

UT Administration of Daman & Diu
Office of the Dy. Superintendent of Police, (HQ)
Police Head Quarter, Dunetha
Daman - 396 210
(Police Department)

No. 917 /DSPHQ/DMN/GNL/Bullet Proof Jackets/2017/
792963

Dated: - 24/06/17

TENDER NOTICE

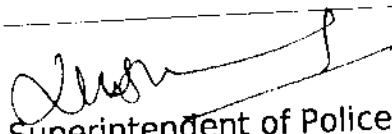
Sealed Tender(s) are hereby invites on behalf of the President of India from Original Equipment Manufacturers (OEM) or their Authorized Agent for purchase of 10 Nos **Bullet Proof Jackets** by Police Department of Daman & Diu at Police Head Quarters, Dunetha, and Daman. Tender methodology proposed to be adopted by the Police Department of Daman & Diu will be "TWO Bid systems" i.e. **Technical Bid and Commercial Bid** with Technical bid containing prequalification as per rule No. 163 of GFR - 2017.

Name of items along with detail technical Specifications, probable requirements against each item may be seen from the website of the Daman & Diu Police i.e. <http://ddpolice.gov.in> and on website of UT Administration of Daman & Diu i.e. <http://daman.nic.in>. The quantity may vary during indent of the items depending upon budgetary allocation.

Sr. No.	Name of Work	EMD in form of FDR (Earnest Money Deposit)	Tender Fees (Non-Refundable)	Approximate Estimated Cost
1	Procurement of Bullet Proof Jackets	₹.10000/- (Ten Thousand only) in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks	₹ 500/- (Five Hundred) in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks	₹ 450000/- (Four Lakhs Fifty Thousand Only)
3	Last date for submission of tender along with tender fee EMD other relevant document of Technical and Financial Bid.		20 July, 2017	
5	Last date for seeking clarification		15 July, 2017	
6	Bid Validity		180 Days	
7	Opening of Technical Bid: -		24 July, 2017	
8	Price/Commercial Bids: - The Price/Commercial Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated in due course to technically short listed/qualified bidders at their email addresses or telephonically.			
9	Address for submission of Tender/ Bids		O/o The Superintendent of Police, (HQ) Police Head Quarters, Airport road,	

- 10 ❖ The tender complete in all respect consisting of tender fees and EMD in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks drawn in favor of DIGP, Daman & Diu.
- ❖ valid copy of Sales Tax, and Central Sale Tax registration number with certificate of manufacturer/ supplier,
 - ❖ Copy of PAN Card,
 - ❖ Details of completed similar type of work in three years,
 - ❖ Duly signed Tender Form, Agreement Form, Schedule and Terms & Condition
 - ❖ These documents are **mandatory document** and required to be send through RPAD/Speed Post / Courier or in person and shall be kept in the technical Bid cover and shall reach to the office of the Dy. Superintendent of Police, Daman as mentioned above in column No. 9.
 - ❖ However, tender inviting authority shall not be responsible for any postal delay.
- 11 The Purchase Committee reserves the right to accept/ reject any or all or part tenders without assigning any reasons thereof.
- 12 The Technical Bid shall contain technical specifications; EMD, Tender fee and other relevant documents mentioned in above at Sr. 10 and kept in an envelope duly super scribed as "**Technical Bid**" for **Bullet Proof Jackets**. "The **Technical Bid** should be sealed and super scribed with Name of the work & tender notice no, and due date. The bidders may submit bids duly signed in their own letterheads
- 13 The "Technical" bids shall be opened and scrutinized by the Purchase Committee, only in respect of the bidders who have been found to fulfill all the prescribed criteria and conditions of this tender document other than technical specifications of the products. Only branded products shall be accepted unless otherwise mentioned in conditions of the contract.
- 14 Bidders have to submit the **Commercial / Price Bid** in a separate cover duly super scribed as "**Commercial / Price Bid**" for **Bullet Proof Jackets** within prescribed date & time. *Price bid in technical bid will not be accepted in any case and will be grossly rejected the bid.*
- 15 The **Commercial / Price Bid** shall be opened of those Vendor/Manufacturer/ Authorized Dealers/ Suppliers/firm/Agencies who qualify in technical bid during the preliminary checking about submission of Tender fee, E.M.D and other relevant mandatory document their technical bid.
- 16 The offers received without mandatory documents, without EMD and

- tender fee will be rejected.
- 17 The original Tender fees (non Refundable) and original EMD in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks only should be posted/couriered/given in person along with technical bid cover along with the above mandatory documents within due date.
- 18 Both envelopes i.e. Price/commercial Bid and Technical Bid shall be put in a one envelope with above direction.
- 19 The Tenders received after the stipulated date will not be taken into consideration and liable for rejection.


Dy. Superintendent of Police, (HQ)
Police Head Quarters,
Daman.

Copy to:-

1. The District Informatics Officer (NIC) Daman for Publishing on <http://daman.nic.in> website.
2. All Head of Office, Daman (U.T.) for wide publicity
3. Copy to all Firms/ agencies/ manufactures for information and necessary action.
4. Daman Police website <http://ddpolice.gov.in> for Publishing on the website, please

Annexure - A

CHECK LIST
Other information for Bidder

CHAPTER 1 Rule 168 of GFR – 2017

All the participating firms/companies are requested to attach/send self attested legible documentary proof of the following documents with their bid. In the absence of any of the following documents, the bid will be disqualified/rejected straightway without any further clarification:-

Sl No	Description	Yes/No
1.	E.M.D. of ₹. 10000/- in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks IN FAVOUR OF DIGP/DD, DAMAN. (Rule - 170 of GFR 2017)	
2.	Tender form of ₹. 500/- in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks IN FAVOUR OF DIGP/DD, DAMAN.	
3.	Only sales tax/VAT payee agencies are eligible to fill this Tender. Have the firm attached registration certificate? Clause No. 08 of Terms & Condition of Contract	
4.	Undertaking for non-blacklisting of firm and non-registration of criminal case, as per Clause No.09 has been attached or not?	
5.	The legible copy of latest/current receipt for depositing Sales Tax/VAT Return to Sales Tax/VAT department in the language of English/Hindi must be attached with Tenders have attached or not? Clause No. 10 of Terms & Condition of Contract	
6.	Undertaking for Guarantee/Warranty of Tender items for at six months as per Clause No.27 has been attached or not?	
7.	The bidder should submit details of certificate, indicating his past experience in the execution of similar types of works with govt. or private agencies, whether attached or not. Clause No. 36	
8.	Undertaking to the effect that product(s) offered by the firm is/are as per technical specifications of the Tender as per Clause No.38.	
9.	Whether the firm submitted annexure "E" Tender Acceptance Letter along with the bid or not?	
10.	Have the Firm attach the legible copy of valid Registration Certificate with DGS&D/NSIC/MSME, if claim for EMD exemption with the bid. Clause No. 55 of Terms & Condition of Contract.	
11.	Attached terms and conditions Annexure "B" & "C" duly signed with seal of the company/firm/agency, in token of acceptance of terms and conditions attached or not?	
12.	Copy of PAN Card	
13.	Details of Aadhar Card No.	
14.	Bank details as follows	
	Name of the Bank/ Branch	
	Account No. of Bidder	
	Type of Account	
	IF SC Code of the Bank	
	MICR Code of the Bank	

Signature of the bidder
With seal

ANNEXURE - B

UT Administration of Daman & Diu
Office of the Dy. Superintendent of Police, (HQ)
Police Head Quarter, Dunetha
Daman - 396 210
(Police Department)

General Terms and conditions
CHAPTER 2 of Rule 168 of GFR - 2017

(These terms and conditions are generic in nature, which have been mentioned for the knowledge of the bidders and bidders are advised to read carefully before submitting their bid(s))

No. 817 /DSPHQ/DMN/GNL/Bullet Proof Jackets/2017/ 792963 Dated: - 24/06/17

1. The bidder/Supplier shall essentially be, a) An Original Equipment Manufacturer or b) An Authorized Agent of the OEM having running business in the tendered item with good business track record. The bidder in proof of he being an OEM / authorized Agent shall submit authenticated documentary evidence in this regard. The proof submitted earlier in some other context shall not be treated as valid and sufficient.
2. The tenders (also called bids), not submitted in prescribed format or in the prescribed manner, shall be rejected by the Purchase Committee at the risk and responsibility of the bidder.
3. All the crucial figures, like rates and amount should be written in figures followed by words in a bracket. There shall be no over-writing in the tender document and other papers submitted. All the additions, alterations, deletions and cuttings should be initialed with rubber stamp (or seal) by the same person, who signs the tender document failing so, the tender may be rejected.
4. All the rates and amounts shall be quoted in Indian Rupees (IR) and shall be presumed to be in Indian Rupees unless specifically permitted to be quoted otherwise in this tender document. However an OEM located outside the country may quote its price in the Currency of the country to which he belongs but the same shall be converted to INR at the exchange rate prevailing on the date of opening of Tender and the same will be binding on both parties.
5. Each page of this tender document should be signed by the bidder with seal in token of having read, understood and accepted the terms and conditions of this contract.
6. All the promotional and technical literature of the products intended to be supplied should be submitted for proper appreciation of the bid, whether or not: specifically called for in this tender document. This literature

7. All the information submitted or supplied in the formats of this tender document shall be presumed to be true to the best of the knowledge of the bidder.
8. The firm/Company without valid Value Added Tax Registration number and PAN shall be eligible for submitting bids.
9. The firms participating in this tender shall also submit duly sworn affidavit to the effect that this firm has not been blacklisted / debarred by any Government or Semi Government or private agency and no sister company of this firm is participating in this tender.
10. Copies of Valid Registration Certificates issued by competent Authorities under VAT and CST Acts and Copy of PAN shall be enclosed to the Tender document. In no case other certificates issued by authorities in lieu of such certificates shall be accepted.
11. At the time of opening of Tender/Financial bid the bidder will have to satisfy the competent authority that he is not only authorized as per his Registration Certificates to deal in the tendered item but he has also a running business in such items and he has the ability to supply the tendered quantity in prescribed time limit and to meet the warranty conditions of the product.
12. If the last date for receipt of the tender/bid turns out to be a holiday, it will automatically be extended to next working day.
13. A bid submitted cannot be withdrawn, in any case.
14. The Tenders/bids received in the prescribed time shall be opened by the purchase committee at the prescribed date time and place. Any bid found incorrect or incomplete in any manner would be summarily rejected by the said committee.
15. All the products, failing to fulfill the prescribed technical specifications, shall be rejected. Decision of the Purchase Committee in this respect shall be final and binding.
16. *The bidder shall have to submit in separate paper mentioning complied or not complied against each column of the technical specification given in the tender document.*
17. The commercial /price bid shall include all levies/ taxes like Service tax, VAT, Sales Tax, Transportation, Customs, Excise, traveling charges, support service during warranty etc. All other Taxes/Duties/Royalties charges payable on the Sale/Transport etc. within and/or outside the State/UT, of Supplier shall be payable by the supplier. No extra charges for packaging, forwarding and insurance etc. will be paid on the rates quoted in the commercial /price bid.
18. All the prices quoted shall be F.O.R., destination i.e. Daman Police Head Quarters which means that prices shall include the cost of delivery at destination.

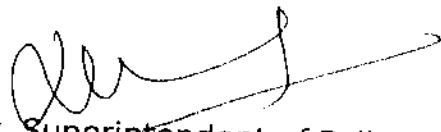
19. The authorities are not bound to accept the lowest financial bid.
 20. The Purchase Committee of Police Department, reserves the right to accept or reject any Bid, or all Bids at any time prior to placing of purchase order without informing any reason/ ground(s).
 21. The Purchase Committee of Police Department may, at its sole discretion, waive any minor infirmity, nonconformity in a Bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.
 22. The Bidder is expected to examine all instructions, forms, terms and specification in the Bidding document. Failure to furnish all required information may result in the rejection of its Bid.
 23. On delivery, the supplies or products shall be inspected to verify the quantity and to see whether those are in accordance with the technical specifications (or quality requirements) for which the order was placed. If it turns out to be otherwise, the acceptance of delivery shall be refused at the risk and responsibility of the supplier. Further the articles found damaged shall not be counted as accepted until repaired or replaced to the satisfaction of the authorities.
 24. The bid should be quoted only for the items specified in the schedule list of requirements and should be for the **Bullet Proof Jackets** of given specifications confirm to the standard(s) requirements of the given specification/mark.
 25. Rates quoted for items other than required technical specifications/mark mentioned in the schedule, will not be considered. However indigenous manufacturers may quote their own makes provided that the technical specification confirmed to the standard(s)/requirement(s) of the given specification / mark.
 26. Where this office does not specify name of the company/mark and rate should be quoted only for the first class and standard quality.
 27. The supplied Bullet Proof Jackets should be supported for a minimum period of *one year warranty period*. Providing of warranty will be sole responsibility of the successful Bidder's.
 28. All participating bidder(s) should send in advance or enclose Earnest Money Deposit along-with bid/tender for an amount of ₹ 10000/- by drawing a Fixed Deposit Receipt (FDR) on any scheduled Bank, in favour of DIGP, DD, Daman. Tender fee for an amount of ₹ 500/- along-with bid/tender in form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Banks, in favor of DIGP, DD, Daman. *Tenders received without Earnest Money Deposit and Tender fee will be summarily rejected.*
- successful bidder will have to furnish an unconditional

- value. The performance guarantee to be submitted within 15 days after acceptance of supply order.
35. The amount of Performance Guarantee / Earnest Money deposits will be refunded after expiry of guarantee period if any, or any such date / period as may be mutually agreed upon.
 36. The E.M.D. Deposited by the bidder(s) will be returned to bidder(s), whose tender are not accepted.
 37. EMD of the successful bidders shall be retained till the supplies are successfully delivered as per order or adjusted against "Performance Security" (defined on condition No. 21 of conditions of the Contract) as per conditions of performance security agreement.
 38. The Earnest Money Deposits paid by the bidder against any other tender(s) is/are not adjustable with this tender.
 39. No interest will be payable on the EMD. The EMD shall also stand forfeited in the event of premature withdrawal of the tender(s) by any of the bidder(s).
 40. The Purchase Committee will consider extension of the time for remitting the Performance Security Deposit as demanded. However, in case of denial to consider such extension, the successful bidder is bound and abides by the limit given.
 41. The bidder must submit details of certificate, indicating his past experience in the execution of similar types of works with govt. or private agencies.
 42. **Bullet Proof Jackets** shall be supplied in a ready to use condition.
 43. The **Bullet Proof Jackets** supplied should strictly conform and exactly as per the technical specifications mentioned in the schedule and shall also confirm to the given specifications.
 44. The supplies of **Bullet Proof Jackets** of different technical specifications or size or specified or incomplete or damaged **Bullet Proof Jackets** will not be accepted.
 45. The supplier/ bidder will have to verify all the **Bullet Proof Jackets** within one week from the date of delivery in the presence of Police officials at Police Head Quarters, Daman.
 46. The supplier/ bidder will have to replace the same at his own cost and risk on intimation of non-acceptance of any **Bullet Proof Jackets**, then the goods will be sent to the supplier/ bidder within two weeks from the date of receipt in the stores and the same will have to be taken back by the suppliers at his own risk and cost.
 47. In case, failure to replace the unaccepted & rejected articles from supplies made by supplier/ bidder, as mentioned in the conditions, the loss undergone by the government will be recovered from the supplier's/ bidder's Performance Security Deposit / Earnest Money or

- payment due of any bill(s) to the extent required.
- 43 Short/ Part deliveries may not be accepted. All the items ordered must be supplied in full, for claiming even the part payment.
- 44 User manuals of the product shall be supplied without being asked for and without being mentioned in the supply order. Moreover, it should be in English.
- 45 Failure to supply the indent in full within the stipulated period as mentioned in the supply order may lead to forfeiture of EMD / Performance Security and blacklisting of the suppliers. If at all the delivery is allowed to be accepted after the due date, Liquidated Damages(LD) @ 0.5% of the total amount of order (excluding taxes) per week or part thereof shall be charged, however that the L.D. shall not exceed 5% of the amount of order
- 46 In case of failure to supply of **Bullet Proof Jackets** ordered for, as per conditions and within the stipulated time period i.e 03 weeks, the same articles will be obtained, if required, from the bidder who has offered next higher rates (L2) or from any other source, as may be decided by the Purchase Committee and loss to Government on account of such purchase(s) shall be recovered from the former (L1) bidder's Performance Security Deposit / Earnest Money or bills payable. Such former (L1) bidder's shall have no any right to dispute with such procedure.
- 47 Extension of time limit for supplies may be considered by the Purchase Committee Daman provided that such request made well in time depending upon the circumstances and his decision in the matter will be final.
- 48 If any time after the order for supply of **Bullet Proof Jackets**, Purchase Committee shall for any reason what so ever not required the whole or part of the quantity where or has specified in the order the Purchase Committee, Daman shall give notice in writing of the facts to suppliers, who shall have no claim to any payment/compensation, what so ever on account of any profit or advantages, with suppliers might have derived in consequence of the full quantity of the articles, not having been purchased nor shall have any claim for compensation by reason of any alteration having been made in the original instructions, which shall involve any curtailment of the supply as originally contemplated.
- 49 All bills should be in triplicate and should invariably be mentioned the number and date of supply order.
- 50 All bills should be pre-receipted on a revenue stamp of proper value. Bills which are not pre-receipted on revenue stamp will not be

certificate on the body of the bill "*Certified*" that the goods on which Sales Tax/VAT/Service tax has been charged have not been exempted under the C.S.T/VAT Act or the rules made there under and the amount charged on account of Sales Tax/VAT on these goods is not more than what is payable under the provision of relevant act of the rules made there under.

52. All the legal matter pertaining to this tender will be handled \ settled in Daman district jurisdiction only.
53. No Separate agreement will be required to be signed by the successful bidder for the purpose of the contract for supply **Bullet Proof Jackets** on the rates mentioned in the **commercial / price bid** by the bidder.
54. If there are any corrigendum/clarifications, this may be obtained from the websites of <http://daman.nic.in>, and <http://ddpolice.gov.in>, or from the tender inviting authority. Bidder should take into account the corrigendum published before submitting the bids.
55. The firms registered with Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization for the item(s) which are to be procured, are exempted from deposition of Earnest Money. They have to attach the legible copy of valid registration document/exemption certificate with the bid


Dy. Superintendent of Police, (HQ)
Police Head Quarters,
Daman.

With Seal Date: - /06/2017

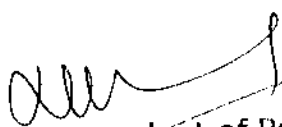
ANNEXURE - C

UT Administration of Daman & Diu
Office of the Superintendent of Police, (HQ)
Police Head Quarter, Dunetha
Daman - 396 210
(Police Department)

Special Terms and conditions
CHAPTER 2 of Rule 168 of GFR - 2017

1. The bidder shall submit documents relating to past experience in similar type of business.
2. The supplier shall repair or replace at his cost any component of the supplies that may go out of order during the warranty period. The repair and replacement shall as far as possible be carried out within the premises, where the equipment has been installed. If, however, it is necessary to take the equipments to the workshop of the supplier, it must be repaired and re-installed successfully in its premises within 48 hours counted from the time service call is placed. Failing so, replacement equipment in working condition shall be supplied till return of the equipment.
3. If an equipment or supply goes out of order within the warranty period and the supplier is informed about it, it must be attended to within 48 hours counted from the time service call is placed.
4. **SAMPLE:** The tenderer are required to submit one sample of BP Jacket along free of cost along with the tender positively, failing which tender will be rejected. This sample will be sent for Ballistic test at Chandigarh or Gandhinagar or any other laboratory as decided by the purchase committee and *testing charges shall be borne by the supplier.* The sample will not be given back to the supplier and one BP Jacket will be randomly choosed from the total supply for sending at Chandigarh or Gandhinagar or any other laboratory for ballistic test.
5. **Testing facility:** Ballistic trials as per the QRs will be at TBRL, Chandigarh or Gandhinagar or any other laboratory as decided by the purchase committee and *expense of the testing shall be borne by the supplier.*

Signature of the bidder


Dy. Superintendent of Police, (HQ)
Police Head Quarters,
Daman.

Date: -


/06/2017.

PROFORMA FOR REQUIREMENT & PRICE SCHEDULE
CHAPTER 3 & CHAPTER 5 of Rule 168 of GFR - 2017
 (Enclose with price bid)

**COMMERCIAL / PRICE SCHEDULE FOR SUPPLY OF BULLET PROOF JACKETS FOR
 THE POLICE DEPARTMENT OF DAMAN AND DIU (U.T.)**

We _____ hereby certify that we are established firm
 M/s. _____ with _____ factories at _____
 _____ are hereby offer to
 supply the following items at the prices indicated below:

Sr No	Technical Specification of	Total No. of Quantity required	Rate per unit	Total Amount
1	Bullet Proof Jackets	10 Nos.		


 Dy. Superintendent of Police, (HQ)
 Police Head Quarters,
 Daman.

It is hereby certified that we have understood all the terms and conditions specified in the tender document and are thoroughly aware of the nature of job required to be done and goods/items to be supplied. We agree to abide by all the tender terms and conditions.

We hereby offer to carry out the job and (or) supply the goods/items detailed above or such portion(s) thereof as you specify in the notification of award.

(Signature and seal of Bidder)

Dated: _____

- Note - Rate shall be inclusive of all taxes and

ANNEXURE - E

TENDER ACCEPTANCE LETTER / CONTRACT FORM - CHAPTER Rule 168 of GFR
- 2017

(To be given on Company/Firms Letter Head)

(Enclose with Bid)

Date: _____

To,

Dy. Superintendent of Police, (HQ)
Police Head Quarters,
Daman.

Sub: Acceptance of Terms & Conditions of Tenders.

Tender Reference No: _____

Name of Tender/Work: - TENDERS FOR PURCHASE OF BULLET PROOF JACKETS
FOR USE IN DAMAN & DIU POLICE

Dear Sir,

1) I/ We have obtained the Tender document(s) for the above mentioned 'Tenders/

Tender/Work' namely: _____
_____ as per your advertisement, given in the above mentioned website(s).

2) I/We hereby certify that I / we have read the entire terms and conditions of the Tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3) The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

4) I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5) In case any provisions of this Tenders are found violated , then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal

TECHNICAL SPECIFICATIONS FOR BULLET PROOF JACKETS

2 BP JACKET - CONSTRUCTION:

- The **Bullet Proof Jacket** shall provide protection to front; back torso and groin, full sides, upper Shoulders, neck and collar. Besides, neck & collar protection, it should not Restrict the vertical movement of the neck of the wearer.
- The **Bullet Proof Jacket** should provide 360 degree all around upper torso body protection.
- The **Bullet Proof Jacket** shall be light weight and comfortable providing optimum mobility and speed.
- The **Bullet Proof Jacket** should ensure snug fit that exactly fits the body contour. It should have hard armour panel flexible enough to follow the body contour thus ensuring that it does not hinder body movement and use of arms.
- Adjustable at the shoulders, waist and groin with appropriate fasteners (Velcro's). An adjustable nylon belt of minimum 10 cm width should be provided with double locking of jacket with Velcro.
- The vendor has to declare the type of materials, number of layers and their aerial density in technical bid of tender and they have to maintain the same in bulk supply.
- SAP should be encased in polyurethane coated materials so as to make it water proof.
- **VELCRO FASTENERS:** All the clothing flaps of the jackets should have high quality Velcro fasteners, so that it can be worn and taken off easily/quickly. The peel and shear strength of the Velcro used shall not be less than 250 Newton/Cm² and 1300 newton/Cm² respectively when tested as per **IS:8156-1994** (The IS:8156-1994 may be available in the office of Bureau of Indian Standards).
- **POCKET WITH FLAPS:** The jacket should be provided with two external pockets in outer carrier to house two magazines of 5.56mm LMG in each pocket. Two pockets should also be provided to accommodate one grenade (HE36) in each pocket. The size of each magazine is 19cm x 7.6cm x 3.5cm and size of HE 36 grenade is 100 mm x 65mm.
- **BELT/KAMARBANDH:** An additional belt of nylon/polyester weaving with minimum width of 10cm should be provided around the waist to properly secure the BP Jackets with the body of the wearer around waist, so that weight of jacket is distributed on waist/shoulders. Kamarbandh should be of same material as outer carrier with Velcro.

- Two pouches (one each on front and rear of outer carrier) should be provided to accommodate two 305 mm x 254 mm Hard Armour plates so that jacket protects vital organs of body.

- Ballistic panels (SAPs & HAPs) shall be removable from outer carrier.

- Outer carrier shall be machine washable.

3. TRAUMA PAD FOR TRAUMA ATTENUATION

- Trauma pad must be provided behind the SAPs, so that it remains to body surface to provide proper cushioning.

- It must cover uniformly up to edge level of the SAPs.

- Trauma pad will be made of "Non-woven 100% polyester synthetic wadding. Placement of trauma pad/additional layer at any other place is not permissible.

- Trauma level should not exceed 25mm in plasticise block at 30+29 degree centigrade temperature of plasticise.

- Drop test will be carried out as specified in NIJ standards

4. MATERIALS

- The outer carrier shall be made of high tenacity, heavy duty, abrasion resistant and 100% vest integrity fabric PU coated Nylon.

- The fabric shall be treated for protection against eater, fire (fire retardant) and ultra violet ray's exposure.

- The fabric must be suitable to wear in the Indian conditions of heat, rain and humidity.

- The inner cover (body side) shall also be of similar fabric and shall be treated for moisture and water repellence.

- The cloth of the carrier must be pre-shrunk before stitching.

- **Note:** The methods of testing criteria for measuring the properties of outer carrier shall be as per IS: 11871-1986, IS: 3417-1979 (reaffirmed 1997) IS: 392-1989 and IS391-1975 and BP Jackets should be UV resistant.

5. SOFT ARMOUR PANEL (SAP)

- SAP shall be able to withstand NIJ threat level III A in respect of the notified weapons Calibre, bullet weight and velocity.

- Shall protect both front and back torsos.

- Shall be made of 100% Polyethylene / Aramid fibre.

- The weight of the Polyethylene / Aramid Filament, denier and type of weave should be so balanced as to make the SAP lightweight, soft and pliable.

- The aerial density of the panels shall be such as to provide the rated ballistic and trauma protection.

- No tears, rips, worn spots, discolorations, loose or from stitching and set wrinkles on the SAP shall be allowed.
- The panel shall be treated with approved and durable water repellent.
- The SAP shall be removable from outer carrier to allow for periodic cleaning.
- The SAP shall be placed in tightly sealed, water repellent and PU coated heavy duty fabric so as to make it completely waterproof.
- The Polyethylene / Aramid fibre layers shall be stitched in a rows and columns pattern with a distance gap of minimum 12.5 ± 0.5 mm.
- **Note:** Tenderer must declare number of layers and type of material (areal density of material) used for fabricating Soft Armour Panel and Hard Armour Panel as per original manufacture of the material and they have to maintain the same in bulk supplies.

6. HARD ARMOUR PLATE (HAP)

- Shall be made of high performance Polyethylene fibre.
- Shall provide NIJ threat level III SP protection against fire of 7.62mm SLR and 7.62 mm AK Rifles from a distance of 10 meters in conjunction with Soft Armour Panel.
- Each plate should not weight more than 1.5 Kg.
- Shall be of size minimum size 305mm x 245 mm to cover the vital parts of the body.
- Curvature of the HAP shall be suitable to fit the body contour.
- HAP shall be shielded in tightly sealed, water repellent and PU coated heavy duty fabric so as to make it completely water proof

7. IMMUNITY LEVEL :

(A) Hard Armour Plates :

- Shall be made of Ballistic Grade composite construction.
- Shall provide NIJ level III SP protection against cartridges.
- The HAPs are to be tested in conjunction with SAPs.
- 7.62 x 51 ammunition from a distance of 10 meters at zero angle of incidence.
- 7.62 x 39 ammunition from a distance of 10 meters at zero angle of incidence
- 5.56 x 45 mm steel tip round from a distance of 10 meters in conjunction with SAP.
- Shall be of minimum size 305 mm x 254mm to cover the vital parts of the body.
- Each plate should not weight more than 1.5 kgs.
- Curvature of the HAP shall be suitable to the body contour.
- HAP shall be shielded water repellent and PU coated nylon fabric so as to make it completely water proof.

(B) **Soft Armour Plates : NIJ Standard 0101.04**

Six shots fired through 9 mm Sten Machine Carbine from a distance of 5 meters.

The velocities of bullets fired through weapons are given as follows:

Armour Type	Test Bullet	Bullet weight	Reference Velocity (9.1 m/s)	Hits per Armour part at 0° Angle of incident	BFS* Depth Maximum	Shots per Panel
SOFT ARMOUR PANEL						
A	9mm FMJRN Machine Gun	7.4g to 8.2 g	426 m/s	4+2 at 30°	25 mm	6
HARD ARMOUR PANEL IN CONJUNCTION WITH SOFT ARMOUR PANEL						
SP	7.62 x 51 mm NATO FMJ	9.4g to 9.6 g	838 to 15m/s	±6	25 mm	6
	7.62 x 39 mm Hard Steel Core bullet fired from AK 47 Rifle	7.45g to 8.05 g	635 to ± 15m/s	6	25 mm	6
	5.56 mm NATO INSAS SSI09	4g	950± 15m/s	6	25mm	6

BFS - Back Face Signature on Plasticise.

Selected weapon and lot of ammunition, for which reference velocity has been once achieved, will remain the same throughout ballistic testing of all tender samples of various firms.

8. AREAS OF COMPONENTS OF SOFT ARMOUR PANEL

Coverage area of the Soft Armour Panel as per the sizes will be as under:-

S.No.	PANEL	STANDARD SIZE (Sq.Mtrs.)	LARGE SIZE (Sq. Mtr.)
1	FRONT	0.15	0.18
2	BACK	0.24	0.26
3	COLLAR (TOTAL)	0.06	0.06
4	SHOULDER (TOTAL)	0.04	0.04
5	GROIN	0.06	0.06
	TOTAL	0.55	0.60

9. WEIGHT OF THE JACKET : Total weight of BP Jacket including HAPs, SAPs,

trauma pads and outer carrier should not exceed as mentioned below

:-

(i) Standard size - 7.00 Kg

(ii) Large size - 7.31 Kg

(iii) Total Weight of BP Jackets including HAP's, trauma pads, and outer carrier should not more than 7.5 Kg in any case.

Positive tolerance in weight is not permissible.

10. SIZES OF SOFT ARMOUR PANEL (SAP): STANDARD AND LARGE

11. SIZE OF HARD ARMOUR PANEL: - 305 mm X 254 mm. For both sizes negative tolerance in dimensions of HAP is not permissible.
12. VEST FIT:
- The overall length of the BP jacket shall be such that there is no "ride up" while sitting.
 - The overlapping degree of front and rear panels shall be such as to provide for maximum freedom of movement.
13. COLOUR: CAMO: Before placement of bulk supply order, exact camo colour along with modifications required, if any, in outer carrier will be intimated.
14. LABELLING: The outer carrier and the two soft Armour panels must be as per NIJ standards giving the following details.
- Name of the Manufacturer:
 - Name of the Product:
 - Date of Manufacturing:
 - Date of Issue:
 - Threat level:
 - Size:
 - Serial No.:
 - NIJ Standard:
 - Strike face of jacket should be clearly marked
15. OTHER STIPULATIONS
- JACKET STYLE: POLICE
 - SERVICEABILITY: 10 YEARS (HAP, SAP & trauma pad)
 - GUARANTEE: The Outer Carrier along with trauma padding shall be guaranteed for a period of 2 years against all manufacturing defect.
 - TEMPERATURE: -50°C TO + 50°C.
 - HUMIDITY: 95% at 40°C.
 - STORAGE: Normal Room Temp
16. TESTING CRITERIA:-
- Scientific inspection/ballistic trial of these BP jackets will be conducted as per NIJ STD standard 0101.04.
 - Grom Pad will be tested ballistically with 9 mm SMG. Three evenly spaced fair hits at zero degree angle of incidence shall be taken and BFS should not exceed 25 mm.

17. PROJECTION AGAINST ALL OF THE FOLLOWING WEAPONS:

• 9mm bullet fired through Sten Machine Carbine from a distance of 5 meters.

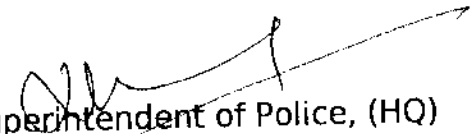
• 7.62 mm bullet NATO ball ammunitions fired through 7.62mm SLR from a distance of 10 meters.

• 7.62mm mild steel core bullet fired through AK series rifles from a distance of 10 meters.

• 5.56 mm NATO INSAS SSI09 rifles from a distance of 10 meters.

18

Components of the BP Jacket should be made of multi layers of same material. Each layer is in single piece and of equal shape and size to maintain uniformity. Shall consist of an outer carrier, removable Soft Armour Panels of Aramid Fibre and two High Performance Polyethylene Plates. Shall conform to NIJ STD standard of Ballistic Resistance of Personal Body Armour (NIJ Standard-0101.04)


Dy. Superintendent of Police, (HQ)
Police Head Quarters,
Daman.