

PROTECTING OUR HEROES

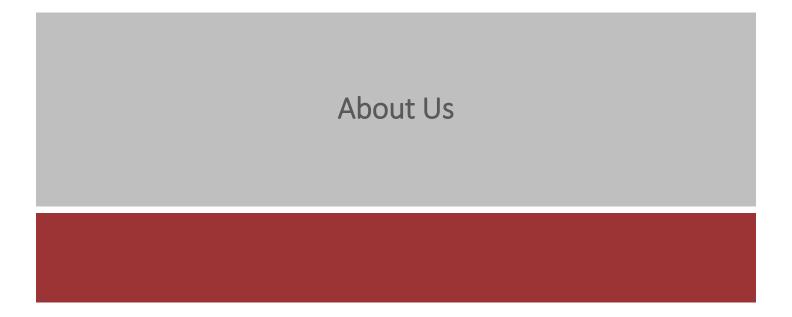






mku

Corporate





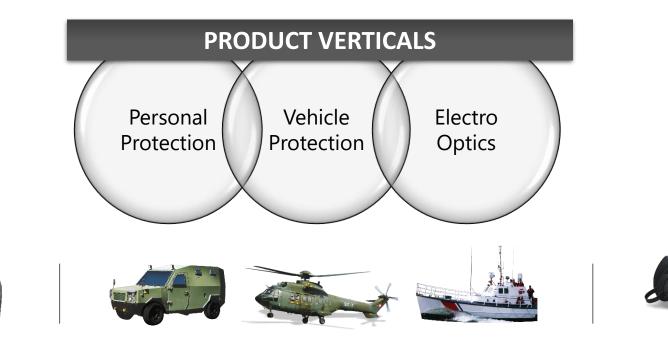
VISION

"Foster safe and secure environment in the world by increasing capability and reducing risk"

MISSION

"Provide an edge to soldiers in challenging situations"









Trusted by more than 230 forces in over 100 countries



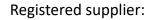
Reputed manufacturer of personal and platform armour with rich experience in Homeland Security & Defence sector

cades

of protecting people and platforms



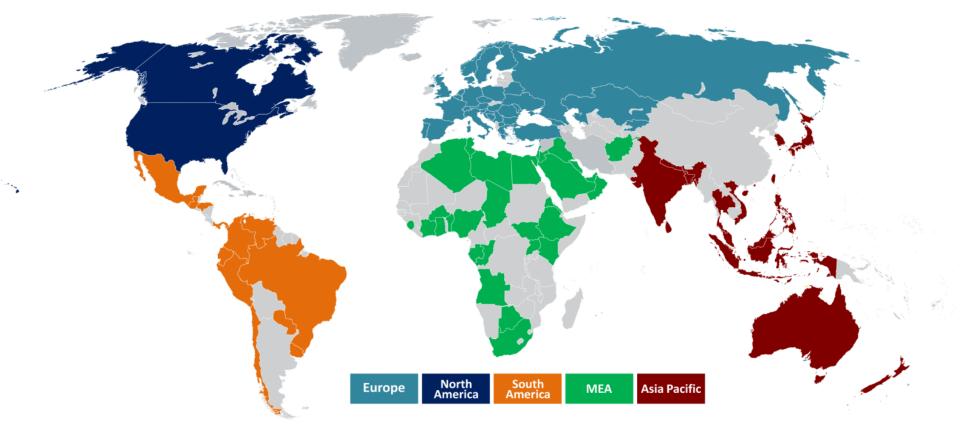
Protected till date





United Nations • North Atlantic Treaty Organization • Supreme Headquarters Allied Powers Europe • Organization for Security and Co-operation in Europe







INCREASING CAPABILITY

REDUCING RISK

Reputed Customers - Domestic

Min. of Home Affairs	Min. of Defense	PSU & Private	Ship Yards
Chattisgarh Police	ARMY	OPF Kanpur	GRSE, Kolkota
Gujrat Police	HQ Cntrl Command,	BhilaiSteel Plant	GSL, Goa
UP Police	Lucknow	NPCL, Tirunelveli	L & T Marine Div, Powai
Orissa Police	HQ Eastern Command,	NPCL, Tirunelveli	Mazgaon Docks Ltd, Mumbai
Haryana Police	Kolkota HQ Northern Cmmd, Udhampur	HPCL, Vishakhapatnam	Fibroplast Marine, Noida
I&K Police		GAIL, Assam	Titagarh Marine, Kolkata
Iharkhand Police	HQ Southern Command,	NMDC, Jharkhand	West Coast Marine, Mumbai
Assam Rifles	Pune NAVY HQ Eastern Naval Command, Visakhapatnam HQ Western Naval Command, Mumbai	Vikram SaraBhai Space Centre, Kerala	ABG Shipyard, Mumbai
Pondicherry Police			Western India Shipyard, Goa
CRPF, New Delhi		NPCL, UP	Pipavav Shipyard. Gujerat
SSB, New Delhi		NPCL, Karnataka	Mahindra Odyssea, Mumbai
PHQ, M.P Bhopal		NPCL, Rajasthan	Marine Frontiers, Mumbai
SPG, New Delhi	AIRFORCE	GMR Group, N. Delhi	Bristol Boats, Kerala
SSB, New Delhi	HQ Western Air Command, New Delhi HQ Central Air Command, Allahabad	VRDE, Ahmednagar	Timblo Dry Docks
		Vehicle Factory, Jabalpur	
IGP, U.T. Chandigarh		BEL, Bangalore	
PHQ, M.P Bhopal		PHQ, M.P Bhopal	
CISF HQ, New Delhi		Ordnance Factory	

MedakHyderabad



Customer locations



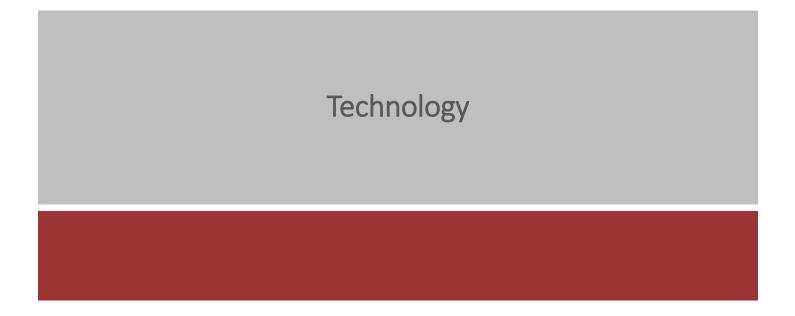
Landmark Projects

Personal Protection

- Ministry of Home Affairs, India • 59,000 Body Armour
- Indian Army 158,279 BP Helmets
- Ecuador Police- 40,000 Body Armour
- MoD, UK 20,000 Armour Inserts
- French Navy 8,000 Armour Inserts
- Spanish Army 20,000 Armour Inserts
- US Law Enforcement 40,000 Helmets

Platform Protection

- Indian MHA Armouring of 200 Patrol Boats
- Coast Guard India 12 Hovercrafts
- German Army Armouring of 40 Helicopters
- French Land Forces 1,000 Armour Kits for Troop Carriers
- German Navy Armouring of 4 Frigates





Proven expertise, Advanced technology

- First Indian company to develop light weight hard armour technology,
- Patented technologies globally recognised, including US and Europe
- First Indian company with NIJ 06 Certification the most stringent body armour certification in the world









INCREASING CAPABILITY







Only company in India to offer Integrated Light Weight Armouring Solutions for Platforms

Design > Development > Manufacturing > Integration

of light weight armouring solutions for:

- LAND VEHCLES
- AIRCRAFT
- NAVAL VESSELS
- OBJECTS



Land Vehicles Armoured 1200+ Vehicles



- Combat Vehicles
- Civilian Vehicles
- Multi Barrel Launcher (MBRL)
- Tanks
- Containers
- Turrets
- Doors / Hatches



Aircraft Armouring Armoured 200+ / 20 types of Aircraft

- Lockheed C-130
- De Havilland DHC-6 Twin Otter
- Pilatus PC-6 Turbo Porter
- Bell UH-1/212 Huey-Types
- Boeing CH-47
- Euro copter BO-105
- Puma/Super Puma/Cougar
- Sikorsky S-70
- Sikorsky Black Hawk
- Sikorsky UH 60, UH 60M
- Westland Sea Lynx MK-88
- MIL MI-8/17
- NH Industries NH-90
- Euro copter FENNEC





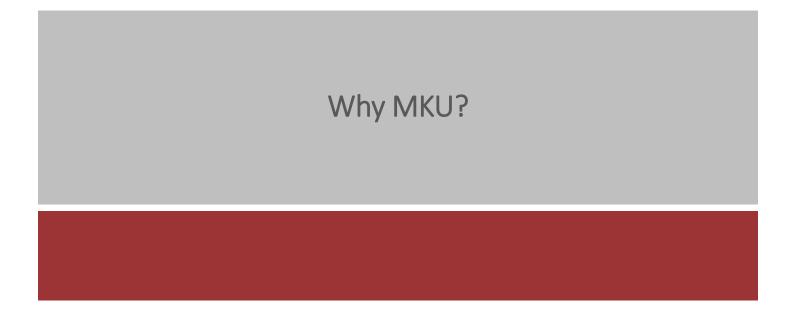


Naval Vessel Armouring Armoured 500+ Naval Vessels

- RIB
- Fast Patrol Boat
- Fast Interceptor Crafts (FIC's)
- Work Boats/Crew Boats
- Hovercrafts
- Mega Yachts
- Frigates and Corvettes









Manufacturing Facilities in India – Germany





GERMANY



Rooma Kanpur Malwan Kanpur Sittensen Germany Optics Unit Kanpur



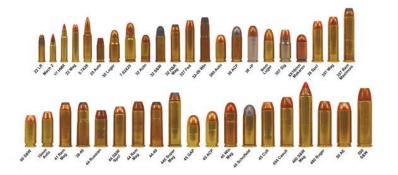
Research & Development

 MKU Technical Centre for research & development with 40+ engineers in India and Germany





Comprehensive library of armour solutions

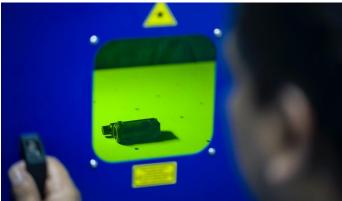


Over 1000+ solutions for more than 100 types of ballistic threats



Capability – Production Capacities





200,000

Helmets

2,000 Armour Kits

150,000

Body Armour

300,000

Armour Inserts

15,000 Electro Optic Devices



Capability – Management Systems & Certifications

- ISO 9001:2015
 - Quality Assurance System
- ISO 14001:2004
 - Environmental Management System
- AS 9100 Rev D
 - QMS for AD&S Industry
- OHSAS 18001-2007
 - British Standard for occupational health & safety management systems

BA 9000:2016

- Body Armour Quality Management System
- NIJ 0101.06
 - Ballistic Standard for Body Armour
- Govt. recognized R&D Unit
 - Ministry of Science & Technology, Govt. of India















Some Major Associates, Partners & Suppliers





Personal Protection – Expert Solutions, Patented Technologies

- 1000+ solutions against more than 100 types of threats including bullets, stab and fragments
- Multi threat protection
- Over 16 Patented technologies that are recognised in US, Europe and other parts of the world
- Certified Solutions with 70+ quality checks





Personal Protection – Infrastructure that inspires







Research & Development



Subject: Registration of Research Institution, other than a Hospital, for the purpose of availing Customs duty exemption in terms of Government Notifications No. 51/96 - Customs dated 23.07.1996; No. 24/2007 - Customs dated 1.03.2007; No. 43/2017 - Customs dated 30.06.2017; No. 45/2017-Central Tax (Rate) & 47/2017-Integrated Tax (Rate) dated 14.11.2017; No. 9/2018 - Central Tax (Rate), No. 09/2018 Union Territory Tax (Rate) & No.10/2018-Integrated Tax (Rate) dated 25.01.2018; and State Tax (Rate) as applicable and all notification as amended from time to time.

CERTIFICATE OF REGISTRATION

This is to certify that the in-house R&D unit(s) of M/s, MKU Ltd. located at (i) 625 Part 638-639 Khujaupur, Salempur Mode, Rooma, Kanpur and (ii) B-30, UPSIDC Industrial Area, Malwan, Fatehpur is/are registered with the Department of Scientific & Industrial Research (DSIR) for purpose of availing customs duty exemption in terms of Government Notification No. 51/96 - Customs dated 23.07.1996; No. 24/2007 - Customs dated 1.03.2007; No. 43/2017 - Customs dated 30.06.2017; No. 45/2017-Central Tax (Rate) & 47/2017-Integrated Tax (Rate) dated 14.11.2017; No. 9/2018 - Central Tax (Rate), No. 09/2018 Union Territory Tax (Rate) & No 10/2018-Integrated Tax (Rate) dated 25.01.2018; and State Tax (Rate) as applicable and all notification as amended from time to time. The registration is subject to terms and conditions

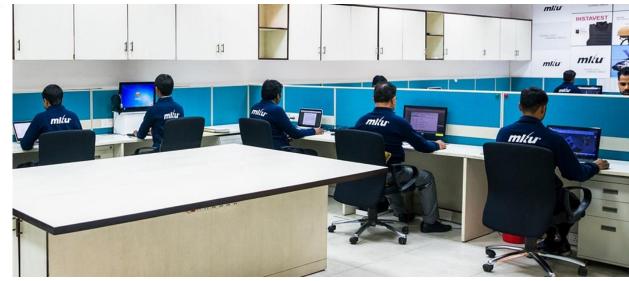
This registration is valid upto 31.03.2021.

वैज्ञानिक और औद्योगिक अनुसंधान विभाग टेक्नोलॉजी भवन, नया महरौली मार्ग, MINISTRY OF SCIENCE AND TECHNOLOGY Department of Scientific and Industrial Research Technology Bhavan, New Mehrauli Road,

Sestionde (Dr S. K. Deshpande) Scientist - 'G'

MKU Technical Centre – 30 proactive engineers constantly improving and developing armour solutions

Recognised R&D centre by the Ministry of Science & Technology, India





Personal Protection – Testing & R&D

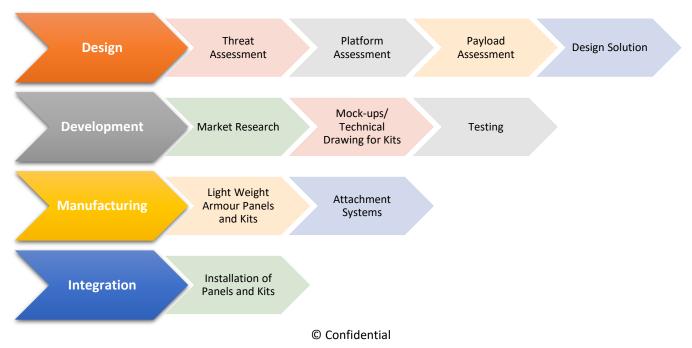
In-house Ballistic & Performance Testing Lab





Platform Protection

End to End Solutions - Complete system house for Land, Air, & Naval platform armouring **DESIGN > DEVELOPMENT > MANUFACTURING > INTEGRATION**





Platform Protection - Land Vehicles, Aircraft & Naval Platforms





Platform Protection – Infrastructure

Water-jet, Large presses, Autoclave





Amongst the largest manufacturing capacities in the world

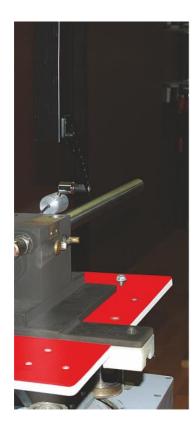
• enough to meet the entire requirement of the Indian Army in a single year

ITEM	INSTALLED CAPACITY	
Ballistic Helmets	200,000	
Ballistic Over vests	150,000	
Armor Inserts	300,000	
Up Armour Kits	6,000	





In-house Technical Centre and Ballistic Testing Lab



- In house Ballistic Testing Laboratory at Germany equipped for testing as per:
 - NIJ
 - VPAM
 - STANAG
- MKU Technical Centre a dedicated center for further R&D and enhancements



Certified and Trusted Solutions

Certified Quality Management Systems.

- AS 9100 Rev C •
- ISO 9001:2008 •
- **OHSAS 18001** •
- ISO 14001 (Environmental Management System) ۲

R&D capabilities recognised by Ministry of Science & Technology, India Products certified by:

National Institute of Justice (NIJ), US





DNV-GI







Electro Optics Division – Manufacturing Night Vision Devices In India

- Ownership of IPR
 - Complete freedom on product development, modification and customisation
 - Chose against licensed production which is very restrictive
 - No dependencies on principal companies
 - No restrictions on sale to anywhere in the world
- Complete Blueprint and component level drawings with MKU for:
 - Optics
 - Electronics
 - Mechanical parts
- Sensor Manufacturing in India

Complete Transfer of Technology agreements with various partners for indigenous manufacture of sensors

- II Tubes for NVD's
- Engines for Uncooled Devices etc.

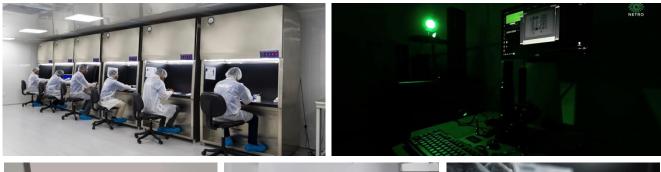


Electro Optics – Infrastructure

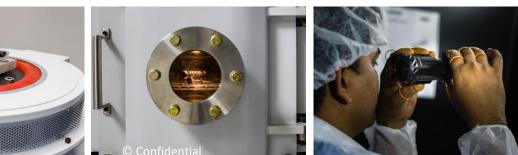
State-of-art manufacturing facility in Kanpur, UP

Equipped with the latest machinery and equipment

- Electrical Sub Assembly
- Optical Sub Assembly









Electro Optics – Infrastructure

- Testing facility conforming to MIL STD 810G / JSS-55555 for Electro Optics
- Photometry tests for NVD's and II Tubes
- Class 10000 clean room







Best EOU (MSME)

Received in 2011

• Awarded by Minister of State for Commerce & Industry, Mr. Jyotiraditya M. Scindia.



• Award conferred by Shri Kalraj Mishra, Hon'ble Union Cabinet Minister for MSME, in the presence of Shri Suresh Prabhu, Hon'ble Minister of Railways, Govt. of India , Ms. Shikha Sharma, CEO & MD, Axis Bank.





MKU wins award for export performance for 2010-11 for the second time on 30th September 2013, in Delhi It was conferred by Dr. (Mrs.) D. Purandheswari, Hon'ble Minster of State for Commerce & Industry,





MKU wins award for Innovation Excellence for the innovative Quick Release Bullet Proof Jacket - **Instavest** It was conferred by Shri. Y.S. Chowdhary, Hon'ble Minster for Science & Technology





MKU BP Jacket saves life of 159 Bn CRPF Commandant Shri Dheeraj **Kumar**

3 DUDY 15 719710 10010 10 गया सरकारी बस स्टैंड पर हथियार सप्लायरों ने दिनदहाड़े मारी गोली बुलेटप्रफ जैकेट में फंसी गोली बच गरो सीआरपीएफ कमांडेंट मेच

2007 के चर्ल्ड कप में बांग्लादेश से ठाटने के कारण बाहर हुआ था भारत

वरीय संवाददाता, गया

रन

शतक

शतक

Dरारी

गया शहर स्थित सरकारी बस स्टैंड के पास भाकपा-माओवादी संगठन को हथियार सप्लाइ करनेवाले गिरोह ने बुधवार को सीआरपीएफ (159 बटालियन) के कमांडेंट धीरज कुमार को दिनदहाड़े गोली मार दी. हालांकि, गोली बुलेटप्रफ जैकेट में फंस गयी और कमांडेंट सक्शल हैं.

इस दौरान कमांडेंट व उनके बॉडीगाडों ने हमलावरों को दौड़ा कर हथियारों के साथ पकड लिया, पकडे गये तीनों हमलावरों को रामपर थाने की पुलिस को सौंप दिया गया. उनके पास से दो पिस्टल, एक कारबाइन व एक राइफल सहित 10 कारतूस बरामद किये गये. सीआरपीएफ जवानों ने घटनास्थल से एक बाइक भी बरामद की. सूचना मिलने पर एसएसपी पी कन्नन व सिटी एसपी राकेश कुमार ने कमांडेंट से बात कर घटना की जानकारी ली. इसके बाद शहर से बाहर निकलनेवाले सभी सस्तों पर नाकेबंदी कर दी गयी





कमांडेंट के सुरक्षाकर्मियों के हाथ में बुलेटप्रूफ जैकेट, जिससे गोली टकरायी.

कार्रवाई के दौरान किया हमला कमांडेंट ने बताया कि हथियार सप्लाइ करने की सचना पर कार्रवाई की गयी. लेकिन, सप्लायरों ने हमला कर दिया. एक युवक ने उन्हें गोली मारी. गोली बुलेटप्रूफ जैकेट में फंस गयी, घटनास्थल से तीन युवकों को पकड़ा गया है. पूछताछ की जा रही है. उनके पास से दो पिस्टल, एक कारबाइन, एक राइफल सहित 10 कारतूस व दो खोखे बरामद किये गये हैं.

हथियार सप्लायरों को गिरफ्तार करने पहुंचे थे कमांडेंट

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स्ट्राइक रोटेट करने में बेहतर भारतीय बल्लेबाजों को फायदा

कमांडेंट को बुधवार की शाम करीब चार बजे सचना मिली कि सरकारी बस स्टेंड के पास माओवादी संगठन को हथियारों की सप्लाइ की जानी है. उन्होंने सीआरपीएफ अधिकारियों व जवानों की दो टीमों के साथ बस स्टैंड के पास सिविल डेस में घेराबंदी की, करीब 4:15 बजे कमाइंट व सीआरपीएफ के जवान एक टाटा समो विकटा से बस स्टैंड से आगे एक चाय दकान की ओर बढ़े. दुकान के आगे तीन युवक खड़े थे. कमांडेंट ने गाडी रोक कर युवकों से पछताछ करनी चाही. इसी दौरान एक युवक ने पिस्टल निकाली और कमांडेंट पर गोली चला दी. गोली उनके सीने पर लगी. बुलेटप्रूफ जैकेट पहनने की वजह से गोली का असर नहीं हुआ. इघर, गोलीबारी क बाद क्रमांडेट के ड्राइवर सह सीआरपीएफ जवान हरिशंकर यादव, जवान शेष पेज 17 पर

Army Gets First Batch of Hi-tech Helmets

Move aimed at ensuring 'survivability' of soldiers, especially those deployed along LAC and LoC: new ballistic helmets also come with communication device

Shaurya.Gurung @timesinternet.in

New Delhi: Aimed at ensuring "survivability" of its soldiers, the Indian Army has received its first lot of high-tech ballistic helmets. This first tranche is part of a much larger set of such helmets, which will replace the older helmets being used by the army. These older helmets offered little or no protection from bullets and shrapnel. Instead, the new helmets will be given to soldiers engaging terrorists in Jammu and Kashmir and those deployed againstChina.

Bill

While taking giant strides into the future the army also wants that its soldiers should not only have helmets that protect their heads, but also give them situational awareness. The army wants that the helmets should also have a communication device, a night vision device and a display for showing maps. Meanwhile, the army received

its first lot of 7,500 ballistic helmets from an Indian defence firm. MKU, which supplies military equipment to the UN and NATO, defence ministry sources said. Out of this lot, 2500 helmets have been given to Indian Army soldiers deployed in UN peacekeeping missions. The remaining 5000 helmets will be issued shortly. In addition, 6000 more helmets will be undergoing trials at DRDO's Terminal Ballistics Research Laboratory (TBRL) in Chandigarh. which assesses the terminal effects of military weapons.

These helmets are part of the procurement of a larger set of ballistic helmets amounting to 1.58 kinds. The first is the "normal hel-



lakh costing about Rs 170 crore, met", which merely offers protecwhich is to be procured from MKU. In addition, the total procurement of ballistic helmets, including these 1.58 lakh helmets, amounts to 3.28 lakh, which the Centre has approved.

The 1.58 lakh new helmets has been planned to be given as part of the "standard kit" to soldiers deploved across the different theatres where the army operates. "These helmets are for the battalions deployed in counter-terrorist (in J&K) and counter-insurgency (in the North-East) operations and along the Line of Actual Control (LAC) with China and Line of Control with Pakistan," said a senior defence ministry official, adding that about 13,981 helmets are for the Indian Navy.

Two types of ballistic helmets The new helmets comes in two tion to a soldier's head. Head is normally the first body part exposed in any combat situation. These helmets offer effective protection against 9mm bullets fired as close as 10 m away. But quite often

it is not a bullet hit to the head which proves fatal, instead shrapnels from nearby explosions or cranial impacts from shock waves prove fatal for soldiers. MKU, in its website, explains that these issues warrant ballistic head protection as an essential gear. It adds that the MKU's ballistic helmets provide protection against bullets and fragments.

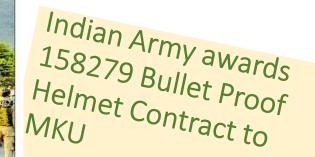
The ballistic helmets will certainly be much better as compared to the older helmets which could only protect a soldier from splinters, rocks and a bullet that has ricocheted and grazed the helmet. But if a bullet directly hits one of with three types of radio sets.

these older helmets, it would not

protect the soldier wearing it. As an alternative, the army began using patkas, which is an improvisation to the older helmets. But a patka can only protect one's forehead, not the rest of the head.

Army personnel explained that these patkas which are being used in counter-terrorist and counterinsurgency operations in Jammu and Kashmir and the North-East. will not be best suited for war-time use, as it provides only limited protection.

On the other hand, a ballistic helmet is being seen by the army as a protective gear for soldiers to be used during war and counter-terrorist operations. Furthermore, the other type of ballistic helmet is called the "commander helmet". It has a communication device and has compatibility





Thank You