abrupt, narrow indentation in the salvage.
aa.	**Salvage Mark**	In finished cloth, a lengthwise crease mark along the salvage caused by an edge being folded or doubled.
ab.	**Shiner**	A streak, usually short, caused of a lustrous section of filament yarn.
ac.	**Smash**	In woven fabrics, relatively large hole characterized by broken warn ends and floating picks.
ad.	**Skew**	A fabric condition resulting when filling yarns are angularly displace from a line perpendicular to the edge or side of the fabric.
ae.	**Snag**	In fabrics, a yarn or part of a yarn pulled or plucked from the surface.
af.	**Thin Place**	In fabric, appearance characterized by a small area of loosely placed yarn or by a congregation of thin yarn as compared to the adjacent construction.
ag.	**Tight Salvage**	In woven fabrics, salvage yarn shorter than warp yarn in the body of the fabric.
ah.	**Streak**	An extended unintentionally strips narrow width, often a single yarn.
aj.	**Tram Mage**	In woven crepes, a puckered area in which a filling yarn has twist running in the same direction for several picks instead of alternating S and Z twist.
ak.	**Temple Mark**	In woven fabrics, small holes or distortions adjacent to the salvage.

al.	**Tender Mark**	A visible deformation on the side edge or body of a fabric due to pressure for clips or pins.
am.	**Shaded Parts**	Any garment portion puckered, twisted, or pleated at joining seam. Quality of any part not as per specification. Any part shaded or any shade bar. Any panel mismatch with other panels
an.	**Color**	Color of embroidery or fabric fades out, not as per specification. Color of any part not as per specification.
ap.	**Cleanliness**	Any slub, spot, or stain on outer side. Threads ends not trimmed or loose threads ends not removed (to be scored only when condition exists on major portion of Jockey Cap). Any identification stamping visible on outer side. Poor Workmanship.
aq.	**Seams and Stitching**	Velcro stitched poorly. Any twisted, puckered, or pleated. Stitching tension tight resulting in breakage of stitches when normal pull is applied. Poor embroidery on eyelets and Pak Navy logo.
ar.	**Packing and Marking**	Sample are not packed and marked as mentioned in the specification. Poor marking and packing. Identification label and care label not provided

PN SPEC Lt PN Sajjad Umer (ADP 33 PRE AM) 01 May 26 1520 hrs

ANNEX F TO
PN SPECIFICATION NO 03/2026
PROMULGATION DATE 24 FEB 26

ACCEPTABLE QUALITY LEVELS (AQLs)

1. Acceptable Quality Level (AQL) is maximum average defective items in a lot or limit / percentage of defective items in product /offered store. It is expressed in a percentage. Number of average defective items is determined by following formula:

$$\text{Average defective item} = \frac{\text{No.of defective item found during inspection}}{\text{Total no.of item to be inspected}} \times 100$$

2. AQL process: it is used for inspection of finished product / garment by the QC professionals. AQL standard is depend on the quality of the product to be inspected, random sampling, and experience of inspector. Normally lower figure AQL standard e.g. 01% is used for high quality products/ narrow width fabric and high figure AQL standard e.g. 10% for low quality product/ garment. AQL standard 2.5% means that allowable limit of defective item is 2.5 % of total items inspected .Usually AQL 2.5% is used for major defects, AQL 4.0 % is used for minor defects and AQL 6.5% is used for slight defects, however zero acceptance for critical defects Allowable limit of Major defects are less than minor defects and it depends upon nature of item /offered store. It can be less than 01% or greater than 10%. .Following AQL table is used to determine lot size/ offered store quantity, least No. of sample to be inspected, AQL %, and acceptance & rejection points:

SINGLE SAMPLING PLAN FOR NORMAL INSPECTION OR AS PER ORDER OF INSPECTING OFFICER

Lot size	Least No. of sample to be Inspected	Allowable Quality levels(AQL) % • Acceptable/ Allowable defective sample (Ac) • Rejected /Exceed allowable limit of defective item (Re)									
		1.5%		2.5%		04%		6.5%		10%	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
281-500	20-80	1-3	2-4	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15
501-1200	32-125	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22
1201-3200	50-200	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22
3201-10000	80-315	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22
10001-35000	125-500	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22	21	22

35001-150000	200-800	7-21	8-22	10-21	11-22	14-21	15-22	21	22	21	22
150001-500000	315-1250	10-21	11-22	14-21	15-22	21	22	21	22	21	22
500001-above	500-2000	14-21	15-22	21	22	21	22	21	22	21	22

3. If the inspector have time constrain then AQL is beneficial/ helpful in inspection of whole lot/ offered store. It safe time, cost and give effective/ statistical result of product /offered store **e.g.** If inspector needs 5 minutes to check the item , the quantity to be inspected is 2,500 items then it took 208 hours to check the whole consignment/ offered store.it means 26 days approx. for one store. Calculation is as follows:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}500\ items = 208.33\ hrs \cong 26\ days$$

After Implementing AQL standard so the sample taken from the lot/ offered store is 200 items/ sample:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}00\ items = 16.66\ hrs \cong 02\ days$$

4. Quality parameters/ AQL limits may be defined by Inspecting Authority (if deemed appropriate) and communicate to the manufacturer, so the manufacturer set their quality levels (AQL limits) accordingly for their internal audit. Therefore, good quality product is ready for inspection.

PAKISTAN NAVY SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEBRUARY 2026

JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS PAK MARINES 60% COTTON – 40% POLYESTER

This document is the property of the Pakistan Navy and its use is authorized for personnel in the course of their Inspection, Quality Assurance, Stowage, and Issuance and on need to know basis. The unofficial retention or destruction of this document is an offence.

Prepared by:

Directorate of Inventory Deletion
Naval Research & Development Institute
(NRDI) ITD Wing (South)
at NSSD Area, West Wharf Road
KARACHI

Tel: 021-48508411-9256
Fax: 021-9921476
Email: ditd-s@paknavy.gov.pk
did@paknavy.gov.pk

PROMULGATION ORDER

1. This specification is hereby approved and promulgated for information, guidance and compliance by all concerned.

2. Details contained in the specification are to be studied and implemented with due regard to interest of the Service.

SUGGESTIONS FOR AMENDMENT

1. The specification has been prepared to bring the test methods and procedures in line with up-to-date PN requirements and facilities held in Pakistan. CINS may request to amend any test requirement/ test procedure in light of the experience emanating from its inspection history, through the feedback form placed at Annex G. However, such an alteration will be effective when the amendment is promulgated by this Directorate, and will be effective on the contracts which materialize after the promulgation date of respective amendment.

Lt PN Sajjad Umer (ADP 33 PRE AND POST

CONTENTS

Description	Page No
Promulgation Order	ii
Suggestions for Amendment	ii
Table of content	iii
Record of Changes/ Amendements	iv
Details	
Designation	1
Usage	1
Introduction	1
Scope	1
Related Documents	1
Definitions & Abbreviations	2
Technical Details of Jockey Cap Flat top	2
Measurement Schedule	2
Manufacturing Details of Jockey Cap Flat top	2
Quality of Workmanship and finishing	3
Testing	3
Tender Sample	3
Advance Sample	3
Inspection	4
Stamping of Accepted/ Rejected Stores by Inspector	5
Special Instructions	5
Packing Details	5
Identification Label	6
Packing List	6
Marking of Stores	6
Delivery	7
Annexes:	
A. Definitions & Abbreviations	8
B. Technical Details of Jockey Cap Flat top	9
C. Measurement Schedule	12
D. Technical Drawings of Jockey Cap Flat top	15
E. Common Defects	22
F. Acceptable Quality Levels (AQLs)	25
G. Feedback Form	27
Blank page	28

PN SPECIFICATION 04/2026
JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS PAK MARINES
60% COTTON -40% POLYESTER

0101. DESIGNATION

1. Jockey Cap Flat top for camouflage dress Pak Marines.

0102. USAGE

1. This Jockey Cap Flat top for camouflage dress Pak Marines will be used by Officers, CPO's/ Sailors.

0103. INTRODUCTION

1. This specification is prepare by Director of Inventory Deletion (DID) of ITD Wing -South, to provide necessary guidance to the potential manufacturers/suppliers of the items mentioned herein. This specification is to be used for testing and deciding upon acceptance, or otherwise, of the items mentioned. Any alteration or addition in this specification suggested to DID at ITD Wing. However, it implemented with approval of DCLS. This specification supersedes and replace Revised PN/Specification/03/2018 dated 26 April 2018 (Camouflage Jockey/ Sea Cap) and other specifications promulgated earlier in relation to the item mentioned herein.

2. This specification consists **32** pages, including cover page and **07** Annexes.

0104. SCOPE

1. This specification covers the manufacturing/ inspection requirements of Jockey Cap Flat top is worn by Pak Marines. This specification lays down the standard to which the stores shown under designation above should conform. It defines and lays down the quality, standard and details of materials, workmanship and finish. It also lays down the details of sampling, testing, inspection rejection, marking, preservation, packing and delivery etc.

2. The supplier/ manufacturer shall comply in every respect with the terms of this specification and ensure that the stores conform to it, in all respects.

0105. RELATED DOCUMENTS

1. The latest standards documents that have been referred to in this specification are:

a.	AATCC-20A	Determination of fiber quality.
b.	AATCC-8	Color fastness to crocking.
c.	ASTM D 1667	Flexible cellular materials.
d.	ASTM D 1777 opt 5	Standard test methods for thickness.
e.	ASTM D 3776 opt D	Standard test methods for mass per unit area (weight) fabric.
f.	ASTM D 5034	Tearing strength of fabric.
g.	ASTM D2256	Elongation, strength and tenacity of thread

h.	ASTM D 5170	Peel strength for hook and loops.
j.	ASTM D 5169	Shear strength for hook and loops.
k.	ISO-105-C10 (C3)	Color fastness to washing.
l.	ISO-105-E02	Colour fastness to Seawater test.
m.	ISO-105-E04	Colour fastness to Perspiration.
p.	ISO 6330 (4N)	Domestic washing and drying procedures for textile testing.
q.	ISO-105-X12	Colour fastness to Rubbing test.
r.	ISO-7211/1	Determination of Weave pattern.
s.	ISO-7211/2	Determination of number of thread per unit length.
t.	ISO-7211/5	Determination of linear density of yarn removed from fabric.
u.	ISO-3801	Determination of mass per unit length and area.
v.	ISO-13934	Tensile properties of fabrics Determination of maximum force and elongation at maximum force using the strip method.
w.	ISO-2589	Determination of thickness.
x.	ISO-3801	Weight per Sq. mtr.
y.	BS EN ISO 12945-2	Determination of fabric propensity to surface fuzzing and to pilling.
z.	BS EN ISO 12947-2	Determination of the abrasion resistance of fabrics by the Martindale method.
aa.	BS EN 25077	Determination of Dimensional Change in washing and drying.
ab	Mil spec A-A-55126B	Fasteners tapes Hook loop synthetic.

0106. DEFINITIONS & ABBREVIATIONS

1. Definitions for the terms used in this standard are given at Annex A.

0107. TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP

1. The technical details of Jockey Cap Flat top is given at Annex B of this specification.

0108. MEASUREMENT SCHEDULE

1. The measurement schedule of Jockey Cap Flat top is given at Annex C of this specification.

0109. MANUFACTURING DETAILS OF JOCKEY CAP FLAT TOP

1. Jockey Cap Flat top shall be fabricated in accordance with the measurement schedule and drawings as illustrated in the drawing at Annex C and D, respectively.

2. 01 x panel is attached in circular shape to form Jockey Cap side panel & 01 x panel of Flattop is attached as per Annex D. The panels are stitched with each other using single needle stitch neatly using 10-12 SPI.

3. Base fabric should be used at upper and lower side of polymeric peak.

4. Velcro tape (fasteners tapes Hook loop synthetic) used for adjustment of cap shall be 2.5 cm i.a.w Mil spec A-A-55126B. The color of Velcro and embroidery on eyelets shall be Black in color.

5. Care label and identification label is attached with inner cloth.

0110. **QUALITY OF WORKMANSHIP AND FINISHING**

1. Workmanship and finish of the Jockey Cap Flat top shall be as per drawing and it shall be best of its class and to the entire satisfaction of the inspector.

0111. **TESTING**

1. The material subjected to tests, laid down in this specification at Annex B and related documents. At least 02 x meters fabric and two Jockey Cap Flat top will be required to complete all the tests mentioned at Annex B of this specification. Inspecting Authority reserves the right to get any B/R samples tested from any reputable Laboratory other than PN.

0112. **TENDER SAMPLE**

1. Tender sample approved by TSR Committee. For each contract, the manufacturer shall supply 03 x samples of Jockey Cap Flat top along with 02 x meters fabric at the time of tendering along with samples of materials used in manufacturing of caps for inspection.

0113. **ADVANCE SAMPLE**

1. Advance sample or pre-production sample, when required, submitted in accordance with terms of the contract for inspection, testing and approval. The minimum quantities required for Jockey Cap Flat top are as follows:

a.	Jockey Cap Flat top Cloth	02 x meter
b.	Jockey Cap Flat top	03 of any size
c.	Sewing thread polyester	50 gm
d.	Embroidery thread	50 gm
e.	Velcro tape	1 meter

2. Whenever Tender, Advance or pre-production sample is not required, the suppliers / manufacturer are advised in their own interest to submit to the Inspecting Officer or his representative an initial delivery of 01 % of the contract or 10 x samples of Jockey Cap Flat top whichever are more along with samples of materials for inspection.

3. The approval of the sample authorizes the commencement of bulk production but does not relieve the suppliers/ manufacturers from compliance with all the provisions of this specification.

4. Firm shall provide advance sample along with quality verification reports of Jockey Cap Flat top from an accredited laboratory to ensure in process inspection/ quality procedure of the firm.

0114. **INSPECTION**

1. **Bulk Representative Sample.** B/R random sampling will be carried out as per rules in vogue.

2. **Bulk Inspection.** Bulk inspection will be carried out after satisfactory completion of Visual Examination and Testing of B/R Sample.

3. **Inspection of Jockey Cap Flat.** The common defects for such examination/ inspection are listed at Annex E. Offered store shall be inspected as per AQL or order of Inspection Authority.

4. **Inspection/ Acceptance and Rejection of Stores.** Inspection/ acceptance is to be carried out to the satisfaction of Chief Inspector Naval Stores.

5. The Jockey Cap Flat top shall be examined for the correctness of material, shape, design, dimension, size, workmanship and finish.

6. All Jockey Cap Flat top shall be inspected especially for stitching and finishing, weaving defects, defective shape, discoloration/ fading, pinholes. Stitching and embroidery of Jockey Cap Flat top is to be especially checked.

7. CINS reserves the right to reject the whole supply in case, upon examination, material or packing of any sample or portion of the consignment is found **'NOT CONFORMING'** to this specification.

8. If on examination of 5% of any delivery, 20% of those examined from bulk supply are found **'NOT CONFORMING'** to this specification in respect of the pattern, dimensions, workmanship and finish, the whole consignment may be rejected without any compromise.

9. All stores and packing **'NOT'** fully in accordance with this specification shall be rejected.

10. Jockey Cap Flat top with major defects as described in Annex E of this specification will be rejected.

11. **Responsibility for Inspection.** The supplier is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. PN reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

12. **Responsibility for Compliance.** The inspection set forth in this specification shall become a part of the supplier's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to PN for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known

defective material, either indicated or actual, nor does it commit PN to acceptance of defective stores (material).

13. **Replacement by the Contractor.** The supplier/ manufacturer is responsible for replacement of the consignment or any part thereof whenever it is found to be not conforming to this specification. The supplies so tendered in replacement, shall be subjected to testing/ inspection and acceptance by the Inspecting Officer.

14. **Responsibility for Safety.** The supplier/ manufacturer is wholly responsible for the safety of supplies during inspection, storage at firm's premises, proper packing, dispatch and delivery up to consignee.

0115. STAMPING OF ACCEPTED/ REJECTED STORES BY THE INSPECTOR

1. Following instructions are to be followed:

   a. **Stamping of Accepted Stores.** Each acceptable Jockey Cap Flat top shall be stamped with Inspector's Individual Acceptance Mark. The stamping shall be legible.

   b. **Stamping of Rejected Stores.** The rejected Jockey Cap Flat top shall be marked with Inspector's Rejection Mark to avoid re-submission by the supplier.

2. The Inspector is the authority in all matters pertaining to inspection.

0116. SPECIAL INSTRUCTIONS

1. **Care Label Instructions.** Care instructions in English and Urdu shall be attached with each Jockey Cap Flat top as indicated in the drawing and have minimum requirement as follows:

   a. Washing procedure e.g. gentle cycle machine wash.
   b. Ironing procedure e.g. Warm iron.
   c. Drying procedure e.g. Air dry.
   d. Any prohibition e.g. Do not bleach and dry clean etc.

0117. PACKING DETAILS

1. The store when ordered to be delivered **'PACKED'** shall be packed as per following instructions:

   a. 10 x Jockey Cap Flat top shall be packed in a neat, dry and clean condition in standard polyethylene packing of 0.035 mm ± 0.05mm thickness. These bags shall be sealed with transparent adhesive tape of 2.54 cm with thickness of 0.04-0.05 mm.

   b. 30 x such bundles (300 x caps) shall be packed in Carton Corrugated Card board box (07 ply).

   c. Each Carton shall contain one size of Jockey Cap Flat top only.

0118. **IDENTIFICATION LABEL**

1. Each Jockey Cap Flat top shall bear following minimum information on the label attached with Jockey Cap Flat top as indicated in Technical drawing at Annex D of this specification:

a. Item name/ item description with NSN/Pattern No.
b. Material Composition and Size.
c. Contract number and Date.
d. Year of manufacturing.
e. Contractor's name, initials, or trade mark.
f. Batch no.

0119. **PACKING LIST**

1. Firm is bound to provide a packing list of store offered for inspection along-with the challan, which include complete details about the store i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and Date, Challan No. and Date. A packing list shall be enclosed after completion of inspection with each packed box giving full details about the stores packed i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and date, I/Note No. or voucher No. and date, consignee, consignor, date of packing and packer's signature.

0120. **MARKING OF STORES**

a. Each carton of Jockey Cap Flat top will stenciled with quick drying Black indelible ink/ print in clearly define characters as per followings:

a. On Front and Top:

(1) Catalogue No and Designation of the store packed.
(2) Contract No and date.
(3) Quantity of the Item packed.

b. On Back:

(1) Consignee address.
(2) Designation i.e Railway Station.
(3) Weight of the Package.
(4) The No. of individual Package and the total No of Packages in the consignment joined by the Word 'of 'e.g. 2 of 300.

c. On Bottom:

(1) Consignor's Name.
(2) Voucher No. or inspection note no. and date.
(3) Month and year of packing.

0121. **DELIVERY**

1. The consignment of store will be delivered in accordance with the terms of contract.

2. The store shall be delivered in Brand new, clean and dry condition.

3. The contractor/ manufacturer is fully responsible for the safety of the supplies during inspection, storage at firms premises proper packing, dispatch and delivery up to consignee.

RAO MUZAFFAR ALI
Captain Pakistan Navy
Director

Annexes:

1.	Definitions & Abbreviations	8
2.	Technical Details of Jockey Cap Flat top	9
3.	Measurements Schedule	12
4.	Technical Drawing of Jockey Cap Flat top	15
5.	Common Defects	22
6.	Acceptable Quality Levels (AQLs)	25
7.	Feedback Form	27

PN SPECIFICATION Lt PN Sajjad Umer (ADP 33 PRE AND POST) (1 May 26, 1502 hrs

DEFINITIONS & ABBREVIATIONS

1. DEFINITIONS

a. Following definitions are used in this specification and will be adopted for use:

(1) **Inspector.** The term inspector shall include the "Inspection Authority", Inspecting Officers and their representatives, duly authorized for the purpose of discharging inspection duties involved.

(2) **Inspection Authority.** Chief Inspector of Naval Stores (CINS). His verdict in respect of Sealed Inspection matters is to be taken as final.

(3) **Inspecting Officers.** An Officers nominated by the CINS for carrying out inspection of stores supplied by the supplier, against a specified contract or order, in accordance with the particulars stipulated therein.

(4) **Acceptance Quality Level (AQL).** It represent allowable limit/ tolerance of defects or non-conformities in an offered store/ lot/ batch. It represent in percentage, also known as Allowable Quality Limits.

(5) **Minor Defects.** They are small insignificant issues that don't affect the function or form of the item. Highest tolerance of AQL has been set for minor defects.

(6) **Major Defects.** They would likely result in product return but don't poses safety risk. AQL tolerance depend upon the description/ quality of finished product.

2. ABBREVIATIONS

a. Following abbreviations are used in this specification and will be adopted for use:

(1) **CINS**: Chief Inspector of Naval Stores.

(2) **DID**: Directorate of Inventory Deletion.

(3) **DCLS**: Directorate of Clothing Stores.

(4) **PNCSD**: Pakistan Navy Clothing Store Depot.

(5) **PNCTA**: Pakistan Navy Central Testing Authority.

ANNEX B TO
PN SPECIFICATION NO 04/2026
PROMULGATION DATE 24 FEB 26

TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP

S NO	ITEMS	INTERNATIONAL STANDARDS	RESULTS		
1.	**BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)**				
a.	Material	AATCC-20A	60% Cotton – 40 % Polyester		
b.	Count of Yarn	ISO-7211/5			
	(1) Warp		20^{s}+ 2 (29.5 + 2 Tex)		
	(2) Weft		16^{s}+ 2 (37 + 2 Tex)		
			Ring spun Combed yarn shall be used		
c.	Threads per Inch 2.54mm	ISO 7211/2			
	(1) Warp		123 +5 (Ends)		
	(2) Weft		63 +5 (Picks)		
d.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop		
e.	Threads /Rip				
	(1) Warp		2 each single		
	(2) Weft		2 each single		
f.	Size of Rip				
	(1) Warp		6mm+1mm		
	(2) Weft		6mm+1mm		
g.	Weight (gm/sq.mtr)	ISO 3801	245 gm + 2%		
h.	Finish	Chemical analysis	Mercerize, pre- shrink by sanforize and hydrophilic softener (nano finish)		
j.	Nature of Dye	Chemical Analysis			
	Ground		Vat dye		
	Print		Vat print		
k.	Digital Camouflage Design Pattern		As per Appendix I		
l.	Color shade	Panton Shade (TCX)	L	a	b
	(1) Navy Blue	19-4027	24.12	-3.74	-14.76
	(2) Dark Brown/ Brown	19-0814	27.50	6.06	11.20
	(3) Light Brown	18-0930	33.78	7.09	13.12
	(4) Khaki	16-0518	55.15	1.28	20.46
	(5) Green	19-0315	13.21	8.24	12.24
	(6) Beige Dye	14-0216	65.09	-3.31	14.75
m.	Color Difference	$\Delta E \leq 1$			
p.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop		
q.	Nature of Dye	Chemical Analysis	Vat dyes & vat print		
r.	Shrinkage %	ISO-6330 (4N)			
	(1) Wrap	BSEN 25077	$\pm$2%		
	(2) Weft		$\pm$2%		

2.	**BASE FABRIC PERFORMANCE TESTING**		
a.	Color fastness to washing (1) Change in Shade (2) Staining	ISO-105-C10 (C3)	 GS: 4 or better GS: 4 or better
b.	Color Fastness to Rubbing (Dry) (1)Staining	AATCC-20A	GS: 4 or better
c.	Color Fastness to Rubbing (Wet) (1) Staining		GS: 4 or better
d.	Color Fastness to light (1) Change in Shade	BS EN-1006	 GS: 4 or better
e.	Color Fastness to perspiration (1) Change in Shade (2) Staining	ISO-105 E04	 GS: 4 or better GS: 4 or better
f.	Color Fastness to Sea Water (1) Change in Shade (2) Staining	ISO 105 E02	 GS: 4 or better GS: 4 or better
g.	Tensile strength (N) (1) Warp (2) Weft	ISO-13934	 1000 + 5% 750 + 5%
h.	Tear Strength(N) (1) Warp (2) Weft	ISO 13937-01	 35 + 5% 44 + 5%
j.	Flammability	ASTM D 1230	Class1 Flame spread time ≥ 3.5 sec
k.	Dimensional Stability test after 3 HL 40°C (1) Warp (2) Weft	BS EN 25077 BS EN ISO-6330 (4N)	 +2% +2%
l.	Wrinkle recovery		Minimum 3-4
m.	Crease recovery		210° + 3%
n.	Appearance after 5-10 washes (3A) with tumble dry	BS EN ISO 6330 Visual/ Manual	Satisfactory
p.	Pilling resistance after 5,000 cycles	BS EN ISO 12945-2	Grade 5
q.	Abrasion resistance after 6,000 cycles	ISO – 13947-1	No thread break
r.	Air permeability(mm/sec at 100 Pa)	ISO-9237	Minimum 45
s.	Moisture Management		0.75 Min
t.	Water absorbency (drop test)	AATCC 79-2010	Front side 7 sec(max) Back side 6 sec (max)
u.	pH level	ISO-3071	6-8
3.	**STITCHING THREAD MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester
b.	Color	Visual Analysis	Green or Pantone # 19-0315 TCX
c.	Count of yarn	ISO-7211/5	3/22 Tex ± 3%
d.	Construction	Visual Analysis	3 cord each single

4.	**STITCHINGTHREAD PERFORMANCE TESTING**		
a.	Color fastness to washing (Test No. 3) (1)Change in Shade (2)Staining	ISO-105-C10 (C3)	 GS: 4 GS: 4
b.	Strength, cN	ASTM D2256	2680 ± 10
c.	Tenacity, cN/Tex		39.24 ± 3
d.	Elongation %		18.53 ± 2
5.	**PLASTIC PEAK MATERIAL SPECIFICATION**		
a.	Material	Identification of Plastic	Plastic (virgin)
b.	Thickness	ISO-2589	1.5 -1.7 mm
c.	Hardness	IRHD	97 ± 1 IRHD
d.	Density	ASTM D 1667	0.92 g/cc ± 0.01
6.	**CARE LABEL MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester with visible printing which remain satisfactory after washing test.
b.	Shade	Visual Analysis	Nearest to ground fabric color i.e. Khaki
7.	**EMBROIDERY THREAD MATERIAL SPECIFICATION**		
a.	Colour	Visual Analysis	Black Pantone# 19-4006 TCX
b.	Material	AATCC-20A	Viscose
c.	Count of yarn	ISO-7211/5	$2/44^{s}$ ± 2
8.	**EMBROIDERY THREAD PERFORMANCE TESTING**		
a.	Colour fastness to washing Test No. 3 (1) Change in Shade (2) Staining	ISO-105-C10 (C3)	 GS: 4 GS: 4
9.	**VELCRO TAPE MATERIAL SPECIFICATION**		
a.	Material (1) Male (Hook) (2) Female (Loop)	AATCC-20A	 Nylon Nylon
b.	Colour	Visual Analysis	Khaki or Pantone # 16-0518 TCX or matching with the base cloth
10.	**VELCRO TAPE PERFORMANCE TESTING**		
a.	Before Sticking/ unsticking 300 times at 300 g	Visual Analysis	Satisfactory
b.	After Sticking/ unsticking 300 times at 300 g		Satisfactory
c.	Class – I for hook and loops	AATCC-20A	100% Nylon with selvage
d.	Type – II		5.8 mil 300 denier hook
e.	Width		1 inch
f.	Thickness (1) Hook (2) Loop	ASTM D 1777, opt 5	 0.05 in (min) 0.095 in (min)
g.	Weight Grams/ linear yard ()	ASTM D 3776 opt	

	(1) Hook (2) Loop	D	4.7 5.9
h.	Breaking strength lbs (min) () (1) Hook (2) Loop	ASTM D 5034	 100 75
j.	Peel strength lbs/inch/ (min) (1)Before wash (2)After 03 launderings	ASTM D 5170	 1-1.5 1.0
k.	Shear strength, (1)Before wash (2)After 03 launderings	ASTM D 5169	 10 10
l.	Fray resistance after 03 launderings	Mil spec A-A-55126B	No fraying observed

PN SPECIFICATION NO 04/2026 07 MAY 26, 1522 HRS
Lt PN Saijad Umer (ADP 33 PRE AND POST)

ANNEX C TO
PN SPECIFICATION NO.04/2026
PROMULGATION DATE 24 FEB 26

MEASUREMENTS AND DIMENSIONS

S. No	Description	Size (cm)				Tolerance
	Internal circumference	**55**	**57**	**59**	**61**	**± 0.5**
a.	Height at front (Without puttee)	4.5	4.5	4.5	4.5	**± 0.2**
b.	Height at front (With puttee)	7.5	7.5	7.5	7.5	**± 0.2**
c.	Height at Back (Without puttee)	6.5	6.5	6.5	6.5	**± 0.2**
d.	Height at Back (With puttee)	9.5	9.5	9.5	9.5	**± 0.2**
e.	Puttee all round out side width	3	3	3	3	**± 0.1**
f.	Round Top Width	16	16	18	18	**± 0.3**
g.	Round Top Length	18	18	20.5	20.5	**± 0.3**
h.	Peak Length (at center)	6	6	6	6	**± 0.2**
	Peak width (at Back)	18	18	18	18	**± 0.3**

Note:

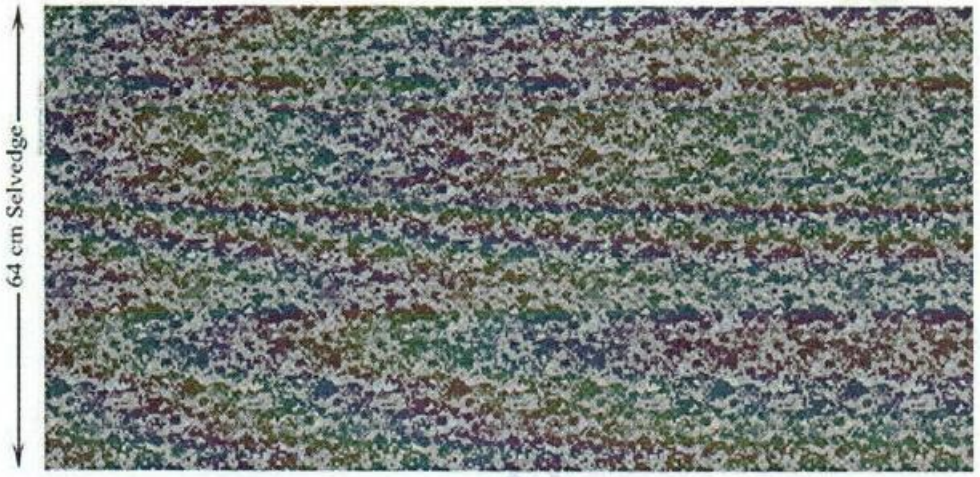
The tolerances are given only for made up caps to cover the stitching allowance. Manufacturer will ensure exact size.

Lt PN Sajjad Umer (ADP 33 PRE AND POST)

APPENDIX I TO ANNEX C TO
PN SPECIFICATION NO 04/2026
PROMULGATION DATE 24 FEB 26

CAMOUFLAGE DESIGN/ PATTERN OF DRESS PAK MARINES

Marine Pixilated Camo

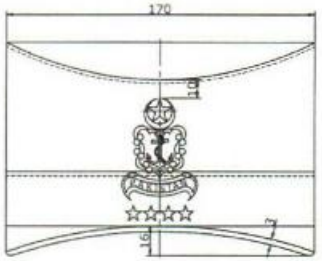


NAVY	DARK BROWN	LIGHT BROWN	KHAKI	GREEN	BEIGE(DYE)
5.87 %	20.55 %	6.85 %	45.72 %	25.53 %	3.82 %

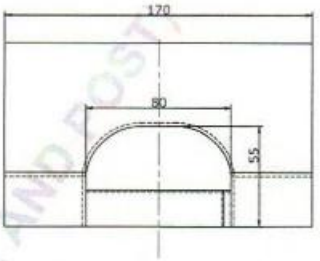
PN SPEC
Lt PN Sajjad Umer (ADP 33 PN)
6, 15:2 hrs

TECHNICAL DRAWING

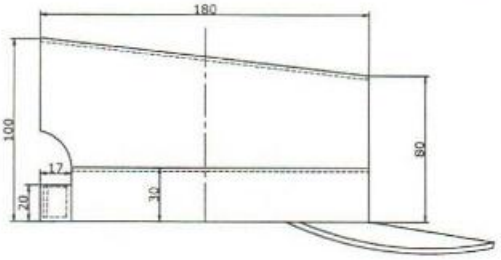
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



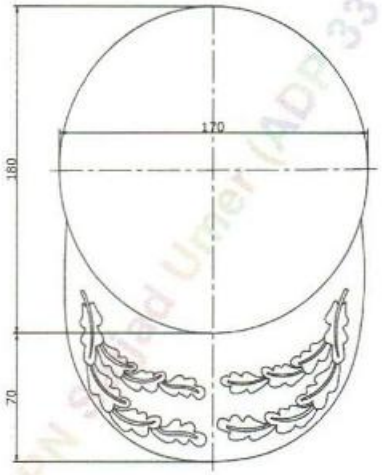
FRONT VIEW



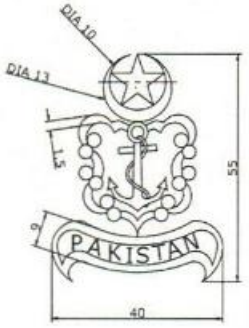
BACK VIEW



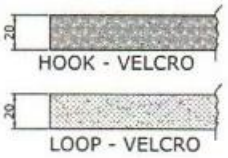
SIDE VIEW



FRONT VIEW



ANCHOR



1742

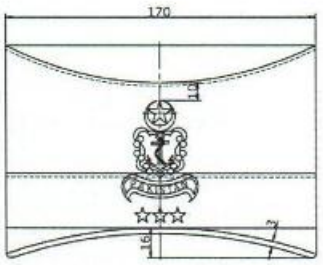
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (ADMIRAL)		
DWG.NO. TD-2934/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

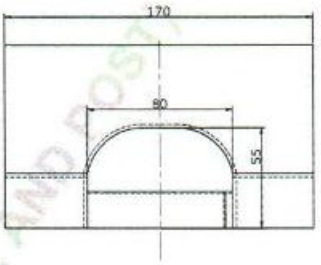
LIFAN Sealed Under (ADP) 33 PRE AND POST

TECHNICAL DRAWING

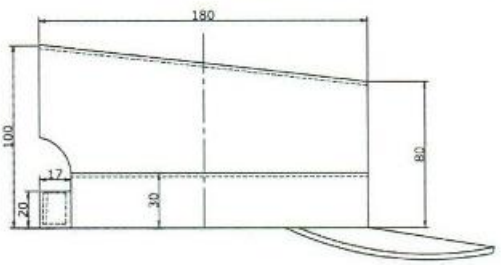
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



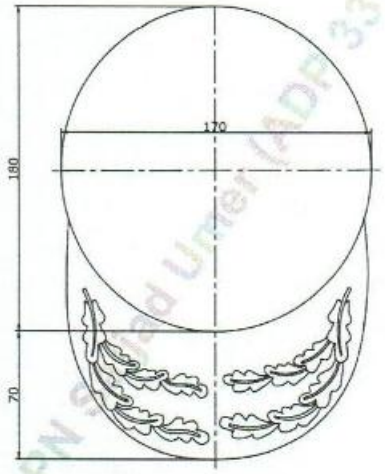
FRONT VIEW



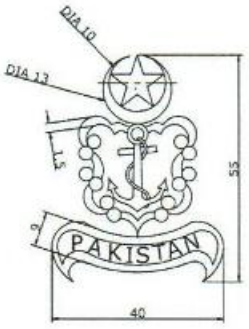
BACK VIEW



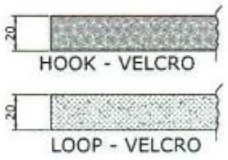
SIDE VIEW



FRONT VIEW



ANCHOR



1743

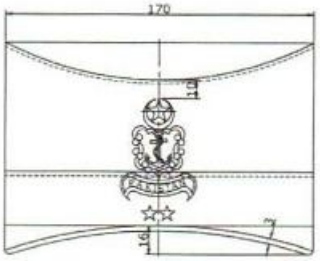
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (VICE ADMIRAL)		
DWG.NO. TD-2935/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HOM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEK	CAPTAIN PN RAO MUZAFFAR ALI DIO

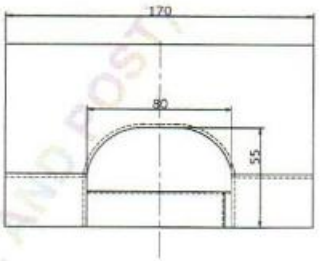
Lt PN Stood Under (ADP 33 PRE AND POST

TECHNICAL DRAWING

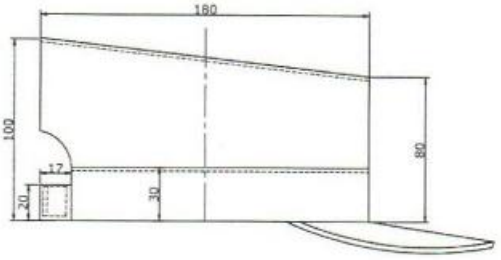
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



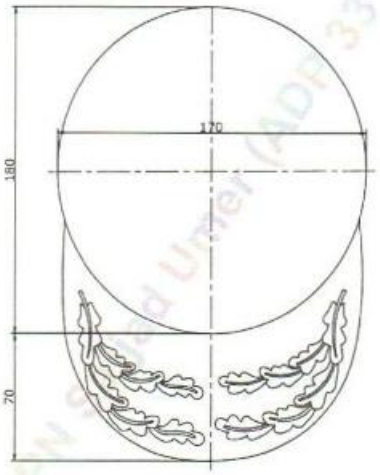
FRONT VIEW



BACK VIEW



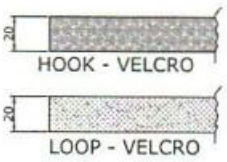
SIDE VIEW



FRONT VIEW



ANCHOR



1744

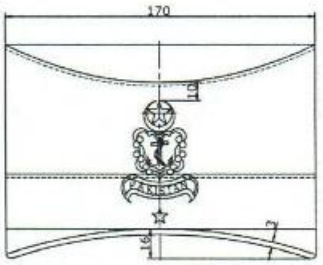
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (REAR ADMIRAL)		
DWG.NO. TD-2936/2026		DIMENSIONS: mm
DATE: 24-02-2026		SCALE: NTS
REVISION NO. --		REVISION DATE: -- -- --
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DTD

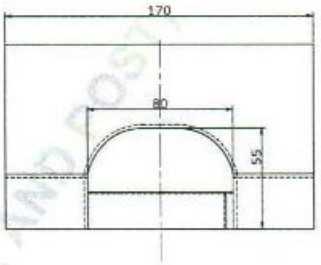
(Lt CDR Sana Umer) (ADP 33 PRE AND POST)

TECHNICAL DRAWING

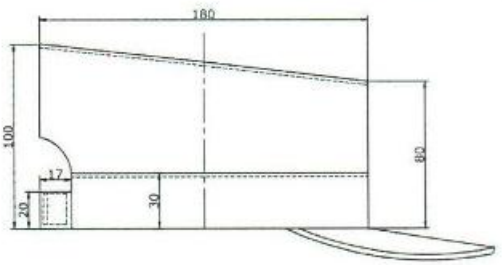
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



FRONT VIEW



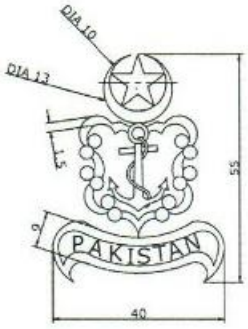
BACK VIEW



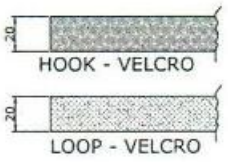
SIDE VIEW



FRONT VIEW



ANCHOR



1745

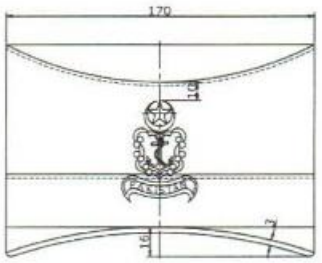
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (COMMODORE)		
DWG.NO. TD-2937/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL OO TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DIO

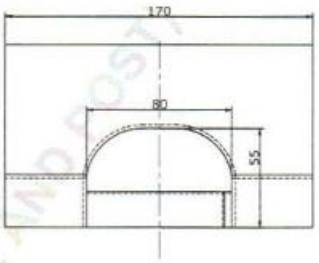
Lt PN Stood Under (ADF 33 PRE AND POST)

TECHNICAL DRAWING

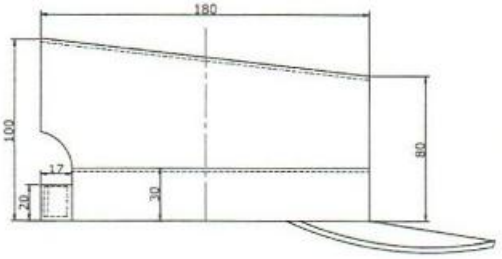
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



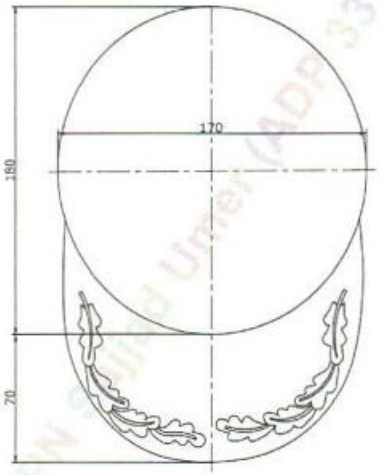
FRONT VIEW



BACK VIEW



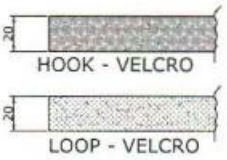
SIDE VIEW



FRONT VIEW



ANCHOR





1746

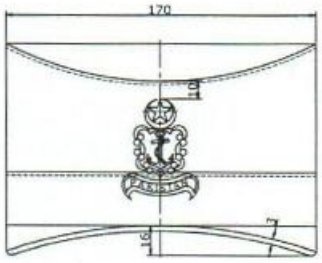
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CAPT & CDR)		
DWG.NO. TD-2938/2026		DIMENSIONS: mm
DATE: 24-02-2026		SCALE: NTS
REVISION NO. --		REVISION DATE: -- -- --
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DTD

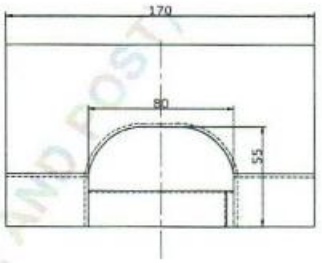
LAW Limited Under (ADP 33 PRE AND POST

TECHNICAL DRAWING

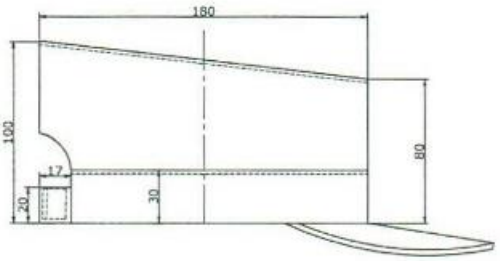
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



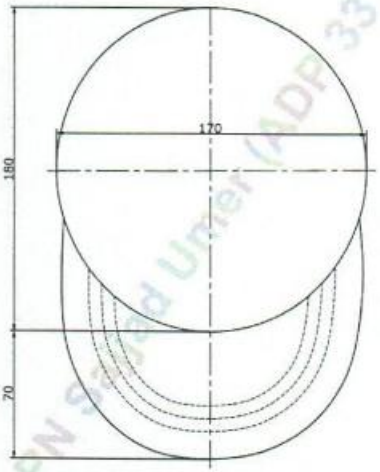
FRONT VIEW



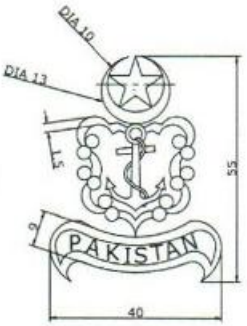
BACK VIEW



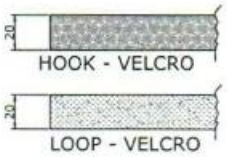
SIDE VIEW



FRONT VIEW



ANCHOR



1747

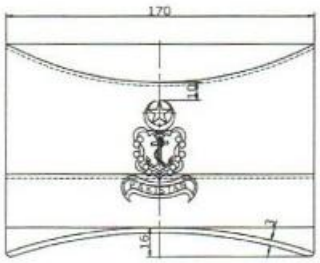
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (LT CDR & BELOW)		
DWG.NO. TD-2939/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL OD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI OSD

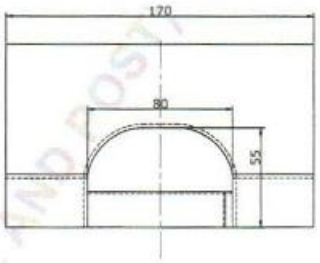
Lt FN Sajad Umer (ADF 33 PRE AND POST) SI(M)

TECHNICAL DRAWING

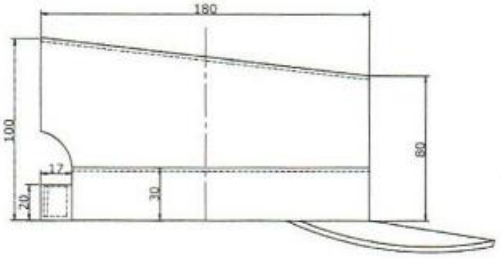
ANNEX "D" TO
PN SPECIFICATION NO. 04/2026
PROMULGATION DATE: 24 FEB 2026



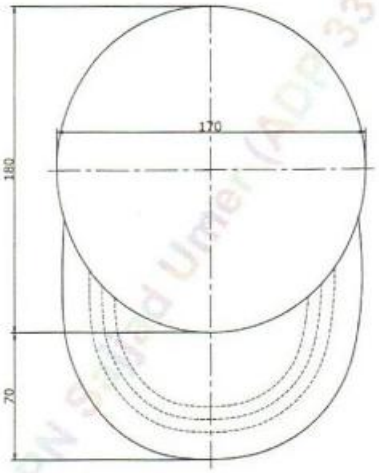
FRONT VIEW



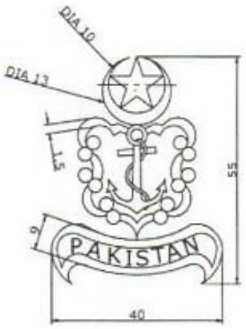
BACK VIEW



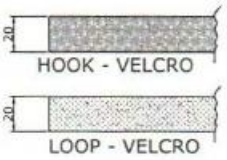
SIDE VIEW



FRONT VIEW



ANCHOR



1748

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CPO's & SAILORS)		
DWG.NO. TD-2940/2026		DIMENSIONS: mm
DATE: 24-02-2026		SCALE: NTS
REVISION NO. --		REVISION DATE: -- -- --
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

LPN Stand Under (ADP) 33 PRE AND POST

ANNEX E TO
PN SPECIFICATION NO 04/2026
PROMULGATION DATE 24 FEB 26

COMMON DEFECTS

S.No	Defects	Definition
	FABRIC	
a.	**Abrasion Mark (bruise, Chafe Mark or rub)**	An area of fabric damaged by friction Damaged due to a braded or uneven surface in a machine.
b.	**Baggy or wavy cloth**	Cloth that will not lie flat on a Cutting Table Tight or loose yarn either in warp or filling (weft).
c.	**Barré Mark**	An unintentional, repetitive visual pattern of continuous bars and stripes usually parallel to the filling of woven fabric. Barré can be caused by physical, optical, or dye differences in the yarns, geometric differences in the fabric structure, or by any combination of these differences.
d.	**Blotch**	An off colored area of any shape caused by grease or Oil. (Syn. oil spot).Cause due to leakage/ slippage from machine.
e.	**Bow**	A fabric condition resulting when filling yarns are displaced from a line perpendicular to the selvages and form one or more arcs across the width of fabric.
f.	**Broken filament**	In multifilament yarn, breaks in one or more filaments.
g.	**Clip mark**	An open place causing a streak of variable length approximately parallel of the length of width.
h.	**Decanting Mark**	A crease marks or impression extending across the cloth near the beginning or end of a piece due to the thickness of the fabric leader seam.
j.	**Double Pick**	In woven fabrics, two picks wrongly place in the same place.
k.	**Draw Back**	A weave distortion characterized by tight and stack places in the same warp yarn.
l.	**End out**	A void caused by a missing warp yarn.
m.	**Float**	In woven fabrics, the portion of a warp or filling yarn that extends unbound over two or more warp of filling yarns.
n.	**Filling Band**	In woven fabrics, visual defect across the width due to a change occurring in the yarn for a large number of picks.
p.	**Frosting**	A change in color in a limited area of fabric cause by abrasive wear.

q.	**Hole**	In fabric, imperfection, wear one or more yarn or sufficiently damaged to create an aperture.
r.	**Fuzzy**	Characterized by a hair appearance due to protruding broken fibers or filaments.
s.	**Let-off Mark**	In woven fabrics, a corrugated defect pattern distributed across the fabric width.
t.	**Loom fly**	Waste fibers create during weaving that are woven into a fabric.
u.	**Loop Salvage**	An improperly woven salvage of uneven width or a salvage containing irregular filling loops extending beyond the outside edges.
v.	**Messiness**	Surface distortion in a fabric characterized by objectionable unevenness due to many minor deformations.
w.	**Pin Hole**	In fabric, a very small hole, approximately the size of the a cross section of the pin.
x.	**Pin Mark**	A series of holes near the edge parallel with the lengthwise direction of a fabric caused by the holding device on the pin tender frame.
y.	**Reed Mark**	In woven fabric, a creak between groups of ends, either continues or at intervals.
z.	**Scalloped Salvage**	An abrupt, narrow indentation in the salvage.
aa.	**Salvage Mark**	In finished cloth, a lengthwise crease mark along the salvage caused by an edge being folded or doubled.
ab.	**Shiner**	A streak, usually short, caused of a lustrous section of filament yarn.
ac.	**Smash**	In woven fabrics, relatively large hole characterized by broken warn ends and floating picks.
ad.	**Skew**	A fabric condition resulting when filling yarns are angularly displace from a line perpendicular to the edge or side of the fabric.
ae.	**Snag**	In fabrics, a yarn or part of a yarn pulled or plucked from the surface.
af.	**Thin Place**	In fabric, appearance characterized by a small area of loosely placed yarn or by a congregation of thin yarn as compared to the adjacent construction.
ag.	**Tight Salvage**	In woven fabrics, salvage yarn shorter than warp yarn in the body of the fabric.
ah.	**Streak**	An extended unintentionally strips narrow width, often a single yarn.
aj.	**Tram Mage**	In woven crepes, a puckered area in which a filling yarn has twist running in the same direction for several picks instead of alternating S and Z twist.
ak.	**Temple Mark**	In woven fabrics, small holes or distortions adjacent to the salvage.

al.	**Tender Mark**	A visible deformation on the side edge or body of a fabric due to pressure for clips or pins.
am.	**Shaded Parts**	Any garment portion puckered, twisted, or pleated at joining seam. Quality of any part not as per specification. Any part shaded or any shade bar. Any panel mismatch with other panels
an.	**Color**	Color of embroidery or fabric fades out, not as per specification. Color of any part not as per specification.
ap.	**Cleanliness**	Any slub, spot, or stain on outer side. Threads ends not trimmed or loose threads ends not removed (to be scored only when condition exists on major portion of Jockey Cap). Any identification stamping visible on outer side. Poor Workmanship.
aq.	**Seams and Stitching**	Velcro stitched poorly. Any twisted, puckered, or pleated. Stitching tension tight resulting in breakage of stitches when normal pull is applied. Poor embroidery on eyelets and Pak Navy logo.
ar.	**Packing and Marking**	Sample are not packed and marked as mentioned in the specification. Poor marking and packing. Identification label and care label not provided

PN SPEC Lt PN Sajjad Umer (ADP 33 PRE/AM)

ANNEX F TO
PN SPECIFICATION NO 04/2026
PROMULGATION DATE 24 FEB 26

ACCEPTABLE QUALITY LEVELS (AQLs)

1. Acceptable Quality Level (AQL) is maximum average defective items in a lot or limit / percentage of defective items in product /offered store. It is expressed in a percentage. Number of average defective items is determined by following formula:

$$\text{Average defective item} = \frac{\text{No.of defective item found during inspection}}{\text{Total no.of item to be inspected}} \times 100$$

2. AQL process: it is used for inspection of finished product / garment by the QC professionals. AQL standard is depend on the quality of the product to be inspected, random sampling, and experience of inspector. Normally lower figure AQL standard e.g. 01% is used for high quality products/ narrow width fabric and high figure AQL standard e.g. 10% for low quality product/ garment. AQL standard 2.5% means that allowable limit of defective item is 2.5 % of total items inspected .Usually AQL 2.5% is used for major defects, AQL 4.0 % is used for minor defects and AQL 6.5% is used for slight defects, however zero acceptance for critical defects Allowable limit of Major defects are less than minor defects and it depends upon nature of item /offered store. It can be less than 01% or greater than 10%. .Following AQL table is used to determine lot size/ offered store quantity, least No. of sample to be inspected, AQL %, and acceptance & rejection points:

SINGLE SAMPLING PLAN FOR NORMAL INSPECTION OR AS PER ORDER OF INSPECTING OFFICER

Lot size	Least No. of sample to be Inspected	Allowable Quality levels(AQL) % • Acceptable/ Allowable defective sample (Ac) • Rejected /Exceed allowable limit of defective item (Re)									
		1.5%		2.5%		04%		6.5%		10%	
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re
281-500	20-80	1-3	2-4	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15
501-1200	32-125	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22
1201-3200	50-200	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22
3201-10000	80-315	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22
10001-35000	125-500	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22	21	22

35001-150000	200-800	7-21	8-22	10-21	11-22	14-21	15-22	21	22	21	22
150001-500000	315-1250	10-21	11-22	14-21	15-22	21	22	21	22	21	22
500001-above	500-2000	14-21	15-22	21	22	21	22	21	22	21	22

3. If the inspector have time constrain then AQL is beneficial/ helpful in inspection of whole lot/ offered store. It safe time, cost and give effective/ statistical result of product /offered store **e.g**. If inspector needs 5 minutes to check the item , the quantity to be inspected is 2,500 items then it took 208 hours to check the whole consignment/ offered store.it means 26 days approx. for one store. Calculation is as follows:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}500\ items = 208.33\ hrs \cong 26\ days$$

After Implementing AQL standard so the sample taken from the lot/ offered store is 200 items/ sample:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}00\ items = 16.66\ hrs \cong 02\ days$$

4. Quality parameters/ AQL limits may be defined by Inspecting Authority (if deemed appropriate) and communicate to the manufacturer, so the manufacturer set their quality levels (AQL limits) accordingly for their internal audit. Therefore, good quality product is ready for inspection.

Lt PN Sajjad Umer (ADP 33 PRESS)

PAKISTAN NAVY SPECIFICATION NO.05/2026
PROMULGATION DATE: 24 FEBRUARY 2026

JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS FOR SSG (N) 60% COTTON – 40% POLYESTER

This document is the property of the Pakistan Navy and its use is authorized for personnel in the course of their Inspection, Quality Assurance, Stowage, and Issuance and on need to know basis. The unofficial retention or destruction of this document is an offence.

Prepared by:

Directorate of Inventory Deletion
Naval Research & Development Institute
(NRDI) ITD Wing (South)
at NSSD Area, West Wharf Road
KARACHI

Tel: 021-48508411-9256
Fax: 021-9921476
Email: ditd-s@paknavy.gov.pk
did@paknavy.gov.pk

PROMULGATION ORDER

1. This specification is hereby approved and promulgated for information, guidance and compliance by all concerned.

2. Details contained in the specification are to be studied and implemented with due regard to interest of the Service.

SUGGESTIONS FOR AMENDMENT

1. The specification has been prepared to bring the test methods and procedures in line with up-to-date PN requirements and facilities held in Pakistan. CINS may request to amend any test requirement/ test procedure in light of the experience emanating from its inspection history, through the feedback form placed at Annex G. However, such an alteration will be effective when the amendment is promulga2ted by this Directorate, and will be effective on the contracts which materialize after the promulgation date of respective amendment.

Lt PN Sajjad Umer (ADP 33 PRE AND POST) May 26 1523 hrs

CONTENTS

Description	Page No
Promulgation Order	ii
Suggestions for Amendment	ii
Table of content	iii
Record of Changes/ Amendements	iv
Details	
Designation	1
Usage	1
Introduction	1
Scope	1
Related Documents	1
Definitions & Abbreviations	2
Technical Details of Jockey Cap Flat top	2
Measurement Schedule	2
Manufacturing Details of Jockey Cap Flat top	2
Quality of Workmanship and finishing	3
Testing	3
Tender Sample	3
Advance Sample	3
Inspection	4
Stamping of Accepted/ Rejected Stores by Inspector	5
Special Instructions	5
Packing Details	5
Identification Label	6
Packing List	6
Marking of Stores	6
Delivery	7
Annexes:	
A. Definitions & Abbreviations	8
B. Technical Details of Jockey Cap Flat top	9
C. Measurement Schedule	12
D. Technical Drawings of Jockey Cap Flat top	15
E. Common Defects	22
F. Acceptable Quality Levels (AQLs)	25
G. Feedback Form	27
Blank page	28

PN SPECIFICATION 05/2026
JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS FOR SSG (N) 60% COTTON – 40% POLYESTER

0101. DESIGNATION

1. Jockey Cap Flat top for camouflage dress for SSG (N).

0102. USAGE

1. This Jockey Cap Flat top for camouflage dress for SSG (N) will be used by Officers, CPO's/ Sailors.

0103. INTRODUCTION

1. This specification is prepare by Director of Inventory Deletion (DID) of ITD Wing -South, to provide necessary guidance to the potential manufacturers/suppliers of the items mentioned herein. This specification is to be used for testing and deciding upon acceptance, or otherwise, of the items mentioned. Any alteration or addition in this specification suggested to DID at ITD Wing. However, it implemented with approval of DCLS. This specification supersedes and replace PN/Specification/04/2018 dated 08 Oct 18 (Camouflage Jockey/ Sea Cap) and other specifications promulgated earlier in relation to the item mentioned herein.

2. This specification consists **32** pages, including cover page and **07** Annexes.

0104. SCOPE

1. This specification covers the manufacturing/ inspection requirements of Jockey Cap Flat top is worn by SSG (N). This specification lays down the standard to which the stores shown under designation above should conform. It defines and lays down the quality, standard and details of materials, workmanship and finish. It also lays down the details of sampling, testing, inspection rejection, marking, preservation, packing and delivery etc.

2. The supplier/ manufacturer shall comply in every respect with the terms of this specification and ensure that the stores conform to it, in all respects.

0105. RELATED DOCUMENTS

1. The latest standards documents that have been referred to in this specification are:

a.	AATCC-20A	Determination of fiber quality.
b.	AATCC-8	Color fastness to crocking.
c.	ASTM D 1667	Flexible cellular materials.
d.	ASTM D 1777 opt 5	Standard test methods for thickness.
e.	ASTM D 3776 opt D	Standard test methods for mass per unit area (weight) fabric.
f.	ASTM D 5034	Tearing strength of fabric.
g.	ASTM D2256	Elongation, strength and tenacity of thread

h.	ASTM D 5170	Peel strength for hook and loops.
j.	ASTM D 5169	Shear strength for hook and loops.
k.	ISO-105-C10 (C3)	Color fastness to washing.
l.	ISO-105-E02	Colour fastness to Seawater test.
m.	ISO-105-E04	Colour fastness to Perspiration.
p.	ISO 6330 (4N)	Domestic washing and drying procedures for textile testing.
q.	ISO-105-X12	Colour fastness to Rubbing test.
r.	ISO-7211/1	Determination of Weave pattern.
s.	ISO-7211/2	Determination of number of thread per unit length.
t.	ISO-7211/5	Determination of linear density of yarn removed from fabric.
u.	ISO-3801	Determination of mass per unit length and area.
v.	ISO-13934	Tensile properties of fabrics Determination of maximum force and elongation at maximum force using the strip method.
w.	ISO-2589	Determination of thickness.
x.	ISO-3801	Weight per Sq. mtr.
y.	BS EN ISO 12945-2	Determination of fabric propensity to surface fuzzing and to pilling.
z.	BS EN ISO 12947-2	Determination of the abrasion resistance of fabrics by the Martindale method.
aa.	BS EN 25077	Determination of Dimensional Change in washing and drying.
ab	Mil spec A-A-55126B	Fasteners tapes Hook loop synthetic.

0106. **DEFINITIONS & ABBREVIATIONS**

1. Definitions for the terms used in this standard are given at Annex A.

0107. **TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP**

1. The technical details of Jockey Cap Flat top is given at Annex B of this specification.

0108. **MEASUREMENT SCHEDULE**

1. The measurement schedule of Jockey Cap Flat top is given at Annex C of this specification.

0109. **MANUFACTURING DETAILS OF JOCKEY CAP FLAT TOP**

1. Jockey Cap Flat top shall be fabricated in accordance with the measurement schedule and drawings as illustrated in the drawing at Annex C and D, respectively.

2. 01 x panel is attached in circular shape to form Jockey Cap side panel & 01 x panel of Flattop is attached as per Annex D. The panels are stitched with each other using single needle stitch neatly using 10-12 SPI.

3. Base fabric should be used at upper and lower side of polymeric peak.

4. Velcro tape (fasteners tapes Hook loop synthetic) used for adjustment of cap shall be 2.5 cm i.a.w Mil spec A-A-55126B. The color of Velcro and embroidery on eyelets shall be Black in color.

5. Care label and identification label is attached with inner cloth.

0110. **QUALITY OF WORKMANSHIP AND FINISHING**

1. Workmanship and finish of the Jockey Cap Flat top shall be as per drawing and it shall be best of its class and to the entire satisfaction of the inspector.

0111. **TESTING**

1. The material subjected to tests, laid down in this specification at Annex B and related documents. At least 02 x meters fabric and two Jockey Cap Flat top will be required to complete all the tests mentioned at Annex B of this specification. Inspecting Authority reserves the right to get any B/R samples tested from any reputable Laboratory other than PN.

0112. **TENDER SAMPLE**

1. Tender sample approved by TSR Committee. For each contract, the manufacturer shall supply 03 x samples of Jockey Cap Flat top along with 02 x meters fabric at the time of tendering along with samples of materials used in manufacturing of caps for inspection.

0113. **ADVANCE SAMPLE**

1. Advance sample or pre-production sample, when required, submitted in accordance with terms of the contract for inspection, testing and approval. The minimum quantities required for Jockey Cap Flat top are as follows:

a.	Jockey Cap Flat top Cloth	02 x meter
b.	Jockey Cap Flat top	03 of any size
c.	Sewing thread polyester	50 gm
d.	Embroidery thread	50 gm
e.	Velcro tape	1 meter

2. Whenever Tender, Advance or pre-production sample is not required, the suppliers / manufacturer are advised in their own interest to submit to the Inspecting Officer or his representative an initial delivery of 01 % of the contract or 10 x samples of Jockey Cap Flat top whichever are more along with samples of materials for inspection.

3. The approval of the sample authorizes the commencement of bulk production but does not relieve the suppliers/ manufacturers from compliance with all the provisions of this specification.

4. Firm shall provide advance sample along with quality verification reports of Jockey Cap Flat top from an accredited laboratory to ensure in process inspection/ quality procedure of the firm.

0114. **INSPECTION**

1. **Bulk Representative Sample.** B/R random sampling will be carried out as per rules in vogue.

2. **Bulk Inspection.** Bulk inspection will be carried out after satisfactory completion of Visual Examination and Testing of B/R Sample.

3. **Inspection of Jockey Cap Flat.** The common defects for such examination/ inspection are listed at Annex E. Offered store shall be inspected as per AQL or order of Inspection Authority.

4. **Inspection/ Acceptance and Rejection of Stores.** Inspection/ acceptance is to be carried out to the satisfaction of Chief Inspector Naval Stores.

5. The Jockey Cap Flat top shall be examined for the correctness of material, shape, design, dimension, size, workmanship and finish.

6. All Jockey Cap Flat top shall be inspected especially for stitching and finishing, weaving defects, defective shape, discoloration/ fading, pinholes. Stitching and embroidery of Jockey Cap Flat top is to be especially checked.

7. CINS reserves the right to reject the whole supply in case, upon examination, material or packing of any sample or portion of the consignment is found **'NOT CONFORMING'** to this specification.

8. If on examination of 5% of any delivery, 20% of those examined from bulk supply are found **'NOT CONFORMING'** to this specification in respect of the pattern, dimensions, workmanship and finish, the whole consignment may be rejected without any compromise.

9. All stores and packing **'NOT'** fully in accordance with this specification shall be rejected.

10. Jockey Cap Flat top with major defects as described in Annex E of this specification will be rejected.

11. **Responsibility for Inspection.** The supplier is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. PN reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

12. **Responsibility for Compliance.** The inspection set forth in this specification shall become a part of the supplier's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to PN for acceptance comply with all requirements of the contract. Sampling

inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit PN to acceptance of defective stores (material).

13. **Replacement by the Contractor.** The supplier/ manufacturer is responsible for replacement of the consignment or any part thereof whenever it is found to be not conforming to this specification. The supplies so tendered in replacement, shall be subjected to testing/ inspection and acceptance by the Inspecting Officer.

14. **Responsibility for Safety.** The supplier/ manufacturer is wholly responsible for the safety of supplies during inspection, storage at firm's premises, proper packing, dispatch and delivery up to consignee.

0115. STAMPING OF ACCEPTED/ REJECTED STORES BY THE INSPECTOR

1. Following instructions are to be followed:

   a. **Stamping of Accepted Stores.** Each acceptable Jockey Cap Flat top shall be stamped with Inspector's Individual Acceptance Mark. The stamping shall be legible.

   b. **Stamping of Rejected Stores.** The rejected Jockey Cap Flat top shall be marked with Inspector's Rejection Mark to avoid re-submission by the supplier.

2. The Inspector is the authority in all matters pertaining to inspection.

0116. SPECIAL INSTRUCTIONS

1. **Care Label Instructions.** Care instructions in English and Urdu shall be attached with each Jockey Cap Flat top as indicated in the drawing and have minimum requirement as follows:

   a. Washing procedure e.g. gentle cycle machine wash.
   b. Ironing procedure e.g. Warm iron.
   c. Drying procedure e.g. Air dry.
   d. Any prohibition e.g. Do not bleach and dry clean etc.

0117. PACKING DETAILS

1. The store when ordered to be delivered **'PACKED'** shall be packed as per following instructions:

   a. 10 x Jockey Cap Flat top shall be packed in a neat, dry and clean condition in standard polyethylene packing of 0.035 mm $\pm$ 0.05mm thickness. These bags shall be sealed with transparent adhesive tape of 2.54 cm with thickness of 0.04-0.05 mm.

   b. 30 x such bundles (300 x caps) shall be packed in Carton Corrugated Card board box (07 ply).

c. Each Carton shall contain one size of Jockey Cap Flat top only.

0118. **IDENTIFICATION LABEL**

1. Each Jockey Cap Flat top shall bear following minimum information on the label attached with Jockey Cap Flat top as indicated in Technical drawing at Annex D of this specification:

a. Item name/ item description with NSN/Pattern No.
b. Material Composition and Size.
c. Contract number and Date.
d. Year of manufacturing.
e. Contractor's name, initials, or trade mark.
f. Batch no.

0119. **PACKING LIST**

1. Firm is bound to provide a packing list of store offered for inspection along-with the challan, which include complete details about the store i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and Date, Challan No. and Date. A packing list shall be enclosed after completion of inspection with each packed box giving full details about the stores packed i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and date, I/Note No. or voucher No. and date, consignee, consignor, date of packing and packer's signature.

0120. **MARKING OF STORES**

a. Each carton of Jockey Cap Flat top will stenciled with quick drying Black indelible ink/ print in clearly define characters as per followings:

a. On Front and Top:

(1) Catalogue No and Designation of the store packed.
(2) Contract No and date.
(3) Quantity of the Item packed.

b. On Back:

(1) Consignee address.
(2) Designation i.e Railway Station.
(3) Weight of the Package.
(4) The No. of individual Package and the total No of Packages in the consignment joined by the Word 'of 'e.g. 2 of 300.

c. On Bottom:

(1) Consignor's Name.
(2) Voucher No. or inspection note no. and date.
(3) Month and year of packing.

0121. **DELIVERY**

1. The consignment of store will be delivered in accordance with the terms of contract.

2. The store shall be delivered in Brand new, clean and dry condition.

3. The contractor/ manufacturer is fully responsible for the safety of the supplies during inspection, storage at firms premises proper packing, dispatch and delivery up to consignee.

RAO MUZAFFAR ALI
Captain Pakistan Navy
Director

Annexes:

1.	Definitions & Abbreviations	8
2.	Technical Details of Jockey Cap Flat top	9
3.	Measurements Schedule	12
4.	Technical Drawing of Jockey Cap Flat top	15
5.	Common Defects	22
6.	Acceptable Quality Levels (AQLs)	25
7.	Feedback Form	27

Lt PN Sajjad Umer (ADP 33 PRE AND POST) 01 May 26, 1593 hrs

DEFINITIONS & ABBREVIATIONS

1. DEFINITIONS

a. Following definitions are used in this specification and will be adopted for use:

(1) **Inspector.** The term inspector shall include the "Inspection Authority", Inspecting Officers and their representatives, duly authorized for the purpose of discharging inspection duties involved.

(2) **Inspection Authority.** Chief Inspector of Naval Stores (CINS). His verdict in respect of Sealed Inspection matters is to be taken as final.

(3) **Inspecting Officers.** An Officers nominated by the CINS for carrying out inspection of stores supplied by the supplier, against a specified contract or order, in accordance with the particulars stipulated therein.

(4) **Acceptance Quality Level (AQL).** It represent allowable limit/ tolerance of defects or non-conformities in an offered store/ lot/ batch. It represent in percentage, also known as Allowable Quality Limits.

(5) **Minor Defects.** They are small insignificant issues that don't affect the function or form of the item. Highest tolerance of AQL has been set for minor defects.

(6) **Major Defects.** They would likely result in product return but don't poses safety risk. AQL tolerance depend upon the description/ quality of finished product.

2. ABBREVIATIONS

a. Following abbreviations are used in this specification and will be adopted for use:

(1) **CINS**: Chief Inspector of Naval Stores.

(2) **DID**: Directorate of Inventory Deletion.

(3) **DCLS**: Directorate of Clothing Stores.

(4) **PNCSD**: Pakistan Navy Clothing Store Depot.

(5) **PNCTA**: Pakistan Navy Central Testing Authority.

ANNEX B TO
PN SPECIFICATION NO 05/2026
PROMULGATION DATE 24 FEB 26

TECHNICAL DETAILS OF JOCKEY CAP FLAT TOP

S NO	ITEMS	INT'ERNATIONAL STANDARDS	RESULTS
1.	**BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)**		
a.	Material	AATCC-20A	60% Cotton – 40 % Polyester
b.	Count of Yarn (1) Warp (2) Weft	ISO-7211/5	 20^s+ 2 (29.5 + 2 Tex) 16^s+ 2 (37 + 2 Tex) Ring spun Combed yarn shall be used
c.	Threads per Inch 2.54mm (1) Warp (2) Weft	ISO 7211/2	 123 +5 (Ends) 63 +5 (Picks)
d.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop
e.	Threads /Rip (1) Warp (2) Weft		 2 each single 2 each single
f.	Size of Rip (1) Warp (2) Weft		 6mm+1mm 6mm+1mm
g.	Weight (gm/sq.mtr)	ISO 3801	245 gm + 2%
h.	Finish	Chemical analysis	Mercerize, pre- shrink by sanforize and hydrophilic softener (nano finish)
j.	Nature of Dye Ground Print	Chemical Analysis	 Vat dye Vat print
k.	Digital Camouflage Design Pattern		As per Appendix I

l.	Color shade	L	a	b	c	h
	(1) Brown	29.28	5.63	9.67	11.19	59.79
	(2) Black	17.45	2.06	-1.75	2.71	319.74
	(3) Green	31.64	-8.38	8.34	11.83	135.15
	(4) Olive Green/ Beige	48.1	2.48	15.18	15.38	80.72

m.	Color Difference	$\Delta E \leq 1$	
p.	Weave Pattern	ISO-7211/1	Twill weave 2/1 + Rip Stop
q.	Nature of Dye	Chemical Analysis	Vat dyes & vat print
r.	Shrinkage % (1) Wrap (2) Weft	ISO-6330 (4N) BSEN 25077	 $\pm$2% $\pm$2%
2.	**BASE FABRIC PERFORMANCE TESTING**		
a.	Color fastness to washing (1) Change in Shade (2) Staining	ISO-105-C10 (C3)	 GS: 4 or better GS: 4 or better

b.	Color Fastness to Rubbing (Dry) (1)Staining	AATCC-20A	GS: 4 or better
c.	Color Fastness to Rubbing (Wet) (1) Staining		GS: 4 or better
d.	Color Fastness to light (1) Change in Shade	BS EN-1006	GS: 4 or better
e.	Color Fastness to perspiration (1) Change in Shade (2) Staining	ISO-105 E04	GS: 4 or better GS: 4 or better
f.	Color Fastness to Sea Water (1) Change in Shade (2) Staining	ISO 105 E02	GS: 4 or better GS: 4 or better
g.	Tensile strength (N) (1) Warp (2) Weft	ISO-13934	1000 + 5% 750 + 5%
h.	Tear Strength(N) (1) Warp (2) Weft	ISO 13937-01	35 + 5% 44 + 5%
j.	Flammability	ASTM D 1230	Class1 Flame spread time ≥ 3.5 sec
k.	Dimensional Stability test after 3 HL 40°C (1) Warp (2) Weft	BS EN 25077 BS EN ISO-6330 (4N)	+2% +2%
l.	Wrinkle recovery		Minimum 3-4
m.	Crease recovery		210° + 3%
n.	Appearance after 5-10 washes (3A) with tumble dry	BS EN ISO 6330 Visual/ Manual	Satisfactory
p.	Pilling resistance after 5,000 cycles	BS EN ISO 12945-2	Grade 5
q.	Abrasion resistance after 6,000 cycles	ISO – 13947-1	No thread break
r.	Air permeability(mm/sec at 100 Pa)	ISO-9237	Minimum 45
s.	Moisture Management		0.75 Min
t.	Water absorbency (drop test)	AATCC 79-2010	Front side 7 sec(max) Back side 6 sec (max)
u.	pH level	ISO-3071	6-8
3.	**STITCHING THREAD MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester
b.	Color	Visual Analysis	Green or Pantone 19-0315
c.	Count of yarn	ISO-7211/5	3/22 Tex ± 3%
d.	Construction	Visual Analysis	3 cord each single
4.	**STITCHINGTHREAD PERFORMANCE TESTING**		
a.	Color fastness to washing (Test No. 3) (1)Change in Shade (2)Staining	ISO-105-C10 (C3)	 GS: 4 GS: 4

b.	Strength, cN	ASTM D2256	2680 ± 10
c.	Tenacity, cN/Tex		39.24 ± 3
d.	Elongation %		18.53 ± 2
5.	**PLASTIC PEAK MATERIAL SPECIFICATION**		
a.	Material	Identification of Plastic	Plastic (virgin)
b.	Thickness	ISO-2589	1.5 -1.7 mm
c.	Hardness	IRHD	97 ± 1 IRHD
d.	Density	ASTM D 1667	0.92 g/cc ± 0.01
6.	**CARE LABEL MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	Polyester with visible printing which remain satisfactory after washing test.
b.	Shade	Visual Analysis	Nearest to ground fabric color i.e. Olive green
7.	**EMBROIDERY THREAD MATERIAL SPECIFICATION**		
a.	Colour	Visual Analysis	Black Pantone# 19-4006 TCX
b.	Material	AATCC-20A	Viscose
c.	Count of yarn	ISO-7211/5	$2/44^{s}$ ± 2
8.	**EMBROIDERY THREAD PERFORMANCE TESTING**		
a.	Colour fastness to washing Test No. 3	ISO-105-C10 (C3)	
	(1) Change in Shade		GS: 4
	(2) Staining		GS: 4
9.	**VELCRO TAPE MATERIAL SPECIFICATION**		
a.	Material	AATCC-20A	
	(1) Male (Hook)		Nylon
	(2) Female (Loop)		Nylon
b.	Colour	Visual Analysis	Olive green or Pantone 17-0620 TCX
10.	**VELCRO TAPE PERFORMANCE TESTING**		
a.	Before Sticking/ unsticking 300 times at 300 g	Visual Analysis	Satisfactory
b.	After Sticking/ unsticking 300 times at 300 g		Satisfactory
c.	Class – I for hook and loops	AATCC-20A	100% Nylon with selvage
d.	Type – II		5.8 mil 300 denier hook
e.	Width		1 inch
f.	Thickness	ASTM D 1777, opt 5	
	(1) Hook		0.05 in (min)
	(2) Loop		0.095 in (min)
g.	Weight Grams/ linear yard ()	ASTM D 3776 opt D	
	(1) Hook		4.7
	(2) Loop		5.9
h.	Breaking strength lbs (min) ()	ASTM D 5034	
	(1) Hook		100
	(2) Loop		75
j.	Peel strength lbs/inch/ (min)	ASTM D 5170	

k.	(1)Before wash (2)After 03 launderings Shear strength, (1)Before wash (2)After 03 launderings	ASTM D 5169	1-1.5 1.0 10 10
l.	Fray resistance after 03 launderings	Mil spec A-A-55126B	No fraying observed

PN SPECIFICATION NO 05/2026 07 May 26, 1523 Hrs
Lt PN Sajjad Umer (ADP '33 PRE AND POST)

ANNEX C TO
PN SPECIFICATION NO.05/2026
PROMULGATION DATE 24 FEB 26

MEASUREMENTS AND DIMENSIONS

S. No	Description	Size (cm)				Tolerance
	Internal circumference	**55**	**57**	**59**	**61**	**± 0.5**
a.	Height at front (Without puttee)	4.5	4.5	4.5	4.5	**± 0.2**
b.	Height at front (With puttee)	7.5	7.5	7.5	7.5	**± 0.2**
c.	Height at Back (Without puttee)	6.5	6.5	6.5	6.5	**± 0.2**
d.	Height at Back (With puttee)	9.5	9.5	9.5	9.5	**± 0.2**
e.	Puttee all round out side width	3	3	3	3	**± 0.1**
f.	Round Top Width	16	16	18	18	**± 0.3**
g.	Round Top Length	18	18	20.5	20.5	**± 0.3**
h.	Peak Length (at center)	6	6	6	6	**± 0.2**
	Peak width (at Back)	18	18	18	18	**± 0.3**

Note:

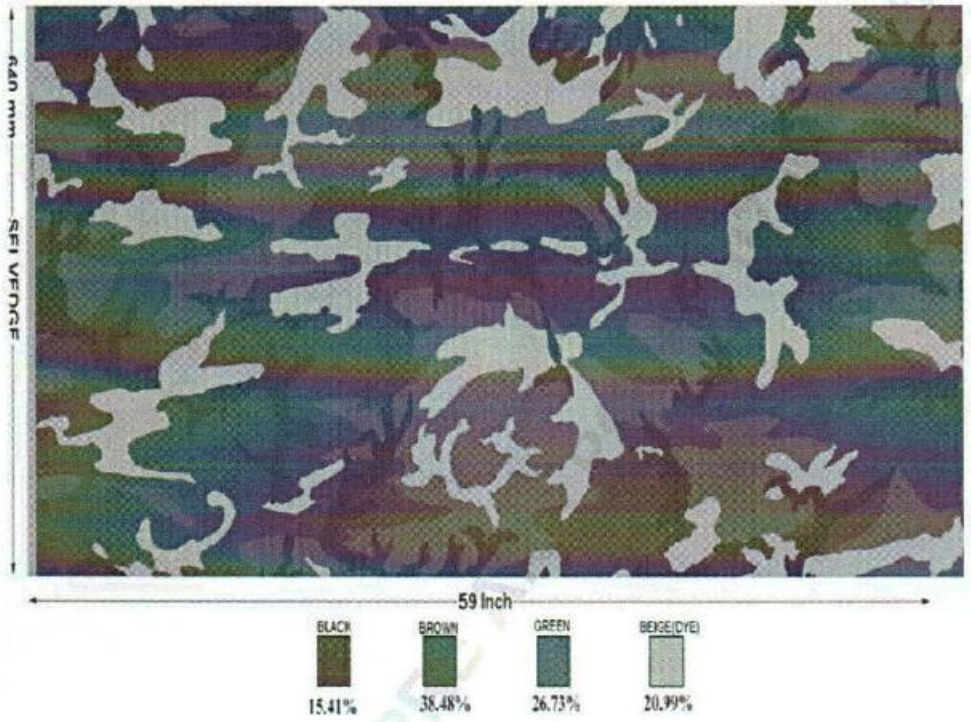
The tolerances are given only for made up caps to cover the stitching allowance. Manufacturer will ensure exact size.

Lt PN Sajjad Umer (ADP 33 PRE AND POST)

APPENDIX I TO ANNEX C TO
PN SPECIFICATION NO 05/2026
PROMULGATION DATE 24 FEB 26

CAMOUFLAGE DESIGN/ PATTERN OF DRESS SSG (N)

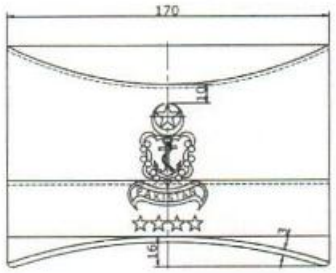
DESIGN #: SSG COMMANDOS



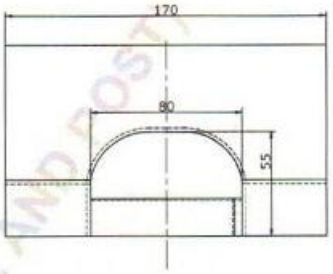
PN SPECIMEN
Lt PN Sajjad Umer (ADP 33 PN)
1523 hrs

TECHNICAL DRAWING

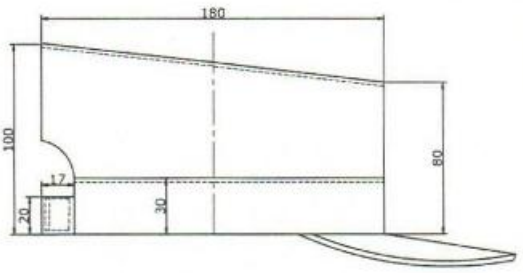
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



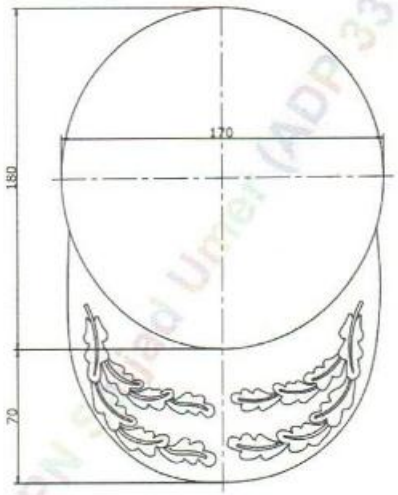
FRONT VIEW



BACK VIEW



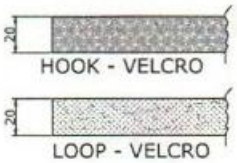
SIDE VIEW



FRONT VIEW



ANCHOR



1742

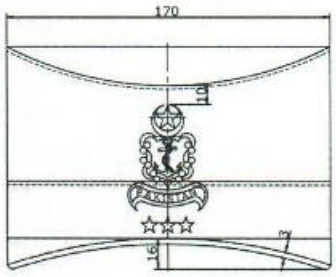
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (ADMIRAL)		
DWG.NO. TD-2934/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

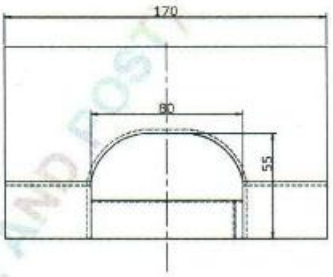
Lt PN Stores Urgent (ADP 33 PRE AND POST

TECHNICAL DRAWING

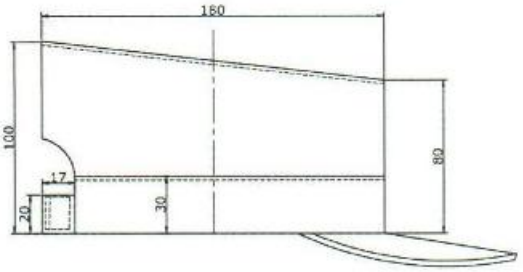
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



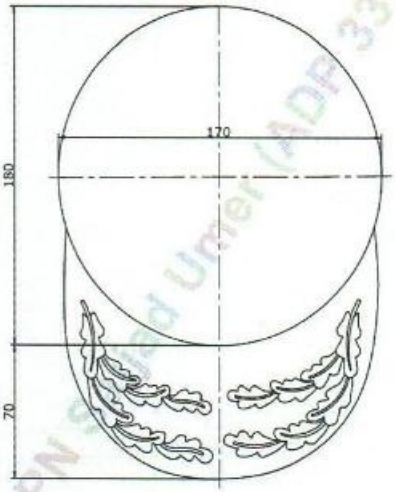
FRONT VIEW



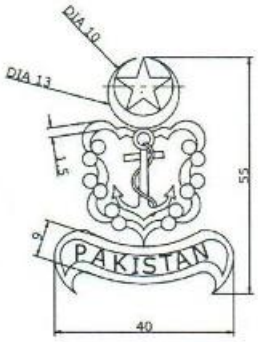
BACK VIEW



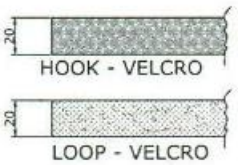
SIDE VIEW



FRONT VIEW



ANCHOR



1743

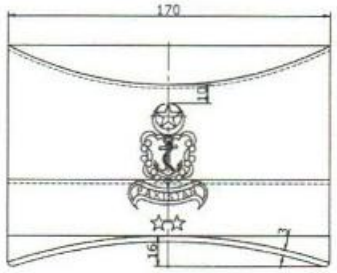
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (VICE ADMIRAL)		
DWG.NO. TD-2935/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

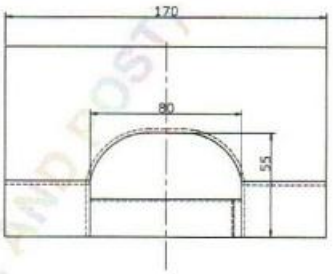
Lt PN Sajjad Umer (ADF 33 PRE AND POST

TECHNICAL DRAWING

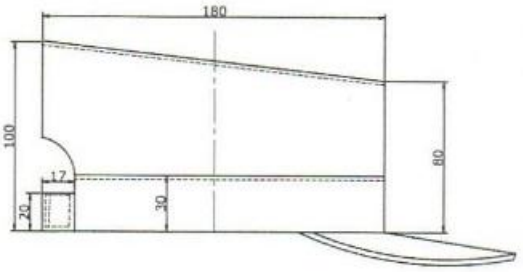
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



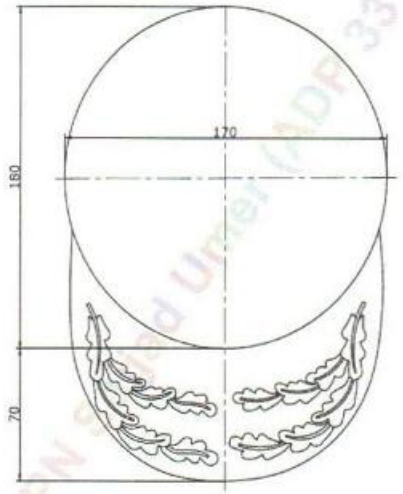
FRONT VIEW



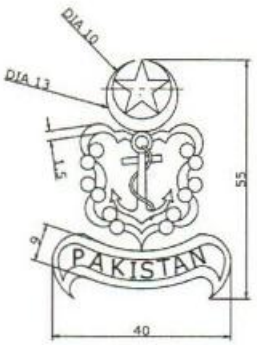
BACK VIEW



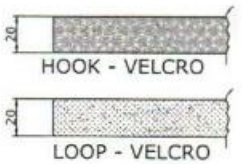
SIDE VIEW



FRONT VIEW



ANCHOR



1744

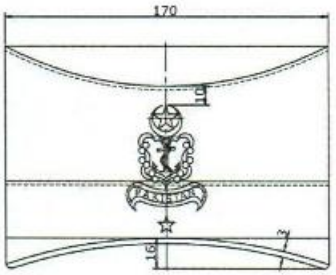
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (REAR ADMIRAL)		
DWG.NO. TD-2936/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL OIC TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

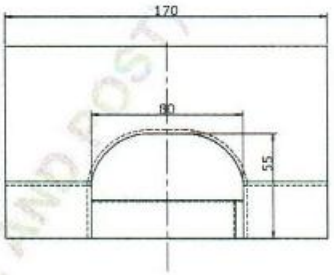
LT CDR Sana Kanwal (ADF 33 PRE AND POST)

TECHNICAL DRAWING

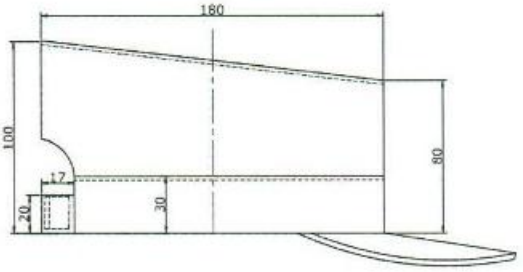
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



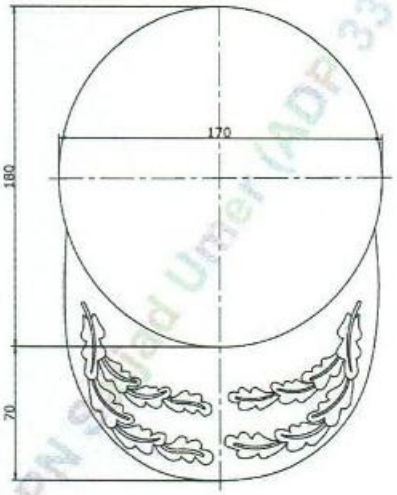
FRONT VIEW



BACK VIEW



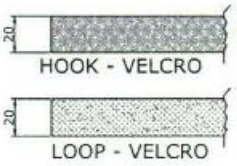
SIDE VIEW



FRONT VIEW



ANCHOR



1745

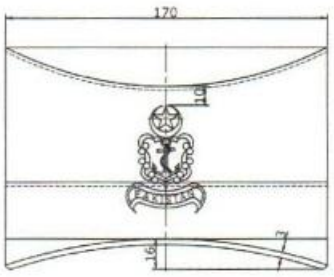
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (COMMODORE)		
DWG.NO. TD-2937/2026		DIMENSIONS: mm
DATE: 24-02-2026		SCALE: NTS
REVISION NO. --		REVISION DATE: -- -- --
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

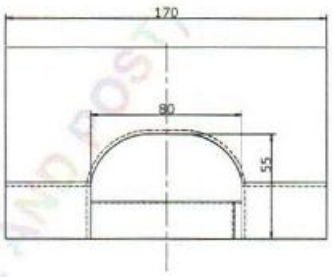
Lt PN Seconded Under (ADF 33 PRE AND POST)

TECHNICAL DRAWING

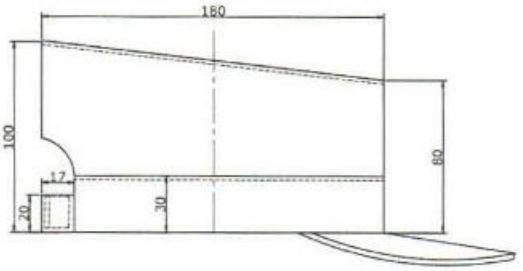
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



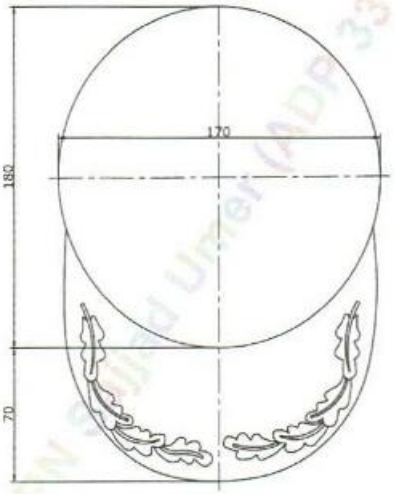
FRONT VIEW



BACK VIEW



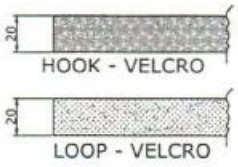
SIDE VIEW



FRONT VIEW



ANCHOR





1746

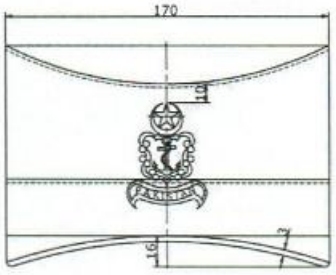
NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CAPT & CDR)		
DWG.NO. TD-2938/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL OD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DTD

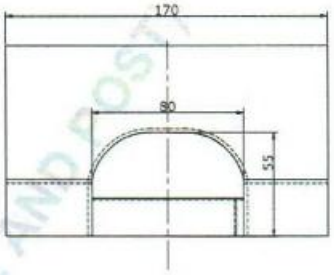
Le HW Issued Under (ADP) 33 PRE AND POST

TECHNICAL DRAWING

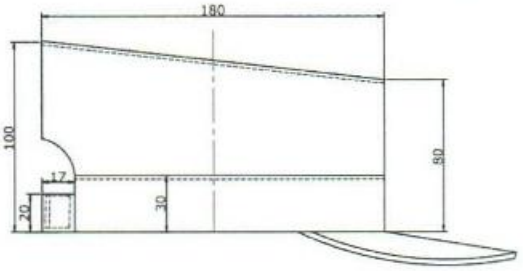
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



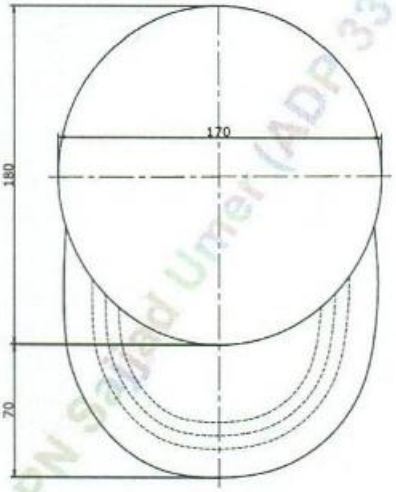
FRONT VIEW



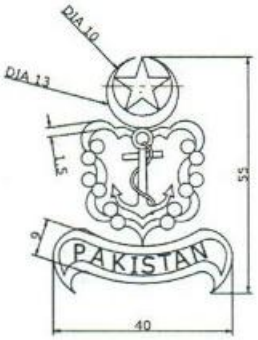
BACK VIEW



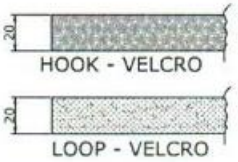
SIDE VIEW



FRONT VIEW



ANCHOR



1747

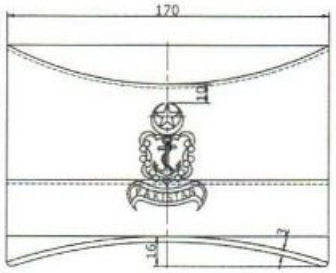
ITD WING		
TITLE: JOCKEY CAP FLAT TOP (LT CDR & BELOW)		
DWG.NO. TD-2939/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DID

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

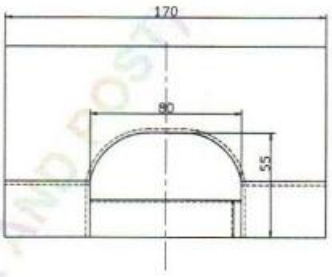
Lt PN Stocked Under (ADP 33 PRE AND POST)

TECHNICAL DRAWING

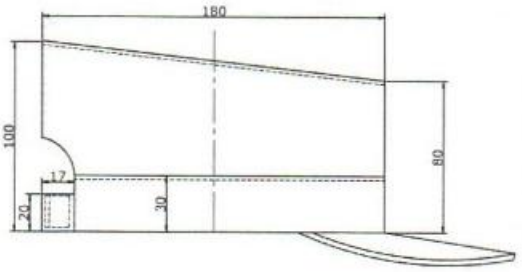
ANNEX "D" TO
PN SPECIFICATION NO. 05/2026
PROMULGATION DATE: 24 FEB 2026



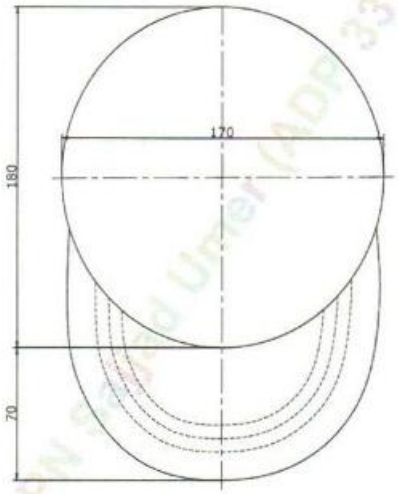
FRONT VIEW



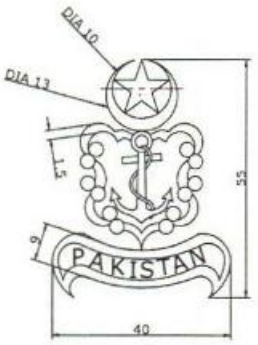
BACK VIEW



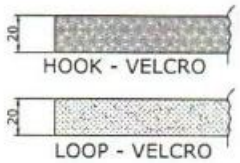
SIDE VIEW



FRONT VIEW



ANCHOR



1748

NOTE:
FOR FURTHER DETAILS SEE STOCK SAMPLE

ITD WING		
TITLE: JOCKEY CAP FLAT TOP (CPO's & SAILORS)		
DWG.NO. TD-2940/2026	DIMENSIONS: mm	
DATE: 24-02-2026	SCALE: NTS	
REVISION NO. --	REVISION DATE: -- -- --	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
HDM M. ASGHAR I/c DWG.	LT CDR SANA KANWAL DD TECH TEX	CAPTAIN PN RAO MUZAFFAR ALI DED

LT PN Stand Under (ADF 33 PRE AND POST

ANNEX E TO
PN SPECIFICATION NO 05/2026
PROMULGATION DATE 24 FEB 26

COMMON DEFECTS

S.No	Defects	Definition
	FABRIC	
a.	**Abrasion Mark (bruise, Chafe Mark or rub)**	An area of fabric damaged by friction Damaged due to a braded or uneven surface in a machine.
b.	**Baggy or wavy cloth**	Cloth that will not lie flat on a Cutting Table Tight or loose yarn either in warp or filling (weft).
c.	**Barré Mark**	An unintentional, repetitive visual pattern of continuous bars and stripes usually parallel to the filling of woven fabric. Barré can be caused by physical, optical, or dye differences in the yarns, geometric differences in the fabric structure, or by any combination of these differences.
d.	**Blotch**	An off colored area of any shape caused by grease or Oil. (Syn. oil spot).Cause due to leakage/ slippage from machine.
e.	**Bow**	A fabric condition resulting when filling yarns are displaced from a line perpendicular to the selvages and form one or more arcs across the width of fabric.
f.	**Broken filament**	In multifilament yarn, breaks in one or more filaments.
g.	**Clip mark**	An open place causing a streak of variable length approximately parallel of the length of width.
h.	**Decanting Mark**	A crease marks or impression extending across the cloth near the beginning or end of a piece due to the thickness of the fabric leader seam.
j.	**Double Pick**	In woven fabrics, two picks wrongly place in the same place.
k.	**Draw Back**	A weave distortion characterized by tight and stack places in the same warp yarn.
l.	**End out**	A void caused by a missing warp yarn.
m.	**Float**	In woven fabrics, the portion of a warp or filling yarn that extends unbound over two or more warp of filling yarns.
n.	**Filling Band**	In woven fabrics, visual defect across the width due to a change occurring in the yarn for a large number of picks.
p.	**Frosting**	A change in color in a limited area of fabric cause by abrasive wear.

q.	**Hole**	In fabric, imperfection, wear one or more yarn or sufficiently damaged to create an aperture.
r.	**Fuzzy**	Characterized by a hair appearance due to protruding broken fibers or filaments.
s.	**Let-off Mark**	In woven fabrics, a corrugated defect pattern distributed across the fabric width.
t.	**Loom fly**	Waste fibers create during weaving that are woven into a fabric.
u.	**Loop Salvage**	An improperly woven salvage of uneven width or a salvage containing irregular filling loops extending beyond the outside edges.
v.	**Messiness**	Surface distortion in a fabric characterized by objectionable unevenness due to many minor deformations.
w.	**Pin Hole**	In fabric, a very small hole, approximately the size of the a cross section of the pin.
x.	**Pin Mark**	A series of holes near the edge parallel with the lengthwise direction of a fabric caused by the holding device on the pin tender frame.
y.	**Reed Mark**	In woven fabric, a creak between groups of ends, either continues or at intervals.
z.	**Scalloped Salvage**	An abrupt, narrow indentation in the salvage.
aa.	**Salvage Mark**	In finished cloth, a lengthwise crease mark along the salvage caused by an edge being folded or doubled.
ab.	**Shiner**	A streak, usually short, caused of a lustrous section of filament yarn.
ac.	**Smash**	In woven fabrics, relatively large hole characterized by broken warn ends and floating picks.
ad.	**Skew**	A fabric condition resulting when filling yarns are angularly displace from a line perpendicular to the edge or side of the fabric.
ae.	**Snag**	In fabrics, a yarn or part of a yarn pulled or plucked from the surface.
af.	**Thin Place**	In fabric, appearance characterized by a small area of loosely placed yarn or by a congregation of thin yarn as compared to the adjacent construction.
ag.	**Tight Salvage**	In woven fabrics, salvage yarn shorter than warp yarn in the body of the fabric.
ah.	**Streak**	An extended unintentionally strips narrow width, often a single yarn.
aj.	**Tram Mage**	In woven crepes, a puckered area in which a filling yarn has twist running in the same direction for several picks instead of alternating S and Z twist.
ak.	**Temple Mark**	In woven fabrics, small holes or distortions adjacent to the salvage.

al.	**Tender Mark**	A visible deformation on the side edge or body of a fabric due to pressure for clips or pins.
am.	**Shaded Parts**	Any garment portion puckered, twisted, or pleated at joining seam. Quality of any part not as per specification. Any part shaded or any shade bar. Any panel mismatch with other panels
an.	**Color**	Color of embroidery or fabric fades out, not as per specification. Color of any part not as per specification.
ap.	**Cleanliness**	Any slub, spot, or stain on outer side. Threads ends not trimmed or loose threads ends not removed (to be scored only when condition exists on major portion of Jockey Cap). Any identification stamping visible on outer side. Poor Workmanship.
aq.	**Seams and Stitching**	Velcro stitched poorly. Any twisted, puckered, or pleated. Stitching tension tight resulting in breakage of stitches when normal pull is applied. Poor embroidery on eyelets and Pak Navy logo.
ar.	**Packing and Marking**	Sample are not packed and marked as mentioned in the specification. Poor marking and packing. Identification label and care label not provided

Lt PN Sajjad Umer (ADP 33 PRE/AN)

ANNEX F TO
PN SPECIFICATION NO 05/2026
PROMULGATION DATE 24 FEB 26

ACCEPTABLE QUALITY LEVELS (AQLs)

1. Acceptable Quality Level (AQL) is maximum average defective items in a lot or limit / percentage of defective items in product /offered store. It is expressed in a percentage. Number of average defective items is determined by following formula:

$$\text{Average defective item} = \frac{\text{No.of defective item found during inspection}}{\text{Total no.of item to be inspected}} \times 100$$

2. AQL process: it is used for inspection of finished product / garment by the QC professionals. AQL standard is depend on the quality of the product to be inspected, random sampling, and experience of inspector. Normally lower figure AQL standard e.g. 01% is used for high quality products/ narrow width fabric and high figure AQL standard e.g. 10% for low quality product/ garment. AQL standard 2.5% means that allowable limit of defective item is 2.5 % of total items inspected .Usually AQL 2.5% is used for major defects, AQL 4.0 % is used for minor defects and AQL 6.5% is used for slight defects, however zero acceptance for critical defects Allowable limit of Major defects are less than minor defects and it depends upon nature of item /offered store. It can be less than 01% or greater than 10%. .Following AQL table is used to determine lot size/ offered store quantity, least No. of sample to be inspected, AQL %, and acceptance & rejection points:

SINGLE SAMPLING PLAN FOR NORMAL INSPECTION OR AS PER ORDER OF INSPECTING OFFICER											
Lot size	**Least No. of sample to be Inspected**	**Allowable Quality levels(AQL) %** • **Acceptable/ Allowable defective sample (Ac)** • **Rejected /Exceed allowable limit of defective item (Re)**									
		1.5%		**2.5%**		**04%**		**6.5%**		**10%**	
		Ac	**Re**	**Ac**	**Re**	**Ac**	**Re**	**Ac**	**Re**	**Ac**	**Re**
281-500	20-80	1-3	2-4	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15
501-1200	32-125	1-5	2-6	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22
1201-3200	50-200	2-7	3-8	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22
3201-10000	80-315	3-10	4-11	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22
10001-35000	125-500	5-14	6-15	7-21	8-22	10-21	11-22	14-21	15-22	21	22

35001-150000	200-800	7-21	8-22	10-21	11-22	14-21	15-22	21	22	21	22
150001-500000	315-1250	10-21	11-22	14-21	15-22	21	22	21	22	21	22
500001-above	500-2000	14-21	15-22	21	22	21	22	21	22	21	22

3. If the inspector have time constrain then AQL is beneficial/ helpful in inspection of whole lot/ offered store. It safe time, cost and give effective/ statistical result of product /offered store **e.g.** If inspector needs 5 minutes to check the item , the quantity to be inspected is 2,500 items then it took 208 hours to check the whole consignment/ offered store.it means 26 days approx. for one store. Calculation is as follows:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}500\ items = 208.33\ hrs \cong 26\ days$$

After Implementing AQL standard so the sample taken from the lot/ offered store is 200 items/ sample:

$$\frac{5\ \text{min} \times 1\ hr}{1\ item\ \times 60\ min} \times 2{,}00\ items = 16.66\ hrs \cong 02\ days$$

4. Quality parameters/ AQL limits may be defined by Inspecting Authority (if deemed appropriate) and communicate to the manufacturer, so the manufacturer set their quality levels (AQL limits) accordingly for their internal audit. Therefore, good quality product is ready for inspection.

Lt PN Sajjad Umer (ADP 33 PRO)

GENERAL TERMS AND CONDITIONS – JOCKEY CAP FLAT TOP FOR CAMOUFLAGE DRESS

S NO	GENERAL REQUIREMENTS, TERMS/ CONDITIONS
1.	PENALTY a. The Supplier before making the shipment shall carry out complete test of the equipment at its facilities to ensure that the same has been manufactured as per specifications. In case the equipment does not pass the test/ trials, Purchaser has the right to outright reject the equipment or impose penalty at the rate of 10- 15% of the value of the relevant equipment/ items. b. The penalty shall not absolve the Supplier to undertake the repairs in Pakistan or abroad at his cost and expense including freight charges. This shall be in addition to the penalties and obligations covered in the contract like warranty/ guarantee obligations on Form DPL-15.
2.	SCOPE OF SUPPLY/ WORK a. The Supplier undertakes to deliver equipment/goods/stores including Supplies and Services to the Purchaser on FOR/ FOB Karachi basis as per INCOTERMS 2020 as per details specified in Annex-A (Technical Specifications) and General Terms and Conditions given at Annex-B to this Indent. b. The Supplier shall, in accordance with the terms and conditions as set forth in the Indent, with due care and diligence, provide the equipment/goods/stores and supply the Services within the date(s) specified in the Project Time Schedule.
3.	CONTRACT COMPLETION CERTIFICATES Upon completion of all contractual obligations under this Contract, the Supplier shall submit a "No Demand Certificate" to the Purchaser stating that no stores/ goods, Supplies, Services and payments are outstanding. Concurrently, the Purchaser shall certify through a "No Objection Certificate" that the requirement placed by the Purchaser as per terms and conditions set forth in this Contract has been fulfilled. Specimen of Contract Completion Certificate/ No Demand Certificate shall be added in the contract prior contract signing. Upon receipt of both certificates, Bank Guarantee(s) shall be returned by CMA(DP) to the Purchaser for onward return to the Supplier.
4.	LIABILITY The supplier shall not be liable under any circumstances to the buyer, its officers, agent, employees, successors and / or assignees, for any special, consequential and / or incidental damage of whatsoever kind or nature, including, without limitation, any loss, cost, damage loss of revenue or profit or loss of user, incurred or suffered by the buyer or any third party arising out of or in connection with this contract. The foregoing shall not affect buyers right to claim compensation against the supplier for damages suffered by the buyer arising directly from the performance, bad performance or non-performance of the suppliers duties and/ or obligations under the contract provided however that the aggregate liability of the suppliers in connection with this contract for any cause whatsoever including indemnity and risk purchase, shall not exceed hundred percent (100%) of the total price actually paid to the supplier under this contract.
5.	REPEAT ORDER Supplier shall not increase the cost of stores if additional quantity of same item is purchased in next 12 months after commissioning of the equipment. He may however decrease the cost by considering lower market trend.
6.	TENDER SAMPLE 03 x Samples may be provided as per PN Specifications clause-0112 (Tender Sample). Lab Testing Report w.r.t. PN Specification is required for TSR. If considered appropriate, tender samples will also be tested through renowned Lab. Lab testing charges are to be borne by the supplier and same

	has to be paid by the supplier prior finalization of TSR.
7.	TECHNICAL SCRUTINY Technical scrutiny of quotations forwarded by the bidder shall be carried out by a committee nominated by CO PNCSD as per instructions of NHQs. The TSR committee may ask the Suppliers to demonstrate their equipment or give a presentation for clarification. TSR committee may also visit the OEM premises at the invitation/expense of the Supplier to evaluate the manufacturing/system's capabilities of the OEM.
8.	SPECIAL INSTRUCTIONS a. Contracted firm will be responsible for proper disposal of rejected clothing stores. Same are to be amended/ destroyed under supervision of PN authorities to prevent their misuse by terrorists/anti-social elements. b. In case a supplier intends to sale rejected uniform items in local market, the procurement agency will be approached for approval of sample after suitable alteration of military appearance into civilian fashion. After approval, CINS will inspect the bulk stores once again clear the lot for disposal in local market. c. The contractor/supplier shall submit a certificate/undertaking on firm's letter pad that the firm will be held responsible for any misuse of rejected uniforms. d. In case firm is unable to get approval of advance sample after 6 months from date of contract cancellation should be recommended by CINS or CSD. e. Marking of stores in accordance with specification NS/MISC/002/80. f. Firm will give two weeks clear notice for Inspection. g. Free delivery to consignee warehouse. h. As per NHQ instructions promulgated vide letter ST-P/9314/INS/04 dated 05 April 2006, Rejection of stores supplied by contractors will be dealt as under: (i) 1st rejection of govt expense. (ii) 2nd rejection on supplier's expense. (iii) On 3rd rejection, contract cancellation be recommended by CINS or CSD. j. Barcode sticker to be attached on each plastic packet containing Cap Flat Top. k. The purchaser will have the flexibility to extend the contract up to 03 Months and also can order 15% excess of the total contracted quantity from the supplying firm at the contracted price. l. Purchaser is not bound to lift entire quantity of contract. m. PACKING As per PN Specifications, 10 x Jockey Cap Flat Top shall be packed in neat, dry and clean condition in standard polythene packing and further 30 x such bundles (300 x caps) shall be packed in double wall corrugated cardboard box (07 Ply). Moreover, delivery challan no. and date shall also be mentioned on each double wall corrugated cardboard box.
9	CHECKING OF SUPPLIES/ STORES AT CONSIGNEE'S END Upon arrival, Supplies shall be checked at consignee's end in the presence of the Purchaser and Supplier's representatives. If for the reasons of economy, or any other reason, the Supplier decides not to nominate his representative for such checking; an advance written notice to this effect shall be given by the Supplier to the consignee prior to or immediately on shipment of stores. In such an event, the Supplier shall clearly undertake that the decision of consignee with regard to quantities and description of the consignment shall be taken, as final and any discrepancy found shall be accordingly made up by the Supplier. In all other cases, the consignee shall inform the Supplier about arrival of consignment immediately on receipt of stores through fax. If no response from the

	Supplier is received within four (04) working days from initiation of letter through fax, the consignee shall have the right to proceed with the checking without Supplier's representative. Consignee's report on checking of stores shall be binding on the Supplier in such cases.
9.	INDEMNITY In the framework of the implementation of this project, both Parties shall waive off any claim against each other regarding every claim for indemnity for the losses caused to their respective personnel or respective personnel of subcontractors/agents and their properties. However, if these losses result from deliberate fault or unmistakable error or gross negligence of Supplier or his sub-contractors/agents and/or the Purchaser, the Party involved shall bear alone the burden of the damage repairs.
10.	OWNERSHIP OF CONTRACT In the event of a change of ownership of Supplier, the Supplier shall ensure that the legal instrument or mode by which the change of ownership takes place shall have specified provisions to the effect that: a. Such change of ownership shall not in any way change, alter or modify the Terms and Conditions of this Contract, and b. The Supplier under new ownership shall continue to be bound by the Terms and Conditions of this Contract.
11.	INCLUSION OF INSTRUCTIONS REGARDING DISPOSAL OF REJECTED UNIFORMS a. Contracted firm will be responsible for disposal of rejected clothing stores. Same are to be amended/ destroyed under supervision of PN Authorities to prevent their misuse by terrorists (anti-social elements). b. In case a supplier intents to sale rejected uniform items in local market, the Procurement Agency will be approached for approval of sample after suitable alteration of Military appearance into civilian fashion. After approval, CINS will inspect the bulk stores once again clear the lot for disposal in local market. c. The contractor/ Supplier shall submit a certificate/ undertaking on firm’s letter pad that the firm will be held responsible for any misuse of rejected uniforms.

TENDER NO R2611330386

NAME OF THE FIRM……
DGDP REGISTRATION NO……..
ADDRESS……
TELEPHONE NO. ……
OFFICIAL E-MAIL……..
FAX NO ……
MOBILE NO ……...

TO:

THE DIRECTOR OF PROCUREMENT
(SECTION P-33)
Through Bahria Gate
Near SNIDS Centre,
Naval Residential Complex, E-8,
Islamabad
Contact: Reception: 051-20062074
Bahria Gate: 0331-5540649
Section: 051-9262314
Email: dpn@paknavy.gov.pk
adpn33@paknavy.gov.pk

DEAR SIR

DATE_____

1. I/WE HEREBY OFFER TO SUPPLY TO THE DIRECTOR OF PROCUREMENT (NAVY) THE STORES DETAILED IN SCHEDULE TO THE TENDER INQUIRY OR SUCH PORTION THEREOF AS YOU MAY SPECIFY IN THE ACCEPTANCE OF TENDER AT THE PRICES OFFERED AGAINST THE SAID SCHEDULE AND FURTHER AGREE THAT THIS OFFER WILL REMAIN VALID UP TO **120 DAYS** AND WILL NOT BE WITHDRAWN OR ALTERED IN TERMS OF RATES QUOTED AND THE CONDITIONS ALREADY STATED THEREIN OR ON BEFORE THIS DATE. I/WE SHALL BE BOUND BY A COMMUNICATION OF ACCEPTANCE TO BE DISPATCHED WITHIN THE PRESCRIBED TIME.

2. I/WE HAVE UNDERSTOOD THE INSTRUCTIONS TO TENDERS AND GENERAL CONDITIONS GOVERNING CONTRACT IN FORM NO. DP-35 (REVISED 2002) INCLUDED IN THE PAMPHLET ENTITLED, GOVERNMENT OF PAKISTAN, MINISTRY OF DEFENCE (DIRECTORATE GENERAL DEFENCE PURCHASE) "GENERAL CONDITIONS GOVERNING CONTRACTS" AND HAVE THOROUGHLY EXAMINED THE SPECIFICATIONS/DRAWINGS AND/ OR PATTERNS QUOTED IN THE SCHEDULE HERETO AND AM/ARE FULLY AWARE OF THE NATURE OF THE STORES REQUIRED AND MY/OUR OFFER IS TO SUPPLY STORES STRICTLY IN ACCORDANCE WITH THE REQUIREMENTS.

3. THE FOLLOWING PAGES HAVE BEEN ADDED TO AND FORM PART OF THIS TENDER:

A. ……
B. ……
C. ……..

YOURS FAITHFULLY,
……
(SIGNATURE OF TENDERER)
……
(CAPACITY IN WHICH SIGNING)
ADDRESS:……..
DATE……
SIGNATURE OF WITNESS……
ADDRESS……..

*INDIVIDUAL SIGNING TENDER AND/OR OTHER DOCUMENTS CONNECTED WITH A CONTRACT MUST SPECIFY:-

(a) WHETHER SIGNING AS "SOLE PROPRIETOR" OF THE FIRM OR HIS ATTORNEY.
(b) WHETHER SIGNING AS A "REGISTERED ACTIVE PARTNER" OF THE FIRM OR HIS ATTORNEY.
(c) WHETHER SIGNING FOR THE FIRM "PER PROCURATION".
(d) IN THE CASE OF COMPANIES AND FIRMS REGISTERED UNDER THE ACT, 1913 AS AMENDED UP-TO-DATE AND UNDER THE PARTNERSHIP ACT 1932, THE CAPACITY IN WHICH SIGNING E.G., THE DIRECTOR, SECRETARY, MANAGER, PARTNER, ETC. OR THEIR ATTORNEY AND PRODUCE COPY OF DOCUMENT EMPOWERING HIM SO TO SIGN, IF CALLED UPON TO DO SO.
(e) Principal's Proforma invoice (in original)
(f) Earnest money
(g) Treasury Challan Form for tender Fees as applicable