

## ADVANCED RIOT PROTECTION SUIT

Recent incidences of extensive use of small arms in mob situations motivated us to develop a cost effect body protection gear. The developed ‘Advanced Riot Protection Suit (Level-III A protection)’ is capable to provide additional protection against soft ballistic for handling any type of riot situation without losing life of security personnel.

It is a modular and formidable impact resistant full body suit providing complete safety to the police and paramilitary forces during riots, civil unrest and mob situations in low intensity conflicts. It helps to absorb the impact/shock load from stone or any other hard object like baton etc. in riot condition. This is used to protect chest, shoulder, back, thigh, groin and pelvis. Additionally, it also safe guards the vital organs of security personal against 9 x 19 mm ammunitions.



**Advanced Riot Protection**

It is composed of 2 set of layers system: outer soft armour panels, both at the front and back, plus shock-absorbing layer. The outer most set of layer of front, back and groin parts are made of soft ballistic layers providing extensive protection and resistance to the to the 9x19 mm ammunition. These parts are snug fit to the body and provide maximum protection to torso of body. The inner most set of layer of front and back panels are made of shock absorbing materials. The outermost of both front and back panels are supported by hard engineering plastic materials. Other part of the protection suit is made of sandwich structure of engineering plastic materials and shock absorbing materials. The inner material is soft to resist injury and minimize blunt trauma. Besides ballistic protection, engineering plastic made parts covers shoulders, biceps, forearm and elbow; these protectors are composed of hard shell with adjusted inner pad, which is covered with lining and provides protection from stone, and batons etc. Additionally, different parts of body protector are attached with velcro to provide firm griping. The entire suit is designed ergonomically which provides ease of movement to the body's joint.

### **Important Features:**

- ✓ Ergonomic and snug fit modular design
- ✓ Light weight: 6 kg
- ✓ Complete 3600 protection > 1.5 m<sup>2</sup>
- ✓ Enhanced level of protection Stone, Baton , Knife ammunition (Level IIIA protection, front, back & groin parts)

Interested Industries are requested to forward their Expression of Interest (EoI) to Director DMSRDE, Kanpur (with attachments of supporting documents) with a copy of Director DIITM, DRDO HQ (without attachment) on following address:-

**To,**

**Director**

**Defence Materials and Stores Research & Development Establishment (DMSRDE)**

DRDO, Ministry of Defence, Government of India

PO DMSRDE, GT Road,

Kanpur-208013

**Phone :** (0512) 2451759-78

**Fax :** 0512-2450404/ 2404774

**E-mail ID :** [director\[dot\]dmsrde\[at\]gov\[dot\]in](mailto:director[dmsrde[at]gov[dot]in)

**Copy to**

**Director**

**Directorate of Industry Interface & technology Management (DIITM)**

Room No. 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi-110011

Phone: 011-23013209/23015291

Fax: 011-23793008

Email: [diitm\[dot\]hqr\[at\]gov\[dot\]in](mailto:diitm[hqr[at]gov[dot]in)

**List of Support documents to be attached with EoI**

- a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- b) Certificates of registration as a manufacturing unit, if any.
- c) Audited Balance Sheet for the preceding three years.
- d) Income Tax returns for the preceding three year period
- e) Details of shareholding/ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- f) Annual budget for R&D during last three years.
- g) Numbers and details of IPR or patents, etc., held by the company.
- h) Number of technically or professionally qualified personnel.
- i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- k) List of Testing and Support equipment's
- l) ISO/ ISI certification or any other certification

- m) Relevant clearances from the authorities/ ministries (if any)
- n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc (if applicable).
- q) Under taking from company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- r) Details of the industrial license for defence manufacturing be provided by the industry seeking ToTs.