

**No. D.21013/4/2008-C&G**  
**Government of India**  
**Office of the Director General of Civil Aviation**  
**Opp. Safdarjung Airport, New Delhi – 110 003**

**Dated 07.09.2009**

**TENDER NOTICE**

**Subject :** Quotation for Supply of Accident Investigation Kits.

Sealed tender is hereby invited for “Accident Investigation Kit” as per items and quantity given at Annexure-I. The items mentioned in the Annexure-I should be of standard brand as per requirement of International Civil Aviation Organization (ICAO).

The interested parties/firms are requested to kindly send their quotations for supply of these Kits. The Technical and Financial Bid should be submitted separately in sealed cover and both these sealed and duly super scribed as “Quotation for procurement of Accident Investigation Kit.” The quotations may be sent in the name of the undersigned on or before 29.09.09, 03.00PM the bids will be opened on 30.09.09 at 3.30 p.m.

**(M.C.Pandey)**  
**Deputy Director of Administration**  
**For Director General of Civil Aviation**

## **TERMS & CONDITIONS**

1. The scope of this tender is to invite offers for supply of “Accident Investigation Kits” from reputed suppliers.
2. The tender should be quoted for whole kit containing items mentioned hereunder:- (i) 6 kits containing all items mentioned in the Annexure-I.  
(ii) 9 kits without item no.4 and 7.  
(iii) 10 kits with item no. 1,3 and 5only.
3. The tender will be considered on the basis of total price of the kits.
4. Warranty period for each item may be clearly specified as per OEM specification.
5. The rates should be quoted in figures clearly. Deviation, if any, from the specifications will not be accepted. Correction in “Rate” column, if any, should be duly authenticated.
6. A Bank Draft for an amount of Rs. 25,000/- (Rupees twenty five thousand only) payable to the “Pay & Accounts Office, DGCA, Ministry of Civil Aviation” has to be enclosed as Earnest Money Deposit (EMD) for safeguarding the interest of the DGCA in all respects along with the Quotation/Tender. Tender(s) received without “EMD” will not be considered. EMD of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect. The said “Security deposit” will be refunded on the successful completion of the contract after deductions, if any.
7. Any loss sustained by the Department as a result of non-compliance with delivery schedule, questionable quality of terms and short delivery shall be recoverable from the tenderer out of the Security Deposit.

- 8.** The tenderer must be registered with Sales Tax Department and a copy of registration certificate to this effect, duly signed and stamped by the authorized person of the company must be enclosed with the tender.
- 9.** 'TIN' No. of the firm as applicable while submitting the tender, must be indicated. A tender lacking this will not be considered.
- 10.** The contract will preferably be awarded to the lowest tenderer amongst the technically qualified bidders.
- 11.** The items as per the approved specifications should be supplied within 15 days from the date of receipt of the purchase order failing which a penalty would be imposed (equal to 1% of indent cost per day of delay, in case of further delay beyond one month the order is liable to be cancelled and the EMD forfeited, if the delay is attributable to the supplier.
- 12.** If the items supplied are not found up to the approved specifications, or, are not delivered within the stipulated time, the security deposit may also be forfeited at the discretion of DGCA.
- 13.** The rates are to be quoted on the company's letter head. Each page of the quotation/tender must be signed & stamped by the authorized Signatory. Unsigned quotations may not be considered.
- 14.** Technical & Financial bids should be submitted separately in sealed cover and both these sealed covers should be put in a big cover which should also be sealed and super-sealed covers should be put in a big cover which should also be sealed and super-sealed as 'Quotation for Accident Investigation Kit'.
- 15.** It should be clearly specified in the technical bid that each item is as per specification mentioned in Annexure-I. EMD can be forfeited in case of violation.

**16.** Tender Documents not properly sealed will not be considered.

**17.** DGCA, New Delhi, reserved the right to accept or reject any or all of the bids in full or in part including the lowest, without assigning any reason thereof or incurring any liability thereby.

## **Annexure-I**

### **GROUP 'A' – ELECTRONIC ITEMS**

#### **1. GPS**

Features:

- a. Si RF high-sensitivity GPS receiver
- b. Hand held
- c. WAAS-enabled
- d. Meets rigid IPX-7 submersible standards
- e. Built-in base maps with auto routing
- f. Expandable memory
- g. 64 MB trans Flash Memory Card included for optional downloaded maps
- h. Electronic compass
- i. Barometric altimeter
- j. Bright color TFT display
- k. USB and serial ports
- l. 160 x 240 pixels
- m. Batteries
- n. Carry Case

#### **2. MOBILE PHONE**

##### **Specifications**

Standby Time – Up to 348 h : Talktime – Upto 210 min : Technology – Lithium ion & GSM – Tri-band : Antenna – Internal : Wireless Interface – Bluetooth 2.0: Capable of Synchronization with PC: Digital Zoom – 8: Sensor Resolution – Minimum 2 Megapixel: Color Depth – 65,536 colors : Diagonal Size – Minimum 2”, Display Resolution – Minimum 320x240 pixels: LCD

display type: Weight – Not in excess of 3.2 oz: MicroSD Flash Memory Card: Enabled MMS  
Messaging Services: Platform Supported Java MIDP 2.0

### **3. DIGITAL STILL CAMERA**

#### Basic Features

Gross Pixels	Approx. 12.4 Mega Pixels
Effective Pixels	Approx. 12.1 Mega Pixels
Sensor Type	1/2.3 Super HAD CCD
Optical Zoom	4x
Precision Digital Zoom	Approx. 8x
Smart Zoom	8M: Approx. 4.9x, 5M: Approx. 6.2x, 3M: Approx. 7.8x, VGA: Approx. 25.0x, 16:9: Approx. 8.3x
Lens	Sony Lens
F Number	2.5 – 5.6
Focal Length f = (35 mm Conversion)	5.8 – 23.2mm (33 – 132mm)
Auto Focus Range	W: Approx. 5cm to Infinity, T: Approx. 50cm to Infinity
Macro Auto Focus Range	W: Approx. 5cm to Infinity, T: Approx. 50cm to Infinity
Internal Memory	Approx. 12 MB
Memory Stick	Memory Stick Duo / Memory Stick PRO Duo / Memory Stick PRO Duo (High Speed) / Memory Stick PRO-HG Duo
LCD	2.7 (6.9 cm) LCD (230K pixels)
Stamina (Battery Life)	310 shorts / 155 mins
Battery System	Lithium ION Battery
USB	2.0 Hi-Speed

### **4. DIGITAL MOVIE CAMERA**

#### Specifications

HD Recording Format	AVCHD (1920 x 1080i)
HD Video Codec	MPEG-4 AVC / H.264
SD Recording Format	MPEG-2
Media Storage Type	80GB Hard Disk Drive
HYBRID / HYBRID Plus	HYBRID (Movie recording on Memory Stick)
Image Sensor Type	1/5 “Exmor” CMOS Sensor with Clear Vid array
Image Processor Type	BIONZ
Lens / Filter Diameter	Carl Zeiss Vario-Tessar / 30mm
Optical / Digital zoom	10x / 120x
x.v. Colour	Yes

Audio Format	Dolby Digital 5.1 Creator (5.1 ch.)
Zoom Mic	Yes
Maximum Still Image /resolution (Photo Mode)	4 Mega Pixels (2304 x 1728 pixels / 4:3)
Dual Rec Image Resolution	2.3 Mega Pixels (2016 x 1134 pixels / 16:9) / 1.7 Mega Pixels (1512 x 1134 pixels / 4:3)
Face detection (Video & Photo)	Yes
Smile Shutter	Yes
D-Range Optimiser	Yes
Smooth Slow Rec	Yes (3secs) with audio recording
Image Stabiliser	SteadyShot
BRAVIA Sync	Yes
LCD Screen Size & Type	2.7 (6.9 cm) (Wide 16:9) Clear Photo LCD Plus (921K Dots) with Touch Panel
Face Index	Yes
Film roll Index	Yes
Auto Backlight Correction	Yes
Memory Stick Duo Slot	Yes
HDMI Terminal	Yes (Mini)
USB Terminal	Yes (USB 2.0 High Speed)
Dimensions (W x H x D)	69 x 68 x 118mm
Mass (w/o Tape, Battery, etc.)	Approx. 330g

## 5. BINOCULARS WITH INTEGRATED COMPASS

- Magnification 7x50's with integrated and electronically illuminated compass
- Auto Focus
- Anti-haze Optics for greatest contrast during the daytime and low light situations

## 6. DIGITAL DICTAPHONE WITH MEMORY STICKS

## 7. LASER SURVEYING EQUIPMENT

### (a) Specifications:

Magnification	:	32x
Standard deviation of 1KM double run	:	<=1.5mm
Clear objective aperture	:	40mm
Telescope	:	Erect
Shortest focusing distance	:	<=0.8m
Compensator working range	:	± 15'
Compensator setting accuracy	:	± 0.3"

Circle	:	360°
Graduation interval	:	1°
Weight	:	≤6.6 lbs(3kg)

### **(b) Tripod & Leveling Staff**

Specifications:

- Small size and economical
- Closed length: 18 ½“ (47cm)
- Extended length: 37 ¾” (96cm)
- Net Weight: 2 lbs. (0.93 kg)

### **GROUP ‘B’ – MEASURING ITEMS**

1. Magnetic Compass - Standard
2. Steel Measuring Tape (One meter and 20 meters) – Standard
3. Navigational Computer, circular slide rule – standard
4. Protector and Dividers
5. Cinometer - One
6. 30 cm long Ruler – Standard - One
7. Reel of cord (50-300 meters long) – Standard - One

### **GROUP ‘C’ – STATIONERY ITEMS**

1. Labels – Standard (3 & 6 Inches) – 50
2. Tie on tags and adhesive tags – Standard - 20, 20
3. Flag Markers and stakes writing material - Standard – 10, 10
4. Waterproof Notebooks and clipboard pens, pencils – Standard – 5,4 , 2
5. Grease Pencils – Standard – 2
6. Permanent Markers – Standard – 5
7. Graph Papers – Standard – One Notebook

### **Group ‘D’- Tools and Inspection Equipment**

1. Tool Kit (Spanner set, pliers set, screw driver s et with small hammer and copper drift) – Standard – One
2. Waterproof flashlight with spare batteries and bulbs – medium size – one each
3. Multi-purpose knife – Swiss make – one
4. Inspection mirror – Medium size, hand held with folding stand – 15
5. Magnifying glass (10X) – 15

6. Sterile bottles (for fuel, oil and Hyd samples) – Glass – 5
7. Plastic bags (assorted) – Medium size – 10
8. Plastic sheets and masking tape – Good Quality – 5 & 2 each

#### **GROUP 'E'-SAFETY EQUIPMENT**

1. First aid kit – Spray for pain relief and dressing, Savlon, Cotton, Burnol,  
Five band aids
2. Gloves (Surgical-10, Electrical-1) – Good Quality
3. Helmet with head lights – Good Quality
4. Goggles with UV protection and Anti Glare capability
5. Face masks – Good Quality, Std. size - 6
6. Waterproof shoulder bag (Good Quality) – Standard size - One
7. Disposable Shoe cover – Good Quality – 5
8. Light weight raincoat (Superfine quality and durable) – one
9. Bio Hazard Disposable bags – Medium size – 5
10. Sleeping bags (light weight and heavy duty) – 2
11. Big leather carry bag to carry kit items (Good Quality) - One
12. High visibility jacket (Light and fine quality) – One
13. Trekking/Sport Shoes of good quality