

GOVERNMENT OF ARUNACHAL PRADESH  
OFFICE OF THE DIRECTOR GENERAL OF POLICE  
ITANAGAR

No. PHQ (Prov) - 55 /2017-18 (PT-III).

Dated Itanagar, the 6th May, 2022.

**TENDER NOTICE**

On behalf of the Governor of Arunachal Pradesh, Director General of Police, Arunachal Pradesh, Itanagar invites Sealed Tenders under two Bid systems (Technical & Financial Bid) from the manufacturers, authorised agents/ dealers/suppliers of reputed firms for entering into contract for supply of various equipments for District Forensic Mobile Unit and for setting up of a Regional Forensic Science Laboratory at Itanagar, Arunachal Pradesh. For details please visit **our web site - [www. arunpol.nic.in](http://www.arunpol.nic.in).** and **website - [arunachaltenders.gov.in](http://arunachaltenders.gov.in).**

Sd/-

Director General of Police  
Police Headquarters, Itanagar  
Arunachal Pradesh

Memo No. PHQ (Prov) - 55 / 2017-18 (PT-III)

Dated Itanagar, the 17<sup>th</sup> May, 2022.

Copy to:

1. The In-charge Computer Cell, PHQ, Itanagar. The tender notice along with lists of equipments with Specifications may be uploaded in the website of Arunachal Pradesh Police and website: [arunachaltenders.gov.in](http://arunachaltenders.gov.in).
2. Office copy

Asstt. Inspector General of Police (E),  
Police Headquarters, Itanagar  
Arunachal Pradesh

Asstt. Inspector General of Police (E)  
Arunachal Pradesh  
Itanagar

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OFFICE OF THE DIRECTOR GENERAL OF POLICE  
ITANAGAR

No. PHQ (Prov) - 55/2017-18 (PT-III)

Dated Itanagar, the 6<sup>th</sup> May, 2022.

**TENDER NOTICE – CUM – TERMS AND CONDITIONS**

On behalf of the Governor of Arunachal Pradesh, Director General of Police, Arunachal Pradesh invites Sealed Tender under two Bid systems (Technical Bid & Financial Bid) from the manufacturers, authorized agents/dealers/suppliers of reputed firms for entering contract for supply of various equipments for District Forensic Mobile Unit and for setting up of a regional Forensic Science Laboratory at Itanagar, Arunachal Pradesh. For details please visit our web site-www. [arunpol.nic.in](http://arunpol.nic.in). and website - [arunachaltenders.gov.in](http://arunachaltenders.gov.in).

1.

Sl. No.	Description of items to be procured	Approx. Cost of tender	Earnest money required	Tender Fee (Non-refundable)
1	Various equipments for District Forensic Mobile Unit and various equipments/items of different divisions for setting up of a Regional Forensic Science Laboratory at Itanagar, Arunachal Pradesh (Equipment details attached at Annexure –A, B, C, D, & E)	Rs. 1,54,00,000/-	Rs. 3,08,000/-	Rs. 1,000/-

1. a) If any firm/bidder want to submit quotation (s) for any particular division/component (s), the amount of Earnest Money required is as under:

Sl. No.	Division of RFSL/Component	EMD Required (In Rs.)	Equipment specifications / details attached at Annexure
1.	Vehicle and equipments for <i>DFMU</i>	Rs. 2,38,000/-	"A"
2.	Equipments for Biology/Serology Division ( <i>RFSL</i> )	Rs. 40,000/-	"B"
3.	Equipments for Ballistic Division ( <i>RFSL</i> )	Rs. 3,000/-	"C"
4.	Equipments for Narcotic Division ( <i>RFSL</i> )	Rs. 15,000/-	"D"
5.	Equipments for Question Documents Division ( <i>RFSL</i> ) and evidence/sample collection kits (envelopes, Jars, Bags etc.) ( <i>RFSL</i> )	Rs. 12,000/-	"E"

Earnest money deposit is calculated @ 2% against approx. value of equipments of each division / department with the total approx. value of Rs. 1,54,00,000/- (One Crore Fifty Four Lakhs ) for the entire equipments /items.

1. b) The tender fee will remain same i.e. Rs. 1000/-.

2. Critical date sheet:

Sl.	Particulars	Date	Time
1	Date of publication of Tender	12 /05/2022	-
2	Bid submission start date	From the date of publication onward	
3	Bid submission end date	08 /06/2022	1100 hrs
4	Physical submission of earnest Money deposit/Bid Money and cost of Tender Documents (Tender fee).	With technical bids. However, the original hard copy of EMD, duly pledged to AIGP (E), PHQ, Itanagar,	



		tender fee (Bank Draft in favour of AIGP/E, PHQ, Itanagar payable at SBI, Itanagar) may be furnished before the date & time of opening of tender, The scanned copy may be uploaded in the website – arunachaltenders.gov.in.	
5	Date of Technical bid opening	08/06/2022	1130 hrs

Financial bids will be opened after detailed scrutiny of technical bids. The technically qualified firms will be informed about date & time of opening of financial bids in due course of time.

**3. The Tender documents must be provided in two (02) covers:**

1. Cover-1: It shall contain scanned copies of eligibility information as under.
  - a) Technical bid along with its specification leaflets, brochure, catalogue/literature, if any, of each tendered item.
  - b) Tender documents duly completed and signed BUT without indication of the rates “Quoted”.
  - c) Earnest Money must be attached in form of TDR/FDR/Demand Draft/NSC/KVP etc. of Nationalized Bank/Post offices duly pledged in favour of Asstt. Inspector General of Police (E), PHQ, Itanagar. However, the firms registered under MSME are exempted for earnest money. They must submit copy of registration certificate of MSME.
  - d) Attested copy of firm registration.
  - e) Attested copy of firm GST Registration.
  - f) Valid Trading license issued by competent authority for the tendered items.
  - g) Letter of authority in respect of authorized distributors/dealership etc.
  - h) Financially soundness certificate/documents of the firm/C.A Certificate.
  - i) Attested copy of last three years Income tax return of the firms.
  - j) Experience of the firm (Purchase orders/ work completion letters)
  - k) Any other relevant document which the firm wishes to submit.
2. Cover-2: It shall contain documents on “Financial Bid”. Financial bids shall be opened only of those bidders who have been declared technically qualified by the committee. The criteria for eligibility and qualifications is to be met by the bidders such as minimum level of experience, past performance, facilities and financial position etc.

**GENERAL INSTRUCTION:**

1. The tenders received after scheduled date & time will not be entertained. The tenderers or their representative may remain present at the time of opening of tenders.
2. Rates must be clearly written in figures as well as in words.
3. There should not be any cutting/over writing.




4. The Tenderer/Firms who fail to fulfill the eligibility conditions will be summarily rejected.
5. The firms will have to submit all original documents (as mentioned in cover-1) including EMD, cost of Tender documents in the office of Assistant Inspector General of Police (E), Police Headquarters, Itanagar, Arunachal Pradesh on **08 /06/2022 at 1100 hrs.**
6. In case tender opening day is declared as holiday or bandh call at Itanagar, the tenders shall be received upto next working day till 1100 hrs and opened on the same day at 1130 hrs:
  - a) The bidders should keep checking the website for any added/corrigenda to the notice/bidding documents till the date of submission of bids and the bidder should incorporate the same in his bid documents.
  - b) Conditional bids and the bids not meeting the qualifying criteria on the date of receipt of bids shall be summarily rejected.
  - c) Bids will be opened as per time & schedule mentioned.
  - d) Before submission of bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid.
  - e) The department will not be responsible for delay in submission due to any reason(s).
  - f) All the required information for the bid must be filled and submitted.
  - g) The details of EMD and other documents specified in the tender documents should be same as submitted (scanned copies) otherwise tender will summarily be rejected.
  - h) Technical compliance statement should be enclosed alongwith technical bid clearly specifying deviation, if any for all specifications mentioned in the tender.
7. The tender papers containing full details with specifications and terms and conditions can be obtained from Dy. Superintendent of Police (Provisioning), PHQ, Itanagar, on payment of tender fee of Rs. 1000/- (Non-refundable through a bank draft in favour of the Asstt. Inspector General of Police (E), Police Headquarters, Arunachal Pradesh, Itanagar payable at S.B.I. Itanagar on any working day from 0930 hrs to 1600 hrs w.e.f. **23 /05/2022 to 07 /06/2022**. The tender documents may also be downloaded from our website. The tenderers downloading the documents from website are also required to submit a Bank Draft of Rs. 1000/- as tender fees. No other mode of payment will be accepted.
8. All firms have to submit earnest money as mentioned above along with their Technical Bid.
9. Successful tenderers will be required to deposit 5% of the total value of the articles to be supplied as performance security money within 10 days from the date of issue of letter of acceptance of tender. The successful tenders will have to enter into a "DEED OF AGREEMENT" stipulating the Terms and Conditions of the contract. Security deposit will be subject to forfeiture in case of non-fulfillment of any or all the Terms and Conditions of contract. Earnest Money of the successful tenderers will be forfeited to the Government in case of failure to furnish security money and execution of "DEED OF AGREEMENT".
10. Rate should be quoted F.O.R Central Store, PHQ, Itanagar. Rates quoted other than F.O.R Central Store, PHQ, Itanagar shall not be accepted. No packing or forwarding charges will be allowed. The rate of GST (as applicable) may be charged/quoted by the tenderers and the amount be clearly mentioned for all items. The rate should be quoted in Indian currency both in figure



and words clearly. Tenders must be eligible and clear in all respect else the tenders shall be liable to be rejected.

11. Tenders should be addressed to the undersigned by designation and not by name. The separate sealed envelope containing the tender should be subscribed as "Tender for supply of DFMU and various equipments/items for RFSL, Itanagar Arunachal Pradesh" and sent by Registered Post/Speed Post/Courier Service or put in the Tender Box kept in the office of the undersigned (Provisioning Branch) on any working day from 0900 hrs to 1600 hours. ***The tenders received after scheduled date & time will not be entertained.***
12. Any breakage or loss of any item will be at the supplier's risk.
13. Delivery of the stores will have to be completed within 60 days from the date of issue of firm order. In case of failure to supply the items in time, violation of any provision of Deed of Agreement, the firm is liable to be blacklisted.
14. If any item is found damaged or otherwise unacceptable at the time of delivery/inspection, the supplier will be required to remove the same from Central Store, PHQ, Itanagar, Arunachal Pradesh at their own cost within 15 days.
15. Payment will be made to the supplier directly on completion of supplies and on receipt of stores. Documents/vouchers/R.R.S bill etc. routed through bank will not be accepted.
16. The Director General of Police, Arunachal Pradesh, Itanagar reserves the right to reject the lowest or all or any of the tenders without assigning any reason thereof.
17. The Director General of Police of Arunachal Pradesh, Itanagar shall have the right to ask the firms to demonstrate their items before the items are accepted.
18. List of equipments/items with description & specification is enclosed at Annexure- A. The quantities mentioned in the enclosure are all approximation and subject to variation as per actual availability of funds.
19. Tenders will remain valid up to 31-03-2023.
20. All items to be supplied shall be on warranty for a period as mentioned against them in the enclosed list. Where the warranty period has not been mentioned, the minimum warranty period shall be for one year (except consumable items).
21. The vendor/ firm shall submit undertaking to provide after sale services of items / parts to be supplied for minimum period of 5 (five) years from the date of supply of items.
22. In case of any dispute, legal jurisdiction will be at Itanagar, Arunachal Pradesh.
23. In case of any query tenderers may contact at following phone No. / e-mail ID.

Officers	Telephone	E-mail ID
Asstt. Inspector General of Police (E), PHQ, Itanagar	0360 – 2215518 (Office) <del>94022-75959 (Mobile)</del>	arpolice@rediffmail.com.
Dy. Superintendent of Police (Prov), PHQ, Itanagar	96121-01625 (Mobile)	arpolice@rediffmail.com.

  
Asstt. Inspector General of Police (E)  
Police Head Quarter  
Itanagar

5 Asstt. Inspector General of Police (E)  
Arunachal Pradesh  
Itanagar

## Annexure – “A”

Tender Notice No. PHQ (Prov) - 55/2017-18 (PT-III) dated /05/2022.

### A. SPECIFICATIONS FOR THE DISTRICT FORENSIC MOBILE UNIT (DFMU):

#### 1. Mobile Forensic Vehicle compatible to accommodate the mobile investigating team and investigating kit boxes for preliminary testing at crime scene and packing of exhibits:

(a) Vehicle fitted with interior/ fabrication along with the following kits:-

(i)	Complete Fingerprint Taking Kit	-1 No.
(ii)	Latent Fingerprint Developer Kit.	-1 No.
(iii)	Foot & Tyre print Casting Kit	- 1 No.
(iv)	Electrostatic Dust Mark Lifting Kit.	- 1 No.
(v)	Crime Scene Illumination system	-1 No.
(vi)	Blood Detection Kit.	-1 No.
(vii)	Semen Detection Kit.	-1 No.
(viii)	Narcotics Detection Kit.	-1 No.
(ix)	Explosive Detection Kit.	- 1 No.
(x)	Gun Shot Residue Kit.	- 1 No.
(xi)	Trace Metal Detection Kit.	- 1 No.
(xii)	Bullet Hole Testing Kit.	- 1 No.
(xiii)	Bullet Trajectory Kit.	- 1 No.
(xiv)	Evidence Collection & Packing Kit.	- 1 No.
(xv)	General Investigation Kit	- 1 No.
(xvi)	SOC Sketch and Measuring Kit.	- 1 No.
(xvii)	Arson Investigation Kit.	- 1 No.
(xviii)	DNA Collection & Sexual Assault Investigation kit	-1 No.
(xix)	Set of Magnifiers	- 1 No.
(xx)	Crime Scene Cordoning Kit.	- 1 No.
(xxi)	Set of Search Lights	- 1 No.
(xxii)	Coat / Dangri – 100 Nos.	- 1 No.
(xxiii)	Gas Mask – 100 nos.	- 1 No.
(xxiv)	Protective Shoes – 10 Nos	- 1 No.
(xxv)	Head Gear with Torch – 05 nos.	- 1 No.
(xxvi)	Jacket for Scientific Staff – 20 nos	- 1 No.
(xxvii)	First – Aid Kit.	- 1 No.
(xxviii)	Forensic Light Source	- 1 No.
(xxix)	Collapsible Ladder	- 1 No.
(xxx)	Digital Camera ( min-18 Mega-pixels FX Format CMOS Sensor – 1 No	



Free installation to be provided. Three years warranty to be provided.

## **2. Raman Spectrometer :-**

### **RAMAN SPECTROMETER (Specification):**

- a. System should be able to record the Raman spectral analysis of liquid, gels, powders and Solid samples like drugs & Narcotics etc. using excitation at 532 and 1064 nm.
- b. System should have Spectral range of 200 cm<sup>-1</sup> to 3500 cm<sup>-1</sup> or higher for 532 nm.
- c. System should have Spectral range of 100 cm<sup>-1</sup> to 2300 cm<sup>-1</sup> or higher for 1064 nm.
- d. Resolution range : 9 cm<sup>-1</sup> to 12 cm<sup>-1</sup> for 532 nm and 12 cm<sup>-1</sup> to 17 cm<sup>-1</sup> for 1064 nm.
- e. System should have provision for laser power adjustment from 0 mW to atleast 450 mW or higher.
- f. System should be supplied with Active trigger fibre optic probe for 532 nm for measurements outside the instrument. Measurement of samples should be possible directly through bottles/beaker/vials or containers.
- g. System should be supplied with Active trigger fibre optic probe for 1064 nm for measurements outside the instrument. Measurement of samples should be possible directly through bottles/beaker/vials or containers.
- h. System should have On board touch screen for system control or operate through external PC.
- i. System should be supplied with Liquid Vial holder suitable for fibre optic probe.
- j. System should elaborate spectrograph using volume phase grating.
- k. System should have provision for automatic calibration for Raman shift via software.
- l. System should also be suitable to carry outside the laboratory for field investigation with Lithium I on Battery provision.
- m. System should have internal storage capacity of atleast 14 GB or more.
- n. System should have provision for data ports with USB and Ethernet.
- o. Satisfactory installation and operational training (at the location of installation) must be provided free of cost.
- p. Three years warranty must be provided. Minimum three preventive maintenance visits (annually) plus breakdown visits (as and when called for) must be provided free of cost during warranty period.
- q. The computer, monitor, UPS, Colour Printer are to be provided by the firm supplying the equipment.

## **3. SLR Digital Camera with accessories:**

- (a) 30 M.P. or more
- (b) Sensor type-COMS
- (c) MMC-1
- (d) Approximate battery life (in shots) – 900
- (e) 18-137 mm lens
- (f) EXPEED 4 image-processing engine and ability to shoot 1080/60, Full HD convenient with the tilting LCD monitor as well as built- in wi-fi.
- (g) 51. AF sensor
- (h) Three years warranty to be provided.

## **4. Blue Ray Player : To play the recorded data.**

**5. Video Camera:** 4K/60P(50P) recording XAVC S consumer-use 4K/HD recording format High-quality 50 Mbps HD recording High-speed reading/writing on XQD media card professional-class audio XLR terminal excellent manual operation and image quality adjustment function. Three years warranty to be provided.



**6. Consumables items: Lab apparatus and chemicals.**

(a) **Laboratory Apparatus /Glassware:-** ( Total cost of all items under this component should be shown altogether).

1. Chromatography Sprayer with rubber bellow Capacity – 100 ml – 6 nos, 150 ml – 6 nos., 250 ml – 6 nos.
2. Chromatography Sprayer Bottle type with interchangeable joints rubber bellow Capacity – 25 ml – 3 nos, 50 ml. – 3 nos., 100 ml – 3 nos.
3. Test tube stands made of Perspex/plexi glass sheet (a) No of Holes 12 – Dia – 12mm ,– 50 Nos, (b) No. of Holes 24 , Dia – 18mm - 50 Nos.
- 4 Test tube Holder, chrome plated - 50 nos.
5. Spatula Stainless steel both end flat or end spoon size – 4 inches, 6 inches, 8 inches, & 10 inches, –50 nos
6. Tongs for holding flask 12 " long S. Steel - 10 Nos.
7. Tongs for holding beaker 12 " long S. steel - 10 Nos.
8. Crucible Tongs – length 6", 8", 12", 18" stainless steel - 16 Nos.
9. Stirring Rod - 25 ml. Indian glass - 10 nos.
10. Dropper with capillary jet & rubber teat 5 cm with 5 cm jet., 8 cm with 10 cm jet - 200 Nos.
11. Medicine Dropper with rubber teat 15 cm - 100 Nos.
12. Dropping Bottle, Soda glass, Polythene stopper with dust proof head, glass dropper & rubber teat capacity 60 ml, 12 ml - 80 Nos
13. Automatic pipette – 15 ml capacity - 20 Nos.
14. Specific Gravity bottle conical with cap capacity 25 ml –10 Nos.
15. Membrane Filter Holder Assembly with support for membrane, Funnel, Flask & Clamp, Standard joint fitting, Membrane dia, mm 25, Funnel Capacity. ml 300 & 50, Flask Capacity. ml, 1000 and 500 ml.– 1 No. each
16. Laboratory glassware – washer with all necessary accessories.
17. Laboratory Glassware Drier, Electric with 60 Positions for placing different size.
18. Amber colour Solution Bottle tooled Neck. Capacity (250 ml- 20 Nos ) (500 ml-20 nos), (1000 ml- 5 Nos) ,( 2000 ml - 5 Nos).
19. Amber colour Flask Conical / F. B./ R.B with inter changeable stopper, Capacity – 50 ml, 100 ml, 150 ml – 15 Nos each.
20. Amber colour Reagent Bottle W.M with inter changeable stopper, Capacity – 30 ml, 60 ml, 125 ml, 250 ml, 500 ml – 10 Nos each.
21. Amber colour Petri - Dishes , Culture with serial No. marked O. D. (Height) ml.( 50 x 17 - 50 Nos), (70 x 17 - 50 Nos), (100 x 17 - 50 Nos.)
22. Silica Crucibles with lid with stands 800°C. Capacity 15 ml, 25 ml, 50 ml ( Total 45 Nos ( 15 each ml.)
23. Silica crucibles without lid with stand 800°C Capacity – 15 ml, 25 ml, 50 ml – (Total 45 Nos) ( 15 each ml.)
24. Silica Basins with spout, Round Bottom, translucent with stand 800°C Capacity 35, 70, 100, 150 ml. Diameter – 50 - 55mm, 70 - 75mm, 80 - 85mm, 90 - 95mm – 48 Nos (12 Nos each).
25. Glass Basins with spout, Round Bottom, translucent with stand 800°C Capacity 35, 70, 100, 150 ml.



Diameter – 50-55mm, 70-75mm, 80-85mm, 90-95mm – 48 Nos (12 Nos each).

26. Hard glass tubes - 2.5cm diameter, 20 cm long, height size -OD X length- 25X100mm and size-OD X length - 25X200mm-100 nos. each.
27. Beaker of different sizes capacity 250 ml and 500ml-100 nos.
28. Test tube brush-100 nos.
29. Porcelain basin or china clay bowl for heating- m100 nos.
30. Precoated silica Gel G- Thickness 0.2mm on aluminium sheet-1 pack (25 nos.)
31. Measuring cylinder – Capacity-10ml, 50ml and 100 ml -30 Nos
32. Hand gloves(rubber) – 50nos.
33. Disposable gloves – 150 nos.

**(b) Chemicals:** (Total cost of all items under this component should be shown altogether)

1. Conc Sulphuric Acid - 1000ml
2. Formaldehyde - 1000ml
3. Selenious Acid - 1000ml
4. Molybdic Acid - 1000ml
5. Ammonium Vandate - 1000ml
6. Acetic Acid (Glacial) - 1000ml
7. Copper Sulphate - 500mg
8. Sodium Hydroxide - 500mg
9. Cobalt Thio Cyanate - 500mg
10. Stannous Chloride - 500mg
11. Hydroclochloric Acid-1000ml
12. Nitric Acid - 1000ml
13. Sodium Bicarbonate - 500mg
14. Cobalt (II) Acetate - 500mg
15. Methanol - 1000ml
16. Sodium Nitropruside - 500mg
17. Acetaldehyde - 500mg
18. Sodium Carbonate - 500mg
19. Acetone - 1000ml'
20. Vannilin - 500mg
21. Chloroform -1000ml
22. P-Dimethyl amino Benzaldehyde -100mg
23. Ethyl Acetate - 500mg
24. Ammonia -1000ml
25. Toluene -1000ml
26. Ethanol - 1000ml
27. Acetone -1000ml



28. Silica Gel-G - 500mg
29. Di-Ethyl Amine - 1000ml
30. Di-ethyl Ether - 1000ml
31. N-Hexane -1000ml
32. Benzene -1000ml
33. Fast Blue B-Salt -500mg
34. Di-Chloromethane-1000ml
35. Petroleum Ether -1000ml
36. Sodium Hydroxide -500mg
37. Ferric Sulphate -500mg
38. P-Amino Phenol -500mg
39. Caustic Potash-500mg
40. Cyclohexene-1000ml
41. Butyl Ether-1000ml
42. Bismuth Subnitrate-100mg
43. Potassium Iodide-100mg
44. Plantinic Chloride-100mg
45. Ammonium molybdate-250gms
46. Glycerin-500ml'
47. SodiumAcetate-250mg
48. Sodium Bisulphite-250mg
49. Sodium Chloride-250mg
50. Sodium Bicarbonate-250mg



Asstt. Inspector General of Police (E)  
Police Headquarters, Itanagar  
Arunachal Pradesh

Asstt. Inspector General of Police (E)  
Arunachal Pradesh  
Itanagar



## Annexure – “B”

Tender Notice No. PHQ (Prov) - 55/2017-18 (PT-III) dated /05/2022

EQUIPMENTS/ITEMS FOR REGIONAL FORENSIC SCIENCE LABORATORY (RFSL)

### BIOLOGY/SEROLOGY DIVISION

1. **Microtome**: Fully Automated Rotary Microtome with accessories. Technical Specifications:

1. A state of the art fully motorized heavy duty automated microtome: Single stroke, continuous stroke, rocking stroke and programmed mode for the sectioning of soft, hard, paraffin and resin embedded blocks.
2. Section thickness range should be between 0.25 to 100µm with increments in the range of 0.5µm, 1µm, 5µm with LED display.
3. Trim thickness range should be 1-600µm with 1µm, 2µm, 5µm and 10µm increments, respectively with LED display.
4. Vertical stroke 70-80mm. Specimen advance 30-35mm.
5. Section counter, knife angle position locator and specimen orientation light facility should be there.
6. Emergency stopping facility and lockable hand wheel should be present.
7. It should have option of foot pedal operation and emergency stop button in automated mode.
8. Automatic object return to starting point and connection for backlighting with cold light source.
9. Directional specimen holder fixture with quick clamping system, standard clamp and universal cassette clamp.
10. Round specimen holder with all accessories.
11. Should have spacious, removable section waste tray with integrated armrest.
12. Universal knife holder base, disposable blade holder, disposable blades, stereo zoom microscope attachment for glass knife sectioning with cold light source using gooseneck. Glass knife maker, Glass knife holder. Glass knife box, high quality glass strips for making glass knife (~30 pcs). Glass knife maker and its accessories should complete the whole system from breaking to making of glass knife ready to use. The vendor should make sure that the glass knife holder of microtome accepts this glass for sectioning. The specimen holder of microtome should be capable of holding resin blocks for sectioning.
13. Instrument should be capable of making semi-thin section of resin embedded sections with the help of glass knife.
14. Instrument should have an operating voltage suitable for Indian plugs.
15. High profile disposable blades pack as well as low profile disposable blade pack, each.
16. Five years of warranty and validation of instrument should be done every six months.
17. One branded vacuum pump; Gast Vacuum/pressure diaphragm pump with gauges, regulators, and relief valve, single head, 1.0 cfm, 220/240 VAC.
18. Desiccator SCHOTT DURAN DN300, Outlet in Lid with Stopcock, flat flanges, NOVUS junction and porcelain plate should be quoted with the system.
19. One UVP make hybridization oven HB-1000 with orbital tray and rocker tray with stacking kit for UVP HB-2000.
20. Standard flat embedding mold made up of silicone at least twenty, with 21 numbered cavities measures: 14mm(L) x 5mm(W) x 3mm (D). Should be reusable and must withstand 65°C temperature.
21. Slide warmer hot plate with digital temperature display and control.
22. A vibration free table to accommodate the instrument.
23. Dumont precision tweezers made of titanium, Type 5, six in numbers, (thickness of tip 0.01mm, width of tip 0.05mm and length 110mm), Type 3, six in numbers, (thickness of tip 0.1mm, width of tip 0.17mm and length 120mm).
24. Price of individual components should clearly be specified in the standard and optional format in the quote. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures of the instrument with page number. Photocopied catalogues will not be considered for technical specification evaluation. Quotation not done in the proper form may invite technical rejection and will be technically disqualified.





25. The microtome system has to be quoted with all other accessories, such as stabilizer if required, power chords, 4 extra lamps for stereozoom microscope, since these accessories are required for effective use of this system. Quotation missing any of the above mentioned items or their parts would be disqualified straightway.

26. Warranty – Three years

## **2. Incubator: TECHNICAL SPECIFICATIONS**

- i. Should be operated on 230V, 50Hz single phase AC supply, and having temperature ranging from ambient to 60°C
- ii. Should be double walled with stainless steel inner chamber having a minimum of two inner stainless steel shelves with holes and powder coated outer surface.
- iii. Inner chamber should be fabricated with ribs for adjusting shelves to convenient height.
- iv. Should have a minimum of chamber size of (L\*B\*H) of 450\*450\*450mm.
- v. Should be provided with three side heating elements.
- vi. Should have air circulating fan (Which can be turn ON/OFF on demand) for uniform temperature on all shelves.
- vii. Should have double door with acrylic transparent door.
- viii. Should provide with a microprocessor based digital temperature controller with digital display.
- ix. Should have synthetic rubber gasket at the door.
- x. Warranty – Three years

## **3. Electronic Weighing balance (capacity 0.1 mg - 2 kgs):**

- i. Automatic calibrations with internal weight
- ii. Full tare range facility should be available as standard
- iii. The balance should have permanent shock and overload protection with Monobloc technology
- iv. Balance should have self diagnostics features eg. Keypad test, repeatability test
- v. Balance should have smart track to know how much of the entire weighing range has been used
- vi. Balance should have prohibition for battery operation with the use of re-chargeable battery
- vii. Piece counting, percent weighing, dynamics weighing, statical formulation totaling, free factor facility should be provided
- viii. Protection of main Balance configuration against manipulation
- ix. RS232C interface should be available. ISO 9001/ ISO 14001. Certificate should be provided for Quality and Environmental Standard
- x. Warranty – two years

## **4. LIST OF CHEMICALS FOR BIOLOGY / SEROLOGY DIVISION:**

(Total cost of all items under this component should be shown altogether)

Sl No.	Name of Chemical	Quantity
1	Alpha- Naphthyl Phosphate ( Analytical)	1 Pkt.
2	Benzidine (Best quality)	1 Pkt.
3	Glacial Acetic Acid (Analytical grade)	2 Bottle
4	Phenolphthalein	1 Bottle
5	Sodium Chloride	1 Bottle
6	Fast B-Blue salt	1 Bottle
7	Rectified spirit	2 Bottle
8	Sodium acetate (Anhydrous)	1 Bottle
9	Aniline blue	1 Bottle



10	Eosin	1 Bottle
11	HCL (Analytical grade)	1 Bottle
12	Starch	1 Bottle
13	Agar	1 Bottle
14	Iodine	1 Bottle
15	Hydrogen Peroxide	1 Bottle
16	Zinc dust	1 Bottle
17	Picric Acid	1 Bottle
18	Sulphuric Acid	1 Bottle
19	Diethyl ether	1 Bottle
20	Acetone	1 Bottle
21	Absolute alcohol	1 Bottle

**5. Heating Mantle:** Energy Control 1000 ml, Mantle made of knitted layer of glass fabric combined with flexible heating elements encased in an Aluminium Housing duly painted. The temperature ranges from ambient to 350 °C controlled by Sunvic Energy Regulator. Suitable glasswool insulation is provided to prevent heat loss. Supplied with suitable length of flexible wire to operate on 220 / 230 Volts, AC Supply. Warranty – three years.

**6. Rotary Mixer:** Mains input 230 V / 50Hz / 110V/60Hz A.C. supply, body ABS + METAL body, Motion tilting – fix degree at 38 speed 15 RPM, weight 1.2 Kg, size device 188(L) X 221 (W) X260 (H) mm, operation Quiet – No noise, Standard configuration 4 ml, vacutainer (EDTA) tubes – 12 nos, And ESR TUBE (8 mm) – 4 nos, (total 16 nos.), special configuration 16 tube of either type or mix as required.

**7. Micropipette (Set of 5: 5-50ul, 50-200ul, 100-1000 µl, 500-5000 µl and 1-10 ML):**

Technical Specification of Micropipette –5-50ul, 50-200ul, 100-1000 µl, 500-5000 µl and 1-10 ML Variable Vol.

- Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones.
- Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving.
- Manufactured as per ISO 9001:2008,. Each pipette should be individually calibrated according to ISO 8655 standards
- Calibration certificate must be provided with each pipette.
- Accuracy and Precision values should be those laid down in the ISO 8655 standards.
- Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes.
- Variable Volume Pipette: 5-50 µl 8 Increments [µl]: 0.5 9 Volume [µl]: 5.0 to 50.0 10 Accuracy (±) %: 2.5 to 0.7 11 Precision (±) %: 1.5 to 0.3 12 It should be CE mark.

**8. Microwave oven:**

Standard Specification for Microwave Oven.

- General Requirement : The microwave oven shall be simple in operation and with turnable. Capable in microwave cooking and defrosting.
- Supply voltage : 220 volts, 50H., single phase A.C.
- Power Consumption : 1300W approx.
- Microwave Power : 700W - 850W
- Oven Capacity : 20 litre - 25 litre
- Microwave Frequency : 2450 MHz



- vii. Control : Soft/one touch control
- viii. Timer : 60 minutes - 90 minutes
- ix. Exterior Dimensions : 520mm(W) x 360mm(H) x 450mm(D) approx.
- x. Oven Dimensions : 330mm(W) x 220mm(H) x 330mm(D) approx.
- xi. Safety : The equipment shall be bonded to earth effectively in accordance with the I.E.E. Wiring Regulations.  
Sufficient Safety Interlocks to prevent leakage of microwave.
- xii. Accessories : Shall be supplied with a glass/ceramic tray.
- xiii. Warranty – three years

**9. Water Purification System:** Specification for Laboratory Water Purification Systems .

**A. Analytical grade water system**

1. Product water should have i) Resistivity > 5 Megaohm-cm ii) Conductivity < 0.2 Micro-Siemens iii) TOC level < 40 ppb iv) Flow rate > 8 lit / hour
2. The 'Analytical grade water system' should have i) Pretreatment cartridge with anti-scaling compound, activated carbon & 1-micron filter. ii) A high flux thin film Reverse Osmosis (RO) membrane iii) Self-regenerating Electrodeionisation module (EDI) with mixed bed ion exchange resin.
3. The RO membrane & EDI module of 'Laboratory water purification system' should be compatible with feed water quality of free chlorine level of 3 ppm, SDI upto 20 and conductivity of 2000 Micro-Siemens.
4. EDI module with mixed bed ion exchange resin, should have carbon bead at cathode and should not have conditioning cartridge before EDI
5. System should have auto diagnostic facility with Error & Alarm
6. Monitoring of system should be through Coaxial resistivity cell, with cell constant 0.01cm -1
7. PE tank should have 100lit capacity. It should have sensor rod float switch for auto cut-off.
8. System should be supplied along with PREFILTRATION UNIT, having 5-micron & 1-micron depth filter to arrest particulate matters in the feed water & also having noise free DC pump.

**B. Ultra pure water system**

1. Ultra pure water system should take at least 100 Micro Siemens of Water conductivity and should deliver ultra pure product water by point of use dispenser with rocker arm, volumetric dispensing and auto shut off facility having i) Resistivity > 16 Megaohm-cm ii) Conductivity < 0.06 Micro-Siemens iii) TOC level < 10 ppb iv) Flow rate > 1 lit / min
2. Should have separate feed water specific purification cartridge and application specific polishing cartridge.
3. Should have a vertically placed dual wavelength (185 & 254nm) hotcathode, UV lamp with ballast and quartz sleeve placed in a electro polished housing.
4. Final filter 0.22 micron PVDF validated membrane. System should have option for producing Pyrogen/Rnase-free water with UF cartridge..
5. Point of use gun with rocker arm and volumetric and fixed volume dispensing (3% accuracy), with a green LED.
6. Built in coaxial resistivity meter with a cell constant of 0.01/cm and 0.1degree C accuracy thermistor.
7. Maintenance display for sanitization, exchange purification cartridges, activation of fast flush, depressurization, air purge.
8. Control display showing product water resistivity / conductivity both compensated and non compensated mode, product water temperature, product water resistivity greater or below set point.

**C. Other points:**





1. The supplier should have agents in India to provide after sales service and maintenance.
2. The equipment should be guaranteed for a period of 2 years from the date of commissioning. During the period, if there is any repair to be carried out at the suppliers works, transportation cost of equipment / component besides repair / replacement charges, if any, should be borne by the supplier.
3. Catalogue related to each and every item should be enclosed.
4. Installation & commissioning to be carried out by supplier at site.
5. Commissioning charges, if any, to be indicated.
6. Dimensions of equipment, weight and space requirements to be given
7. Pre-installation requirements should be furnished.
8. Compliance statement of specification to be submitted along with the offer. Without compliance statement, the offer is liable to be rejected. All tender specifications to be compared with equipment offered line by line and documentary evidence must be enclosed by the supplier along with quotation.
9. Two copies of operating manual to be provided.
10. The Offer should include sufficient Spares & consumable items used in 'Analytical grade water system' & 'Ultra pure water system' to ensure trouble free operation for at least 2 years.

#### **10. High speeds Refrigerated Centrifuge (Floor Model):**

- i. Maximum speed (rpm) 26,000 to 29,000
- ii. Maximum RCF (x g) 70,000 to 100,000
- iii. Maximum capacity (tubes x ml) 6 x 1000 in swing bucket or fixed angle
- iv. Drive motor : High – torque brushless high-frequency motor
- v. Imbalance tolerant drive
- vi. Temperature range must be (°C): -10 to +40
- vii. Controls: Microprocessor based, Touch-screen interface (can be used with gloved hand). Memory-based programmed operation 30 programmed operations possible.
- viii. Acceleration/deceleration profile: Nine stage variable acceleration. Nine stage braked deceleration, plus free deceleration.
- ix. Refrigeration system: CFC/HCFC free with 5-year non-prorated warranty
- x. Run time: 99 hrs; Hold
- xi. Programmability: 30 programs or more
- xii. Actual run timer
- xiii. Temp. Control Accuracy :  $\pm 2^{\circ}\text{C}$  of set temperature
- xiv. Speed control accuracy :  $\pm 20$  rpm
- xv. Speed control range : 100 to 26,000 rpm or 500 to 29,000 rpm
- xvi. Machine should be compatible with continuous flow operation (for future upgradation)
  - i. RCF calculation RCF integrator, RTC (real time control), over speed detector facility
  - ii. Automatic rotor lock/self – locking system
  - iii. Automatic rotor identification system
  - iv. Ambient temperature for operation:  $2^{\circ}\text{C}$  to  $40^{\circ}\text{C}$
  - v. Non Contact imbalance protection

- vi. Pre cooling chamber
- vii. Power: 200-240 VAC, 50 HZ, 30 A, single phase
- viii. Mandatory 2 rotors to be quoted with the specifications mentioned below.
- ix. Should be supplied with suitable 10 KVA Servo Voltage Stabiliser.
- x. Warranty : Comprehensive 5 years on both machine and rotor from the date of installation directly certified by the manufacturers
- xi. In addition during the entire warranty period 2 maintenance service visits by engineers is must.
- xii. Proven after sales service records
- xiii. Company should provide user list with email and phone numbers of orders placed in the last 2 years.
- xiv. The centrifuge must provide automatic and instant rotor identification, completed upon installation of the rotor into the centrifuge, before the run is started and a fast, simple, and secure mechanism to automatically lock the rotor onto the drive adapter, eliminating the need for a tool or to hand tighten. The centrifuge must have a vacuum system, with a HEPA filter option, which only operates when needed and can be user selected for high performance or for energy savings. The centrifuge must be able to run without the use of a partial vacuum to protect sensitive samples in microplates, as well as other tubes and bottles. The centrifuge must have an energy savings mode ("sleep mode") to reduce power consumption up to 15% by turning itself off if idle after a period of time. The centrifuge must be able to satisfy cULus and CE safety requirements without being bolted to the floor, to provide flexibility to relocate within the facility.

**Required rotors:**

1. Fixed angle rotor 8x50 ml RPM 25,000 and RCF 75,000 x g or above with Polyallomer 50ml tubes and adapter for 10 ml along with tubes (minimum 50 tubes of each volume should be quoted in main offer)
2. Swing bucket rotor 4x500ml RPM 5,300 or above and RCF 6,800 xg or above with adapters for 50 ml conical tubes, 15 ml conical tubes and MTP's carrier



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## Annexure – “C”

Tender Notice No. PHQ (Prov) - 55/2017-18 (PT-III) dated /05/2022

### EQUIPMENTS/ITEMS FOR REGIONAL FORENSIC SCIENCE LABORATORY (RFSL)

#### BALLISTICS DIVISION

**Items for Ballistics cases examinations** (Total cost of all items i.e Sl. 3 to 32 required for ballistic cases examinations should be shown altogether)

- |     |   |   |         |
|-----|---|---|---------|
| 3)  | Digital Vernier Callipers   | - | 2 No.   |
| 4)  | Electronic Digital pointed jaw Callipers  | - | 2 No.   |
| 5)  | Electronic Digital pointed jaw Scale  | - | 2 No.   |
| 6)  | Measuring tape (tailoring)  | - | 2 Nos.  |
| 7)  | Lens 10X  | - | 2 Nos.  |
| 8)  | Electronic weighing Balance<br>minimum 01 gm to 300gms.   | - | 1 No.   |
| 9)  | Spring Balance 1 kg to 10 kgs   | - | 1 No.   |
| 10) | Spring Balance 1 kg to 5 kgs  | - | 1 No.   |
| 11) | Magnifying Glass  | - | 1 No.   |
| 12) | Ram Rod (2/3 mm)  | - | 2 Nos.  |
| 13) | Vice (medium size)  | - | 1 No.   |
| 14) | Hammer (250/500 gms)  | - | 1 each  |
| 15) | Tool Kit Box  | - | 1 Set   |
| 16) | Cutting Player  | - | 1 No.   |
| 17) | Screw Driver Set  | - | 1 Set   |
| 18) | a) Test tube stand (12 to 20 Holes)   | - | 2 Nos.  |
|     | b) China Dish   | - | 20 Nos. |
|     | c) Beaker (250 ml)  | - | 20 nos  |
|     | d) Glass rod  | - | 10 Nos. |
|     | e) Test Tube (2.5 mm )  | - | 50 Nos. |
| 19) | Regents bottle amber colour 8x10x10<br>inside thick iron lining should present<br>filled with cotton wool.  | - | 10 Nos. |
| 20) | Ear muffers   | - | 01 Set  |
| 21) | Goggles   | - | 1 Set   |
| 22) | Boroscope (for observing rifling and<br>measuring length and width of grooves<br>of small arms including rifles both<br>country and factory made caliber<br>ranging from .22 inch to 7.62 mm)             | - | 1 set   |
| 23) | Screw Guage   | - | 1 No.   |
| 24) | Engraver (Mechanical)   | - | 1 No.   |
| 25) | Trigger pull measurement equipments<br>For both country and factory made with<br>software and PC to record and archive<br>data ( 10kg capacity). Calibre to be<br>fired ranges from .22 inches to 7.62 mm | - | 1 No    |
| 26) | Fire Arms storage Almirah   | - | 1 No.   |

- 27) Glassware :- ( Test tube, Conical flask, - 3 nos of each items  
beakers ( 50 ml to 500 ml capacity)  
glass bottles, burettes, measuring cylinders  
(25 ml. 50ml, 100 ml, 250 ml & 500 ml)
- 28) G.S.R. (Gun shot Residue collection kit) - 1 set
- 29) Chemical/ miscellaneous - As per basic requirement
- 30) Drill Machine - 1 No.
- 31) Armourer Tool Box - 1 set
- 32) Heavy big size wooden table - 1 No
- 33) Bullet recovery box - 2 Nos.



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## Annexure – “D”

Tender Notice No. PHQ (Prov) - 55/2017-18 (PT-III) dated /05/2022

EQUIPMENTS/ITEMS FOR REGIONAL FORENSIC SCIENCE LABORATORY (RFSL)

### NARCOTICS DIVISION

1.

(A) Laboratory Apparatus /Glassware required for Narcotics Division: (Total cost of all apparatus/glasswares under this component should be shown altogether)

1. Chromatography Sprayer with rubber bellow Capacity – 100 ml – 6 nos, 150 ml – 6 nos., 250 ml – 6 nos.
2. Chromatography Sprayer Bottle type with interchangeable joints rubber bellow Capacity – 25 ml – 3 nos, 50 ml. – 3 nos., 100 ml – 3 nos.
3. Test tube stands made of Perspex/plexi glass sheet (a) No. of Holes 12 – Dia – 12mm – 50 Nos, (b) No. of Holes 24 , Dia – 18mm – 50 Nos.
4. Test tube Holder, chrome plated - 50 nos.
5. Spatula Stainless steel both end flat or end spoon size – 4 inches, 6 inches, 8 inches, & 10 inches, – 50 Nos.
6. Tongs for holding flask 12 “ long Stainless Steel – 10 Nos.
7. Tongs for holding beaker 12 “ long Stainless steel – 10 Nos.
8. Crucible Tongs – length 6”, 8”, 12”, 18”stainless steel - 16 Nos.
9. Stirring Rod - 25 ml. Indian glass – 10 nos.
10. Dropper with capillary jet & rubber teat 5 cm with 5 cm jet., 8 cm with 10 cm jet – 200 Nos.
11. Medicine Dropper with rubber teat 15 cm – 100 Nos.
12. Dropping Bottle, Soda glass, Polythene stopper with dust proof head, glass dropper & rubber teat capacity 60 ml, 12 ml - 80 Nos
13. Automatic pipette – 15 ml capacity – 20 Nos.
14. Specific Gravity bottle conical with cap capacity 25 ml - 10 Nos.
15. Membrane Filter Holder Assembly with support for membrane, Funnel, Flask & Clamp, Standard joint Fitting, Membrane dia, mm 25, Funnel Capacity. MI 300 & 50, Flask Capacity. MI, 1000 and 500 ml. – 1 No. each
16. Laboratory glass ware – washer with all necessary accessories.
17. Laboratory Glassware Drier, Electric with 60 Positions for placing different size.
18. Amber colour Solution Bottle tooled Neck.  
Capacity (250 ml- 20 Nos ) (500 ml-20 nos), (1000 ml- 5 Nos) ,( 2000 ml - 5 Nos),
19. Amber colour Flask Conical / F. B./ R.B with inter changeable stopper, Capacity – 50 ml, 100 ml, 150 ml – 15 Nos each.
20. Amber colour Reagent Bottle W.M with inter changeable stopper, Capacity – 30 ml, 60 ml, 125 ml, 250 ml, 500 ml – 10 Nos each.



21. Amber colour Petri - Dishes , Culture with serial No. marked O. D. (Height) ml.( 50 x 17 - 50 Nos), (70 x 17 - 50 Nos), (100 x 17 - 50 Nos.)
22. Silica Crucibles with lid with stands 800°C. Capacity 15 ml, 25 ml, 50 ml ( Total 45 Nos ( 15 each ml.)
23. Silica crucibles without lid with stand 800°C Capacity – 15 ml, 25 ml, 50 ml – (Total 45 Nos) (15 each ml.)
24. Silica Basins with spout, Round Bottom, translucent with stand 800°C Capacity 35, 70, 100, 150 ml. Diameter – 50-55mm, 70-75mm, 80-85mm, 90-95mm – 48 Nos (12 Nos each).
25. Glass Basins with spout, Round Bottom, translucent with stand 800°C Capacity 35, 70, 100, 150 ml. Diameter – 50-55mm, 70-75mm, 80-85mm, 90-95mm – 48 Nos (12 Nos each).
26. Hard glass tubes-2.5cm diameter, 20 cm long, height size-OD X length- 25X100mm and size-OD X length- 25X200mm-100 nos. each.
27. Beaker of different sizes capacity 250 ml and 500ml-100 nos.
28. Test tube brush-100 nos.
29. Porcelain basin or china clay bowl for heating- m100 nos.
30. Precoated silica Gel G- Thickness 0.2mm on aluminium sheet-1 pack (25 nos.)
31. Measuring cylinder – Capacity-10ml, 50ml and 100 ml -30 Nos
32. Hand gloves (rubber) – 50 nos.
33. Disposable gloves – 150 nos.

**(B) Chemicals required for Narcotics Division:** (Total cost of all chemical items under this component should be shown altogether)

1. Conc Sulphuric Acid- 1000ml
2. Formaldehyde ---- 1000ml
3. Selenious Acid—1000ml
4. Molybdic Acid----1000ml
5. Ammonium Vandate—1000ml
6. Acetic Acid (Glacial)---1000ml
7. Copper Sulphate---500mg
8. Sodium Hydroxide - 500mg
9. Cobalt Thio Cyanate - 500mg
10. Stannous Chloride -500mg
11. Hydrochloric Acid-1000ml
12. Nitric Acid- 1000ml
13. Sodium Bicarbonate -500mg
14. Cobalt (II) Acetate- 500mg
15. Methanol- 1000ml





16. Sodium Nitropruside-500mg
17. Acetaldehyde-500mg
18. Sodium Carbonate-500mg
19. Acetone-1000ml'
20. Vannilin-500mg
21. Chloroform-1000ml
22. P-Dimethyl amino Benzaldehyde -100mg
23. Ethyl Acetate -500mg
24. Ammonia -1000ml
25. Toluene -1000ml
26. Ethanol -1000ml
27. Acetone -1000ml
28. Silica Gel -G-500mg
29. Di-Ethyl Amine—1000ml
30. Di-ethyl Ether-1000ml
31. N-Hexane-1000ml
32. Benzene-1000ml
33. Fast Blue B-Salt-500mg
34. Di-Chloromethane-1000ml
35. Petroleum Ether –1000ml
36. Sodium Hydroxide-500mg
37. Ferric Sulphate-500mg
38. P-Amino Phenol -500mg
39. Caustic Potash-500mg
40. Cyclohexene-1000ml
41. Butyl Ether-1000ml
42. Bismuth Subnitrate-100mg
43. Potassium Iodide-100mg
44. Plantinic Chloride-100mg
45. Ammonium molybdate-250gms
46. Glycerin-500ml'
47. SodiumAcetate-250mg
48. Sodium Bisulphite-250mg
49. Sodium Chloride-250mg
50. Sodium Bicarbonate-250mg



## **2. Narcotic testing (detection) kit:**

<u>Sl.No.</u>	<u>Name of the item with specifications</u>	<u>Quantity</u>
1	Marquis Reagent (Opium Alkaloids)	Each for 10 test
2	Nitric Acid Reagent (Heroin/Morphine)	Each for 10 test
3	Dille-Koppanyi Reagent (Barbiturates)	Each for 10 test
4	Ehrlich's Reagent (LSD)	Each for 10 test
5	Duquenois-Levine Reagent (Marijuana, Hashish, Hash Oil, THC)	Each for 10 test
6	Scott Reagent modified (Cocaine HCl, Crack)	Each for 10 test
7	Methadone Reagent	Each for 10 test
8	Ethyl alcohol & Methyl alcohol testing kit	Each for 10 test
9	Special Opiates Reagent (Fentanyl, Heroine, Oxycodone)	Each for 10 test
10	Meckle's Reagent (All Heroine)	Each for 10 test
11	Talwin (Pentazocine) Reagent	Each for 10 test
12	Ephedrine Reagent (Ephedrine, Pseudoephedrine)	Each for 10 test
13	Vallium, Rohypnol, Ketamine Reagent	Each for 10 test
14	Sodium, Rohypnol, Ketamine Reagent	Each for 10 test
15	Acid Neutralizer, 1 oz.(30 ml)	Each for 10 test
16	Carrying case	1



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## Annexure – “E”

Tender Notice No. PHQ (Prov) - 55/2017-18 (PT-III) dated /05/2022

EQUIPMENTS/ITEMS FOR REGIONAL FORENSIC SCIENCE LABORATORY (RFSL)

### QUESTIONED DOCUMENT DIVISION

#### SPECIFICATIONS OF EQUIPMENTS OF QUESTIONED DOCUMENTS DIVISION

1. Evidence /sample collection, Labelling, Packing & Sealing items kit (envelopes,jars,bags etc.)

<u>Sl.No</u>	<u>Name of item required</u>	<u>specification</u>
1	Vials for body fluids	7 ml, 10 ml, 50 ml
2	Zippy bags three size- transparent	Quality product / size : 3x5 inch, 4x6 inch & 5 x 7 inch
3	Envelopes size 10" – 15"	Inner plastic coated
4	Envelope size 23" – 10"	Inner plastic coated
5	Envelopes size 11" – 25"	Inner plastic coated
6	Evidence bags 350 x 250 mm (10 pcs in 1 pkt)	Self adhesive opaque
7	Evidence bags 216 x 180 mm (10 pcs in 1 pkt)	Self adhesive opaque
8	Evidence bags 406 x 355 mm (10 pcs in 1 pkt)	Self adhesive opaque
9	Labeling (adhesive) 6" x 6 "	Numbers- numerals and roman with English alphabets- A to Z
10	Plastic container	Set of three size 25 ml, 50 ml, 100 ml
11	Integrity evidence bags 315 x 230 mm (10 pcs in 1 pkt)	Electric selling transparent
12	Integrity evidence bags 195 x 135 mm (10 pcs in 1 pkt)	Electric selling transparent
13	Bio hazard levels ( 100 pcs in 1 pkt)	Fluorescent
14	Plastic jars with caps sterile, bilingual printed	Printed crime detail
15	Rechargeable vacuum cleaner	With recharging unit 100 watt
16	Electric sealing machine	In monograms (FSL) facility

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