

RFI QUESTIONNAIRE

(To be read in conjunction with DPP – 2016 (Amendment Nov 2019))

1. The parameters/ specifications of Original Equipment Manufacturer (OEM's) equipment as sought in succeeding paragraphs are required in the responses to our Request for Information.

Ser No	Question / Specification	Reply																																																					
2.	<p><u>Protection Level.</u></p> <p>(a) Details of protection Level in the under mentioned format. (Note: - All data to be for Ballistic Helmet (size 52 to 57 cms/ Medium) adequately covering head, ears and upper rear neck of soldier).</p> <table border="1"> <thead> <tr> <th rowspan="2">Ser No</th><th colspan="2">Protection</th><th rowspan="2">Aerial Density (Kg / m2)</th><th rowspan="2">Weight of Helmet (Less Accessories) in Kgs</th><th rowspan="2">Trauma/ Back Face Signature (in mm)</th><th rowspan="2">Energy Transferred to body (in J)</th></tr> <tr> <th>Ammunition Fired/Threat Level</th><th>Ballistic Evaluation Distance of Impact Number of Shots</th></tr> </thead> <tbody> <tr> <td>(i)</td><td>9x19mm FMJ/PB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>(ii)</td><td>7.62x39mm FMJ/MS</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>(iii)</td><td>7.62x39mm FMJ/HSC</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <p>(b) In order to increase protection level of ballistic helmet on offer, are you providing any attachment with the Ballistic Helmet? If yes, please provide details of the attachment in conjunction with Ballistic Helmet as under:</p> <table border="1"> <thead> <tr> <th rowspan="2">Ser No</th><th colspan="2">Protection</th><th rowspan="2">Aerial Density (Kg / m2)</th><th rowspan="2">Weight of Attachment in Kgs</th><th rowspan="2">Trauma/ Back Face Signature (in mm)</th><th rowspan="2">Energy Transferred to body (in J)</th></tr> <tr> <th>Ammunition Fired/Threat Level</th><th>Ballistic Evaluation Distance of Impact Number of Shots</th></tr> </thead> <tbody> <tr> <td>(i)</td><td>7.62x39mm FMJ/MS</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>(ii)</td><td>7.62x39mm FMJ/HSC</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Ser No	Protection		Aerial Density (Kg / m2)	Weight of Helmet (Less Accessories) in Kgs	Trauma/ Back Face Signature (in mm)	Energy Transferred to body (in J)	Ammunition Fired/Threat Level	Ballistic Evaluation Distance of Impact Number of Shots	(i)	9x19mm FMJ/PB						(ii)	7.62x39mm FMJ/MS						(iii)	7.62x39mm FMJ/HSC						Ser No	Protection		Aerial Density (Kg / m2)	Weight of Attachment in Kgs	Trauma/ Back Face Signature (in mm)	Energy Transferred to body (in J)	Ammunition Fired/Threat Level	Ballistic Evaluation Distance of Impact Number of Shots	(i)	7.62x39mm FMJ/MS						(ii)	7.62x39mm FMJ/HSC						
Ser No	Protection		Aerial Density (Kg / m2)	Weight of Helmet (Less Accessories) in Kgs					Trauma/ Back Face Signature (in mm)	Energy Transferred to body (in J)																																													
	Ammunition Fired/Threat Level	Ballistic Evaluation Distance of Impact Number of Shots																																																					
(i)	9x19mm FMJ/PB																																																						
(ii)	7.62x39mm FMJ/MS																																																						
(iii)	7.62x39mm FMJ/HSC																																																						
Ser No	Protection		Aerial Density (Kg / m2)	Weight of Attachment in Kgs	Trauma/ Back Face Signature (in mm)	Energy Transferred to body (in J)																																																	
	Ammunition Fired/Threat Level	Ballistic Evaluation Distance of Impact Number of Shots																																																					
(i)	7.62x39mm FMJ/MS																																																						
(ii)	7.62x39mm FMJ/HSC																																																						

Ser No	Question / Specification	Reply
	(c) Please certify the Ballistic Evaluation Standards (<i>NIJ 0101.06/ STANAG/ Vpam/ GOST/ any other</i>) of the Ballistic Helmet on offer?	
3.	<u>Physical Characteristics.</u>	
	(a) <u>Design.</u>	
	(i) What is the design of Ballistic Helmet being provided by your firm? (e.g. Advanced Combat Helmet/ Personal Armour System for Ground Troops/ Modular Integrated Communications Helmet/ any other). Attach sample photographs, if any.	
	(ii) Is the Ballistic Helmet on offer Bolted or Bolt-less ?	
	(iii) What is the coverage area for each design being offered to include head, neck & ears of the wearer? Specify the dimensions.	
	(iv) Do any of the designs impair the hearing of the wearer?	
	(v) If yes, specify modifications to negate/reduce the effect.	
	(vi) Please elaborate the specifications of the helmet in regard to being low cut/ high cut/ any other design.	
	(vii) Specify material being used in the Ballistic Helmet being provided by your firm?	
	(viii) In the helmet on offer, list out material/technology not available in India?	
	(ix) As per para 10.2 and 10.3 of Chapter II of DPP-16, what all technological upgrades can be incorporated subsequently in the offered Ballistic Helmets?	
	(b) <u>Size.</u>	
	(i) What are the different sizes of Ballistic Helmet available/ intended to be produced with your firm?	
	(ii) Specify the size in cms for each size? (Circumference of the head above eyebrows)	

Ser No	Question / Specification	Reply
	(c) <u>Weight.</u> Specify weight of the helmets (including the NVG shroud, Picatinny Rail & mount for counter weight) for each size being offered.	
	(d) <u>Chin Strap.</u> What is the type of Chin Strap being provided?	
	(i) Two/Three/multi point/ any other?	
	(ii) Use of Velcro / quick release?	
	(iii) Material of Chin Strap and Chin cup?	
	(iv) Width of Chin Strap?	
	(v) Can the Chin strap hinder or obstruct the soldier during firing?	
	(d) <u>Inner Lining / Harness.</u>	
	(i) Specify the type of Pad system/ Suspension system/ Hybrid system/ any other?	
	(ii) What is the gap between harness and inner surface of helmet?	
	(iii) Specify the material of pads & layers of pad, if used.	
	(iv) What are the arrangements to ensure improved fitting around the head i.e. minimal wobble/ play between harness & helmet?	
	(v) Any other info deemed useful by you to be also provided.	
	(e) <u>Colour.</u>	
	(i) What is the colour of the Ballistic Helmet?	
	(ii) Is the colour reflective or non- reflective?	
	(iii) Does it comply with the internationally recognised military standards?	
	(iv) Is the colour customisable as per requirement?	
	(f) <u>Surface.</u> To be specified in terms of :-	
	(i) Finish (matt/any other).	
	(ii) Ultra Violet resistant.	
	(iii) Heat absorbing/ resistant surface.	
	(iv) Type of coating on metal and plastic parts, if any.	
	(v) Any other input deemed useful.	
	(g) <u>Reversible Cloth Cover.</u>	
	(i) Is a reversible cloth cover being offered with the each Ballistic Helmet?	

Ser No	Question / Specification	Reply
	(ii) Is the colour of the reversible cloth cover customisable as per requirement?	
	(iii) Details of fabric of the cloth.	
	(iv) Is the Cloth cover reversible with different combat pattern colour on each side?	
	(v) Is the colour reflective or non-reflective?	
	(vi) Is the cover washable ? Any particular instructions with regards to washing the cloth cover?	
	(h) <u>Handling.</u>	
	(i) What is the arrangement(s) to carry the each helmet on person when not worn? In terms of carry bag or carry loop or any other modifications.	
	(ii) Is the helmet shock proof i.e. if dropped from 5ft or more?	
	(j) <u>Storage.</u>	
	(i) Temperature specifications.	
	(ii) Effect of humidity.	
	(k) <u>Other Characteristics of the Helmet.</u>	
	(i) Flame retardant.	
	(ii) Water proof / Water Resistance.	
	(iii) Bolt-free or Bolted Helmet.	
4.	<u>Commander/ Radio Operators Helmet.</u>	
	(a) List the attachments for communication provided with the Ballistic Helmet (Headphone, microphone etc)?	
	(b) Is hands-free communication feasible with the Helmet on offer?	
	(c) Please provide details as under:	
	(i) Compatibility of headset and microphone of the helmet with the following Radio Sets:	
	(aa) VPS MK II	
	(ab) LUP 291	
	(ac) STARS V MK I 5 W/STARS V MK II 25 W	
	(ad) PRC 6020	

Ser No	Question / Specification	Reply
	(ae) Motorola HH set	
	(af) Radio Set HX	
	(ii) Please specify whether equipment ensures secured connection with the communication equipments specified above.	
	(iii) Material of the metallic parts used in headsets/ earphone /microphone/ cable.	
	(iv) Quantify the reliability of metallic parts in terms of its operational usage in time period, handling etc.	
	(v) Material used for padding & casings.	
	(vi) Quantify the reliability of padding & casing in terms of its usage in time period, handling etc.	
	(vii) Effect of environmental conditions (Humidity, heat & cold climatic conditions) on attachments for communication devices.	
	(viii) <u>Push to Talk Switch.</u>	
	(aa) Specify the design of the switch	
	(ab) Specify the operational life of the switch.	
	(ac) Specify the loc of switch with respect to mouthpiece i.e. integral to cable or on the ear cup.	
	(ix) <u>Microphone.</u>	
	(aa) Is the microphone provided integral to the cable or is fixed on the flexible arm?	
	(ab) Specify the characteristics of the microphone in terms of noise cancellation/ reduction, modularity, variations provided like throat microphone etc.	
	(ac) Any other control module being provided i.e. channel tuning, volume control etc?	

Ser No	Question / Specification	Reply
	(ad) Life of microphone (Storage & Operational conditions).	
	(d) Any affect on protection levels and coverage area to incorporate usage of communication equipments.	
5.	<u>Ergonomics</u>	
	(a) Can a soldier wear, adjust and remove the Ballistic Helmet with ease while wearing gloves (Extreme Cold Clothing)?	
	(b) Does Ballistic Helmet facilitate use of hand sets of radio such as STARS V MK II?	
	(c) Can Ballistic Helmet on offer in any way hinder aiming during firing? If yes, any suggested modifications.	
	(d) Does the Ballistic Helmet on offer enable use of individual spectacles / sunglasses?	
	(e) Does the Ballistic Helmet on offer enable use of optical devices such as binoculars/monocular, night vision devices, range finders etc (Both as mounted on Ballistic Helmets or stand-alone system)?	
	(f) What are the measures to mitigate heat retention inside the Ballistic Helmet?	
	(g) Are the interiors of the Ballistic Helmets modular & easy to wash ?	
	(h) Does it have quick dry & sweat absorbing properties?	
	(j) Whether the material used for interiors of the helmet on offer, has Anti-bacterial/ Anti-fungal properties to reduce infestation of parasites during prolonged period of use?	
	(k) What is the arrangement to ensure adequate air circulation inside helmet for comfort of wearer?	
6.	<u>Accessories/ Attachments on Offer.</u>	
	(a) Is there any NVG shroud being provided with the helmet?	

Ser No	Question / Specification	Reply
	(b) Is the Ballistic Helmet on offer, available with in-molded shroud ?	
	(b) Specify location on Helmet.	
	(d) Specify implication of in-molded shroud, if offered , on weight and protection levels?	
	(e) Is the Tactical Rail system being provided on the Ballistic Helmets?	
	(i) How many tactical rails given?	
	(ii) Specify exact location on helmet (around the helmet, on two sides or one side)?	
	(f) Any arrangement given to mount counterweight?	
	(g) Is the counterweight given along with the helmet? If yes, specify weights provided.	
	(h) Ballistic Visor.	
	(i) Is the Ballistic Visor being offered along with the helmet?	
	(ii) What is the protection level (NIJ/ BIS/ other Standards) being provided by the ballistic visor?	
	(iii) Specify the coverage area of Ballistic Visor on offer?	
	(iv) What is the overall transmittance in terms of clarity of vision?	
	(v) What is the thickness of the visor?	
	(vi) What is the weight of the ballistic visor on offer?	
	(vii) What is the material being used in the visor on offer?	
	(j) Sensors.	
	(i) Are sensors of any kind incorporated in the Ballistic helmets on offer?	
	(ii) If yes, please list out the sensors on offer along with its specifications, features and utilisation.	
	(iii) Please specify the weight of each sensor attachment being provided.	
	(k) Does the Ballistic Helmet have arrangement to mount Ballistic Visor / face shield?	
	(l) Please specify whether the accessories/ attachments on offer are being Bolted or Bolt-lessly fixed?	
	(m) Specify any other accessory being provided along with Helmets?	

Ser No	Question / Specification	Reply
	(n) Specify the scaling of each accessory with one helmet.	
7.	<u>Operational & Maintenance.</u>	
	(a) Does the Ballistic Helmets on offer, conform to the Indian Standard Specifications / MIL standards?	
	(b) Specify Humidity resilience in relation with the interiors of Ballistic Helmet.	
	(c) Specify the extreme ranges of the Operation and storage temperatures.	
	(d) Storage life (in years).	
	(e) For the stated Service Life Certification of the Ballistic Helmet on offer, please mention the associated NABL accredited lab.	
	(f) Operational life in field conditions (in years).	
	(g) Does your firm have any system or equipment to verify residual service life of the Ballistic Helmet especially in terms of strength of the material for stated protection?	
	(i) If yes, can the system or equipment validate serviceability at any point in the entire life cycle of the Ballistic Helmet?	
	(ii) Is the system or equipment portable for inspecting the Ballistic Helmets in field?	
	(h) Will you provide the replacement of attachments/ accessories with the equipment?	
	(j) What is the warranty for the equipment being offered? Please specify details.	
8.	<u>Engineering Support Package.</u>	
	(a) What is your Maintenance & Repair philosophy ? Please provide a brief on your Maintenance and Repair philosophy in ref tp Para 9 of Appendix E to Schedule I to Chapter II of DPP 2016 (Amended Nov 2019)?	
	(b) Will you be providing ' Engineering Support Package ' for life time sustenance, diagnostics and repairs at various echelons?	
	(i) Spares (MRLS) to include subassemblies, if applicable?	
	(ii) Special Maintenance Tools (SMTs), if any, for maintenance and repair related tasks.	
	(iii) Special Test Equipments (STEs)/ Test Jigs, if any, for diagnostics to support maintenance	

Ser No	Question / Specification	Reply
	and repair tasks.	
	(iv) Technical literature to include Illustrated Spare Part List (ISPL) and manuals covering all aspects related to operation, maintenance, diagnostics and repairs at various echelons.	
	(v) Inspections standards to ascertain serviceability of equipment as well as its modules/ components.	
	(vi) Is there a requirement of periodic adjustment/ calibration of the equipment or any SMTs/ STEs? If yes, will you provide capability to undertake adjustment/ calibration, as a part of Engineering Support Package?	
	(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?	
9.	<p data-bbox="311 1086 981 1131"><u>Category I: (Indian Vendors to Reply).</u></p> <p data-bbox="311 1153 1236 1321">(a) <u>Category of Procurement.</u> As per DPP 2016 (amended Nov 2019), under which procurement category is your firm willing to participate for supplying the Ballistic Helmet for IA?</p> <p data-bbox="406 1332 1236 1411">(i) Has your firm Indigenously Designed and Developed the Ballistic Helmets?</p> <p data-bbox="406 1433 1236 1556">(ii) If yes, do you have the patent and/or Intellectual Property Rights (IPR) for the indigenous design? Please give details.</p> <p data-bbox="406 1579 1236 1702">(iii) Does your firm have the Govt of India licence to manufacture and supply Ballistic Helmets?</p> <p data-bbox="406 1713 1236 1836">(iv) If not, has your firm applied for obtaining licence to manufacture & supply Ballistic Helmet in India?</p> <p data-bbox="406 1848 1236 1971">(v) Do you have the capability to test the equipment or have collaboration with any Foreign/ Indian Lab?</p> <p data-bbox="311 1982 1236 2094">(b) In case, your firm is participating under Buy (IDDM) category, please provide necessary certifications along with the response to RFI.</p>	

Ser No	Question / Specification	Reply
	(c) What is the level/ percentage of Indigenous Content in terms of :-	
	(i) Cost.	
	(ii) Technology.	
	(iii) Raw Material.	
	(iv) Overall content.	
	(d) Do you have the requisite critical technologies required for the manufacture of the Ballistic Helmets?	
	(e) What are the critical technologies which the industry have taken or are required to be taken from their global partners or Joint Venture, if any?	
	(f) Do you have a Joint Venture/ collaboration with any foreign OEM or have in-house proven expertise?	
	(g) 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.	
	(h) In case 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?	
	(j) In case you are in a JV / Collaboration with a foreign vendor, is the foreign vendor ever been suspended or debarred by the MoD?	
	(k) If yes, give details.	
	(l) What is the Indigenisation Model proposed by you i.e. maximum level of indigenisation	

Ser No	Question / Specification	Reply
	possible/planned?	
	(m) Please specify in terms of percentage of indigenous content and corresponding timelines.	
11.	<u>Category II: (Foreign Vendors Only)</u>	
	(a) If you are a foreign OEM, do you have any subsidiary firm registered in India?	
	(b) Do you have any joint venture with an Indian firm?	
	(c) If yes, please specify and give details of the Subsidiary/ Indian firm 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.	
	(d) Is the OEM willing to provide Transfer of Tech (ToT)? If yes, please specify the critical technologies that can be provided (Depth & Range to be qualified).	
	(d) If you intend to carry out production in India, please specify the following :-	
	(i) Terms and conditions for setting up manufacturing facility in India.	
	(ii) What is the envisaged production capability of the manufacturing unit planned to be setup.	
	(iii) Indicate the minimum quantity of Ballistic Helmets while placing order in order to offer 'Transfer of Technology' to an Indian Production Agency?	
	(iv) In what timeframe is the 'ToT' expected to be completed?	

Ser No	Question / Specification	Reply
	(v) Apart from the minimum order requirement, are there any other qualifying terms and conditions for ToT? If yes, provide details.	
	(e) Are there any export regulations in your country? If yes, specify details?	
	(f) Does the transportation system in your country and its connectivity to India require trans-shipment of Goods?	
12.	<u>Vendor Selection Criteria (Indian Vendors).</u>	
	(a) Is the applicant entity an Indian Company as defined under the Companies Act 2013?	
	(b) Has the Applicant Entity or any of its allied entities ever been banned or suspended by MoD/ SHQ or any Government Department or Organisation?	
	(c) Details of vigilance action viz ongoing investigations by any Department/ agency of Central Government may be provided.	
	(d) Is the Applicant Entity a Manufacturing Entity or System Integrator or a Trading Company?	
	(e) Does the Company have any previous experience/expertise in this field? Specify the field of expertise/ experience of your company and the duration of experience in years.	
	(f) Specify the turnover and net worth of Company in the last three (03) years.	
	(g) Is the Company under insolvency resolution as per Indian Bankruptcy Code?	
	(h) What is the Credit Rating of the Company equivalent to CRISIL rating?	
	(j) Does the Company qualify under Start Up or MSME Category?	
13.	<u>Trials (For All Vendors Indian or Foreign).</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?	

Ser No	Question / Specification	Reply
	(b) Confirm willingness for demonstration of Ballistic Helmets in Indian on a No Cost No Commitment (NCNC) basis.	
	(c) Confirm willingness to supply equipment in required quantities for trials in India on a NCNC basis .	
	(d) Has Ballistic Evaluation of the Helmets 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.	
	(iv) Provide copies of Lab test reports duly attested by authorised officials.	
	(e) Is the Prototype readily available or has to be designed/ manufactured?	
	(f) By when will the vendor be able to deposit the equipment for trials post successful clearance of Technical Evaluation Committee?	
14.	<u>Commercial Aspects/ Tentative Cost.</u>	
	(a) <u>Tentative Cost.</u>	
	(i) What is the cost of Normal Ballistic Helmet excl GST?	
	(ii) What is the cost of Commander Ballistic Helmet with Accessories, excl GST?	
	(iii) What is the cost of each accessory & sensor offered (mention per unit cost)?	
	(aa) NVG Shroud	
	(ab) Tactical Rail System	
	(ac) Ballistic Visor	
	(iv) Ref Para 2 (b) above, what is the cost of protective attachment to enhance protection levels excl GST?	
	(v) What is the cost of technical literature and training on the equipment by the OEM?	

Ser No	Question / Specification	Reply
	(vi) What is the tentative cost of Engineering Support Package?	
	(b) Please confirm compliance of 'Terms of Payment' as per provisions of DPP 2016 (Amended Nov 2019).	
	(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 DPP 2016 . 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?	
15.	<u>Delivery / Production Capability</u>	
	(a) What is your monthly & annual production capability of the offered Ballistic Helmets i.e. Normal Ballistic and Commander's Ballistic Helmet?	
	(b) Will you be able to increase the capability with firm orders?	
	(i) If yes, specify quantity and timelines.	
	(ii) What is the recommended 'Delivery Schedule' for quantity 1,00,000 Ballistic Helmets in years from D (date of signing contract).	
15.	<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?	
	(e) Will the soft copies of User manual be provided along with the Ballistic Helmet?	

Ser No	Question / Specification	Reply
	(f) Will the technical literature along with CBT for trg, usage, technical specifications & maintenance be provided along with the Ballistic Helmet?	
16.	<u>Misc</u>	
	(a) In addition to the queries mentioned above, the vendor is free to highlight any other additional details/specifications/ regulations/ policy which will assist the user in formulating the Qualitative Requirements and in procurement of Ballistic Helmets?	