

## **NOTE**

The items concerned being technology intensive equipments. It is likely that different OEMs may have products with specifications which are not uniform. In this context it is informed that the specifications mentioned are indicative of core requirements and that during evaluation and selection of the product, weightage will be given to performance and capability of the product under required conditions. However materially substantial variations in specifications are likely to lead to disqualifications.

### **Tender No. 18/2011**

#### **Mannequin-First Aid & Trauma Care training for Police Personnel**

The purpose of the Mannequin is to train Police Personnel in first-aid and basic life support in case of Accidents and Disasters. The mannequins are required for:

1. Training of basic life support and first aid.
2. Must be durable, rugged and life-like.
3. It must have a CPR module. Should have detachable and reusable mouth pieces. Disposable airways must be economical.
4. Should have correct head tilt/chin lift.
5. Must have manually generated carotid pulse.
6. Realistic articulation for application of cervical collars and splints/traction for application to spine must be available.
7. Must be rugged for indoor and outdoor scenario use.
8. Must be possible to enhance trauma scenarios with the addition of enclosed trauma modules.
9. Strong and durable Carry case should be provided for storage and transport is essential.

**Specialized Anti Skid Boots for Commandos**

1. It should be an Anti personnel Bomb protective footwear in all respects.
2. It should absorb large amount of force and protect the foot and leg
3. It should have protective insole from multi layers KEVLAR or better
4. It should facilitate for all day wear in complete comfort and mobility, while still providing protection
5. The company should produce certificates regarding level of protection and other test certificates regarding its quality.
6. It should come in various sizes
7. Warranty 3 years
8. Best after sale services

**Tender No. 20/2011**

**Night Vision Video Camera**

1. Format: Mini DV
2. Lens: 10:1 Optical Zoom, 120:1 Digital Zoom, f/1.7-2.2, f13.3-30mm, 30mm filter diameter
3. Image Sensor 1.4 inch, 680,000 gross pixel CCD
4. Viewfinder : 0.44 inch, color
5. LCD view screen : 3.5inch, color
6. Focus: Auto, manual
7. Maximum Shutter speed : 1/4000 sec.
8. Exposure : Auto, manual
9. Minimum illumination : 5 lux (also infrared night mode)
10. White Balance : Auto, indoor, outdoor, hold
11. Digital effects : 8 modes
12. Audio : 12-or 16-bit stereo
13. Inputs : IEEE 1394, S-Video, AV mini-jack, stereo mini-mic
14. Outputs : IEEE 1394, S-Video, AV mini-jack
15. Dimension: 3(w) 3X37/8(h) x 6 7/8(d) inches
16. Weight (Scan tape/battery): 1 lb. 6 oz.
17. Warranty – 3 years

## Tender No. 21/2011

### Digital Camera

- |    |   |   |
|----|---|---|
| 1  | Resolution  | Min. 8 Mega Pixel   |
| 2  | Optical Zoom  | Min. 8X   |
| 3  | LCD Panel   | Not less than 6 CM  |
| 4  | Internal memory   | Min 32 MB   |
| 5  | Flash unit  | Built-in  |
| 6  | Expansion Slot  | SD Card / SDHC  |
| 7  | Should be capable to capture both                       | Audio and Video   |
| 8  | Scene Modes   | Min. 20   |
| 9  | Power Source  | Li-ion Rechargeable Battery / Ni-MH Rechargeable Battery – 1 number with one hour   |
| 10 | Accessories to be supplied                              | 8 GB SD Card, Branded re-chargeable battery, Branded re-chargeable battery charger, branded Compact and sturdy carry case, Spare battery. |
| 11 | Warranty  | 3 years   |
| 12 | Best after sale service should be provided in Districts |   |

Slight variations from the quantifiable data as mentioned above can be considered and recommended if the item, overall, is fit for use in the Police Department.

**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
18. Minimum three years warranty
19. Company Should quote the rate of comprehensive onsite AMC for 2 years after expiry of Warranty.
20. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
21. 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. 23/2011

### Essential Training items

#### **1. Medicine Ball – 6 Nos.**

- The new medicine ball should offer a great option for strength Training that combines hand weight action with features of traditional medicine ball.
- Double grip rubber bouncing inflatable type.
- Textured rubber surface for extra grip, solid weighted rubber core.
- It should be 2,4,6 Kg weight.
- Diameter of 20 cm, 24 cm.

#### **2. Gymnastic Mat - 4 Nos.**

- This new enhanced mat should be an excellent device for gymnasium and multi purpose use.
- Material: EP foam covered with heavy duty durable nylon fabric reinforced corners.
- Size: 6 ft x 2 ft x 20 mm thickness
- Colour: Colour should be Blue/Green/Red

#### **3. PT Log - 3 Nos.**

Physical Training Log made of wood polished with blunt edges.

#### **Big**

- i). Length - 360 cm
- ii) Circumference - 48 cm
- iii) Diameter - 16 cm
- iv) Weight - 120 pds

#### **Small**

- i) Length - 214 cm
- ii) Circumference - 48 cm
- iii) Diameter - 16 cm
- iv) Weight - 60 - 90 pds

#### **4. Climbing Rope - 5 Nos.**

- Plain 12 cm circumference, 7 meter long complete with metallic heavy ring and leather bounded eyelet.
- Material: Sisal or jute

#### **5. Pace Measuring Stick - 3 Nos.**

- Used for teaching basic Training to RTPC's.
- Made of hard wood.
- Size: 30" height x 2" width x 1" depth
- Should have a triangle base, used for correcting 'attention position'.

- Should be of height of 30" used for correcting the marching step (30")
- Should have a 'T' shaped top of 12" length used for correcting 'Stand at ease" position.

## **6. Tug of war rope - 2 Nos.**

- Plain 12 cm circumference, 40 meter long both ends leather bound.
- Material: Sisal or jute

## **7. Training Stick - 9 Nos.**

- Training Stick is used for Bionet Training. Now Bionet is not allowed to TRPCs.
- This new Training Stick must act as an extension of the Trainers hand.
- The Training Stick is 6 ft long, flexible polished cane that has golf culb grip on one end and a leather strap on the other end.

## **8. Prismatic compass - 5 Nos.**

- Metallic coated case and foldable metal lid fitted with a glass window for sighting line etched into it.
- Liquid filled to prevent excessive oscillation of the magnet needle.
- Foldable rugged metal case for easy storage and transit.
- Bezel ring rotary glass dial with 360° scale adjustable.
- Adjustable lens prism, easy to read scale.
- Screw hole at base for fitting with tripod.
- Thumb ring for firm holding and neck strap.
- Size: 83 mm x 63 mm x 30 mm
- Net weight : 240 gm

## **9. R.A.T. (Recruit Aiming Teacher) - 10 Nos.**

- Made with sesham wood seasoned and polished.
- The three section tripod should have rapid adjust level locks for quick & easy operation.
- Size adjustable
- Complete with aiming rest, screw for slightly moving the rifle in any direction. Long wooden plank fitted on the aiming rest.
- Dummy rifles optional

## **10. Training Charts - 25 Nos.**

- Laminated with plastic clear film on both sides and god quality plastic roller
- Should be of sizes of 50cm x 75 cm x & 75 cm x 100 cm
- Arms series (Size 70 x 100 cm)
- Map reading charts
- General useful charts (Turn out & Basic drill, Road Traffic Signs etc. )

**11. Range Umbrella - 2 Nos.**

- Made of two layered multi coloured/single coloured cloth cotton or similar.
- Can be inclined at an angle.
- Diameter 210 cm.
- To be pitched on steel poles or iron ribs on pucca ground.

**12. 4x4 Target - 5 Nos.**

- Complete with all circles duly printed upper half grey and lower half ochre with black half bull's eye.

**13. Figure 2 Target - 15 Nos.**

- Official Police rifle & revolver competition target with circles as per the approved pattern.

**14. Figure 11 Target – 15 Nos.**

- New pattern with standing posture 114 cm duly printed.

**Tender No. 24/2010**

**Poly Carbonate Lathy**

1. It should be unbreakable – should withstand when hit on a firm object/surface
2. It should have Core Material of Fiber reinforced polycarbonate
3. It should have Outer Material of Rubber
4. It should be Light weight – Less than 400 Grams
5. It should be an effective deterrent.
6. It should not cause severe injuries/fractures
7. It should have long shelf life.
8. Both ends should be covered by rubber end caps fixed firmly
9. It should have Thong hole with thong (Nylon fine quality cotton or synthetic)
10. The material should be maximum scratch proof and darkish in colour
11. It should have Suitable Hand grip
12. Should not have any sharp/rough surface which may cause injury.
13. It should have three year warranty
14. Its dimensions should be

Length - 1 m ( $\pm 2$ mm)

Diameter - 25mm ( $\pm 3$  mm)

Wall thickness - 4mm ( $\pm 0.1$ mm)

**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. 26/2011**

**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. 27/2011**

**Modern Investigation Kit Box**

A kit box containing the following items is required. It should be in a container preferably in a brief case and should be easy to carry. All these items should be fixed or secured in the Kit box properly.

Sl. No.	Item	Nos.
1	Micro Cassette Recorder (of a Reputed Company)	1
2	Camera (of a Reputed Company)	1
3	Film Roll (of a Reputed Company)	1
4	Metal Torch (Medium Size) with battery	1
5	Compass	1
6	Diary	1
7	Hacksaw Blade with Handle	1
8	Screw Driver (Small)	1
9	Screw Driver (Big)	1
10	Reflex Screw Driver	1
11	Gloves	1 pair
12	Sketch Pen	3 Nos.
13	Brushes (No.1, No.6 and No. 10)	1 each
14	Soap	1
15	Insulation Tape	1 Roll
16	Cello Tape	1 Roll
17	Plaster	1 Roll
18	Stapler with Pin	1
19	Measuring Tape (Big & Small)	1
20	Combination Plier	1
21	Filler	1
22	Spoon small	1
23	Knife	1
24	Scissors	1

25	Tweezer	1
26	Pencil	4 Nos.
27	Marking Chalk	1
28	Blade	1 Packet
29	Twine	1 Ball
30	Polythene cover (big & small)	10 Nos. each
31	Plastic container (round & rectangular)	10 Nos. each
32	Sealing Wax	15 Sticks
33	Candle	2
34	Match Box	1
35	Weighing Machine (with weights)	1
36	Magnifying Lens	1
37	Plastic Plate	1
38	Blotting Paper	10 sheets
39	Gum	1 Bottle
40	Filter paper	50 Rounds
41	Cotton	25 gms
42	Duster	2
43	Battery (big & small)	4 each

#### FIRST AID ITEMS

1	Cotton	25 gms
2	Gloves	1 Pair
3	Bandage Cloth	Rolls
4	Methilated spirit	1 Bottle
5	Betadin ointment	1 Tube
6	Scissors	1
7	Neosprin	1
8	Artery Forceps	1
9	Dressing Pad 10 cm x 10 cms	1 Pad

**Tender No. 28/2011**

**SHAKING WATER BATH**

Temperature range: 20 – 99 degrees

Filling volume: 8 to 20 litres

Shaking frequency: 20 to 200

Shaking Stroke: 15 mm

Bath Size: 50 x 30 cms

Display resolution for temperature: 0.1 degrees

Display resolution for shaking: 1 rpm

Electronic timer

Key pad for adjustment of set point temperature, frequency and time

Audible signal for warning and cut off functions

Removable shaking carriage

Internal material: Stainless Steel

External Material: Stainless Steel Epoxy coated

Lid: Plexi glass/Stainless Steel

Warranty: 3 Years

**Tender No. 29/2011**

**DIGITAL REPROVIT UNIT**

1/3" CCD camera on stand

Base lights and cathode lamps

Built in storage of minimum 200 frames in the camera

External storage of 8 GB capacity (minimum)

Facility for three dimensional and two dimensional photography

Warranty: 3 Years

## **Tender No. 30/2011**

### **Boroscope**

Rigid Boroscope (Endoscope suitable for interchangeable objectives with adjustable focusing and carrying case)

- calibers from 4.4 to 12 Bore.
- Working Dia (mm) – 4.0 to 4.5
- Working Length (mm) – 620 to 650
- Lens Type: Achromatic/Gradient Index

Interchangeable objectives Screwable to basic unit of Borescope (Endoscope)

- Dia (mm) – 4 to 4.5
- Direction of view - 0°
- Field of View - 85°

Rotable objective sleeves for easy all round inspection, No mirror tube.

- Dia (mm) – 4 to 4.5
- Length (mm) – 650
- Direction of View - 90°
- Field of view - 85°

Extension tube for above 4mm Borescope (Endoscope) to extend the working length of the borescope

- Working dia (mm) – 4
- Length (mm) – 100 to 120

Cold Light Source –

- 150 W Halogen bulb
- Power Supply - 230 V , 50 Hz
- Weight – not more than – 1.6 KG

Light Guide Cable –

- Working length (mm)– 1800
- Actual diameter (mm) – 4.8
- Temperature resistance - 85°

### **Accessories for documentation & saving images**

1. Colour CCD Camera -

- Resolution - 380,000 pixels
- Adaptor / Endoscope coupling/camera mount – for the above Boroscope
- Focal length TV adapter -  $f = 23 \text{ mm}$
- White balance

2. Laptop suitable for connecting above boroscope for saving images & documentation.

Warranty: 3 Years

**VISCOMETER**

Required sample volume (ml)	:	2.5
Minimum solvent consumption (ml)	:	2.5
Typical solvent consumption (ml)	:	10
Volume of solvent bottles (L)	:	2x0.5
Maximum filling viscosity (mpa's)	:	2000

Sample through put (Maximum per hour):

a. Diesel fuel(fast test/ultra fast)	:	25(30)
b. Engine oil (fast test/ultra fast)	:	15(18)
c. 1000mpa's at 20° C Standard test	:	8.5(10)
d. Engine oil double determination standard test	:	7(8)

Reproducibility:

- a. Viscosity: 0.35% within the work adjustment range and 1% outside this range
- b. Density (Viscosity compensated): 0.0005 g/cm<sup>3</sup> from 0.65 -1.5  
0.0020 g/cm<sup>3</sup> outside the range
- c. Temperature: 0.02°C from 15°C to 105° C  
0.05° C outside this range
- d. Dynamic viscosity (mpa's) 2 bis 20000 viscosity 0.2%
- e. Density (g/cm<sup>3</sup>) 0.65 bis 3 Density 0.005°C
- f. Temperature 15°C bis 105°C Temperature 0.005°C

Hot filling attachment

- a. welded materials Copper, PTFE, PEEK
- b. Temp range For samples with a m.p of up to 80°C or  
(at 100 measuring temp): a maximum viscosity of 1000 mpa's at 80°C

Ambient condition	:	15° C - 35° C
Data memory/Modes	:	384 data sets/ 10 programable modes
Interfaces	:	Dual Rs 232, AT Key board
Power supply	:	100 – 240 V AC 50-60 Hz 75 VA Max

Warranty: 3 Years

**UV CHAMBER WITH EYE PROTECTION**

UV cabinet of dimension 75(L) x 60 (W) x 25(H) cm

Mild Steel, Powder Coated

View piece: aluminium casting with eye protection

Light source: Short wave: 254 nm

Long wave: 365 nm

Visible light

Individual toggle switch for each light

The cabinet should be openable at three sides

UV protecting goggles

Glass filter to protect the eyes against UV light

Warranty: 3 Years

**Tender No. 33/2011**

**WATER BATH**

Temperature range: 30 – 100 degrees

Capacity: 6 litre

External dimension: 36 x 28 x 32 cm (Approx)

Internal dimension: 32 x 17 x 18 Cms (Minimum)

Internal material: Stainless Steel

External Material: Stainless Steel Epoxy coated

Lid: Stainless Steel

Thermometer: 20 – 110 degrees

Tube racks for PP tubes

Warranty: 3 Years

**Tender No. 34/2011**

**Video camera (Mini)**

Recording Format : DVD
Media Storage Type : 8cm DVD
Movie recording on Memory Stick
Zoom Mic : Yes
Carl Zeiss Lens
Optical / Digital Zoom : 15x / 180x
Minimum Still Image Resolution (Photo Mode) : 4.0 Mega Pixels (2304 x 1728 / 4:3)
Super SteadyShot Mode : Optical
LCD Screen Size & Type : 2.7" (minimum)
NightShot Mode
Intelligent Flash : Yes
Memory Stick Slot : Yes
USB Terminal : Yes (USB 2.0 High Speed)
Minimum one year warranty

## **Tender No. 35/2011**

### **NON-LINEAR JUNCTION DETECTOR**

1. The NLJD should be capable of detecting hidden semiconductor electronic devices, regardless of whether the device is radiating, hard wired, or even turned on /off.
2. The NLJD should be capable of detecting such devices through several inches of concrete, inside a wall, or buried deep inside any furniture.
3. Capable to detect stand alone SIM Card.
4. Peak Power desirable 1.4 Watts (This refers to Effective Radiated Power including antenna gain and all system losses). In any case, it should not be less than 1 watt.
5. Power Control: 30 dB range in 2 dB steps and adjustable down to 5 mW—automatic or manual control. Pulsed to limit average output power to FCC max.
6. Antenna: Circular, polarized antenna for both transmit and receive functions so as to remove risk of missing a threat due to incorrect antenna polarization.
7. Operation: Second and third harmonic operation must include advanced algorithms for minimizing false alarms as well as listening capability for each harmonic.
8. Transmitter: Frequency Bands: 880 - 1005 MHz using 200 kHz steps.
9. Receiver: Frequency Bands: Second (1700-2010 MHz) or third (2550- 3015 MHz) harmonic of transmit fundamental frequency.
10. Receiver sensitivity: Sensitivity: -130 dbm for both Harmonics.
11. Receiver Gain Control: The gain of the unit must be enhanced using software integration.
12. Receiver IF BW: 3 kHz
13. Integrated display and Audio demodulator
14. Desirable: OLED screen (Organic Light Emitting Display).
15. Desirable: Wireless Infrared Headphones
16. Sturdy carrying case
17. Activation: The system should not activate any active radio controlled device in close proximity to search head.
18. Battery Specifications: Externally rechargeable standard type battery; 7.2 VDC camcorder style NiCad; should work continuously for 4 hours. Low battery alarm.

19. Battery Charger: Dual battery charger with Automatic Operation; Charging Time: approximately 45 minutes to 1 hour; must sequentially charge both batteries.
20. Unit Operational Weight: not more than 3.4 lbs (1.54 kg)
21. Operation manual
22. Three years warranty
23. Availability of local service centre is desirable.
24. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
25. 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. 36/2011**

**DEEP SEARCH METAL DETECTOR**

1. For the detection of mines & IEDs underground and under water
2. Able to detect metallic objects above 3 feet under the ground/ water
3. Detects all metals.
4. Multi zone detection (6 or 4) desirable
5. Waterproof and lightweight probe with telescopic/foldable handle.
6. Lightweight control unit with inbuilt battery.
7. Easy to operate ( User friendly features)
8. Audio alarm with volume control and visual alert/ indication system.
9. Earphone facility should be provided as optional
10. Longlife Rechargeable battery and Spare battery (with battery charger separate or inbuilt)
11. Sturdy, light weight Carrying case
12. Operation Manual
13. Three years warranty
14. Availability of local service centre is desirable.
15. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
16. 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. 37/2011**

**X-RAY BAGGAGE SCANNER**

1. Resolution : 40 SWG or better
2. Penetration : 30 mm steel or better
3. Tunnel size : Minimum 500mm X 300mm
4. Display : Flicker free display without corner cut off
5. Multi Energy Imaging
6. Ability to distinguish between organic & inorganic materials
7. Variable edge enhancement
8. Variable colour stripping
9. Variable density zoom
10. Zoom facility
11. View previous bag
12. Date and time display
13. UPS with 1 hour backup
14. Monitor: – Colour monitor minimum 19"
15. Image storage facility (Capacity: 320 GB or higher)
16. Search indicator
17. Inbuilt software for Training programme
18. The system should comply with international health and safety regulations. No leakage of radiation hazardous to the handlers. Certificate from the competent authority should be produced in this regard. Certification for radiation safety in accordance with international standard.
19. Operation manual
20. Three years warranty (onsite replacement warranty)
21. Availability of local service centre is desirable.
22. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.
23. 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. 38/2011**

### **PORTABLE PARCEL SCANNER (PORTABLE X-RAY UNIT)**

1. It should be a Digital model.
2. It should consist of a portable constant potential X-Ray Generator and state of the art self contained Robust scanning detector.
3. Both the parts must have self-contained sources of power so that in a real life situation we are not handicapped for want of a power outlet.
4. X-Ray Generator, Image capturing unit (camera) and Monitor (Lap Top), should be three separate units and having corded and cordless operation.
5. The detector must have a cordless operation with a laptop for receiving the information with a range of at least 100 meter. (No cable connection between X-Ray Generator, X-Ray Detector and Laptop while cordless operation)
6. Non line-of-sight operation.
7. Easy to set up and minimum warming up time.

#### **X-Ray Generator:**

8. It should work with common portable X-Ray. It should work with DC and AC. The X-Ray generator should be adjustable from 60 KV to 160 KV or better.
9. Penetration: 30 mm steel or better

#### **Image Capturing Unit:**

10. The image capturing unit/camera must be large size sufficient for screening of a suitcase. Desirable size – 500 mm X 400 mm or better.
11. High performance CCD Cameras.
12. It should be tripod mountable with tripod stand.

#### **Monitor:**

13. Image analysis should include Zoom, Reverse black and white, Pseudo colour, Pseudo 3D and measure, show gradient, rotation, distance, contrast enhancement.
14. Image print and E-mail, should be able to archive a large number of images on hard disks itself. Image should have a good resolution.
15. Capable to identify thin wire – Resolution: – 40 SWG

**General:**

16. Long life rechargeable battery with spare battery and charger.
17. It is desirable to detect narcotics, hidden contraband and preferably also hidden currency notes.
18. Operation manual
19. Three years warranty
20. Availability of local service centre is desirable.
21. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.

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. 39/2011**

### **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. 40/2011**

**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. 41/2011**

**BOMB SUPPRESSION BLANKET**

1. Size of the Blanket should be 1.5 meter X 1.5 meter or better.
2. Blanket should be made up of 26-30 layers of 180 GSM Kevlar or better.
3. The company should produce the certificate of F3 level protection, from TBRL.
4. The company should supply safety ring also having 24" height, 24" diameter or better and made up of thick polycarbonate sheet and Kevlar.
5. The Bomb Suppression Blanket and safety ring should have heavy-duty nylon webbing handling straps, which permits the safe placement on a potentially explosive device.
6. Three years warranty
7. Availability of local service centre is desirable.
8. Detailed Training free of cost to sufficient personnel at the place(s) specified by the Department.

**Tender No. 42/2011**

**NON IGNITIVE SAFETY LIGHT (SAFETY LIGHT)**

1. It should be lightweight, rechargeable, flameproof torch.
2. It should have a product features of 90 degree articulating head for greater lighting flexibility.
3. It should have high visibility flashing LED tail light.
4. It should have three position toggle switch (choose between primary light only or primary light and LED tail lights).
5. It should prevent the accidental activation/Explosion.
6. It should be wall and vehicle mountable.
7. It should have ergonomic, ribbed texture handle ensures a sure grip, even with gloves.
8. It should have rubberised head handle and base for shock absorbency.
9. It should have low battery indicator, which reveals when 20/30 minutes of power remains.
10. It should have long life rechargeable battery with spare battery and charger.
11. It should have Xenon Bulb 12 V or better.
12. It should have a bulb life 300 Hrs or better.
13. It should have a light output 120000 Candlepower or better.
14. It should have the weight (with battery) less than 1.5 Kg.
15. Continuous burning time 3.5 Hrs or better.
16. It should have the following components Body: Super-tuff, chemical, heat resistant and waterproof Nylon casing.
17. Lens: Polycarbonate or better.
18. Lens ring: Super-tuff Nylon for lens protection.
19. Shoulder Strap: Nylon.
20. It should have the approval of NFPA1901 14.1.11.2 certified.
21. Three years warranty
22. Availability of local service centre is desirable.
23. 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.