

Technical Specifications for Small Mobile Forensic Van

Section A		TECHNICAL SPECIFICATION OF SMALL MOBILE FORENSIC VAN		
		S.No.	Parameter	Specification of MPV
		1	Fuel	Diesel / CNG/ Petrol
		2	Engine Capacity cc	2100 cc or above
		3	Max Engine Power BHP	Minimum 75 -190 BHP
		4	RPM	3300-4000
		5	Max Engine torque Nm	Minimum 200 Nm & above
		6	Ground Clearance mm	175-210 mm
		7	Wheelbase mm	2600-3400 mm
		8	Type of Steering	Power Steering
		9	Fuel Tank Capacity	Minimum 50 Liters
		10	Length of body mm	3900 -5200mm
		11	Width of chassis mm	1700-2000 mm
		12	Height of chassis mm	1700-2200 mm
		13	Vehicle Mileage km/ltr	Minimum 10 Km/liter or better
		14	Emission type	BS-VI
		15	Warranty period inclusive of warranty of battery	3 Years or 3 lakh Km, whichever is earlier
SECTION - B		Body : Technical Specification of Internal and external fabrication, with customized furniture /fixtue in MPV Certification and Testing: Complete vehicle certification from government approved Certified Agency/ OEM approved		
		S No	Parameter	Specification
		1.	Seating Facility (Excluding Driver)	- Comfortable seating arrangements for minimum Three person - The seat is designed to be ventilated, providing airflow for comfort.
		2.	Air-conditioning facility	The vehicle need to be fixed with Air conditioning in both the cabins
		3.	Interior Noise Level	- Vehicle interior should be Specially designed such that there is low noise, shockproof, no vibration, low harshness - level with power steering facility
		4.	Structure Fabrication Back side Cabin	- The entire body structure needs to be made of GI square tube. - Side structure need to be fixed on the sub floor of the vehicle made with MS 'c' channels of min 4mm or better thickness. - No welding should be done on the chassis - The sub floor needs to be bolted with the chassis

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		using high tensile bolts.
5.	Exterior Paneling Back side Cabin	- The Entire exterior need to be done with minimum 1mm or better thick GI panels. - The paint in coherence with the color of vehicle - Logos and Branding of State PSLs/CPSLs
6.	Internal Fabrication Back side Cabin	- Complete interior paneling with appropriate, non-corrosive and acid/alkali resistant material as per International standards. It should also be water-proof and specially fitted with customized design to accommodate specially designed kits and accessories. - Interior furnishing material should be light and sturdy The interior panels of the vehicle need to be made of FRP. - Effective insulation should be done.
7.	Flooring Back side Cabin	- The flooring needs to be made with min 2 mm thickness AL checker sheet. - There need to place plywood below the AL sheet for better strength, (Plywood should be IS 710 Marine grade or better)
8.	Door (Back side Cabin Door)	- The entry into the compartment needs to be made from the LH side. - Door to open at 120 degree. - Door need to be provided with fixed glasses. - The Door need to have small pockets so that there is more storage.
9.	Cabinets/Platform and storage Back side Cabin	- The cabinets need to have flap doors on the lower area and detachable cabinets for easy access so for the ones that are at eye level, the ones above eye level need to be flap door type. - Plywood / Steel partition racks will be preferred. Storage retractable cabinets for all variable sizes, crime scene investigation kits should have lock facilities to make sure that equipment placed in the vehicle does not get damaged while driving. - Cabinets need to be sustaining chemical spill or leakage. - The vehicle needs to have provision of folding table & chair.

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10.	Electrical and Accessories	• The vehicle needs to be fixed with separate harness. • Tampering with OEM harness is not allowed. • The vehicle needs to be provided with min 2 tube lights and 2 fans inside the vehicle. • There exterior of the vehicle need to be fixed with light bar and linkers of red and blue. • There should be fixed with cameras on 2 sides with back and online viewing. • The vehicle also needs to have 3 focus lights so that there is more visibility. • There need to be a socket for addition of refrigerator in the vehicle. • Also there need to be a Battery (Capacity -) can be charged from the outer source. • All wiring needs to be done from the outer of the panels for easy access. • Charging Sockets • Provision for fire extinguisher for an emergency (1 Kg). ☐Facility of inverter to charge laptop, camera, smart phone ☐Siren/Hooter/ Public Announcement System . • Water resistant seat cover and steering cover. • Front fog lamp, LED display with attachment of camera for rear view and parking facility. • Fabricated first aid Box
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SECTION - C

Following Basic kits and accessories/equipment should be supplied and fitted within the rear compartment of MFV

- a. Crime scene protection/cordoning kit
- b. General investigation kit
- c. Evidence collection and packaging kit
- d. Complete fingerprint lifting kit
- e. Latent fingerprint-development kit
- f. Footprint and type print casting kit
- g. High-Intensity Forensic Light source
- h. Blood & Semen screening & collection kit
- i. DNA & Sexual assault evidence kit
- j. Narcotics screening & collection kit
- k. Explosives screening & collection kit
- l. Arson Investigation kit with Gas Detection
- m. Gun shot residue screening & collection kit
- n. Bullet Hole screening & collection kit
- o. Laptop with printer
- p. CCTV(Dashboard camera); Front & Rear end of vehicle
- q. Weighing balance
- r. DSLR
- s. Body worn camera with GPS
- t. Public announcement system
- u. 1D, 2D,3D barcode scanner & thermal printer
- v. Hand magnifying glass with light (10x)-2 Nos
- w. Digital investigation kit comprising of
 - Forensic imager
 - Faraday bag
 - Removable Media device (pen drive)
 - Removable Media storage device (memory card)
 - External data storage device (SSD)
 - Acquisition, Imaging & triage tool
 - Field Triage
- x. Small portable refrigerator with
 - minimum temperature provision of "-4°C"
 - storage capacity of minimum "15Ltr"
 - separate battery of "12V" capacity for its working
 - provision for portable plug in "12V charging" along with necessary accessories

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Details of Kits to be provided In Mobile Forensic Van

1. Crime Scene Protection / Cordoning Kit

Items	No of Units	Remarks
Crime Scene Protection Foldable Plastic Barrier With Metal Base Stands	4	Reusable
Crime Scene Barrier Tape-50 Mtr (Crime Scene Do Not Enter) With Rewinder Stands	4	Reusable
Crime Scene Marking Flags #1 to #100	2	Reusable
Rechargeable LED And LASER Beam Flasher	4	Reusable
Crime Scene Marking Pyramids (A to Z And 0 To 100)	2	Reusable
Crime Scene Marking Cones (Evidence) (A to Z And 0 To 100)	2	Reusable
Customized Carrying Case	1	Consumable

2. General Investigation Kit

Items	No of Units	Remarks
Spray Marking Paint, 350 gm	1	Consumable
Crime Scene Barrier Tape- 50 Mtrs (Crime Scene Do Not Enter) With Rewinder Stands	1	Reusable
Laser Distance Measuring Device	1	Reusable
Laser Light Pen	1	Reusable
Direction Compass	1	Reusable
Elimination Kit (Pad & Slips)	1	Consumable
Folding Scale	1	Reusable
Rigid Photo Scales (Black & White) (Pack of 12 Each)	1 (12 Piece)	Reusable
Self-Adhesive Mini Scale 20 Mm (150 Nos)-01 Roll	1	Consumable
White 12 LED Hi Power Torch (800 Lumens)	1	Reusable
Pocket Knife	2	Reusable
Swiss Knife 21 Functions	1	Reusable
Magnifier (4" Dia)	2	Reusable
Vernier Gauge (Digital)	2	Reusable
Scissors	2	Reusable
Metal Mirror	2	Reusable
Magnet (Pen Type)	2	Reusable
Set of Forceps	2	Reusable
File	1	Reusable
Scalpel	1	Reusable
Rubber Gloves	1	Reusable
Disposal Gloves	1 Box	Reusable
Pack of Assorted Evidence Labels	1 Box	Disposable
	1 Pack	Reusable

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Molded Plastic Evidence Containers	5 Set	Consumable
Set of Evidence Bags	5 Pack	Consumable
Book of Transfer Numbers	1 Set	Consumable
Set of Permanent Markers Pens	1 Pack	Consumable
Soap and Towel	5 Set	Reusable
Dust Mask, Shoe Cover & Head Covers	10 Each	Disposable/ Consumable
Steel Measuring Tape	2	Reusable
Glass Cutter	2	Reusable
Ratchet Screwdriver With Assorted Heads	2	Reusable
Electric Test Master Screwdriver	2	Reusable
Junior Hacksaw	1	Reusable
Pliers	2	Reusable
Wire Cutter	2	Reusable
Customized Carrying Case	1	Consumable

3. Evidence Packing And Collection Kit

Items	No of Units	Remarks
3 Mtr Tape Measure	4	Reusable
Roll of Tamper Proof Evidence Sealing Tape	1 Pack	Consumable
Roll of Evidence Sealing Tape	1 Pack	Consumable
Chain of Possession Labels	50	Consumable
Set of Pre Printed Write Block Zip-Top Evidence Bags 4"X 6", 6"X10" & 9"X12" (20 Each)	5 Set each	Consumable
Set of Pre Printed Evidence Envelope 5"X 7", 6"X9" & 9"X12" (20 Each)	5 Set each	Consumable
Set of Pre Printed Kraft Evidence Bags 5"X 3"X9", 7"X4"X13" & 8"X5"X18" (20 Each)	5 Set each	Consumable
Set of Pre Printed Leak Proof Specimen Bags 4"X 6", 6"X10" & 9"X12" (20 Each)	5 Set each	Consumable
Set of Bio Hazard Bags 8"X 12" (Pack Of 20)	5 Set each	Consumable
Bio Hazard Labels	1 Pack	Consumable
Set of Fire Tin For Bullet Small & Big (10 Each)	1 Pack	Consumable
Collection Tubes With EDTA	1 Pack	Consumable
Disposable Syringes	1 Pack	Disposable/ Consumable
Amber & Transparent Plastic Jars With Caps	2 Set	Consumable
Plastic Containers With Cap	2 Set	Consumable
Set of Thread, Needle, Sealing Wax & Cloth	2 Set	Consumable
Set of Candle, Match Box	2 Set	Consumable

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Set of Crime Evidence Labels & Tags (24 Each)	2 Set	Consumable
Big, Medium & Small - Evidence Collection Lifters	10	Consumable
Stainless Steel Scissors, Forceps & Spatula	2 Set	Reusable
Carbide Tipped Scriber	2 Set	Reusable
Multi Tool (21 Function)	1	Reusable
Pocket Knife	1	Reusable
Marker, Black, Blue, Green, Red & White	1	Consumable
Liquid Sampling Pipettes	04 pack	Disposable/ Consumable
3" Dia Round Magnifying Glass	2	Reusable
Probe With Paint Chip Cutter	2	Reusable
Disposable Latex Glove Pairs, Face Mask, Shoe Cover & Head Cover	5 of each	Disposable/ Consumable
Customized Carrying Case	1	Consumable

4. Finger Print Lifting Kit

Items	No of Units	Remarks
Finger Print Taking Slab (Black - Fiber Glass) 6" x 10"	1	Reusable
Finger Print Ink (Black; 120 gm tube)	1	Consumable
Finger Print Roller (Black Rubber 4" with stand)	1	Reusable
Finger Print Round Pad (2" Dia Inkless)	1	Consumable
Finger Print Rectangular Pad (3" X 5")	1	Consumable
Palm Print Rectangular Pad (6" X 8") and Scales for Photography	1 set each	Consumable
Finger Print Card Holder (A4 Size; Plastic Molded)	1	Consumable
Finger Print Search Slips (can be customized - pack of 100)	1	Consumable
Finger Print Record Slips (can be customized - pack of 100)	1	Consumable
Finger Print Cadaver Spoon (stainless steel)	1	Reusable
Finger Print Cadaver Straightner (steel - set of three)	1	Reusable
Finger Print Concave roller 2 inches for cadaver	1	Reusable
Finger Print Ridge Builder (100 ml - set of 2)	1	Consumable
Finger Print Ink Cleaning Towellettes (pack of 100)	1	Consumable
Portable folding working station / table	1	Reusable
All in co-polymer carrying cases	2	Consumable

5. Latent Fingerprint Development Kit

Items	No of Units	Remarks
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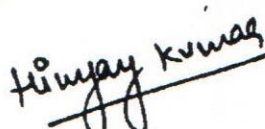
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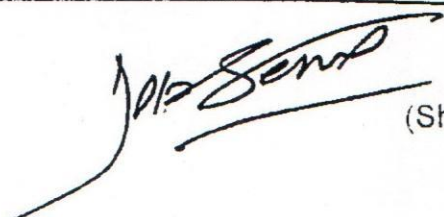
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Finger Print Regular Powder Black	50 gm	Consumable
Finger Print Regular Powder Grey	50 gm	Consumable
Finger Print Regular Powder White	50 gm	Consumable
Finger Print Regular Powder Dual Use	50 gm	Consumable
Finger Print Magnetic Powder Black	50 gm	Consumable
Finger Print Magnetic Powder Grey	50 gm	Consumable
Finger Print Magnetic Powder White	50 gm	Consumable
Finger Print Magnetic Powder Dual Use	50 gm	Consumable
Finger Print Florescent Powder Red	50 gm	Consumable
Finger Print Florescent Powder Yellow	50 gm	Consumable
Finger Print Florescent Powder Green	50 gm	Consumable
Finger Print Florescent Powder Orange	50 gm	Consumable
Finger Print Florescent Magnetic Powder Red	50 gm	Consumable
Finger Print Florescent Magnetic Powder Yellow	50 gm	Consumable
Finger Print Florescent Magnetic Powder Green	50 gm	Consumable
Finger Print Florescent Magnetic Powder Orange	50 gm	Consumable
Finger Print Feather Marabou Brush (Black And White)	1	Reusable
Finger Print Feather Ostrich Brush	1	Reusable
Finger Print Magnetic Powder Applicator	1	Reusable
Finger Print Soft Hair Brush	1	Reusable
Finger Print Lifting Tape 1"	1	Consumable
Finger Print Lifting Tape 2"	1	Consumable
Finger Print Lifting Tape 3"	1	Consumable
Finger Print Black Lifters (Pack Of 24)	1	Consumable
Finger Print White Lifters (Pack Of 24)	1	Consumable
Finger Print Transparent Lifters (Pack Of 24)	1	Consumable
Finger Print Black Backing Cards (Pack Of 24)	1	Consumable
Finger Print White Backing Cards (Pack Of 24)	1	Consumable
Latent Iodine Print Process With Fixative	1 set	Consumable
Magnifier White Light Illuminated 3 X 3" Dia	1	Reusable
Magnifier Light Illuminated Scaled Fixed Focus 8 X	1	Reusable
Magnifier / Linen Tester Folding Light Illuminated 5 X	1	Reusable
Portable Evidence Blue Led Lamp Battery Operated	1	Reusable
Scissors	1	Reusable
Scalpel	1	Reusable
Tweezers	1	Reusable
Evidence Marker Fine Tip Black, Blue, Red and Scales for Photography	1 Set each	Consumable
Small Particle Reagent Kit: Dark And Light With Spray	500 ml - 3 bottles	Consumable


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Customized Carrying Case	1	Consumable
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6. Foot & Tire Print Casting Kit

Items	No of Units	Remarks
Foot Print Frame Aluminum (14" X 8" X 2")	6	Reusable
Release Reagent / Hardener 200 Ml	2	Consumable
Mixing Bowl Small & Big	1 each	Reusable
Spatula Steel	2	Reusable
Mixing Spoon	2	Reusable
Measurement Tape and Scales for Photography	2 Set each	Reusable
Evidence Tag Pre Printed, 50 Nos	1 Pack	Consumable
Wire Gauge 4" X 10" 15 nos	5 Pack	Consumable
Plaster / Casting Material Top Grade, 750 Gm	15	Consumable
Spray Power Unit	2	Consumable
Water Container 20ltr	1	Reusable
Disposable Pipettes	10	Disposable/ Consumable
Spray Paint To Mark Evidence Area	2	Consumable
Surface Brush Normal	3	Reusable
Rechargeable Torch Light	1	Reusable
Scissors & Tweezers	2 each	Reusable
Liquid Soap & Towel	2 each	Consumable
Customized Carrying Case	1	Consumable

7. High-Intensity Forensic Light Source Kit

Items	No of Units	Remarks
Nine Separate Rechargeable Led (5 W) Light Source units with Battery and Charger (Ac and Dc).	2	Reusable
Led Units With Following Wavelengths - UV, Violet, Blue, Green & White	2	Reusable
Light Diffuser	2	Reusable
Light support tripod	2	Reusable
Lithium Batteries	1 Set	Reusable
UV Protected Transparent Yellow, Red & Orange Goggles	3 Set of each	Reusable
Batteries Charger,	2	Reusable
Safety & Contrast Goggle (Yellow / Orange)	2	Reusable
Snap-On Contrast Filters (Yellow, Red, Orange)	1 Set	Reusable

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Customized Rugged Carrying Case	1	Consumable
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8. Blood & Semen Screening and Collection Kit

Items	No of Units	Remarks
Bottle of Distilled Water 125ml In Aerosol Sprayer	4	Consumable
Bottle of Distilled Water 125ml	2	Consumable
Blood Stain Evidence Template (Pack of 24)	1	Consumable
Blood Stain Detection Tablets (Normal)	16	Consumable
Blood Stain Detection Tablets (DNA Safe)	8	Consumable
Blood Stain Detection Reagent Set (Benzidine Process)	1 set	Consumable
Blood Origin Identification Strip (Hexagon Obti)	24	Consumable/ Disposable
Blood Collection EDTA Tubes	10	Consumable
Contact Filter Papers 1" X 2", 100 Nos	10 Pack	Consumable/ Disposable
Cotton Balls	2 Pack	Consumable/ Disposable
Cotton Gauze Small Roll	8 Pack	Consumable
Cotton Gloves	4 pairs	Disposable
Disposable Pipette With 3 MI Bulb	24	Disposable
Evidence Identification Labels, "Crime Evidence"	100	Consumable
Forceps Stainless Steel, 6"	2 Set	Reusable
Glass Vials	1 Pack	Consumable
Microscopic Plain Glass Slides	2 Pack	Consumable
Nitrile Gloves	10 pairs	Disposable
Pricking Needles, 100 Nos	2 Pack	Consumable/ Disposable
Rubber Hand Gloves	1 Box	Reusable
Scissors Stainless Steel, 6"	2	Reusable
Spatula Stainless Steel, 6"	2 Pack	Reusable
Spot Semen Test of AP	1 Pack	Disposable/ Consumable
Spot Semen Test of PSA	1 Pack	Disposable/ Consumable
Spray Power Unit	4	Reusable
Vdrl Slide, 3 Cavity	20	Consumable/ Disposable
Watchglass, 3" Dia, 20 Nos	1 Pack	Consumable
Whatman Filter Paper	1 Pack	Consumable

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Customized Carrying Case	1	Consumable
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9. DNA Sample Collection & Sexual Assault Kit.

Items	No of Units	Remarks
Mini FTA Cards (2 Source)	1 Pack	Consumable/ Disposable
Swabs With Protected Cover	1 Pack	Consumable/ Disposable
Sterile Swabs	1 Pack	Consumable/ Disposable
Swab Drying Rack	02	Reusable
Nitrile Gloves	1 Pack	Disposable
Masks	1 Pack	Disposable
EDTA Vials	1 Pack	Consumable/ Disposable
Sterile Containers	1 Pack	Consumable
Paper Bags	1 Pack	Consumable
Small Paper Envelops	1 Pack	Consumable
Cotton Gauze	1 Pack	Consumable/ Disposable
Cotton Balls	1 Pack	Consumable/ Disposable
Marker	02	Consumable
Wooden Nail Scrubber	10	Reusable
Scissor	02	Reusable
Plastic Tweezers	02	Reusable
Glass Slide With Protected Cover	05	Consumable
Distilled Water 10 ml	05	Consumable
Chain Of Custody Labels	20	Consumable
Syringe	02	Disposable
Pubic/ Hair Combs	01	Reusable
Anal Speculum (Steel)	01	Reusable
Vaginal Speculum	01	Reusable
Customized Carrying Case	01	Consumable

10. Narcotic Preliminary Screening and Evidence Collection Kit.

Items	No of Units	Remarks
Reagents/ Spray kits for General Screening of Drugs	One of each	Disposable

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Reagents/ Spray kits: Marquis, Mandelin, Meck's, Fehde's, Lieberman's, Scott, Fast Blue	(50ml/ spray)	
Bhang/ Ganja/Charas	10 Test	Disposable
Barbiturates/Benzodiazepines	10 Test	Disposable
Opium Derivatives	10 Test	Disposable
Amphetamine type Stimulants	10 Test	Disposable
Ecstasy (MDMA) / Bath Salt	10 Test	Disposable
Cocaine, Smack	10 Test	Disposable
LSD	10 Test	Disposable
Ketamine	10 Test	Disposable
Synthetic/ Manufactured Drugs	10 Test	Disposable
Customized Carrying Case	01	Consumable

11. Explosive Preliminary Screening and Evidence Collection Kit.

Items	No of Units	Remarks
EX-Spray kits for preliminary screening of explosives (50ml/ spray)	One each	Disposable
TNT / CE/ PETN / RDX / Nitrate		
TATP / HMTD/ NG	10 test	Disposable
Ammonium Nitrate	10 test	Disposable
Chlorates, Per chlorates, Fulminates, Azides, Black powder, Gunpowder, NC	10 test	Disposable
ANFO, Improvised explosive substances	10 test	Disposable
Customized Carrying Case	01	Consumable

12. Arson Investigation Kit with Gas Detection

Items	No of Units	Remarks
Hydrocarbon detector (Hand held battery operated)	01	Reusable
Spray marking paint 350 g	01	Consumable
Digital distance measuring device	01	Reusable
Direction Compass	01	Reusable
Folding Scale 2 meter	01	Reusable
Set of rigid photo scale (Black, White and Grey)	01	Reusable

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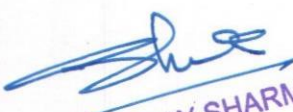
Multipurpose Knife 21 functions	01	Reusable
Magnifier	01	Reusable
Heavy Duty Scissors	01	Reusable
Flat File	01	Reusable
Set of permanent marker pens 5 color	01	Consumable
Glass cutter	01	Reusable
Ratchets crew driver with assorted head	01	Reusable
Battery operated rechargeable drill machine	01	Reusable
Tool/Drill/bit set drill machine	01	Reusable
Electric test master screw driver	01	Reusable
Juinar Hacksaw	01	Reusable
Pliers	01	Reusable
Wire cutters	01	Reusable
Folding Steel Shovel	01	Reusable
Pair of safety goggles	01	Reusable
Scraper 8"	01	Reusable
11", 7", Normal, and 8" screw drivers	01	Reusable
Claw hammer 10 inch	01	Reusable
Blade trowel 8"	01	Reusable
Customized Carrying Case	01	Consumable

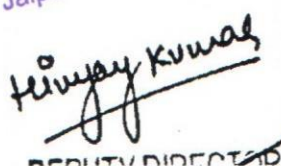
13. Gunshot Residue Screening and Collection Kit.

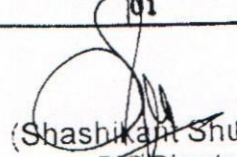
Items	No of Units	Remarks
Spot Test Card	20 Nos	Disposable
Gun Powder Particle Collection Lifter/ Sampler	20 Nos	Disposable
Straight Handle Small Magnifier	01	Reusable
Customized Carrying Case	01	Consumable

14. Bullet Hole Screening and Collection Kit.

Items	No of Units	Remarks
Crushable Ampoules - Lead Testing Reagent Lead Solvent	10 each	Disposable
Copper Testing Reagent Copper Solvent		
Test Papers	2 Pack	Consumable
Zipper Bags For Packing Positive Test Papers	50 No	Consumable
Ruler For Photography	01 No	Reusable
Permanent Marker Pen	01 No	Consumable
Customized Carrying Case	01	Consumable


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