



TENDER ENQUIRY FOR PROCUREMENT OF BULLET PROOF JACKET AND HELMETS

To

- Dir-QA
- Dy-GM Project
- CO-699-FIU
- SO-699-FIU
- Manager-IT
- Office Copy
- I/C Bid Center

For info please

Subject: **TENDER ENQUIRY NO. 08/LP/2024-25/BPJ&H/WIL-dt. 04-09-2024**

You are requested to submit your quotations for the items appended as per schedule of TE (Page 1-15) of this tender:

Terms & Conditions:

1. Tender will be opened at 1200 Hrs on **25-09-2024** at following address and the Quotations must reach before 1130 hrs:

WAH INDUSTRIES LTD
Box No. 13, BID Center, Room No. 1, Near Rabitta Hall,
Quaid Avenue, WAH CANTT
(Pakistan)

2. You are required to quote in two parts: -

Part I "Technical Offer": It should exclusively give technical details and literatures/brochures of the offered Bullet Proof Jackets & Bullet Proof Helmets, validity date; delivery schedule; and signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

Part II "Commercial Offer": It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply. Each part should be placed in a separate sealed cover. The envelopes should be inscribed with: Part I "Technical Quotation without Price" and Part II "Commercial Quotation with Price".

- 2.1 Only one tender should be included in one envelope. The outside of the envelope must be inscribed with:

Tender Enquiry No: **08/LP/2024-25/BPJ&H/WIL-dt.04-09-2024**
Tender to be opened on: **25-09-2024**

Head Office



- 2.2. If envelope does not indicate reference of T.E or received late, the same may be returned unopened.
3. Bid money amounting to Rs. 1,000,000/- should accompany the tender in the shape of Pay Order from a scheduled Bank drawn in favor of “CEO / Managing Director, Wah Industries Limited, Wah Cantt”. The same will be held from successful bidder until completion of Warrantee / Guarantee period of 01 year. In case of failure of supply, the bid money will be forfeited.
4. Tender received without Bid Money will be rejected.
5. The tender must be accompanied by a non-refundable fee valuing Rs. 2,500 by means of Pay Order in favor of CEO / Managing Director Wah Industries Ltd Wah Cantt.
6. The purchaser will have a right to accept and reject any offer or to cancel the tender, without assigning any reason or to negotiate price prejudice to the original offer is hereby reserved.
7. The quoting firm will certify that in case of an additional requirement of the contract item(s) in any qty(s) within the period of 12 months from the date of signing the contract, these will also be supplied at the ongoing contract rates with discount.
8. The quotations must be valid for at least 120 days from the date of opening of commercial offer.
9. The quotation should hold good for any reduced or enhanced quantity without notice.
10. The suppliers registered with Sales Tax / Income Tax Dept. are only eligible to participate in the T.E. Proof of registration must be provided.
11. The competitive supplier shall have to furnish sales Tax invoice and professional Tax Clearance certificate.
12. Performance bond @ 10% of the total value will be submitted prior to the placement of contract. The performance bond will be returned on satisfactory completion of the contract. In case of failure of the supply the performance bond (security money) will be forfeited.
13. The store must be protected adequately and appropriate against damages from environmental effects, water or other substances during journey/transportation to withstand the rough handling involved in transit & provide preservation of material while held in storage by the consignee.
14. The specifications of requisite BPJs & BPHs are attached as **Annexure A, B & C.**
15. The inspection of store will be carried out by POF QA-department, and ballistic test will be made at Inspectorate of Armaments Rawalpindi.

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WAH
INDUSTRIES
LIMITED



ISO 9001, 18001, 14025 CERTIFIED

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16. The delivery of entire store will be made by the supplier within 120 days from the date of issuance of contract or NOC (if required by the supplier). In case, the supplier fails to obtain the NOC within 30 days from authorities concerned, WIL reserves the right to cancel the order.
17. The successful bidder will have to provide undertaking of "Declaration of Fees, Commission and Brokerage etc payable by the supplier of goods, services & works on judicial stamp paper duly attested by Notary public.
18. 100% Payment will be released after successful inspection of the store. Part payment against part supply is permissible
19. Any quantity of material, if found defective, will have to be replaced by the supplier free of cost under his own arrangement.
20. The stores shall be supplied on warranty/Guarantee for 12 months. Rejected stores will be removed and replaced with the acceptable store by the supplier at his own expenses within specified time.
21. In case of failure to supply the store without reasonable ground, the unsupplied store will be procured from elsewhere at the risk and cost of the firm.
22. If at any time during the currency of this contract. The purchaser decides to decrease/increase the quantity or terminate the contract for any reason whatsoever (Other than for reasons of Failure to Supply the store), he shall have the right to do so.
23. Conditional offers / alternative offers are likely to be ignored.
24. Sales Tax will be levied as per Govt. rules.
25. Advance payment shall be made subject to submission of bank guarantee of equivalent amount.
26. Delivery Period is 120 days and it will start after signing the contract.

Yours Sincerely,

xxx-sd-xxxx
(Rizwan Ahmad)
Dy-GM P& L
for Wah Industries Limited

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Quaid Avenue, The Mall, Wah Cantt, Pakistan
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SCHEDULE OF TENDER ENQUIRY NO. 08/LP/2024-25/BPJ&H/WIL -dt. 04-09-2024.

Item No.	Description	Level	Size	Qty (Nos)	Price per unit excluding GST up to WIL	Delivery Date
1	Bullet Proof Jacket Complete	PK-III	All sizes	2,000		Within 120 days
2	Bullet Proof Helmet	NIJ Std	All sizes	1,000		

Note:

- (i) The specifications of BPJs are attached as Annexure "A" and "B" while BPHs are attached as Annexure "C".
- (ii) The bidders are required to provide 02 x Complete Bullet Proof Jackets and 02 x Helmets (same size / specifications) free of cost before the time of opening of technical offer. Physical inspection will be made in POF QA Department, and after the acceptance, ballistic test will be carried out at inspectorate of Armament Rawalpindi. The expenditure incurred on ballistic test will be borne by the supplier. Lot size of BPJs and BPHs will be 500 Nos. From Every lot, 02 x BPJs and 02 x BPHs will also be tested by IoA Rawalpindi on supplier's cost in addition to the contracted quantity.
- (iii) Price of Side Hard Armour Plates for Bullet Proof Jackets should be quoted separately.
- (v) The quoting firm will certify that in case of an additional requirement of the contract item(s) in any qty(s) within the period of 12 months from the date of signing the contract, these will also be supplied at the ongoing contract rates with discount.
- (vi) Price validity will be at least 120-days from the date of opening of Commercial Offer.

UNDERTAKING

Should our offer be accepted, we hereby undertake to supply the store/render the services contracted, failing which it shall constitute a breach of contract and Wah Industries Limited shall have the right to purchase the stores/services from elsewhere at our risk and cost.

Place: _____

Dated _____

Signature of the Tenderer _____

Name & Position _____

Address _____

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ANNEXURE –A
(BPJs)

1. **General:** The Bullet Proof Jackets are used to provide protection to the upper body of soldier. The equipment is required for general use in service.

2. **Requirements.**

a. **Protection Level (PK-III).** It is the minimum protection level required and should provide protection to human body against the bullets of following weapons: -

- (1) 6 x rds of 7.62 X 25mm Tokarev (TT Pistol) from 5 meter
- (2) 3 x rds of 7.62 X 39mm SMG Chinese (AK-47) from 15 meter
- (3) 3 x rds of 5.56 X 45mm INSAS M-16 from 15 meter
- (4) 3 x rds of 7.62 X 51mm Rifle G-3 from 15 meter

b. **Material**

(1) **Insert:**

It should be made from a number of suitable Kevlar / Aramid / Twaron cloth / Composite material layers, stitched together and ends protected. Insert should be water proof or whole should be packed in water proof cloth / material in Black / Sober color. Soft insert should provide protection of PK level IIIA (T.T Pistol 7.62x25mm from distance of 5 meter)

(2) **Trauma Pack** :

It should be integral part of the ballistic insert and shall not be detachable.

(3) **Outer Cover:** “Cordura” 1000 OR equivalent and preferably should be water proofed by suitable treatment.

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c. **Side Armour Protection (SAP)**

2 x SAP / Hard Armour Plates to be part of Bullet Proof Jacket with same protection level (PK III) having separate cover / harness.

d. **Groin Pad.** To be provided with Jacket as adjustable accessories with flexible material in triangular

e. **Molle System.** To be provided on the jacket to facilitate installing of adds on equipment like magazine / grenade pouches, GPS, petrol/small pack and hydration system.

3. **General Qualities / Provisions**

- a. It should have opening from sides and collar protection.
- b. It Should be able to withstand rough handling in the field.
- c. Carrying bag should be available in nylon / parachute cloth of good quality for safe / prolonged storage /protection.
- d. The protective material / armour plate should be 3 cms below the collar bone and 2 cm above the naval of soldier, ensuring free movement of arms, limbs and handling of personnel weapons.
- e. It should be easy to wear and comfortable over prolonged period.
- f. **BPJ should be in black color.**

4. **Following may please be ensured:**

- a. **Shoulder Padding:** Should be provided on both shoulders with shoulder straps on left shoulder.
- b. **Stitching along the Seams:** Double stitching all along the seam.
- c. **Waist Belt:** It should be provided to fasten the Jacket at waist with double D ring and Velcro or some better arrangement.
- d. **Causality Drag:** Causality Drag holder at back shoulder be provided.

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TECHNICAL DATA CLOTH CORDURA

Sr. No.	Description	Specified
1	Material	100 Nylon (Cordura Type)
2	Weight / square meter (proofed fabric)	350 g ± 20g
3	No of thread per 25mm	
	a. Warp	36 ± 2 No
	b. Weft	26 ± 2 No
4	Weave	Plain
5	Denier	
	a. Warp	1000Den ± 100 Den
	b. Weft	1000Den ± 100 Den
6	BS (7.6cm x 17.8 cm BG)	
	a. Warp	350 ± 20kg
	b. Weft	250 ± 10kg
7	Washing Test No. 2	For all colors
	a. Change in shade	GS No. 4 or better
	b. Staining on cotton	GS No. 4 or better
	c. Staining on Nylon	GS No. 4 or better
8	Dye fastness to rubbing	
	a. Dry	GS No. 4 or better (for all colors)
	b. Wet	
9	Perspiration test (Acidic / Alkaline)	
	a. Change in shade	GS No. 4 or better (for all colors)
	b. Staining on cotton	
	c. Staining on Nylon	

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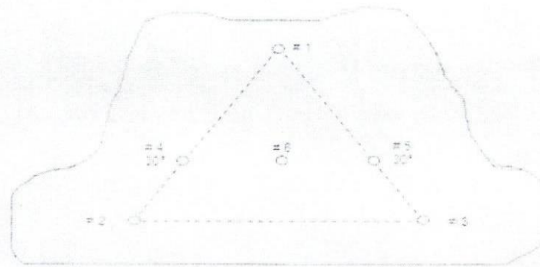


Sr. No.	Description	Specified
10	Dye fastness to light	Class V or better
11	Nature of Dye / Print	Acid / Disperse
12	Print , pattern and color	Black
13	Water Repellency test	Grade IV or better (printed side)
14	Coating	Double Polyurethane (PU) Coating on back side (water repellent finish on front side)
15	Effect of heat at +55°C	No visible change
16	Effect of cold at -10 °C	No visible change
17	Shrinkage (Max)	
	a. Warp	2%
	b. Weft	2%
18	Pressure Head test (6" height, 8" dia, Time 1 hour) 8" will be amended as per ASTM D751 or any international standard on availability of testing equipment.	No leakage
19	Bowl test	No penetration
20	Following parameters are not mandatory. Only for guidance of manufacturer	
	a. Weight / square meter (De-Proofed Fabric)	330g ± 20g
	b. Proofing % age (on de-proofed wt)	12%

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BALLISTIC TEST SOFT ARMOR PATTERN / SEQUENCE



All shots at least 7.5 cm (3inch) from any edge and at least 5cm (2inch) from another shot

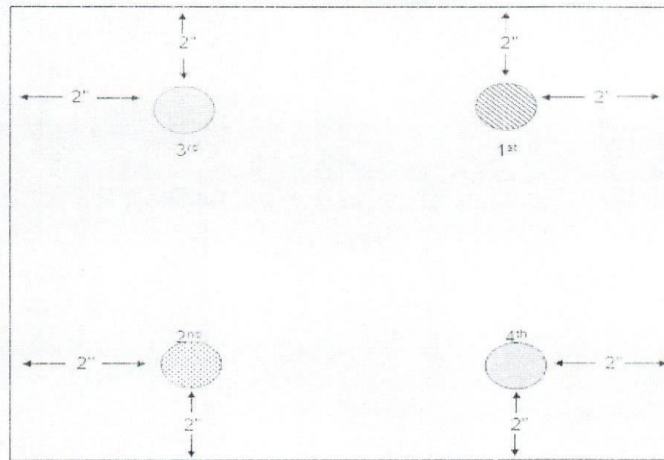
Level III A Protection 7.62 x 25mm Tokarev (TT Pistol)

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BALLISTIC TEST SIDE HARD ARM
PATTERN / SEQUENCE



Key

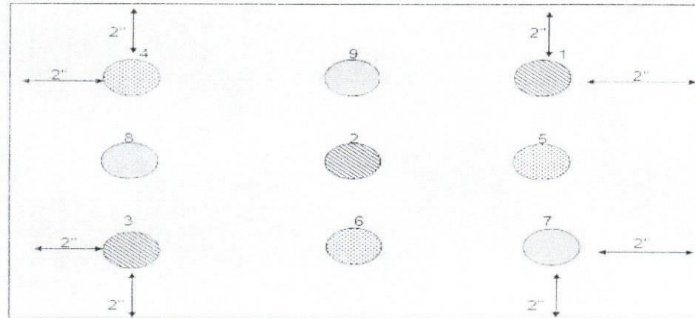
- | | | |
|--|-------|--|
| | AK-47 | (1 st) |
| | INSAS | (2 nd) |
| | G-3 | (3 rd and 4 th) |

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**BALLISTIC TEST HARD ARM
PATTERN / SEQUENCE**



Key

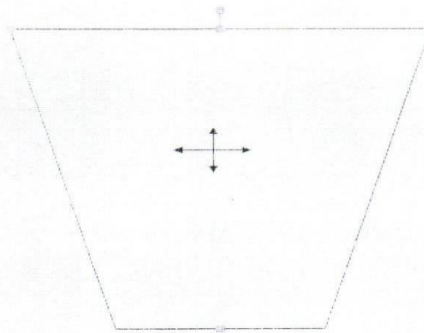
	AK-47	(1 st to 3 rd)
	INSAS	(4 th to 6 th)
	G-3	(7 th to 9 th)

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BALLISTIC TEST OF GROIN PROTECTION



Level IIIA Protection 7.62 x 25 mm Tokarev (TT Pistol)

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S. No	Specifications						
1.	Design Characteristics						
	a. GENERAL DESCRIPTION						
	1) It should not interfere with weapon's Sight, gas mask hearing protection and free movement of neck and head.						
	2) Allow free use of communication equipment.						
	3) Ease of wearing goggles and use of binoculars						
	4) Helmet should not affect the working of magnetic compass						
	5) Should be rugged and strong enough to withstand handling in the fd.						
	6) The lower portion of the helmet should be so tapered that it provides protection against entry of rainwater into the uniform						
	7) The yarn of chinstraps be dyed in a non-fading colour and should resist perspiration. It should be water repellent and rot proof.						
	8) The outer surface of the helmet should be rough and non-reflecting. Colour should be Black						
	9) The shape and fitting of helmet should preferably conform to NATO combat helmet. It should be in one piece and stable during move.						
	10) MATERIAL: Should be made of organic compound. Aramid, Kevlar or composite system of high strength textile fiber and resins, which should have better ballistic resistance than in service steel helmets.						
	b. PHYSICAL ASPECTS						
	1) Weight: Complete helmet with chinstraps should not be more than 1.45-kg						
	2) Design Configuration <u>Sizes.</u> The Helmet should be of three sizes i.e. small, medium and large with adjustable chin straps to suit head sizes as under (These sizes are for inner fitting of helmets) :-						
	<table border="1"> <thead> <tr> <th>Size</th> <th>Circumference</th> </tr> </thead> <tbody> <tr> <td>Small</td> <td>54.7cm and below</td> </tr> <tr> <td>Medium</td> <td>54.8 to 57.5 cm</td> </tr> </tbody> </table>	Size	Circumference	Small	54.7cm and below	Medium	54.8 to 57.5 cm
Size	Circumference						
Small	54.7cm and below						
Medium	54.8 to 57.5 cm						

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		Large	57.7cm and above	
	c.	TECH/PERFORMANCE ASPECTS		
	1.	1) <u>Protection:</u> Should provide protection against following weapons and ammo		
		a	<u>Ammo</u> 9x19mm MK-2Z	
		b	<u>Wpns</u> SMG MP5A2/A3	
		c	<u>Nominal Bullet Mass</u> 8.0 ± 0.1gms	
		d	<u>Muzzle velocity</u> 390±10 m/s	
		e	<u>Ballistic Transient deformation:</u> Ballistic Transient deformation (BTD) should not be more than 1) Rt, Lt & Crown: 16mm 2) Front & back : 25.4mm	
		2)	<u>Frag Protection:</u> Should be capable to provide min V-50 (0° obliquity) protection with 64gr RCC (vel: 1750ft/sec) and 17gr FSP (Vel: 2200ft/Sec)	
		3)	The Helmet from a dist of 3 mtrs should stop fragments of hand gren.	
		4)	It should resist a flame of (ref: AR/PD- 10-02):- Height of flame = 1.5" Helmet Height = 3/4" Duration = 12sec The Hemet Should be self-extinguishing (with no after flame for max of 02 sec) ignition resistant with no melting /dripping.	
		5)	It should not affect eye sight and hearing	
		6)	Helmet Surface contacting human skin should not cause any adverse effect and be comfortable	
		7)	Should qualify attenuation test as per NIJ/Std 0106.01	
	d.	ENVIROMENTAL ASPECTS		
		(1)	Temp zone/Area: -40°C to +60°C	
		(2)	Humidity	1. High



	e.	SPEC OF CONDITIONS	
		1. All Weather	
	f.	LOGISTIC ASPECTS	
	(1)	<u>Spec Storage conds:</u> All Helmet components including the shell, pads, retention system and hard ward shell exhibit. No structural visible or operational degradation physical damage when subjected to elevated /cold temperature exposure. The shell shall exhibit no cracking, delaminating, and separation of plies, distortion, softening and change in thickness greater than 2.5% or other deterioration. The retention system shall be operable and shall have no cracked or damaged components.	
	g.	AUX EQPT/ASSY/CAP	
	(1)	Two sets of cloth /cam covers should be provided with each helmet as under: a. Desert Mountain Cam b. Jungle Punjab Terrain	
	(2)	1 x additional Chin Strap with 2xaddl buckles be provided with each Helmet	