

POST-AoN INFORMATION : BULLET PROOF JACKET ALONGWITH ACCESSORIES FOR INDIAN ARMY

1. Defence Acquisition Council (DAC) has accorded Acceptance of Necessity (AoN) for procurement of BPJ alongwith accessories as per details given below :-

(a) **Quantity.** 47,627 BPJ.

(b) **Category.** 'Buy (Indian-IDDMM)' with 60% Indigenous Content.

2. In order to maximize participation, essential details of AoN alongwith other information are being published on MoD and Indian Army website. Any Indian vendor who had not responded to the RFI earlier may express interest within four weeks from date of publication of details on MoD and Indian Army website for seeking Request for Proposal (RFP) and submission of bid. This is as per Para 35 of Chapter 2 of DAP-2020. Tentative timeline of issue of RFP is in **Nov 2022**.

3. With the view to identify **additional vendors who had not responded to inputs sought earlier**, OEMs/Vendors are requested to forward detailed information on the product which they can offer.

4. The Information consists of two parts as indicated below :-

(a) **Part I.** The First Part incorporates GSQR parameters that should be met by the equipment and tentative date of the issue of the RFP and the quantity required to be procured.

(b) **Part II.** The Second Part states the methodology seeking response of vendors.

PART – I : OPERATIONAL PARAMETERS AND BROAD TECHNICAL REQUIREMENTS

5. Infantry Directorate seeks a Bullet Proof Jacket alongwith accessories with the following broad operational characteristics as per relevant GSQR :-

(a) **Protection Levels Up to.**

(i) Against 7.62x54R API bullets from 10 m at 830 ± 15 m/s for front panel.

(ii) Against 7.62x39 mm Mild Steel Core and 7.62x51 mm bullets from 10m at 710 ± 15 m/s and 840 ± 15 m/s respectively, for rest panels.

- (b) **Weight.** Upto 11 Kg+ 5% for Medium Size BPJ.
- (c) **Back Face Signature.** Not more than 25mm
- (d) **Coverage Area.** Minimum 4800 sq cm for SAP and minimum 3395 sq cm for HAP medium size jacket complete. Minimum specifications of HAP to be following:-

S No	Panels	Small	Medium	Large
HAP (in sq cms)				
(i)	Front	930	1000	1135
(ii)	Back	945	1000	1020
(iii)	Side (each)	350	375	397
(iv)	Groin	375	375	415
(v)	Throat	270	270	305

- (e) **Design.** To be worn as a Jacket. To cover upper torso to protect Throat, Chest, Sides, Groin and Back of User. Be modular to ensure its use as per threat level perceived.
- (f) **Ergonomics.** The BPJ to provide comfort for prolonged operations and 360° protection around the upper torso. It should be convenient and comfortable to wear. Bullet Proof Jacket along with the accessories must not impede the movement and functioning of the soldier while carrying out operational duties.
- (g) **Size.** Jacket will be provided in following three sizes:-

Ser No	Components	Chest Size (in cm)
(i)	Small Size	73 - 84
(ii)	Medium Size	84 - 90
(iii)	Large Size	90 - 106

- (h) **Outer Tactical Vest.** Complete OTV will comprise of a carrier system for Bullet proof panels (SAP and HAP) for front, back, sides, throat and groin area, Quick Release System and provision for attaching Dynamic Weight Distribution System to OTV. The fabric and stitching of OTV to include webbing or tapes strong enough to hold the weight of complete system including SAPs, HAPs and specified number of filled pouches and other accessories fitted with OTV to prevent sagging in the garment. OTV must not sag more than 2% of its overall length during its service life.

(j) **Fabric.** The fabric must be water resistant and be flame resistant. The fabric shall be of Indian Army Camouflage Pattern with resistance to fading when exposed to sunlight and washing. The shoulder should have non-slippery rifle stock retention surface.

(k) **Operational Temperature.** Be able to operate between minus 20° C to +45° C.

(l) **Service Life.** 5 years for complete Bullet Proof Jacket alongwith accessories.

6. Tentative timeline of **issue of RFP is November 2022**. Total Quantity required is approximately **47,627 BPJ alongwith accessories**. After signing of the contract, the quantity required should be delivered commencing earliest but not later than six (06) months and completing earliest but not later than twenty four (24) months. The vendors should confirm if they can deliver the requisite quantity of Bullet Proof Jacket alongwith accessories within the stipulated timeframe.

PART - II : PROCEDURE FOR RESPONSE

7. The parameters/broad specifications of the item be mentioned in the questionnaire attached as per **Appendix 'A'**. The vendors are required to respond to the same.

8. In addition the vendors are required to furnish details as per Performa at **Appendix 'B'**.

9. Apart from the information as per the Appendices the vendors may also forward technical details/product brochures/literature etc pertaining to the item.

10. This information is being issued with no financial commitment and the Ministry of Defence, Government of India, reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw it should it be necessary at any stage. The acquisition process would be carried out under the provisions of DAP - 2020.

11. The required information/details may please be forwarded at the following addresses **by 24 October 2022 :-**

- (a) DIRECTOR GENERAL OF INFANTRY/INFANTRY-8
GENERAL STAFF BRANCH
ROOM NO 403, D-1 WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI - 110 011
FAX NO : +91-11-23018412
E mail ID : suresh1234@nic.in
- (b) DIRECTORATE GENERAL OF CAPABILITY DEVELOPMENT
(CD - 9)
GENERAL STAFF BRANCH
ROOM NO 411, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110 011
FAX NO : +91-11-23793274
E mail ID : gso1-we9-army@nic.in
- (c) DIRECTORATE GENERAL OF
CAPABILITY DEVELOPMENT (RFP CELL)
GENERAL STAFF BRANCH
ROOM NO - 444, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110011
FAX NO : +91-11-23793274
E mail ID : dirrfp.we-army@nic.in
- (d) DIRECTORATE GENERAL OF ARMY DESIGN BUREAU
T&WS (GSQR CELL)
GENERAL STAFF BRANCH
ROOM NO - 122, A WING, SENA BHAWAN
INTEGRATED HEADQUARTERS OF MINISTRY OF
DEFENCE (ARMY)
DHQ PO, NEW DELHI – 110011
FAX NO : +91-11-2011198
E mail ID : drcd920-ihq@nic.in
- (e) ADDITIONAL DIRECTOR GENERAL ACQUISITION TECHNICAL
(ARMY)
ROOM NO 28, D-II WING, SENA BHAWAN
MINISTRY OF DEFENCE, NEW DELHI – 11
Fax No: +91-11- 23792414
E mail ID : tmls-mod@nic.in

12. An early action is requested.

QUESTIONNAIRE

1. The parameters/ specifications of Original Equipment Manufacturer (OEM's) equipment on offer are required in the response to the undermentioned queries in this RFI.

Ser No	Question / Specification	Reply																																																																
2.	<u>Protection Level.</u>																																																																	
	(a) Details of protection Level in the under mentioned format. (Note: - All data to be for Bullet Proof Jackets (size 84 to 90 cms/ Medium) adequately covering the Upper Torso of Soldier to include Chest, Sides, Back, Neck & Throat and Groin).																																																																	
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3.	<u>Ballistic Performance Standards.</u> Confirmation of conformance of the BPJ on offer to international/ national standard(s) (BIS, NIJ, Vpam, GOST or any other)? Please specify.																																														
	(a) If the BPJ conforms to BIS IS:17051:2018 standards, has it been supplied to any other security agency in India (MoD/PMF/ CAPF/State Police/ any other agency). Specify with details of quantities supplies and year of supply.																																														
	(b) If yes to Ser 3(a) above, please share the detailed technical specifications of the product supplied.																																														
4.	<u>Indigenisation of Material.</u>																																														
	(a) Specify material being used in the Soft Armour Panels (SAP) in BPJ?																																														
	(i) Is the material being imported or indigenously developed? If imported mention country of origin.																																														
	(ii) Is the material available indigenously?																																														
	(iii) If despite availability of indigenous material, the material is being imported, please specify reasons for import and country of import.																																														
	(iv) Specify the life of Fibre material.																																														
	(b) Specify the material being used in the Hard Armour Panels (HAP) in BPJ on offer?																																														

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	(c) Specify the tensile strength of Lamina/ply of composite material used in fabricating BPJ panels.																																														
	(d) Please confirm adherence to guidelines given in Gol (Min of Fin) letter No F.18/37/2020-PPD dated 08 Feb 2021, pertaining to supply of raw material /components/sub-assemblies or finished goods from the vendors from the countries sharing land border with India.																																														
	(e) List out all material/technology/ components not available in India, in the BPJ on offer?																																														
5.	<u>Physical Characteristics.</u>																																														
	(a) <u>Design.</u> The coverage area as a guideline is minimum 4800 sq cm for SAP and minimum 3395 sq cm for HAP.																																														
	(i) Please specify the coverage area of the BPJ on offer? Also attach sample photographs, if any.																																														
	(ii) Please elaborate the aspect of modularity (in design) in the BPJ on offer.																																														
	(b) <u>Dimensions.</u> Please provide overall dimensions of the BPJ (Size Medium) on offer. (Provide details on ICW panels)																																														
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Ser No	Question / Specification	Reply
	(c) <u>Harness/ Outer Tactical Vest (OTV).</u>	
	(i) Describe the <i>design</i> of the Harness?	
	(ii) What are the arrangements to ensure improved fitting around the body i.e. minimal wobble/ play between OTV & body?	
	(iii) Specify the material of pads & layers of pad, if used, integral to design.	
	(iv) What are the arrangements to carry four magazines of Assault rifle (SIG716/ AK-203), two hand grenades, one handheld radio set and additional tools, if required?	
	(v) Specify the location of carry pockets/ pouches on the OTV in pictorial representation?	
	(vi) Can the design be customised as per User requirements?	
	(vii) Is the <i>MOLLE system</i> / similar system provided on the vest to attach additional tools or pouches? Specify location on the vest.	
	(viii) Number of MOLLE strips on front, rear and sides?	
	(ix) What is the thickness of the cushioning between OTV and Armour Panels?	
	(x) Specify the <i>weight</i> of the Harness/ OTV without Bullet Proof Panels?	
	(xi) Any other info deemed useful by you to be also provided.	
	(d) <u>Fabric.</u> Please specify the internationally/ nationally recognised standards against each of the undementioned queries :-	
	(i) Nature of Fabric in BPJ on offer .	
	(ii) If the fabric is Nylon, whether it is Nylon 6 or Nylon 66?	
	(iii) GSM of Fabric being used.	
	(iv) Tensile strength of the fabric used?	
	(v) Tear strength of the fabric used?	
	(vi) Abrasion resistance level of the fabric?	
	(vii) Cut resistance level of the fabric?	
	(viii) Measures incorporated to refine and strengthen the stitching of the complete OTV?	
	(ix) Measures to reduce sagging of the OTV over prolonged usage?	
	(x) Is the fabric harsh to skin?	

Ser No	Question / Specification	Reply
	(xi) Is the fabric heat resistant or flame retardant?	
	(xii) Is the fabric water resistant?	
	(xiii) Is the fabric UV resistant?	
	(xiv) Whether the fabric, has Anti-bacterial/ Anti-fungal properties, to be retained throughout the service life of the OTV?	
	(xv) Feasibility of providing OTV of Bullet Proof Jacket in latest IA camouflage pattern?	
	(xvi) Type of coating on metal and plastic parts, if any.	
	(xvii) Is the fabric being used towards inner side of the OTV same as exterior layer? If no, provide details of the fabric.	
	(xviii) Any other input deemed useful.	
	(e) <u>Handling.</u>	
	(i) Is the BPJ shock proof when dropped from a height of 5ft or more?	
	(ii) Please specify the test standards & test method for drop test on which the BPJ on offer has been tested?	
	(iii) Any specific instructions for handling the BPJ on offer?	
6.	<u>Ergonomics</u>	
	(a) Can a soldier wear, adjust and remove the Bullet Proof Jacket with ease while wearing gloves (Extreme Cold Clothing)?	
	(b) Can the BPJ be worn without assistance by an individual?	
	(c) Do the interiors of the BPJ have sweat absorbing & quick dry properties??	
	(d) Is the inner layer of OTV smell retardant? Please specify applicable test standards/ test methods against which tested.	
	(e) Is the Vest modular & easy to wash?	
	(f) What is the arrangement to ensure adequate air circulation inside the jacket for comfort of the wearer?	
7.	<u>Accessories/ Attachments on Offer.</u>	

Ser No	Question / Specification	Reply
	(a) <u>Dynamic Weight Distribution System (DWDS) or any other similar system.</u>	
	(i) Is the DWDS being offered part of the BPJ on offer?	
	(ii) What is the weight of the DWDS on offer?	
	(iii) What is the material being used in the DWDS on offer?	
	(iv) What is the design of the DWDS? Attach photographs.	
	(v) Is DWDS designed developed and manufactured indigenously?	
	(vi) Specify maximum weight carriage capability of DWDS?	
	(vii) Specify Service Life (in years).	
	(b) <u>Quick Release System (QRS).</u>	
	(i) Is the QRS being offered in the jacket in order to enable quick removal of the Jacket?	
	(ii) What is the release system on offer on the BPJ? Is it release by pull or push mechanism or any other?	
	(iii) What is the time taken to remove the BPJ?	
	(iv) What is the time taken to wear the BPJ?	
	(v) Specify the weight of QRS?	
	(vi) Specify the material used in QRS?	
	(vii) Is QRS designed developed and manufactured indigenously?	
	(viii) Service life of QRS (in years).	
8.	<u>Operational & Maintenance.</u>	
	(a) Specify Humidity resilience in relation with the fabric of BPJ OTV.	
	(b) Specify the extreme ranges of :-	
	(i) Operating Temperatures	
	(ii) Storage Temperatures	
	(c) Service life in field condition (in years).	
	(d) Storage/ Shelf life (in years).	
	(e) Will you provide the replacement of attachments/accessories with the equipment during the service life?	
	(f) What is the warranty being offered? Please specify details for each component given below:-	
	(i) BPJ.	
	(ii) OTV.	
	(iii) QRS.	

Ser No	Question / Specification	Reply
	(iv) DWDS.	
	(g) Specify applicable tests to evaluate the life of the fibre being used?	
	(h) Please elaborate the environmental conditions which are detrimental to maintenance of performance of the Armour Panel such as exposure to UV radiations etc.	
	(j) List out the conditions as part of preventive maintenance of Armour panels.	
9.	<u>Engineering Support Package.</u>	
	(a) What is your Maintenance & Repair philosophy ? Please provide a brief on your Maintenance and Repair philosophy in reference to Appendix F of Chapter II of DAP 2020?	
	(b) Will you be providing ' Engineering Support Package ' for life time sustenance, diagnostics and repairs at various echelons?	
	(c) What kind of Product Support are you providing? Is it for the entire service life of the equipment in terms of spares, SMTs or any other upgrades?	
10.	(a) <u>Category of Procurement.</u> As per DAP 2020, under which procurement category is your firm willing to participate for supplying the BPJ for IA?	
	(i) Has your firm Indigenously Designed and Developed the BPJ?	
	(ii) If yes, do you have the patent and/or Intellectual Property Rights (IPR) for the indigenous design? Please give details.	
	(iii) Does your firm have the Govt of India licence to manufacture and supply BPJ?	
	(iv) If not, has your firm applied for obtaining licence to manufacture & supply BPJ in India?	
	(v) Do you have the capability to test the equipment or have collaboration with any Foreign/ Indian Lab?	

Ser No	Question / Specification	Reply
	(b) In case, your firm is participating under Buy (IDDM) category, please provide necessary certifications as per format given at Appendix 'A' to Chapter- I of DAP 2020 .	
	(c) What is the level/ percentage of Indigenous Content (in accordance with Appendix 'B' to Chapter- I of DAP 2020) in terms of :-	
	(i) Cost.	
	(ii) Technology.	
	(iii) Raw Material.	
	(iv) Overall content.	
	(d) Do you have a Joint Venture/ collaboration with any foreign OEM or have in-house proven expertise?	
	(e) If you have a Joint Venture/ collaboration with any foreign OEM, please specify and give details as under.	
	(i) Name of the firm/vendor.	
	(ii) Country.	
	(iii) Previous contract undertaken in terms of: (aa) Quantity supplied. (ab) Vintage of contract. (ac) Details of Buyer (name of agency/ organisation).	
	(f) If you are in a JV / Collaboration with a foreign vendor, is the foreign vendor an OEM or an authorised licensee, design agency or Govt sponsored export agency?	
	(g) If you are in a JV / Collaboration with a foreign vendor, is the foreign vendor ever been suspended or debarred by the MoD?	
	(h) If yes to (g) above, give details.	

Ser No	Question / Specification	Reply
11.	<u>Commercial Aspects/ Tentative Cost.</u>	
	(a) <u>Tentative Cost.</u>	
	(i) What is the cost of a Medium sized BPJ complete (without DWDS)?	
	(ii) What is the cost of DWDS on offer?	
	(iii) What is the cost of technical literature and training on the equipment by the OEM, if any?	
	(iv) What is the tentative cost of Engineering Support Package, if any?	
	(b) Please confirm compliance of 'Terms of Payment' as per provisions of DAP 2020.	
	(c) What INCOTERMS 2020 are suitable / preferred by your company and for what reasons?	
	(d) <u>Pre-Contract Integrity Pact & Submission of Integrity Pact Bank Guarantee (IPBG).</u> Integrity Pact along with appropriate Bank Guarantees are mandatory requirement as per DAP 2020 . Please confirm that you will be able to comply with these stipulations?	
	(e) What is your preferred mode of shipment of goods to the point of delivery i.e. Ordnance depots?	
12.	<u>Trials.</u>	
	(a) What is the likely time period required (factoring clearances and transportation) by your firm to field the prototype for trials post intimation of clearance in TEC?	
	(b) Confirm willingness for demonstration of Bullet Proof Jackets in India on a No Cost No Commitment (NCNC) basis in required quantities for trials.	
	(c) Is the Prototype/ Product readily available or has to be designed/ manufactured?	
	(d) Has Ballistic Evaluation of the Bullet Proof Jackets on offer ever been carried out? If yes, give details as under:	
	(i) Name & Location of Lab.	
	(ii) Date of Evaluation.	
	(iii) Is the Lab certified to undertake ballistic evaluation? Provide certification/ license of the same.	

Ser No	Question / Specification	Reply
	(iv) Provide copies of Lab test reports duly attested by authorised officials.	
13.	<u>Delivery / Production Capability</u>	
	(a) What is your annual production capability of the BPJ on offer?	
	(b) Will you be able to increase the capability with firm orders?	
	(i) If yes, specify quantity and timelines.	
	(c) What is the recommended 'Delivery Schedule' for quantity 47,627 Bullet Proof Jackets in years from D (date of signing contract).	
14.	<u>Training.</u>	
	(a) What are the training facilities available at OEM/Vendor premises for training?	
	(b) How will you facilitate/ assist in carrying out training of personnels?	
	(c) Can the training on the equipment be facilitated/ conducted by your firm in various army establishments across the country?	
	(d) Nature and duration of training being offered for the User, Maintenance & Quality Assurance personnels?	
15.	<u>Misc</u>	
	(a) Refer Para 14 (b) and (c) of Chapter II of DAP-2020. What all technological upgrades can be incorporated subsequently in the offered BPJ?	
	(b) Is the vendor registered with DGQA for Green Channel Policy, or any other registration?	
	(c) Is the vendor in possession of NATO Stock Number or any other equivalent registration code for the BPJ on offer?	
	(d) In addition to the queries mentioned above, the vendor is free to put forth any other details/specifications/ regulations/ policies which will assist the Service HQ in formulating the Qualitative Requirements and procurement of BPJs.	

Appendix 'B' to Chapter II
(Refers to Para 7 and 15 (a) and
15 (b) of Chapter II)

INFORMATION PROFORMA (INDIAN VENDORS)

1. **Name of the Vendor/Company/Firm.**

(Company profile including Share Holding pattern, in brief, to be attached)

2. **Type (Tick the relevant category).**

Original Equipment Manufacture (OEM)	Yes/No
Authorised Vendor of foreign Firm	Yes/No (attach details, if yes)
Others (give specific details)	

3. **Contact Details.**

Postal Address :

City : _____ **State :** _____

Pin Code : _____ **Tele :** _____

Fax : _____ **URL/Web Site :** _____

4. **Local Branch/ Liaison Office in Delhi (if any).**

Name & Address : _____

Pin code _____ **Tele :** _____ **Fax :** _____

5. **Financial Details.**

(a) **Category of Industry (Large/Medium/Small Scale) :** _____

(b) **Annual turnover :** _____ **(in INR)**

(c) Number of employees in firm : _____

(d) Details of manufacturing infrastructure : _____

(e) Earlier contracts with Indian Ministry of Defence/ Government agencies :

<u>Contract Number</u>	<u>Equipment</u>	<u>Quantity</u>	<u>Cost</u>

6. **Certification by Quality Assurance Organisation.**

<u>Name of Agency</u>	<u>Certification</u>	<u>Applicable from (Date & Year)</u>	<u>Valid till (Date & Year)</u>

7. **Details of Registration.**

<u>Agency</u>	<u>Registration No</u>	<u>Validity (Date)</u>	<u>Equipment</u>
DGS&D			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Any other Government Agency			

8. **Membership of FICCI/ASSOCHAM/CII or other Industrial Association.**

Name of Organisation

Membership Number

9. **Equipment/ Product Profile (to be submitted for each product separately).**

(a) Name of Product : _____

(IDDM Capability be indicated against the product)

(Should be given category wise for e.g. all products under night vision devices to be mentioned together)

(b) Description (attach technical literature) :- _____

(c) Whether OEM or Integrator : _____

(d) Name and address of Foreign collaborator (if any) : _____

(e) Industrial Licence Number : _____

(f) Indigenous component of the product (in percentage) : _____

(g) Status (in service/design & development stage) : _____

(h) Production capacity per annum : _____

(j) Countries/ agencies where equipment supplied earlier (give details of quantity supplied):

(k) Estimated price of the equipment _____

10. Alternative for meeting the objectives of the equipment set forth in the RFI.

11. Any other relevant information : _____

12. **Declaration**. It is certified that the above information is true and any changes will be intimated at the earliest.

Note : Para 44 and Appendix F to Chapter II may be referred.

(Authorised Signatory)