

GOVERNMENT OF MANIPUR
POLICE DEPARTMENT

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NOTICE INVITING TENDER FOR SUPPLY OF BULLET PROOF (B.P) ITEMS

Imphal, the 25th April, 2009

No. PR-18/44/2008-9-PHQ(Pt-I)/ Sealed rate quotations are invited from intending reputed and registered firms /manufactures/authorized dealers/stockiest for supply of Bullet Proof Jacket (light Weight) and Bullet Proof Kevlar (Helmet) mentioned in the Schedule enclosed .Tenders will be received by the undersigned upto 1 p.m. of 23rd May, 2009 and will be opened on the same day at 3 p.m. in the presence of the Tenderers/their representatives, if any ,at PHQ, Imphal. Rate to be quoted are F.O. R. Imphal and inclusive of all taxes and other charges, if any .

Terms and conditions of Tenders can be had from the Police Headquarters, Imphal or from the officers of the Dy. Resident Commissioners, Kolkata, New Delhi and Guwahati on any working day or the same may be down loaded from the Police Website <http://www.manipurpolice.org>.

Sd/-
Director General of police,
Manipur, Imphal.

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Imphal, the 25th April, 2009

No. PR-18/44/2008-9-PHQ(Pt-I)/
Copy to:-

1. The Addl. Chief Secretary(Home) ,
Government of Manipur
2. The Dy. Resident Commissioners, Govt. of Manipur
 - i) Manipur Bhavan,Chanakyapuri,
Sardar Patel Marg, New Delhi.
 - ii) Manipur Bhavan,
26 Rowland Road(near Ballygunge), Kolkata .
 - iii) Manipur Bhavan, Guwahati.
3. The Director ,Information & Public Relations
- for publication in the Local dailies(2-English & 2-vernacular each) for
1(one) day National News Papers(Kolkata and New Delhi Edition).
4. The Director MPR – He is requested for insertion in the
Manipur Police Website.

Approximate Tender value is Rs 838.00 lakh only.

(T.Pachuau),
Inspector General of Police (Adm),
for Director General of police,
Manipur, Imphal.

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Terms and Conditions

1. Earnest Money of 2% of the value in the form of DD/Deposit-at-call drawn in favour of the Inspector General of Police (Adm), Manipur, Imphal and the following clearance Certificates be submitted along with the Tender so as to reach PHQ upto **1 p.m. of 23rd May, 2009**.
 - a) Valid VAT clearance certificate with the TIN Number (duly attested).
 - b) Valid VAT registration certificate (duly attested).
 - c) Valid Central Sales Tax registration certificate (duly attested).
 - d) Valid Dealership certificate/authority from the manufacturer/Authorized dealer (duly attested).
2. If the Tendered happens to be any type of firm/association or any organized body only such person(s) who are legally competent to sign should sign the concerned papers such as the Bids/Tenders, Contract Deed etc. on behalf of the firm. Such person(s) shall furnish an undertaking making him and such other functionary as also the firm responsible jointly and individually on all connected matters. Failure to do will result in right to rejection of offer without any notice and compensation.
3. The rates should be quoted both in figure and words mentioning the taxes and other charges specially. If any Tender is withdrawn before that date the earnest money will be forfeited and such Tender will be debarred from tendering for any supply/contract in the Department for a period of 2 (two) years. Similarly the earnest money of successful Tenderer, who refuses to undertake the contract after final selection by the competent authority will be forfeited besides being debarred from tendering for supply of any item to the Department for the next 2 (two) years.
4. Sample of the items wherever possible shall also be submitted. The successful Tenderer will be required to furnish security deposit @ 10% of the total value of items to be supplied for the fulfillment of his contract in the form of DD/Deposit-at-call drawn in favour of the Inspector General of Police (Adm), Manipur, Imphal and sign a Contract Deed with Department before the commence of work and must abide by the Terms and Conditions laid down in the Tender Notice and Contract Deed.
5. The successful Bidder/supplier shall ensure to supply the items as per time schedule mentioned in the Supply order. The item so supplied shall be of same quality/specification as those of the sample submitted in response to this Tender.
6. In the event of rejection, failing, declining, neglecting or delaying to company with any demand or requisition, the Department will be at liberty (without prejudice to any other remedy the Department may resort to on account of any claim for compliance and failure to abide by the supply schedule) to cancel the Tender.
7. Locale sales Tax will be deducted at source.
8. Preference will be given to those suppliers who can supply without insisting on any advance payment.

9. Tenders which do not fulfill all or any of the above conditions or incomplete in any respect are liable to be summarily rejected. Canvassing in any form in connection with the Tender is prohibited and the Tenders submitted by the Tenderers who resort to canvassing/bringing under pressure of any kind are liable to be rejected without any notice and compensation.
10. The Police Department reserves the right to enhance or reduce the amount of security deposit at any time till the placing of supply orders on the successful bidder/Tenderer.
11. Further, the Police Department also reserves the right to terminate any or all Tenders without assigning any reason whatsoever by giving 15 days notice without assigning any reasons thereof and is also not bound to accept the lowest tender.
12. In case of dispute on any matter arising out of the contract, decision of the arbitrator appointed by the Government of Manipur will be binding on both parties.
13. Any further information required in this regard may be obtained on application on any working day from Inspector General of Police (Adm), Imphal, Manipur.

(T.Pachuau),
Inspector General of Police (Adm)
for Director General of Police,
Manipur, Imphal.

SCHEDULE: - FOR B.P.KEVLAR (HELMET) AND B.P. JACKET(LIGHT WEIGHT)

Sl. No.	Name of item	Qty.	Specification
1.	Kevlar (Bullet Proof Helmet)	2454	<p>1. Ergonomic: It should be convenient to wear, adjust and removed the helmet with ease. It should be provided with a 3-point chinstrap with cotton chin cap. It should not cause undue discomfort even after prolonged wearing by an individual, which may extend from six to eight hours.</p> <p>2. Shape: It should covers the ears and neck portion without impairing the hearing.</p> <p>3. Surface: Finish (It should be of crinkle matt finish in Black colour).</p> <p>4. Ballistic Protection :</p> <p>* (NIJ Level III-A) (Submachine Gun 9mm) Test bullet shall be 9mm full metal jacketed, with nominal masses of 8.0 (124 gr) and a minimum measured velocity of 426m (1400ft) per second.</p> <p>* (NIJ Level III) (7.62 mm FMJ) Test bullet shall be 7.62 mm full metal jacketed, with nominal masses of 9.7 g (150 gr) and a minimum measured velocity of 838m (2750 ft) per second.</p> <p>Test Methods: Four complete ballistic helmets, selected at random shall constitute a test sample.</p>
2.	Bullet Proof Jacket Spectra Dyneema Plates Threat Level -III(SPG Type)	2454	Enclosed at Appendix-“A”

APPENDIX 'A'

SPECIFICATION FOR BULLET PROOF JACKETS

DESIGN PARAMETERS FOR JACKTES.

- A. Shall conform to NIJ standard of Ballistic Resistance of Personal Body Armour (NIJ Standard – 0101.04 updated revision 'A' & 'B').
- B. Protection against all of the following weapons:
- (i) 9mm bullet fired through Sten Machine Carbine from a distance of 5 meters;
 - (ii) 12 bore shot (solid slug) fired through full length shotgun from a distance of 10 meters;
 - (iii) 7.62mm bullet NATO ball ammunitions fired through 7.62 mm SLR from a distance of 10 meters; and
 - (iv) 7.62 mm mild steel core bullet fired through AK series rifles from a distance of 10 meters;
- C. Vest should have the components mentioned in para E below. Each component should be made of multi layers of same material. Each layer will be in single piece and of equal shape and size to maintain uniform thickness all over area up to edge level.
- D. SIZES OF SOFT ARMOUR PANEL (SAP) : STANDARD AND LARGE;
- E. **AREAS OF COMPONENTS OF SOFT ARMOUR PANEL**

Coverage area of the Soft Armour Panel as per the size will be under: -

Sl. No.	PALEL	ATANDARD SIZE (Sq. Mtr.)	LARGE SIZE (Sq. Mtr.)
1.	FRONT	0.15	0.18
2.	BACK	0.24	0.26
3.	COLLAR (TOTAL)	0.06	0.06
4.	SHOULDER	0.04	0.04
5.	GROIN	0.06	0.06
	TOTAL	0.55	0.60

However, drawings of the various components of BP Jacket are enclosed as appendix – “A” for guidance purpose in respect of its dimensions.

- (i) Negative tolerance in terms of area measurement is not permissible.
- (ii) Measurements will be made with the help of scaled drawing on graph paper and using planimeter.

F. WEIGHT OF THE JACKET:

Total weight of BP Jacket including HAPs, SAPs, traums pads and outer carrier should not exceed as mentioned below: -

- (i) Standard size - 6.31 Kgs
- (ii) Large size - 6.62 Kgs

Positive tolerance in weight is not permissible.

G. Size of Hard Armour Panel – 305 mm x 254mm.

For both sizes negative tolerance in dimensions of HAP is not permissible.

H. Shall consist of an outer carrier, removable Soft Armour Panels of aramid fibre and two High Performance Polyethylene Plates.

BP JACKET – CONSTRUCTION:

- (i) It shall provide protection to front, back torso and groin, full sides, upper shoulders, neck and collar. Besides, neck & collar protection, it should not restrict the vertical movement of the neck of the wearer.
- (ii) Shall be light weight and comfortable providing optimum mobility and speed.
- (iii) Adjustable ay at the shoulders, waist and groin with appropriable fastener (Velcro's). An adjustable nylon belt of minimum 10 cm width should be provided with double locking of jacket with Velcro.
- (iv) The vendor has to declare the type of materials, number of layers and their areas density in technical bid of tender and they have to maintain the same in bulk supply.
- (v) SAP should be encased in polyurethane coated materials so as to make it water proof.

(vi) VELCRO FASTENERS

All the clothing flaps of the jackets should have high quality Velcro fasteners, so that it can be worn and taken off easily/quickly. The peel and shear strength of the Velcro used shall not be less than 250 Newton/Cm² and 1300 Newton /CM² respectively when tested as per IS:8156-1994. (The IS: 8156-1994 may be available in the office of Bureau of Indian Standards).

(vii) POCKET WITH FLAPS

The jacket should be provided with two external pockets in outer carrier to house two magazines of 5.56 mm LMG in each pocket. Two pockets should also be provided to accommodate one grenade (HE 36) in each pocket. The size of each magazine is 19 cm x 7.6 cm x 3.5 cm and size of HE 36 grenade is 110 mm x 65 mm.

(viii) **BELT/KAMARBANDH**

An additional belt of nylon/polyester weaving with minimum width of 10cm should be provided around the waist to properly secure the B.P. jackets with the body of the wearer around waist, so that weight of jacket is distributed on waist/shoulders. Kamarbandh should be of same material as outer carrier with Velcro.

(ix) Two pouches (one each on front and rear of outer carrier) should be provided to accommodate two 305 mm x 254 mm Hard Armour Plates so that jacket protects vital organs of body.

(x) Ballistic panels (SAPs & HAPs) shall be removable from outer carrier.

(xi) Outer carrier shall be machine washable.

(xii) **TRAUMA PAD FOR TRAUMA ATTENUATION**

(a) Trauma pad must be provided behind the SAPs, so that it remains to body surface to provide proper cushioning.

(b) It must cover uniformly up to edge level of the SAPs.

(c) Trauma pad will be made of "Non-woven 100% polyester synthetic wadding". Placement of trauma pad/additional layer at any other place is not permissible.

(d) Trauma level should not exceed 25 mm in plasticine block at 30±2.9 degree centigrade temperature of plasticine.

(e) Drop test will be carried out as specified in NIJ standards.

MATERIALS

- The outer carrier shall be made of high tenacity, heavy duty, abrasion resistant and 100% vest integrity fabric PU coated Nylon.
- The fabric shall be treated for protection against water, fire (fire retardant) and ultra violet ray's exposure.
- The fabric must be suitable to wear in the Indian conditions of heat, rain and humidity.
- The inner cover (body side) shall also be of a similar fabric and shall be treated for moisture and water repellency.
- The cloth of the carrier must be pre-shrunk stitching.

Note:

- i. The methods of testing criteria for measuring the properties of outer carrier shall be as per IS: 11871-1986, IS: 3417-1979 (reaffirmed), IS: 392-1989 and IS 391-1975.
- ii. BP Jackets should be UV resistant.

VEST FIT:

- The overall length of the BP jacket shall be such that there is no "ride up" while sitting.
- The overlapping degrees of front and rear panels shall be such as to provide for maximum freedom of movement.

COLOUR: CAMO. The bidders will submit samples of BP jackets of any camo colour. However, before placement of bulk supply order, exact camo colour alongwith modifications required, if any outer carrier will be intimated.

LABELLING: The outer carrier and the two soft Armour panels must be caliber as per NIJ standards giving the following details.

Name of the Manufacture:
Name of the Product:
Date of Manufacturing:
Date of issue:
Threat level:
Size:
Serial No.:
NIJ Standard:
Strike face of jacket should be clearly marked

SOFT ARMOUR PANEL (SAP)

- SAP shall be able to withstand NIJ threat level III A in respect of the notified weapons caliber, bullet weight and velocity.
- Shall protect both front and back torsos.
- Shall be made of 100% Aramid air entangled fiber.
- Shall be a balanced plain weave fabric to maximize the number of crossovers points for maximum dispersal and absorption of impact energy of the bullet.
- The weight of the Aramid Filament, denier and type of weave should be so balance as to make the SAP lightweight, breathable, soft and pliable.
- The aerial density of the panels shall be such as to provided the rated ballistic and trauma protection.
- No tears, rips, worn spots, discolorations, loose or torn stitching and set wrinkle on the SAP shall be allowed.
- The panel shall be treated with approved and durable water repellent.
- The SAP shall be removable from outer carrier to allow for periodic cleaning.
- The shall be placed in tightly sealed, water repellent and PU coated heavy duty fabric so as to make it completely waterproof.
- The aramid fiber layers shall be stitched in a rows and columns pattern with a distance gap of minimum 12.5 ± 0.5 mm.
- The design given with this specification is for illustrative purpose only.

Note: Tenderers must declare number of layers and type of material (aerial density of material) used for fabricating Soft Armour Panel and Hard Armour Panel as per original manufacture of the material. Raw Material Assurance Certificate (RAMC) must be given from original manufacturer in respect of material for SAP and HAP, valid for a period of six months from the closing date of tender. The vendor has to declare the numbers of layers used for fabricating SAP and HAP of tender samples and they have to maintain the same in bulk supplies.

HARD ARMOUR PLATE (HAP)

- Shall be made of high performance polyethylene fiber.
- Shall provide NIJ threat level III protection against fire of 7.62 mm SLR and 7.62 mm AK Rifles from a distance of 10 meters in conjunction with Soft Armour Panel.
- Each plate should not weight more than 1.5 kg.
- Shall be of size minimum size 305 mm x 254 mm to cover the vital parts of the body.
- Curvature of the HAP shall be suitable to fit the body contour.
- HAP shall be shielded in tightly sealed, water repellent and coated heavy duty fabric so as to make it completely water proof.

OUTER STIPULATIONS

JACKET STYLE	:	POLICE
SERVICEABILITY	:	10 years (HAP, SAP & trauma pad)
GUARANTEE	:	The Outer Carrier along with trauma padding shall be guaranteed for a period of 2 years against all manufacturing defects.
TEMPERATURE	:	-50° C to 50° C
HUMIDITY	:	95% at 40°C
STORAGE	:	Normal Room Temp.

IMMUNITY LEVEL:

(a) **Hard Armour Plates:** The HAPs are to be tested in conjunction with SAPs.

- Six bullets NATO ball (9.6 gms) fired 7.62 MM SLR from a distance of 10 meters at Zero angle of incidence.
- Six bullets (mild steel core) fired from 7.62 mm of AK rifle for a distance of 10 meters at zero angle of incidence on separate plates.
- It should stop the single shot (rigle slug) fired centrally on HAP through 12 bore full length shot gun.

(b) **Soft Armour Plates:**

- Six shots fired through 9 mm Sten Machine Carbine from a distance 5 meters.
- The velocities of bullet fired through weapons are given as follows:-

Armour Type	Test Bullet	Bullet weight	Reference Velocity (±9.1 m/s)	Hits Armour part at 0° angle of incidence	BFS* Depth Maximum	Shots per Panel
III A	9 mm FMJRN	8.2 g	436 m/s	4	25 mm	6
III	7.62 mm NATO FMJ	9.6 g	838 m/s	6	25 mm	6
	7.62 mm mild steel core bullet	7.91 g	715 m/s	6	25 mm	6
Shot Gun	12 Bore solid Slug	28.4 g	435 m/s	1	25 mm	1

- BFS – Back Face Signature on Plasticine.
- Selected weapon and lot of ammunition, for which reference velocity has been once achieved, will remain the same throughout ballistic testing of all tender samples of various firms.

Testing Criteria: -

- (i) Scientific inspection/ballistic trial of these BP Jackets will be conducted as per NIJ standard 0101-04 incorporating revision 'A' & 'B' for BP Jackets.
- (ii) Groin Pad will be tested ballistically with 9 mm SMC. Three evenly spaced fair hits at zero degree angle of incidence shall be taken and BSF should not exceed 25 mm.

Miscellaneous

- (i) The supplied/manufacture shall provided one number of PB jackets of the ordered size along with HAP at their cost from the lot of every 500 numbers but minimum four nos. per lot of jackets for the purpose of the ballistic test/evaluation of the tendered specifications at the time of materializing the supply. These will be selected prior to dispatch at random in the factory premises.
- (ii) While submitting the samples for tender, the supplier shall mention the exact area of SAP and HAP and give the template of the jackets as per the area, so that import of raw materials of the BP Jackets will be allowed accordingly.
- (iii) Five tender samples are required for technical evaluation from a firm.
- (iv) Each model/brand of BP jackets should be submitted against a separate tender form.

(T.Pachau),
Inspector General of Police (Adm),
for Director General of Police,
Manipur, Imphal.

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No .PR-18/44/2005-06 /PHQ (PT)/
Government of Manipur
Police Department.

Imphal, the 28th January,2008

To

The Director ,
MPR, Imphal.

Subject: - **For publication in the Police Website.**

Please find enclosed herewith a copy of Tender Notice alongwith
Terms & conditions and Schedule of Lists for publication in the State Police Web site
early.

(N.Kipgen),
Inspector General of Police (Adm),
For Director General of Police,
Manipur,Imphal .

No .PR-18/44/2005-06 /PHQ (PT)/
Government of Manipur
Police Department.

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Imphal , the 28th January,2008

To

The Director ,
Information & Public Relations,
Manipur,Imphal.

Subject :- **For publication in the News Papers. .**

Sir,

Please find enclosed herewith 15(fifteen) copies of NIT for insertion in the Local dailies(2-English & 2-Vernacular each) and for 1(one) day National News Papers(Kolkata and New Delhi Edition) and action taken in this regard may please be intimated to the undersigned early.

Yours faithfully,

(N.Kipgen),
Inspector General of Police (Adm),
For Director General of Police ,
Manipur, Imphal .

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