

Tender No. 79/2011

CONTRABAND DETECTOR

1. It should be able to detect explosives, drugs, weapons, currencies etc. hidden in places like automobile tyres, doors, fender, bumpers, fuel tanks, pipes as well as aircraft structures, boat hulls and building walls.
2. It should have a digital display visible in all conditions and an audio beep that increases in rate as it is detects more contraband material.
3. It should be lightweight and hand held system.
4. System should comply with international safety regulations regarding radiation.
5. Certification for radiation safety in accordance with international standard.
6. Longlife Rechargeable battery with charger and spare battery.
7. Operation manual.
8. Three years warranty.
9. Availability of local service centre is desirable.
10. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
11. The Supplier should have well equipped maintenance office with qualified engineers for repairs/service. Supplier should have direct authorization from the OEM to participate in the tender. Necessary authorization documents should be made available in this regard. The name of the OEM along with the contact telephone numbers, addresses, fax numbers & email address may be made available for reconfirmations with the OEM about the status of the supplier.

Tender No. 80/2011

WATER JET DISRUPTER

1. It should have a barrel and barrel clamp.
2. It should have a tripod adjustable stand for positioning.
3. It should have electric firing cartridge and laser aiming facility.
4. At least 100 numbers of cartridges should be provided at the time of supply. Also the company should assure the uninterrupted supply of the firing cartridges.
5. Remote operation (with cable) from safe distance.
6. Water bottle, water seals, cleaning brush, blasting machine, firing cable etc should be provided.
7. Operation manual
8. Three years warranty
9. Availability of local service centre is desirable.
10. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
11. The supplier should have well equipped maintenance office with qualified engineers for repairs/service. Supplier should have direct authorization from the OEM to participate in the tender. Necessary authorization documents should be made available in this regard. The name of the OEM along with the contact telephone numbers, addresses, fax numbers & email address may be made available for reconfirmations with the OEM about the status of the supplier.

Tender No. 81/2011

RADIATION DETECTOR

1. It should be portable
2. It should be able to detect all types of radiation sources
3. Audio visual indication for detection.
4. System should comply with international safety regulations regarding radiation.
5. Certification for radiation safety in accordance with international standard.
6. Operation manual.
7. Three years warranty.
8. Availability of local service centre is desirable.
9. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
10. The Supplier should have well equipped maintenance office with qualified engineers for repairs/service. Supplier should have direct authorization from the OEM to participate in the tender. Necessary authorization documents should be made available in this regard. The name of the OEM along with the contact telephone numbers, addresses, fax numbers & email address may be made available for reconfirmations with the OEM about the status of the supplier.

Tender No. 82/2011

SEARCH LIGHT(LED Search Light)

1. It should be portable and light-weight (below 2 Kg)
2. Toughened front glass.
3. Simple to use - Switches for easy and smooth operation.
4. LED indication for low battery.
5. High powered LED Lamp.
6. Provision for Dim and Bright (Desirable: Three position Switch for Dim – Bright – Off)
7. Water resistant and shock resistant body.
8. Longlife Rechargeable battery and inbuilt battery charger.
9. Both indoor and vehicle chargeable.
10. Illuminating time - 5 Hours or better.
11. Operation manual.
12. Three years warranty.
13. Availability of local service centre is desirable.

Tender No. 83/2011

Portable Digital Voice Recorder with Camera (like mobile phone)

Should be a mobile phone instrument with continuous voice recording facility
Minimum 4 GB storage capacity with memory card
Minimum 100 MB internal memory
Camera to have digital zoom of minimum 3x
Should have video recording facility
Should have blooth tooth, USB port, WAP browser, Geo tagging and FM Radio
Minimum tree years warranty

Tender No. 84/2011

Interrogation Room Equipments

(i) Digital Interrogation Room Recording System

The system should include the following :

DVD & VCR Recorder

Digital Audio Recorder with Memory card

PIC – C- 20 Color Camera

Stereo Microphone system

Video output

Distribution amplifier

Microphone (stereo) – Whisper II

Distribution amplifier to send and receive audio – video out put to more than one center

Specifications

- Recorder – KSR – 40 V/PMD 560
- Camera – PIRC – 20 color
- Power – 115VAC
- Recording time – 60 to 360 minutes
- Recording media – DVD – VCR
- Copy feature – both ways
- Recorder – Date/time to be available on screen display and imprintable on every format
- No editing features
- PIRC-20 Color Camera should have high resolution, maximum sensitivity, 400+ lines of resolution, complete with power supply.

(ii) 32" LCD Colour Monitor with audio

(iii) CATV RF Distribution module:

For sending signals to CATV network by placing it on a channel that is not being used.

(iv) Dome Camera

- 260 Zoom lens
- Image sensor – ¼ inch
- Resolution – 535 lines
- Optical Zoom – 26X
- Digital Zoom – 12X
- Pan range – 360 degrees
- Tilt range – 90 degrees
- Controller – Keyboard type

Tender No. 85/2011

CYBER FORENSIC ANALYSIS TOOL-SOFTWARE

a. Access data FTK and Password Recovery Tool Kit :

It can be used to create images, analyze the registry, conduct an investigation, decrypt files, crack passwords, identify steganography, and build a report all with a single solution.

Specification

- Capable to create images, analyze the registry, conduct an investigation, decrypt files, crack passwords, identify steganography, and build a report all with a single solution.
- Should Recover passwords from over 80 applications; harness idle CPUs across the network to decrypt files and perform robust dictionary attacks.
- KFF hash library with 45 million hashes.
- Should provide required training free of cost
- Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
- Better after sale support

b. Mount Image Pro & Virtual Forensic Computing (VFC) (Combo)

Use : Mount Image Pro is a computer forensics tool for Computer Forensics investigations to mount forensic images of hard drives. VFC enables investigators to boot a mounted EnCase image, The investigator can then experience the 'desktop' as seen by the original user in an entirely forensic manner. The investigator can use the suspects computer in a read only virtual environment.

Specification

It should

- rapidly boot a forensic image of a suspects computer in a virtual environment
- boot a physical write blocked hard drive.

It should be capable of mounting

- EnCase .E01, .L01
- AccessData FTK .E01, .AD1
- Unix/Linux DD and RAW images
- Forensic File Format .AFF
- SMART
- ISO (CD and DVD images)
- VMWare

- image files as a drive letter under the Windows file system.

The software should have the following features (minimum)

- Capable to map images as a single drive letter
- It should open EnCase password protected image files without the password.
- Capable to explore "Unused/Non partitioned" disk space
- Capable to map specific drive letters to any or all partitions within the image files.
- It should maintain Forensic Integrity using MD5 HASH or better which can be tested by a reacquisition of the mounted drive and a comparison of MD5 checksums
- It should work with Operating Systems like Windows 2000/XP/2003/Vista
- Should work in computers with even 128 MB RAM
- Product Activation should be Immediate.

Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years

Better after sale support

c. Image editor - ADOBE PHOTOSHOP CS4 or better

Use :Analysis of suspect machine/Hard disk which consist of photoshop related files.

Specification

- Creativity - graphics & image editing should be possible
- Language - Universal English
- License Type - Complete package
- License Qty - 1 user License
- Platform - Windows
- Min Supported Color Depth 16-bit (64K colors)
- Should supply in a Media DVD-ROM
- Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
- Better after sale support

d. DTP Software - Adobe Pagemaker 8 or better

Use

Analysis of suspect machine/Hard disk which consist of DTP related files.

Specification

- Should be Efficient in Print/Desktop Publishing
- License Type : Full Product
- Media Format CD-ROM / DVD
- Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
- Better after sale support

e. Password cracker - Passware kit Forensics Ver.9

Use

Find passwords and analysis of password protected files

Specification

- The Kit should recover all kinds of passwords for the world's most popular office application files, including Excel, Word, Windows XP/2000/NT/Vista, QuickBooks, Access, FileMaker, Outlook, Outlook Express, Exchange, WinZip, PKZip, ZIP, WinRAR, Network Connections, SQL, BestCrypt, OneNote, PowerPoint, VBA Visual Basic modules, 1-2-3, Internet Explorer, EFS - Encrypted File System, Acrobat, Quicken, Lotus 1-2-3, Lotus Notes, Lotus Organizer, Lotus WordPro, Quattro Pro, Backup, Project, MYOB, Paradox, ACT!, Mail, Schedule+, Money, WordPerfect, WordPro and more.
- This solution should report all password-protected items on a computer and gains access to these items using the fastest decryption and password recovery algorithms.
- Advanced acceleration methods should be available with the application to recover difficult passwords.
- The password recovery process should be the most precise and should use quickest decryption solutions or better.
- All password recovery modules and Encryption Analyzer should be combined to all-in-one user interface
- It should include Search Index facility to retrieve electronic evidence quickly from a Windows Desktop Search Database
- Minimum 8 different attack types (and any other combination of them) could be set up using a wizard or drag & drop facility
- All recovered passwords are to be saved and ready to be reused on other files

Training

The vendor should provide required training free of cost

Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years

Better after sale support

f. Rainbow Table Password cracker - Detail specification for this item not available

g. Net Force Suite developed by C-DAC (NeSA)

Use:-NeSA is an offline network packet analysis tool. Its main use is TCP session recreation. By using NeSA, TCP sessions in a network packet dump can be recreated, thus it is possible to recover the files transferred through it. NeSA supports "pcap" formatted packet dump file, i.e. it is possible to load packets captured using standard tools like Wire shark. Main features of NeSA are

- Supports pcap formatted dump file
- Recreates TCP session and recovers files form HTTP, SMTP, POP3 and FTP
- Regular expression based search capability in packet level as well as in TCP session level
- Powerful and flexible filter to filter TCP sessions and packets. Expression can be formed based on Date, Time, IP, MAC and Port
- Integrated Image and mail viewer.
- File and packet export facility

NeSA Minimum Requirements

- Operating System – Windows 2000/XP/Vista
- RAM – 512 MB or above
- HDD – 100 MB Minimum

h. CorelDraw Graphics Suite X3 (full version)

Analysis of suspect machine/Hard disk which consist of coral draw related files.

Specification

- It should be a Creativity application able to create graphics & image editing Software
- License Type : Complete package
- License Qty : 1 user License Pricing
- Standard Platform : Windows
- Distribution : Media CD-ROM
- Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
- Better after sale support

Cyber Forensic Analysis Tool-Hardware

a1. FREDDIE

Use

Portable Device for acquiring digital evidence in scene of crime.

Specification

- 14" High (Approximate), 17 1/4" Wide (Approximate), 10 1/4" Deep (Approximate) - Approximately 55 lbs
- **ATX Aluminum Portable Case (1-3½, 4-5¼) with 480W ATX power supply**, Internal speakers, 17 " Active TFT LCD Video Display Panel, and Integrated Windows Keyboard w/Touchpad

- **Core 2 compatible Motherboard** with Intel X38 Chipset
- **Intel Core 2 Quad Q8200 CPU (Quad Processor), 2.33 Ghz, 1333 Mhz FSB or better** (Upgradeable on Request)
- **2 x PCI-Express (x16), 1 x PCI-Express (x1), 2 x PCI (32), 1 x PCI-X Slots**
- **4 GB DDR2-800 Dual Channel Memory** or higher
- **PCI-Express Video Card (512MB)** with Dual Monitor Output
- **Dual 10/100/1000 Mbs Gigabit Ethernet Network Adapters**
- **8 Channel High Definition Audio Controller**
- **6 port (6 Drives) Primary 3.0 Gb/s Serial ATA (SATA) Controller** (RAID Capable)
- **4 port (4 Drives) Secondary 3.0 Gb/s Serial ATA (SATA) Controller with 2 Internal and 2 External (eSATA) Ports** (RAID Capable)
- **1 Port (2 Drives) DMA 66/100/133 Parallel ATA (IDE) Controller**
- **8 USB 2.0/1.x Ports**
- **1 FireWire IEEE 1394b (800 MB/s) Port**
- **1 FireWire IEEE 1394a (400 MB/s) Port**
- **Ultra 320 SCSI Controller** (Narrow, Wide, Ultra, Ultra160, Ultra320)
- **Digital Intelligence UltraBay Hardware Write-Blocker:**
 - Integrated IDE Drive Write Blocker
 - Integrated SATA Drive Write Blocker
 - Integrated SCSI Drive Write Blocker
- **Digital Intelligence UltraBlock USB Write Blocker**
- **Digital Intelligence Forensic Media Card Reader** - One Switchable Read-Only/Read-Write (MSC, MS Pro, SMC, CFC, MD, XD, SDC, and MMC Memory Card compatible)
- **2 x 500Gb 7200 RPM 3.0 Gb/s SATA Hard Drives** in Trays or better
- **2 x Native Shock Mounted SATA Removable Hard Drive Bays** (IDE Capable) or better
- **DVD ± RW/CD ± RW Dual-Layer Combo Drive**
- **3½" Floppy Diskette Drive** with Write Protect Switch
- USB Mouse and Keyboard
- Warranty – Minimum warranty 3 year.
- Best after sale service

Toolbox Containing

- **Adapters, Terminators, and Cables:** All the necessary cables, adapters, and terminators to image and process internal/external SCSI drives, 1.8 inch IDE (iPod) drives, 2.5 inch IDE (laptop) drives, and 3½ and 5¼ inch IDE drives.
- **Digital Intelligence Forensic Media Card Readers:** Read-Only Hardware Write Blocked and Read/Write Selectable (MSC, MS Pro, SMC, CFC, MD, XD, SDC, and MMC Memory Card compatible)
- **Digital Camera:** Useful to document your suspects environment and hardware.
- **Security Screwdriver Set:** A varied assortment of popular security bits for opening computer enclosures that may have been locked down in a corporate environment

Software

- **MS-DOS 6.22** (Pre-Installed & Configured)
- **Microsoft Windows 98SE Standalone DOS** (Pre-Installed & Configured)

- **Microsoft Windows XP Pro** (Pre-Installed & Configured)
- **Suse Linux Professional** (Pre-Configured)
- **Norton GHOST**
- **Nero DVD/CD Authoring Software** DriveSpy, Image, PDWipe, PDBlock, PART
- **Windows Microsoft Windows XP Pro Licensed version on CD/DVD Media**
- **Microsoft Office Pro 2007 Licensed version or better on CD/DVD media**
- **All Drivers on CD /DVD Media**

a2. FRED

Use

Used to acquire digital evidence.

Specification

FRED's standard Core 2 Quad Processor is SIGNIFICANTLY faster than the Pentium D or even Pentium Extreme processors despite the fact it has a lower clock speed. Even the E6300 1.86 Ghz processor is about 11% faster (Sysmark 2004) than the Pentium D 3.4Ghz.

- 22 1/2" High (24 3/8" w/Wheels) , 9 1/4" Wide, 22 1/2" Deep - 70 lbs (all approximate)
- ATX Aluminum Server Case: 12 x 5 1/4" (approximate)
- 1100W Modular Power Supply
- Core 2 compatible Motherboard with Intel X38 Chipset or better
- Intel Core 2 Quad Q8200 CPU (Quad Processor), 2.33 Ghz, 1133 Mhz FSB or better (Upgradeable on Request)
- 2 x PCI-Express (x16), 1 x PCI-Express (x1), 2 x PCI (32), 1 x PCI-X Slots
- 4 GB DDR2-800 Dual Channel Memory or above
- PCI-Express Video Card (512MB) with Dual Monitor Output
- Dual 10/100/1000 Mbs Gigabit Ethernet Network Adapters
- 8 Channel High Definition Audio Controller or better
- 6 port (6 Drives) Primary 3.0 Gb/s Serial ATA (SATA) Controller (RAID Capable)
- 4 port (4 Drives) Secondary 3.0 Gb/s Serial ATA (SATA) Controller with 2 Internal and 2 External (eSATA) Ports (RAID Capable)
- 1 Port (2 Drives) DMA 66/100/133 Parallel ATA (IDE) Controller
- 11 USB 2.0/1.x Ports: 8 Back Mounted, 3 Front Mounted (1 Write Blocked)
- 2 FireWire IEEE 1394a (400 MB/s) Ports: 2 Back Mounted
- 3 FireWire IEEE 1394b (800 MB/s) Ports: 1 Back Mounted, 2 Front Mounted (1 Write Blocked)
- Ultra 320 SCSI Controller (Narrow, Wide, Ultra, Ultra160, Ultra320)

- Digital Intelligence UltraBay Hardware Write-Blocker:
 - Integrated IDE Drive Write Blocker
 - Integrated SATA Drive Write Blocker
 - Integrated SCSI Drive Write Blocker- Integrated USB Write Blocker
 - Integrated Firewire IEEE 1394b Write Blocker
- Digital Intelligence Integrated Forensic Media Card Reader - One Switchable Read-Only/Read-Write (MSC, MS Pro, SMC, CFC, MD, XD, SDC, and MMC Memory Card compatible)
- 2 x 500Gb 7200 RPM 3.0 Gb/s SATA Hard Drives in Shock-Mounted Trays or better
- 2 x Native Shock Mounted Serial ATA (SATA) Removable Hard Drive Bays or better
- 3 x HotSwap Shock Mounted Universal (IDE/SATA compatible) Removable Hard Drive Bays or better
- DVD ± RW/CD ± RW Dual-Layer Combo Drive or better
- 3½" Floppy Diskette Drive with Write Protect Switch
- Extendable/Retractable Imaging Workshelf with Integrated Ventilation
- 104 USB Key Microsoft Keyboard
- USB Mouse
- 22" Widescreen LCD Monitor with Built-in Speakers

Warranty – Minimum warranty 3 years

- Best after sale service

a3. Voom Shadow -2:

Use : Boot suspect machine in live mode without tampering digital evidence.

Specification

1. It should re-direct all writes to itself, at the host-to-drive physical interface level.
2. The investigator could 'Zero' the Shadow 2 at any time, so that he can begin again quickly.
3. It should help the investigator to boot and view a suspect's system on site, without threat of altering the evidence on the boot drive.
4. It should give the investigator the ability to install investigative tools to examine the suspect drive without ever changing the original.
5. It should be capable to boot and view the suspect system just as the suspect sees it.
6. Should be Portable
7. Capability to preview a drive prior to imaging in the field'
8. Capable to boot the suspect client and connect to their network as an investigative tool
9. Repeatable clean investigation of a suspect computer from the operating system perspective
10. Lab tool to view the suspect system without imaging or altering data

11. Can use multiple Shadows in a single system to view all hard drives in a single computer safely
12. It should work with any operating system and any software on the native system.
13. There should not be a need to load a software onto the suspect system to run Shadow 2
14. Enable investigators, juries and judge to see first hand what the suspect sees, without damaging or altering EVIDENCE

Training

- Should provide required training free of cost
Warranty – Minimum warranty 3 years
- Better after sale support

a4. Voom HardCopy 3

Use

Imaging digital evidence storage media

Specification

- Image SATA drives at up to 7.5 GB per minute or better
- Image to 2 drives simultaneously
- Wipe up to 2 drives simultaneously
- Single pass or Two pass verify
- Store entire images in single ISO (dd type files, also called flat files) file for ease of investigation.
- Option to chunk data into multiple files for ease of archiving. CRC on each chunk, and SHA256 to ease forensic validation of the data
- Automatically images Host Protected Areas
- Image laptop/SATA/PATA drives

Training

- Should provide required training free of cost
Warranty – Minimum warranty 3 years
- Better after sale support

a5. LOGICUBE PORTABLE FORENSIC LAB TALON KIT

Use

Portable Device for Imaging the Digital Data.

Specification

- It should be capable simultaneously images and verifies data at up to minimum 4 GB.
- Capable to capture IDE/UDMA/SATA drives, and can capture SCSI drives via USB cable.
- Capable to capture directly from desktop/laptop PCs and MAC computers (via PC interface)

- Adapters for capture from 1.8", 2.5", and compact flash drives etc should be available.
- Capable to DD imaging and MD5 or SHA-256 authentication
- Suitable to select varying "DD" image sizes, such as 650 MB, 2 GB, and 4 GB etc.
- Facility for advanced Keyword Search
- Capacity to search for hundreds of words while capturing at full speed.
- Capability / facility to store multiple groups of pre-defined keyword lists on compact flash.
- Facility to search for suspect names, phone numbers, and any other incriminating information. Add new words while in the field, using the built-in keypad.
- Facility for transparent examination leaving no trace
- Capable to use with any IDE host to prevent inadvertent hard drive overwriting
- Capable to protect any hard drive from inadvertent overwriting or intrusion
- Capable to protect servers & website against hackers (logs hacking or access attempts)
- Capable to Use between motherboard and IDE hard drive
- Adapters to Use between PC and external IDE hard drive through USB
- Capable to Use between hard drive duplicator and IDE hard drive
- Adaptor to Use between duplicator and PC or laptop through USB
- Capable to Hi-speed Data Capturing
- It should use MD5 or SHA-256 Authentication
- Supply in a airtight, waterproof case for field operations which can provide room for the forensic capturing unit, storage pockets for drives and cables, and a thermal printer.
- Free Software Updates & Technical Support
- Free lifetime software updates & phone technical support.
- Ensure unidirectional Data Transfer - Copies only from the external data source to prevent inadvertent over-writing or corruption of a suspect's drive.
- All adaptors and cables for all interfaces
- Training should be provided by the vendor/supplier
- Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
- Better after sale service

a6. Mobiledit Forensic Complete Solution

Use : Portable Device for acquiring and analyzing mobile phone.

Specification

- SOFTWARE: One license.
- USB CABLES for all models of phones: Like CA-101 microUSB generic, PEBL U6 miniUSB generic, LG 7020, L 5400, LG KG90, MOT V60, NOK DKU-2, NOK DKU-5, NKI 6110, NOK 6030, TREO 700W, SIM C25, SIM C65, SAM S300/S308, SAM

E700, SAM D800, SAM D500, SAM U700, SHP GX30, SHP GX10, SE K750, SE T39 and all other latest mobile phone hand sets.

- SIM CARD READER: Ultra slim casing. USB full speed device (12Mbps), PC/SC, supports all ISO 7816 compliant MCU cards and synchronous cards.
- IrDA: high speed, plug&play, SIR, MIR, FIR modes
- Compatibility of the system with the latest mobile phone hand sets to be demonstrated using mobile phone hand sets other than brought by the vendor/supplier
- The product should be able to deal with the mobile phone hand sets on Forensic procedures like write blocking, Hashing etc for admissibility of evidence before a court of Law.
- The product should be able to retrieve deleted files if it is not over-written.
- Sturdy Carry Case: organized place to store and move cables. Including compartment labels as well as a complete printed list of compatible phones.
- Warranty – Minimum warranty 3 years with better after sale support

a7. UFED RUGGEDIZED

Use : Portable Device for acquiring mobile phone and PDA.

Specification

Should be portable, field proven forensic system for the quick extraction and analysis of cell phones, Smartphones and PDA devices.

Power Supply:	Input: AC 100-240V, 50/60Hz / Output: DC 15V, 2A
Dimensions (LxWxH):	217mm x 124mm x 77mm Approximate
Interfaces:	RJ-45 (Serial) (for source and target phone) USB (for source and target phone) IrDA (for source and target phone) Bluetooth Mini DIN to PC COM Port Mini-USB extension SIM / USIM reader Mini SD Card reader Ethernet/Internet port
IRDA :	Both Infrared transceiver modules support STD IrDA speeds (up to 115kbps)

Ethernet controller: LAN91C111, 10/100MBPS Ethernet- controller, and an 8KB packet buffer SDRAM

CPU: Intel XScale micro-architecture or equivalent

CPU frequency: 520MHz or higher

Bus frequency: 104MHz or higher

Internal Memory: 128MByte (RAM) or higher

Flash Memory: Intel Strata Flash embedded memory min. 64MByte Density or better

Operating System: Microsoft Windows CE or better

Operating Temperature: 0°C to 70°C / 32°F to 158°F

Storage Temperature: -40°C to 80°C / -41°F to 176°F

Maximum relative humidity: 95%

Warranty – Minimum warranty 3 years with better after sale support

a8. Mobile phone Jammer

1. Should be a branded item
2. Should be easy to handle
3. Should able to Jam all Cellular Systems
(GSM / CDMA/ CS / TDMA / DCS / PHS/ AMPS / NMTP / Nextel etc)
4. Frequency Coverage

CDMA	870~880 MHz
GSM	930~960 MHz
DCS	1805~1850 MHz
PHS	1900~1915 MHz
AMPS NMTP Nextel TDMA	As per the frequency range of the system in India

5. Power Supply : AC 180 - 220V 50 Hz or DC 5V – 12V
6. Man portable preferably in a suit case
7. Jamming Range : At least 100 Meter in radius
8. Remote Control : Option should be available for Direct or Remote Control
9. 3 Omni Swivel type 360 degree rotary adjustment and 90 degree adjustment or

better

10. Sound and vibration proof.
11. Storage case and easy to carry (like a suitcase)
12. Three year warranty
13. Better after sale service

a9. FORENSIC WRITE BLOCK MEMORY READER

Use : Write block memory cards

Specification

- Should be fully Plug and Play
- Facility for High Speed USB 2.0 connection and backward compatible to USB 1.1
- Capability to Read and write to different popular digital media like CF-I, CF-II, Smart Media, Memory Stick, Memory Stick PRO, Memory Stick DUO, Memory Stick PRO DUO, Micro Drive, Multimedia Card, Secure Digital Card, MINI Secure Digital Card, XD card etc
- Capable to read / write to and exchange data among minimum four different media simultaneously
- Minimum data throughput up to 480 Mbits/sec with USB 2.0 model

SHOULD BE CAPABLE TO READ

- Compact Flash Card (CF)
- Mini Disk (MD)
- Memory Stick (MS)
- Memory Stick Pro (MS Pro)
- Smart Media Card (SM)
- xD Memory card (xD)
- Secure Digital Media Card (SD)
- Multi Media Card (MMC)
- In addition, with the use of adapters the card reader should support TransFlash Mini SD and Micro SD card formats.
- Should support: Windows 98SE, ME, 2000, XP, Mac OS 8.6 or higher
- Size small enough to fit in more jacket pocket
- Warranty – Minimum warranty : 3 years
- Better after sale service

a10. Faraday Bag

Use : To Preserve evidence in mobile phones

'Faraday Bag' is an antistatic bag is a bag used for shipping (usually electronic) components, which are prone to damage caused by electrostatic discharge.

a11 Digital SLR Camera 12MP With Live View

Use : Photographing minute forensic details. (Live Computer, Physical condition of MO's, Scene of crime etc)

Specification

Digital SLR Camera Body, EF-S Mounting Type Lens with compatible Polarizing filter , External flash, Branded rechargeable Battery, Branded Battery Charger, Branded carry bag and Tripod are required

Specifications:

Branded

A. Digital SLR Camera Body

1. 12 Mega pixels or above
2. Proper dust control, live view, and flash.
3. MP CMOS sensor
4. Min 9-point wide-area AF
5. Integrated Cleaning System
6. Min 3.0" LCD with Live View mode
7. Large, bright viewfinder
8. 3.5 fps shooting or better
9. Min 9-point wide-area AF
10. Warranty – Minimum warranty : 3 years
11. Better after sales service

B. Digital SLR Camera Lens

1. Lens: 55-250mm Telephoto Zoom Lens/CarlZeis or better
2. Special Functions: Tele, macro, zoom etc
3. Focal Length: 55 mm - 250 mm
4. Lens Aperture: F/4.0-5.6 or better
5. Optical Zoom: 4.5 x or above
6. Magnification: 0.31 or better
7. Image Stabilizer: Optical
8. Min Focus Range: 3.6 ft or better
9. Focus Adjustment: Both Automatic and manual
10. Zoom Adjustment: Manual and Auto
11. Lens Construction: 10 group(s) / 12 element(s)
12. Filter Size: 58 mm
13. Diaphragm Blades: 7 or more
14. Lens Coating: Super Spectra coating
15. Mounting Type: EF-S
16. Polarizing filter, Lens mount/hood
17. Better after sales service
18. Warranty Minimum warranty : 3 years
19. Better after sales service

C. External Flash

1. E-TTL operation with all Digital SLRs
2. TTL operation with all SLRs
3. Guide No. 190 (at ISO 100)/58 Mtrs
4. Flash Head Min. 105 mm
5. Facility for Zoon Setting

6. Minimum 700 flashes with fresh AA batteries
7. Auto focus assist beam
8. Min. 14 Speed light custom functions – built in
9. Set on speed light LCD panel
10. Power source : Branded Rechargeable battery
11. Optional external power supply
12. Dust and water resistant
13. Ability to control flash functions and settings from the camera menu.
14. Branded carry case
Warranty – Minimum warranty 3 years
15. Better after sales service
D. Accessories to be supplied
 1. Branded rechargeable battery
 2. Branded External Battery charger for SLR camera
 3. Tripod Stand
 4. Branded Camera bag
 5. One Spare battery (branded)
 6. 5 GB SD Card

a12. Digital Video Camera with Hard disk as recording media

Use

Can be used to record and preserve the examination process and produced before the court, if required. (Live Computer)

Specification

1. Branded Equipment
2. Record 1920x1080i Full HD video to a built-in 80GB hard disk drive. With Face Detection and Smile Shutter technology, Optical Steady Shot and 2.7 (6.9 cm) touch panel LCD.
3. HD Recording Format : AVCHD (1920 x 1080i)
4. HD Video Codec : MPEG-4 AVC / H.264
5. SD Recording Format : MPEG-2
6. Media Storage Type : 80GB Hard Disk Drive
7. HYBRID / HYBRID Plus : HYBRID (Movie recording on Memory Stick)
8. Image Sensor Type : 1/5 "Exmor" CMOS Sensor with ClearVid array
9. Image Processor Type : BIONZ
10. Lens / Filter Diameter : Carl Zeiss Vario-Tessar / 30mm
11. Optical / Digital Zoom : 10x / 120x
12. x.v.Colour : Yes
13. Audio Format : Dolby Digital 5.1 Creator (5.1ch.)
14. LCD Screen Size & Type : 2.7 (6.9 cm) (Wide 16:9) Clear Photo LCD Plus (921K Dots) with Touch Panel
15. Maximum Still Image Resolution (Photo Mode)

- a. : 4 Mega Pixels (2304 x 1728 pixels/4:3)
- 16. Dual Rec Image Resolution: 2.3 Mega Pixels (2016 x 1134 pixels / 16:9) / 1.7 Mega Pixels (1512 x 1134 pixels / 4:3)
- 17. With all accessories like sturdy kit, cables, chargers etc
- 18. Warranty – Minimum warranty 3 years
- 19. Better After Sales Service

a13. Spy Camera sensor

Can be used for detection of spy camera in a scene of crime environment

Specification

1. Branded Equipment
2. Power : 6V DC (CR2032 lithium battery X2)
3. Detecting Frequency: 50 MHz - 3.0 GHz
4. Warning Mode : Sound and LED Display
5. Professional use
6. Should work on most camera types: CCTV, Digital, Auto Focus, Camcorders, and Pinhole.
7. Spare Battery to be provided
8. Warranty – Minimum warranty 3 years
9. Better after sale service

a14. Spy Camera

Use

It can be used for detecting the crime activities secretly during the course of examination of computer crime scenes by the experts. (Secretly securing passwords, visited sites etc)

Specification

1. Branded Equipment
2. Hidden spy pen camera with a tiny pinhole camera lens
3. Pen Minimum illumination (makes it ultra-discreet)
4. Strong pen clip so you can safely attach to jacket or shirt pocket
5. Pen spy camera with a quality color CCD camera. (* No Audio)
6. Pen built-in transmitter wireless 2.4 Ghz (300 ft. L.O.S. range)
7. Pen power GPA76 alkaline batteries
8. Pen optional power 9 V battery attachment. Portable DVR receiver built in Internal Flash memory 64MB
9. Rechargeable Li-ion battery for receiver, monitor & recorder DVR
10. Wireless pinhole CMOS color security camera with a rechargeable battery built inside and 2.4Ghz compatible transmitter.
11. USB computer connector.
12. Headphones.
13. Mounting bracket.

14. Warranty – Minimum warranty 3 years
15. Better after sales service

a15. Digital Voice Recorder

Use

It can be used for recording any relevant voice during the course of examination of computer crime scenes by the experts. (Live Computer)

Specification

1. Branded Equipment
2. Compact Size (not more than the length of an adult palm)
3. Adopting Flash Memory.
4. Recording Mode to be available
5. Long time Recording (Not less than 10 Hours)
6. Automated Power Break
7. VOS (Voice Operated Recording System) preferable
8. Search, Playback, telephone recording facility
9. Hearing Aid to be provided
10. Connectivity facility to computer and downloading files/folder from DVR to computer.
11. Portable External Storage Device (preferable)
12. Warranty – Minimum warranty 3 years
13. Better after sales service

a16. 40" High-Definition LCD TV

Use

Suitable for demonstration purpose to provide training

Specification

1. Screen size of minimum dimension 40"
2. HD/DVD ready
3. Minimum 175° viewing angle.
4. PC/DVD player/Digital Camera/VCR Connectivity.
5. In built surround sound
6. In-built swivel stand or connectivity to a swivel stand whenever required.
7. High Definition Multimedia interface(When connected to a PC,DVD player etc)
8. High Contrast Ratio & High Brightness.
9. High Resolution Picture.
10. Wall mounting accessories and TV stand should be provided
11. Computer interface connectors/cables should be provided
12. Best after sales service
13. Reputed Brand
14. (Any add on feature is welcome)
15. Warranty – Minimum warranty 3 years

16. Better after sale service

a17. TV Tuner card

Use

Take audio/video output from computer. Suitable for demonstrations to provide training

Specification

1. Branded equipment
2. TV Standards
 - ATSC (HDTV up to 1080i, SDTV)
 - NTSC (cable, over the air)
 - ClearQ AM (HDTV up to 1080i, SDTV)
3. Input
 - TV antenna input (F-connector/Coaxial)
 - FM antenna input
 - S-Video, Composite Video (RCA), Stereo Audio (2 x RCA)
4. Recording Formats
 - MPEG-1/2 , DivX®
5. Warranty – Minimum warranty 3 years
6. Better After Sale service

a18. Mini Hi Fi DTS system (Multi DVD Player)

Use

Suitable for demonstrations to provide training and in examination of CD/DVD

Specification

1. Branded equipment
2. 10000W P.M.P.O
3. 3 DVD with MP3 playback
4. 3 Disc Tray
5. Ex-change Play
6. X-trance Pro/X-Trance
7. Microphone Input/Volume
8. Digital Cinema Sound Virtual Multi Dimension
9. Dolby Digital/DTS
10. Dolby Pro Logic II
11. D-Light Sync
12. S-Master Digital Amplifier
13. 25cm Subwoofer with Massive Bass System
14. Advanced Horn Tweeter
15. DVD/VCD/CD/CD-R/CD-RW/MP3/DivX Playback
16. DVD-RW/DVD+R/DVD+RW Playback Compatible

17. Dolby Digital/DTS Decoding
18. Full Karaoke Function
19. FM/AM Tuner with 30 Presets
20. Dual Tape Deck(Branded)
21. 5.1 Speakers including Subwoofer
22. + 1 Optical cable and adapter

Warranty – Minimum warranty 3 years

23. Better After Sales service

a19. 23-inch LCD Monitor

USE

To provide high resolution to view the minute details of images etc.

Specification

1. Branded Equipment
2. Monitor resolution of 2048×1152(QWXGA)
3. 16:9 aspect ratio widescreen LCD
4. 20,000:1 contrast ratio
5. Response speed of 5ms
6. Standby power, low-power design
7. Warranty – Minimum warranty 3 years
8. Better After Sales Service

a20. HDD (Internal) – IDE

Use

Ideal for imaging digital evidence storage media

Specification

1. Any branded item from a reputed manufacturer
 2. Capacity 250 GB
 3. RPM – 7200
 4. IDE data cable to be supplied
- Warranty – Minimum warranty 5 year.
5. Best after sale support

a21. HDD (Internal - IDE)

Use

Ideal for imaging digital evidence storage media

Specification

- Any branded item from a reputed manufacturer

- Capacity 500 GB
 - RPM – 7200
 - IDE data cable to be supplied
- Warranty – Minimum warranty 5 years
- Best after sale support

a22. HDD (Internal - IDE)

Use : Ideal for imaging digital evidence storage media

Specification

1. Any branded item from a reputed manufacturer
 2. Capacity 1 TB
 3. RPM – 7200
 4. IDE data cable to be supplied
- Warranty – Minimum warranty 5 years
5. Best after sale support

a23. HDD (Internal - SATA)

Use : Ideal for imaging digital evidence storage media

Specification

1. Any branded item from a reputed manufacturer
 2. Capacity 500 GB
 3. RPM – 7200
 4. SATA data cable to be supplied
- Warranty – Minimum warranty 5 years
5. Best after sale support

a24. HDD (2.5 inch – Portable & External with USB Power Supply)

Use : Ideal for imaging digital evidence storage media

Specification

1. Any branded item from a reputed manufacturer
 2. Capacity 500 GB
 3. RPM – 7200
 4. Power supply from USB
 5. USB cable to connect with the computer to provide power supply to be supplied
- Warranty – Minimum warranty 5 years
6. Best after sale support

a25. HDD (2.5 inch – Portable & external with USB Power Supply)

Use : Ideal for imaging digital evidence storage media

Specification

1. Any branded item from a reputed manufacturer
 2. Capacity 320 GB
 3. RPM – 7200
 4. Power supply from USB
 5. USB cable to connect with the computer to provide power supply to be supplied
- Warranty – Minimum warranty 5 years
6. Best after sale support

a26. Pen Drive with U3 launch pad

Use : Ideal for imaging pendrive

Specification

1. Any branded item from a reputed manufacturer
2. Capacity 8 GB or better
3. Warranty – Minimum warranty 3 years
4. Best after sale support
5. With U3 Antivirus License

a27. Pen Drive with U3 launch pad

Use : Ideal for imaging pen-drive

Specification

1. Any branded item from a reputed manufacturer
2. Capacity 16 GB or better
3. Warranty – Minimum warranty 1 year. Preference will be given If warranty is provided for 3 years
4. Best after sale support
5. With U3 Antivirus License

Tender No. 86/2011

Hand Free Wireless Telephones - Free head set compatible to Motorola portable hand held Trans receiver - GP 328/GP338.

1. Audio accessory head set should be included earpiece, ear set, PTT enabling mechanism and microphone for expanding instant Radio reception and transmission capabilities of GP328/GP338.
2. The earpiece/head set cradle should be comfortably attachable with ear/head to perform the tasks of Road traffic duty officers with no compromise on audio quality.
3. Should be provided with a thumb style PTT, compact microphone and adjustable garment clip.
4. Ear hook wraps headset shall provide added firm grip for moderate activity work operation of user.
5. To enable disable VOX feature, PTT press once/selector back to Radio PTT shall be available.
6. Head set/ear set microphone gain shall be adjustable through Radio program or a supplied program along with.
7. Software program if any shall be supplied in CDs or similar with user instructions etc.
8. Provide Six months replacement warranty for manufacturing defects.

Tender No. 87/2011

Binocular 50mmX7x (Marine)

- ❖ Maintain Optimum viewing quality regardless of weather conditions
- ❖ Water proof Binoculars – Weather proof not sufficient
- ❖ Auto focus features – Preferable
- ❖ Built in compass – Preferable as accessory
- ❖ 50mm objective lenses – Minimum needed
- ❖ Image stabilization (IS) - preferable

Tender No. 88/2011

GPS to Police Station Vehicles

The GPS used in Police Station Vehicles is mainly for Vehicle Tracking and it consists of the following modules:

1. Vehicle Mounted Unit (VMU)
2. Base Station Unit (BSU)
3. Software

All these three modules have to be installed and integrated by a suitable vendor having experience in this field. Hence project proposals may be obtained from suitable vendors or solution providers with minimum three on site support and minimum three year warranty for equipments. Vendor should also impart sufficient training for end users and system administrators. The general specifications are as follows.

I. Vehicle Mount Unit (VMU)

Specifications

- Position acquisition from GPS
- Communication through GSM network
- Voice communication to predefined numbers
- Facilities like Pre-programmed messages to base station through key press
- Local storage for non-coverage area
- Integrated Vehicle Power Source compatible power supply
- Easily mountable module and antennas
- Front panel LCD Display
- Status LED for
 - Power
 - GPS Status
 - GSM Status
- VMU Message Structure
 - Time
 - Latitude
 - Longitude
 - Date
 - Month
 - Distance Traversed

Details of Vehicle Mount Unit (VMU) are given below

a. GPS

1. Tracking Channels : 12 or more
2. Time-to-fix-first
 - a. Cold Start : 2 minutes
 - b. Warm Start : 20 Seconds
3. Position Accuracy : 10 meters or better
4. Position upgrade rate : 1 Second
5. Antenna : Active

b. GSM

1. Mode : GPRS / SMS
2. Data rate : 9600bps or higher
3. Antenna : Dual band passive

c. CONTROL ELECTRONICS

1. Processing element : Microcontroller
2. Architecture : GPS and GSM based
3. Diagnostic LED : Power, GSM Status and GPS Status
4. Front panel : Keyboard and LCD Interface
5. Serial Interface to : GSM/GPS
6. Firmware features : Position acquisition from GPS, Distance traveled computation, sends information over GSM/GPRS network at configured intervals, configurable messaging frequency, configurable Base Station, configurable voice call number, configurable call duration and reply to query for present location

d. HEADSET

1. Headphone
 - a. Frequency range : 20 - 20,000 Hz
 - b. Impedance : 32 Ohm
 - c. Maximum power input : 100 mW
 - d. Sensitivity : 118 d S.P.L at 1 KHz +/- 2%
 - e. Jack : 3.5 mm stereo
 - f. Length of cord : Approx. 2 M
2. Microphone
 - a. Frequency range : 30 - 16,000 Hz

- b. Impedance : 2.2K Ohm
- c. Maximum power input: 0.5mA
- d. Sensitivity : 0 dB=1 V/Pa at 1 KHz-68dB +/- 3dB
- e. Jack : 3.5 mm stereo
- f. Length of cord : 1.8m +/- 3%

e. POWER SUPPLY

- a. Input : 12V DC / 24V DC and capability to work on 12 V vehicle battery

- f. Operating Temperature : 0 to +55°C

II. Base Station Unit (BSU)

Base Station Unit comprises of the following modules

- a. PC with Serial interface
- b. GSM module, GPRS & Control electronics or equivalent
- c. Power Supply

III Software

a. System Specification

- 1. Operating System : Linux - RHEL4 or above
- 2. Language platform : Java
- 3. Database : Postgres
- 4. Web server : Apache Tomcat

- b. Base Station Software : Base Station software comprises of Server Software which collects the messages from the other Units and logs on to a database.

- c. Client Software - Client Software comprises of a Graphical User Interface for remotely configuring the Server.

The software should have the following features

- Signal Quality Representation
- Status indication of Message sent/received
- Configuration Module for sending configuration messages to VMU's
- Database Display Module
- Ask and Get position information
- Offline GPS Data updation
- Online speed and distance
- Speed history
- Database

Tender No. 89/2011

Speed Radar.

The purpose of the Speed Radar is to detect vehicles violating speed limits. The following are the major specifications for the equipment:

1. Distance measuring range should be 10 mts to 1800 mtrs.
2. Image capturing range (with legible number plate) should be 50 - 300 mtrs.
3. Tripod mountable radar so as to enable checking on the road and from inside a vehicle (in case of rain or lack of space to mount the tripod).
4. Automatic and manual measurement modes must be available.
5. Should be capable of measuring the speed of approaching or departing target vehicle.
6. Display Laptop should be from a reputed company with 2 GB RAM and 120 GB HDD or better. Reputed processor should be provided and integrated with the equipment.
7. Laser measuring time should be less than 0.3 second to enable to target many vehicles within a short span of time.
8. The Laser Speed Radar should be able to detect speed upto 150 Krn/hr.
9. Distance measurement accuracy should be + /-20 cms.
10. Speed Accuracy should be +/-2 km/hr up to 100 km Speed +/- 3 above 100 km speed,
11. Should have dual speed mode so as to set different speed limits for light and commercial vehicles. This should be switchable instantly by the operator.
12. Should work on durable and rechargeable batteries.

Specifications for Camera

13(i). Image data like measured speed, date, time (Hour, Minute, Second), measured distance, permitted speed limit, image of registration plate of vehicle and device serial no. used for capturing violation shall be displayed on the laptop and printed on the Offence Printout. The image data should be absolutely encrypted and shall be tamper free.

(ii) In-built memory capacity must be available to record atleast 3000

Speed measurements on to a built in HDD or Memory Card of

sufficient storage capacity downloadable later on to a Computer.

14. Registration Plate recognition via Image up to 300m is essential.

15. Optical zoom of image via software should be at least 10 X.

16. Flash Details for night time capture: Minimum illumination imaging:

(i) Should not perplex the driver.

(ii) Flash shall be an integrated part of Camera,

(iii) Flash unit shall not require separate power unit.

17. Laser reflecting Indicator should be both Acoustic and Visual.

18. Poor weather measurement mode should be workable in dusk/night time conditions with flash on.

19. Battery operating time should be a minimum of 4000 speed measurements or 18 hours from battery pack.

20. Stored data shall be tamper proof with 128 bit or better encryption.

21. The equipment should be Compact in size and ergonomic for the user.

22. Weight of the camera including Laser measuring device shall not be more than 3 Kg.

23. Operating Temperature should be upto 60 degree Centigrade.

24. Measuring device shall meet requirements of Laser Class 1 Standard.

25. Picture resolution should be at least 5 Mega pixels.

26. Monitor should measure not less than 2.5" and should have a Colour LCD.

27. Power consumption should be 12 V -1 Amp maximum.

28. *Offence Printout Specifications*

(i) It should be possible to take on-the-spot colour printouts of the offending vehicle.

(ii) The printer should be Desk Jet-type and should not use expensive consumables. It should print-out on ordinary paper. It should be possible to refill the cartridge locally.

(iii) Customised printout for Kerala Police must be provided.

29. Flash Specification

(i) Type: Low light flash for unobtrusive illumination, max. 2 x 10 Watt.

(ii) Power: there should not be a necessity for additional supply.

(iii) Temperature: 0 degree C to 60 degree C.

(iv) Weight: Less than 2 Kg and should be integrated with Camera.

30. Minimum 3 years warranty with full replacement for battery, printer and laptop.

31. Company should quote the rate of comprehensive onsite AMC for 2 years after expiry of Warranty.

32. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.

33. Best after sales service: Availability of local service centre is desirable. The supplier should have well equipped maintenance office with qualified engineers for repairs/service. Supplier should have direct authorization from the OEM to participate in the tender. Necessary authorization documents should be made available in this regard. The name of the OEM along with the contact telephone numbers, addresses, fax numbers and e-mail address may be made available for reconfirmations with the OEM about the status of the supplier.

Tender No. 90/2011

Alcometer

1. Breath Analyzer/ Alcometer should be based on Electro Chemical Fuel Cell Technology. It should be based on mainstream technology and not on side stream technology where in the whole breath sample is sent to the sensor.
2. Accuracy is + or – 5 mg/100ml
3. Working temperature is between 10 to 50 Degree Centigrade
4. Breath Analyser should take automatic or manual breath sample
5. Duration of sample taking should be between 3 to 6 seconds. Adjustable blowing time for testing subjects with poor lung capacity or for testing subjects with a large lung capacity is preferable.
6. Breath Analyser should have a memory to hold min. 10000 measured values with date and time on FIFO basis. It should be possible to statistically evaluate the data for MIS reporting
7. Test should be done with disposable one sided and hygienic (with non return valve) and straw as well as to save costs.
8. Breath Analyser with rechargeable battery and external charger unit is preferred.
9. Breath Analyser should be able to run on a dot matrix integrated printer requiring minimal maintenance with built in battery capable of at least 100 printouts with a single charge. It should also be possible to connect the printer to a 12 V car battery for continuous usage. The printer should use inexpensive paper (not thermal paper) available in the local market.
10. It should be possible to detect mouth alcohol in non co-operative suspects instantly using passive test, to randomly screen suspects before subjecting them to breath alcohol testing.
11. Breath Analyser should be hand held and is to be run on inexpensive AA type batteries, which lasts for at least 1000 tests.
12. Breath Analyser should not be affected by Acetone, Paint, etc.
13. Breath Analyser should be able to detect Alcohol up to 500 mg/100 ml
14. The response time is 5 to 45 seconds for a negative or positive test respectively at 0 or 500mg/100ml.
15. Breath Analyser should be handy, portable, user friendly and easy to operate.
16. The manufacturer should have ISO certification.
17. The breath analysers should have been already in use in any Police or similar Department for at least a period of 1 year as on date of quoting
 - Minimum three years warranty
 - Company Should quote the rate of comprehensive onsite AMC for 2 years after expiry of Warranty.

- Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
- Best after sales service. Availability of local service centre is desirable. The supplier should have well equipped maintenance office with qualified engineers for repairs/service. Supplier should have direct authorization from the OEM to participate in the tender. Necessary authorization documents should be made available in this regard. The name of the OEM along with the contact telephone numbers, addresses, fax numbers & email address may be made available for reconfirmations with the OEM about the status of the supplier.

22. The equipment should be stamped/pasted "KRSA".

Tender No. 91/2011

Tent

Tent 360 LBS (Double Fly General Service Tent)

Dimension	: 20ft X 16ft
Material	: Water Proof Canvas Khaki IS: 6803
Side wall height	: 5.5 ft
Centre Height	: 10.5 ft
Fabric	: Made from 2 folds of cloth of canvas water proof khaki as per IS:6803 with lining of dark blue sheeting for outer fly and hoods buff sheeting for the inner fly walls and purdhas.
Poles	: Tainted Bamboo poles with metal caps
Accessories	: Light weight metal pegs, mallets, pins and hammers packed in salita water proof with tying ropes cotton.
Ground Sheet	: HDPE 150 gsm/Canvas 450 gsm

Tent 180 LBS (Double Fly General Service Tent)

Dimension	: 14ft X 14ft
Material	: Water Proof Canvas Khaki IS: 6803
Side wall height	: 2 ft
Centre Height	: 7 ft
Fabric	: Made from 2 folds of cloth of canvas water proof khaki as per IS:6803 with lining of dark blue sheeting for outer fly and hoods buff sheeting for the inner fly walls and purdhas.
Poles	: Tainted Bamboo poles with metal caps
Accessories	: Light weight metal pegs, mallets, pins and hammers packed in salita water proof with tying ropes cotton.
Ground Sheet	: HDPE 150 gsm/Canvas 450 gsm

Tent 80 LBS (Double Fly General Service Tent)

Dimension	: 14ft X 7ft
Material	: Water Proof Canvas Khaki IS: 6803
Side wall height	: 2 ft
Centre Height	: 7 ft
Fabric	: Made from 2 folds of cloth of canvas water proof khaki as per IS:6803 with lining of dark blue sheeting for outer fly and hoods buff sheeting for the inner fly walls and purdhas.
Poles	: Tainted Bamboo poles with metal caps
Accessories	: Light weight metal pegs, mallets, pins and hammers packed in salita water proof with tying ropes cotton.
Ground Sheet	: HDPE 150 gsm/Canvas 450 gsm

Tender No. 92/2011

Traffic Cones

1. Should be single piece made of PVC/Synthetic rubber/natural rubber.
2. Strong and Stable construction with UV stabilized bright fluorescent Orange and/or Red colour for high visibility.
3. Material must be flexible, durable and impact proof (vehicle-hits should not break the cones or damage the vehicle).
4. For night visibility and long sight detection retro-reflective sleeves of minimum 8" must be provided.
5. Should be easily deployable, stackable and have a provision to interconnect with other cones to act as a barricade.
6. Height should be around 925(+/-25) mm and have a Square base with each side measuring 375(+/-15) mm
7. Weight should be about 3.5 Kg to 4 Kg.
8. 'TRAFFIC POLICE' must be embossed or stickered on the cone.
9. Should be visible from a distance of about 500 mts during the day time and from atleast about 150 mts during heavy tropical rain.
10. Should have retro reflective weather proof tapes on the cones for high visibility.
11. Minimum three years warranty with full replacement is required.

Tender No. 93/2011

Retro Reflective Jackets

The purpose of the Reflective Jacket is to ensure high visibility of the duty police personnel during night.

1. The fabric should be made of nylon or polyester mesh, which can be washed easily.
2. Colour of the mesh should be fluorescent Greenish yellow.
3. It should have PVC prism sheet strongly stitched in the front as well as back, running from shoulder to waist from either side. Similar PVC prism sheet should be provided at the waist level.
4. Opening of the jacket should preferable be on the side, with Velcro type fastening.
5. Letters 'POLICE' should be written with reflective material in the front and back.
6. Should be available in free size.
7. Warranty should be for a minimum period of 2 years or more with full replacement.

Tender No. 94/2011

Prefab Barracks

Features

- Portable
- Easy to erect & dismantle
- Weather independent
- Complete electrical wiring
- Pre laminated PVC section
- Properly ventilated

Technical Specification

Flooring : - 4" x 2" pine wood used for platform framework on which 19mm water proof ply is mounted bottom of the platform is protected with bituminous water proof coated. Load capacity of the platform is 100 kg/sq ft.

Walls :- Pre laminated PVC mounted on wooden/aluminium frame for side wall and cladded with water proof ply.

Roof :- Pre laminated PVC sheeting on wooden/aluminium frame work on outer side. Sufficient slop of roof for easy water drain.

Doors :- Pre laminated PVC doors with lock and hand rap size 6' .6' x 2' .2'

Windows:- Size 3' x 3'/4' x 3' MS powder coated/aluminium sliding windows

Height :- Double slope 8-10 ft from the centre and 7-8 ft from side depending upon the size of the cabin.

Colour : - Customized colours

Mounting :- Mounted on 8" x 6" x 4" cement block foundation

Assembling :- Easy to assemble using nut and bolt.

Tender No. 95/2011

Foot Operated Pump Sprayer

- 2 Meter long suction hose with strainer
- 5 Meter long delivery hose
- Pump Assembly fitted on Wooden platform with frame and hinge pins for coupling the pump.
- Develop sufficient pressure to operate with 2 discharge lines with any length of hose
- Suitable for spraying with Hyjet Gun or Bamboo Lance on tall trees.