NOTICE INVITING GLOBAL TENDER

Stores Officer, Dr. R.P. Centre on behalf of Director AIIMS invites sealed tenders in two bid systems from the reputed firms/manufacturers for the purchase of following items up to 4.30P.M on or before 12/11/2012:-

<table>
<thead>
<tr>
<th>File No.</th>
<th>Name of equipment</th>
<th>Tender Fee</th>
<th>EMD</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT-1/U-1&amp;2/RPC/SSK/12-13</td>
<td>Vitrectomy Machine 5000 Cuts/Minute to 7500 Cuts/Minute – 6 Nos.</td>
<td>2000/-</td>
<td>6,00,000/-</td>
</tr>
<tr>
<td>GT-2/U-1&amp;2/RPC/SSK/12-13</td>
<td>Surgical Operating Zoom Microscope For Ophthalmology – 2 Nos.</td>
<td>2000/-</td>
<td>1,60,000/-</td>
</tr>
<tr>
<td>GT-3/U-1&amp;2/RPC/SSK/12-13</td>
<td>Multi-Modality Imaging System Unique Features– 1 No.</td>
<td>2000/-</td>
<td>3,00,000/-</td>
</tr>
<tr>
<td>GT-4/U-1&amp;2/RPC/SSK/12-13</td>
<td>532 Nm Green Laser With Slit Lamp – 6 Nos.</td>
<td>2000/-</td>
<td>5,00,000/-</td>
</tr>
<tr>
<td>GT-5/U-1&amp;2/RPC/SSK/12-13</td>
<td>A&amp;B SCAN – 8 Nos.</td>
<td>2000/-</td>
<td>6,40,000/-</td>
</tr>
<tr>
<td>GT-6/U-1&amp;2/RPC/SSK/12-13</td>
<td>H₂O₂ Sterilizer – 1 Nos.</td>
<td>2000/-</td>
<td>2,00,000/-</td>
</tr>
<tr>
<td>GT-7/U-1&amp;2/RPC/SSK/12-13</td>
<td>Visual Electrophysiology System for Flash &amp; Pattern ERG &amp; VEP &amp; Sensory EOG Exams with Multifocal add on options for ERG &amp; VEP exams. – 1 Nos.</td>
<td>2000/-</td>
<td>1,00,000/-</td>
</tr>
<tr>
<td>GT-8/U-1&amp;2/RPC/SSK/12-13</td>
<td>Digital Fundus Camera For Fluorescein And ICG Angiography – 1 Nos.</td>
<td>2000/-</td>
<td>1,00,000/-</td>
</tr>
<tr>
<td>GT-9/Bio/RPC/SSK/12-13</td>
<td>Clinical Biochemistry Analyzer – 1 Nos.</td>
<td>2000/-</td>
<td>80,000/-</td>
</tr>
<tr>
<td>GT-10/Bio/RPC/SSK/12-13</td>
<td>Clinical Immunoassay Analyzer – 1 Nos.</td>
<td>2000/-</td>
<td>84,000/-</td>
</tr>
<tr>
<td>GT-11/Bio/RPC/SSK/12-13</td>
<td>Cytogenetic System – 1 Nos.</td>
<td>2000/-</td>
<td>1,50,000/-</td>
</tr>
<tr>
<td>GT-12/Bio/RPC/SSK/12-13</td>
<td>Live Cell Imaging System – 1 Nos.</td>
<td>2000/-</td>
<td>1,20,000/-</td>
</tr>
<tr>
<td>GT-13/Bio/RPC/SSK/12-13</td>
<td>Tissue Regenerative Bioreactor – 1 Nos.</td>
<td>2000/-</td>
<td>90,000/-</td>
</tr>
<tr>
<td>GT-14/U-II/RPC/SSK/12-13</td>
<td>Slit Lamp Adapted Optical Coherence Tomography – 1 Nos.</td>
<td>2000/-</td>
<td>80,000/-</td>
</tr>
<tr>
<td>GT-15/U-G/RPC/SSK/12-13</td>
<td>High Definition Ultrasound Imaging System – 1 Nos.</td>
<td>2000/-</td>
<td>70,000/-</td>
</tr>
<tr>
<td>GT-16/U-III/RPC/SSK/12-13</td>
<td>Phaco Emulsification – 5 Nos.</td>
<td>2000/-</td>
<td>4,00,000/-</td>
</tr>
</tbody>
</table>

Sale of tender forms: 12/11/2012 upto 4.00 P.M
Last date of submission: On or before 15/11/2012 upto 4.00 P.M
Opening of Tender: - 16/11/2012 at 11.00 AM

Contact Person : Office of Stores Officer, Room No. 180, 1st Floor, Dr. R.P. Centre, AIIMS, Ansari Nagar, New Delhi – 110 029.

Date of opening of tenders have been indicated in the tender forms. Tender forms containing detailed specifications of items along with terms and conditions can be had from the office of the Asstt. Stores Officer, Dr. R.P. Centre, AIIMS, Ansari Nagar, New Delhi against requisite Pay Order/Demand Draft.
towards the cost of tender forms (Non-refundable) as mentioned above in favour of the “AO, DR. R.P. C A/c for each tender form separately (Postal Orders/Cash are not acceptable).

The Bid security as mentioned above will have to be deposited through Bank Guarantee/Demand Draft drawn in favour of the “AO, DR. R.P.C A/c along with the tender. No interest is payable on Bid Security.

Tender forms will be supplied by post/per bearer on receipt of request on printed letter head along with the requisite demand draft/pay order for each tender forms separately between 2.00 P.M. to 4.30 P.M. on all full working days and on Saturday from 11.00 A.M. to 12.30 P.M. up to 11/11/2012. If the last date for sale, submission and opening of tender falls on any Government declared holidays, the next working day will be considered as last date for the same.
Please visit our website at www.AIIMS.ac.in or www.AIIMS.edu. And www.tender.gov.in for further details of this tender.

(STORES OFFICER)
Dr. R. P. Centre
S.No. of Tender : ______

File No. : Tender No. GT-_________/RPC/SSK/12-13

Name of the party in whose favour the Tender form has been issued

________________________________________________________________________

Dear Sir,

1. I/We hereby submit our tender for the __________________________

   ________________________________________________________________


3. I/We have gone through all terms and conditions of the tender documents before submitting the same.

4. I/We hereby agree to all the terms and conditions, stipulated by the AIIMS, in this connection including delivery, warranty, penalty etc. Quotations for each group are being submitted under separate covers, and sheets and shall be considered on their face value.

5. I/We have noted that overwritten entries shall be deleted unless duly cut & re-written and initialed.

6. Tenders are duly signed (No thumb impression should be affixed).

7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the Dr. R.P. Centre, AIIMS New Delhi-29.
NOTE: ALL TERMS & CONDITIONS SUCH AS TAXES ETC, HAS BEEN INDICATED IN THE QUOTATIONS FAILING WHICH IT WILL BE PRESUMED THAT THE RATES ARE INCLUSIVE OF ALL TAXES AND OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENTS.

Yours faithfully,

Signature of Tender(s) full Address.

WITNESS______________________________________
WITNESS______________________________________
WITNESS______________________________________
WITNESS______________________________________
CHECK LIST FOR TERMS AND CONDITIONS

Check list for Terms and Conditions (To be filled by the bidder and submitted alongwith the technical bid)

1. Certificate for being in business for more than 2 years________________________________

2. Certificate for sole ownership/partnership_________________________________________

3. Statement of financial standing from bankers_______________________________________

4. Performance report/List of organization supplied with the same equipment________________

5. Whether rates quoted included all taxes/Rate is a CIF_________________________________

6. Whether rates are quoted as per tenders specifications_________________________________

7. Authority letter from manufacturer/principal enclosed_______________________________

8. Affidavit that the firm has not been black listed in the past by any hospital/Organization ________________

9. Affidavit that the firm has no vigilance case/CBI/FEMA case pending against him/supplier(principal)______________________________

10. Affidavit that the firm is not supplying the same item at the lower rate quoted in the tender to any Govt. organization or any other Institute (Fall clause)______________________________

11. Quotation being submitted directly by the manufacturer or authorized distributor______________________________
12. Quality assurance certificate like ISI, ISO-9002, IP/BP or any other, please specify

13. Statement of turnover/annual report for each of the last three years are attached

14. Bid Security amount deposited is enclosed

15. Literature of original catalogue of the product is attached for reference

16. Details of Name of beneficiary, Account No. of the beneficiary, IFCS code of the bank/branch enclosed at Page No.

17. Comprehensive Guarantee/Warranty period for and thereafter-comprehensive AMC (including all spares & labour) YES/NO. (Tick the option YES/NO) for further years.

18. Compliance Statement with relation to specification

(NAME OF THE BIDDER)
WITH SIGNATURE & SEAL
1. Tender should be addressed to the Chief, Dr. R.P. Centre, All India Institute of Medical Sciences, Ansari Nagar, New Delhi-29 and submitted to the Office of the Stores Officer, Dr. R.P. Centre under sealed cover failing which the tender shall be rejected. Terms and conditions for supply should invariably be indicated otherwise would be taken on its face value. The rates may be quoted on separate sheets failing which the tender(s) will be rejected.

2. Mixed quotations will not be considered for acceptance.

3. **IN CASE OF THE GLOBAL TENDER DOCUMENTS DOWNLOADED FROM THE WEBSITE:**
   

4. TENDER SHOULD BE SUBMITTED IN TWO BID SYSTEM CONTAINING TWO PARTS AS DETAILED BELOW:
   
   **PART-I** :- TECHNO-COMMERCIAL BID IN ONE SEALED COVER WITH E.M.D.
   
   **PART-II** :- PRICE BID/FINANCIAL BID IN ONE SEALED COVER.

   BOTH THE SEALED ENVELOPES SHOULD THEN BE PUT IN ONE OUTER COVER INDICATING THEREON:

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<table>
<thead>
<tr>
<th>Tender Ref. No.</th>
<th>:</th>
<th>GT-/RPC/SSK/12-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>:</td>
<td>Purchase of</td>
</tr>
<tr>
<td>Date of Submission</td>
<td>:</td>
<td>On or before 15.11.2012 upto 4.30.P.M</td>
</tr>
<tr>
<td>Date of Opening</td>
<td>:</td>
<td>16.11.2012 at 11.00 A.M</td>
</tr>
</tbody>
</table>
i) Reference No. of the Tender

ii) Tender regarding

iii) Due date for submission of the tender

iv) Due date for opening of the tender

v) Name of the firm

PLEASE NOTE THAT PRICES SHOULD NOT BE INDICATED IN THE TECHNO-COMMERCIAL BID. THE PRE-QUALIFICATION DOCUMENTS INCLUDING E.M.D./BID SECURITY AS REQUIRED IN THE TENDER DOCUMENT SHOULD INvariable BE ACCOMPANIED WITH THE TECHNO-COMMERCIAL BID.

NOTE:- TENDERS SUBMITTED WITHOUT FOLLOWING TWO BID SYSTEM PROCEDURE AS MENTIONED ABOVE WILL BE SUMMARILY REJECTED.

:: 2 ::

5. The tenderers should give rates, showing taxes, if any, and levies, packing forwarding and insurance charges separately giving full breakup details. THE INSTITUTE IS NOT AUTHORIZED TO ISSUE ‘C/D FORMS’. PLEASE EXCLUDE CUSTOM DUTY COMPONENT IN RUPEE QUOTE AS THE INSTITUTE IS EXEMPTED FROM THE PAYMENT OF CUSTOMS DUE. However, exercise Duty, if any, should be shown separately. Tender not confirming to this requirement shall be rejected and no correspondence will be entertained whatsoever.

6. IN CASE OF IMPORT THE TENDERERS ARE REQUIRED TO QUOTE FOB & CIF VALUE SEPARATELY DULY MENTIONING THE BREAK-UP DETAILS FOR FREIGHT & INSURANCE. THIS CONDITION SHOULD BE STRICTLY ADHERED TO, FAILING WHICH THEIR OFFER WILL BE SUMMARILY REJECTED.

7. THE TENDERERS ARE REQUESTED TO SUBMIT THE FOLLOWING INFORMATION INVARiably TO MAKE PAYMENT THROUGH RTGS/NEFT. “The payment in pursuance of stores supplied/services rendered/work done will be made through RTGS/NEFT & charges incurred for affecting such electronic transfers will be borne by the vendors. The details of present charges for NEFT/RTGS are as under:
NEFT:  
Up to Rs.1 lakh  – Rs.5/- per transaction  
Rs. 1 lakh and above  – Rs.25/- per transaction  

RTGS:  
Up to Rs.5 lakh  – Rs.25/- per transaction  
Rs.5 lakh and above  -- Rs.50/- per transaction  

To make payment through above said mode, the vendor/supplier/contracts have to submit the following information invariably:

i. Name of the Beneficiary  
ii. Account No. of the beneficiary  
iii. IFCS Code of the Bank/Branch.

Failing which their quotation is liable to be rejected.

8. THIS TENDER DOCUMENT IS NON-TRANSFERABLE.

9. The bid document should be paged and a certificate may be provided on the covering letter indicating the number of pages submitted alongwith the bid.

10. The compliance report of specification should invariably be provided indicating the fulfillment of each parameter of the specifications failing which the offer will be rejected.

11. The checklist may be furnished properly and page No. may be mentioned against each Serial Number.

12. The Tender forms be clearly filled in ink legibly or type written giving full address of the tenderers. The tenderers should quote in figures as well as in words the rates amount tendered by him/them. Any discrepancy between the figures and words, the amount written in words will prevail. Alterations/over-writings, unless legibly attested by the tenderer, shall disqualify the tenders. The tenders should be signed by the tenderer himself/themselves or his/their authorized agent on his/their behalf (Authorization may be enclosed, if applicable).

13. THE FORWARDING LETTER/UNDERTAKING (SCHEDULE‘A’) DULY SIGNED SHOULD INVARIABLY BE RETURNED ALONGWITH QUOTATIONS FURNISHED, FAILING WHICH THE TENDER SHALL BE REJECTED.

14. The tenderers should take care that the rates and amounts are written in such a way that interpolation is not possible, no blanks should be left which would otherwise, make the tender redundant.

15. The tender rates should be kept open/valid for a period of one year from the date the tenders are opened.

16. The tenderers shall clarify/state whether he/they are manufacturer, accredited agent or sole representative indicating principals name & address. The offers of firms who are not manufacturer or direct authorized agent will be summarily rejected. Sub-distributors will not be accepted.

17. Delivery prospects with definite date of delivery at destination taking into cognizance transit facilities must be indicated.
18. EACH TENDER SHOULD BE ACCOMPANIED WITH AN EMD/BID SECURITY AMOUNTING TO Rs._________ (as indicated in the tender Notice)/- BY WAY OF DEMAND DRAFT/ BANK GUARANTEE DRAWN IN FAVOUR OF “AO, Dr. R.P. Centre, AIIMS, NEW DELHI”, (PREFERABLY BANK GUARANTEE) FAILING WHICH THE TENDER SHALL NOT BE CONSIDERED FOR ACCEPTANCE AND WILL BE OUTRIGHTLY REJECTED. IN CASE OF BANK GUARANTEE, IT SHALL BE VALID FOR ONE YEAR FROM THE DATE OF OPENING AND THE SAME SHOULD BE FROM ANY SCHEDULED BANK (AS PER THE LIST ENCLOSED). CASH/CHEQUE/FDR IS NOT ACCEPTABLE AT ALL. THE EMD/BID SECURITY DEPOSITED AGAINST OTHER TENDERS CANNOT BE ADJUSTED OR CONSIDERED FOR THIS TENDER. NO INTEREST IS PAYABLE ON EMD/BID SECURITY.

19. If the delivery is not effected on due date, the Director, AIIMS, N. Delhi will have the right to impose penalty as under:
A) First extension for one month or part thereof ________________________@2%.
B) Second extension for an additional month or part thereof.____________________@ 3%

20. In case of non-supply of stores within the due date i.e. within the date of delivery, the Director, AIIMS, New Delhi will have the right to impose penalty, as deemed fit, to resort to risk purchase in full or part thereof at his/her discretion, his/her decision shall be final and binding.

21. **SOFTWARE AND HARDWARE UPGRADEATION**
The selected firm for the supply of tendered item will have to provide free up-gradation of software (all update & upgrades) upto 5 years from the date of satisfactory installation.

22. Rates quoted should be valid for 12 months from the date of opening of tender.

23. THE TENDERERS MAY BE REQUIRED TO DEMONSTRATE THE QUOTED MODEL OF THE EQUIPMENT DURING THE TECHNICAL EVALUATION, IF REQUIRED, FAILING WHICH THEIR BIDS/OFFER SHALL BE REJECTED. The firms are intimated that they should get ready for demonstration and only one-week time will be provided for arrangement of demonstration and no request for extending time for demonstration will be entertained. Failure to demonstrate, their offer will be summarily rejected.

24. Any other statutory levy imposed by the Govt. of India from time to time will be authorized extra on demand with adequate proof thereof will be paid extra.

25. Force meajure will be accepted on adequate proof thereof.

26. The Chief, Dr. R.P. Centre, AIIMS New Delhi shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.

27. No payment shall be made for rejected Stores. Rejected items must be removed by the tenderers within two weeks of the date of rejection at their own cost and replace immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.
28. The Chief, Dr. R.P. Centre, AIIMS, reserves the right to cancel/reject full or any part of the tender which do not fulfill the conditions stipulated in the tender.

29. Tenderers submitting tenders would be considered to have considered and accepted all the terms and conditions. No enquiries, verbal or written, shall be entertained in respect of acceptance or rejection of the tender.

30. TENDER MAY BE REJECTED IF THE COPY OF VALUE ADDED TAX (VAT) REGISTRATION IS NOT FURNISHED (IF APPLICABLE).

31. The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.

32. Any action on the part of the tenderer to influence anybody in the said Institute will be taken as an offence, he will not be allowed to participate in the tender enquiry and their offer will not be considered.

33. Material confirming to the specifications should be quoted. Original Catalogue, Leaflets, literatures with full technical details should invariably be attached along with their offer, failing which their offer will be summarily rejected.

34. THE TENDERERS MUST QUOT THEIR MODEL STRICTLY AS PER TENDER SPECIFICATIONS.
35. Genuine equipments and instruments etc., should be supplied. Tenderers should indicate the source of supply i.e. name & address of the manufacturers from whom the items are to be imported, country of origin, country of Shipment etc.

36. The quoted equipment should preferably be of Indian INTERNATIONAL STANDARDS.

37. The tenderers are required to quote the mode of shipment by Air/Sea/ Airport Parcel and should give separate breakup of freight and Insurance Charges.

38. Supply of equipment means-Installation and Commissioning at site. No separate charges will be paid separately on this account.

39. **UP TIME GUARANTEE:**

   The firm should provide uptime guarantee of 95%.

40. **Downtime penalty Clause**

   40.1 During the Guarantee/Warranty period, desired uptime of 95% of 365 days (24 hrs) if downtime more than 5% the institute shall be entitled to impose penalty equal to amount of 0.5% of the total cost of the equipment per day for the first seven days will be payable by the vendor which will doubled on subsequent weeks along with extension of warranty period by the excess down time period. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least **FIVE YEARS** after handing over the unit to the Institute. If accessories/other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the AMC from the third party separately along with the main offer and the third party will have to sign the AMC with the Institute if required.

   In no case instrument should remain in non-working condition for more than 7 days, beyond which a penalty of 2% of machine cost will be charged per day.

   40.2 The principals or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

41 **GUARANTEE/WARRANTY PERIOD:** FOR THE EQUIPMENT VALUE UPTO RS. 5 LAKH

41.1 THE TENDERERS MUST QUOTE FOR 2 YEARS COMPREHENSIVE WARRANTY (INCLUDING ALL SPARES, ACCESSORIES AND LABOR) FROM THE DATE OF COMPLETION OF THE SATISFACTORY INSTALLATION. THE WARRANTY CHARGES SHALL NOT BE QUOTED SEPARATELY OTHERWISE THE OFFER SHALL BE SUMMARILY REJECTED. ALSO THE BIDDERS ARE REQUESTED TO SUBMIT THEIR QUOTE (RATES) FOR SUBSEQUENT 3 YEARS COMPREHENSIVE AMC (INCLUDING ALL SPARES, ACCESSORIES AND LABOR). FAILURE TO COMPLY THIS CONDITION WILL ENTAIL THE REJECTION OF THE BIDS. THE PRICE COMPARISIGN SHALL BE MADE TAKING INTO ACCOUNT ON BASIC PRICE AND POST WARRANTY AMC.

41.2 **GUARANTEE/WARRANTY PERIOD:** FOR VALUE OF EQUIPMENTS ABOVE RS. 5 LAKH

THE TENDERERS MUST QUOTE FOR 5 YEARS COMPREHENSIVE WARRANTY (INCLUDING ALL SPARES, ACCESSORIES AND LABOR) AFTER THAT 5 YEARS WITHOUT SPARES FREE SERVICE FROM THE DATE OF COMPLETION OF THE SATISFACTORY INSTALLATION. THE WARRANTY
CHARGES SHALL NOT BE QUOTED SEPARATELY OTHERWISE THE OFFER SHALL BE SUMMARILY REJECTED.

42 **Delivery:** The successful bidders should strictly adhere to the following delivery schedule supply, installation & Commissioning should be effected within 6 to 8 weeks from the date of supply order and this clause should be strictly adhere to failing which administrative action as deemed fit under rules will be taken against the defaulter.

43 **Spare Parts:** The separate price list of all spares and accessories and consumables, if any, (Including minor) required for maintenance and repairs in future after guarantee/warranty period must be attached/enclosed along with the sealed quotation failing which quotation will not be considered.

If any spares & accessories other than the price list attached/enclosed by the firm are required for future repair it will be borne by the firm only.

44 The tenderers are required to furnish the list of spares along with their cost in the Financial bid failing which their bids are liable to be rejected.

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45 The tenderer shall furnish a non-blacklisting certificate that the firm has not been blacklisted in the past by any government/Private institution. The tenderer/supplier has to give an affidavit on non-judicial stamp paper of Rs.10/- that there is no vigilance/CBI case pending against the firm/supplier and the firm has not been blacklisted in the past by any Govt. or Private Organization.

46 Payment of Agency Commission, if any, payable in rupees must be indicated. If no Agency Commission is admissible from the foreign suppliers must be indicated specifically.

47 Tenderers should clearly indicate the name of the Manufacturers/Beneficiary of the Letter of Credit, country of Origin, place of shipment/Airfreightment, etc.

48 Local agents quoting on behalf of their foreign suppliers must attach valid authority letter in their favour. In case of distributor, the firm should be direct distributor from the principal’s. Either the Foreign Principals/manufacturers or their authorized Indian Agent should participate in the tender but not both. Also one agent cannot represent two suppliers or quote on their behalf in the same tender. The sub-distributor authority by distributor will not be accepted at all. In case the firm is neither manufacturer nor direct authorized dealer of the manufacturer, such offers will be summarily rejected.

49 **SUCCESSFUL TENDERERS WILL HAVE TO FURNISH PERFORMANCE BANK GUARANTEE FOR 10% CONTRACT VALUE FROM ANY SCHEDULED BANK (AS PER THE LIST ENCLOSED) VALID FOR THE WARRANTY PERIOD AND TWO MONTHS EXTRA alongwith the final proforma Invoice.**

50 The rates quoted for the Stores/Equipments, under the reference, by the supplier shall in no event exceed the lowest price at which the suppliers of the Stores/Equipments of identical description are made to any other person/organization/Institution during the period and should attach an undertaking.

**FALL CLAUSE**

51 If, at any time, during the said period, the supplier reduce the said prices of such Stores/Equipment or sales such stores to any other person/organization/Institution at a price lower than the chargeable, he shall forthwith notify such reduction or sale to the Director, AIIMS and the price payable for the Stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

52 Successful tenderers, should give pre-alert intimation prior to shipment notifying both the nominated clearing agents as well as the Institute.

53 The supplier shall furnish the following certificate to the Accounts Officer alongwith each bill for payment for supplies made against in Rate Contract Tender.
“I/We certify that the Stores of description identical to the Stores supplied to the government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution upto date of bill/the date of completion of supplies against all supply orders placed during the currency of the tender/rate contract at the price lower than the institute under contract /against tender”.

54 The supplier shall furnish a list of organizations where the equipment, in question, has/have been supplied with the period during the last one year and performance certificate from such organization may also be provided.

55 THE GOODS MUST INVARIBLY BE CONSIGNED THROUGH OUR NOMINATED FREIGHT FORWARDERS INDICATED IN THE SUPPLY ORDER, in case of imported item.

56 A) PAYMENT TERMS (IN CASE OF IMPORTS)
   1) Agency Commission will be paid to Indian agents in Indian Rupees, after satisfactory installation of equipment.
   2) Letter of Credit will be opened on CIF value, as the case may be, for full amount after deducting the Agency commission/Technical Service Charges.
   3) 100% payment shall be released against presentation of shipping documents against a performance Bank Guarantee valid for a period of 26 months from the date of satisfactory Installation certificate issued by the user department for 10% value from any Scheduled Bank (as per the list enclosed) along with final proforma Invoice. In absence of Performance Bank Guarantee, 90% payment will be released against presentation of shipping documents & balance 10% payment will be released after satisfactory Installation certificate issued by the user department and against submission of Performance Bank Guarantee of 10% order value valid for a period of 26 months from the dated of satisfactory Installation certificate issued by the user department.

B) PAYMENT TERMS (IN CASE OF RUPEE OFFER)
   100% PAYMENT WILL BE MADE AFTER SUPPLY, installation & satisfactory demonstration of the said equipment subject to submission of Performance Bank Guarantee for 10% order value valid for a period of 26 months from the date of satisfactory Installation certificate issued by the user department, from any Scheduled Bank (as per list enclosed), FALLING WHICH, 90% PAYMENT WILL BE RELEASED AFTER INSTALLATION & BALANCE 10% PAYMENT WILL BE RELEASED AFTER WARRANTY PERIOD, or earlier against submission of Performance Bank Guarantee of 10% order value valid for a period of 26 months from the date of satisfactory Installation certificate issued by the user department.

C) Payment shall be made through Electronic Clearing System only and the charges shall be deducted from the bill.
# SECTION – XV
## LIST OF SCHEDULED BANKS
### A. Nationalized Banks
1. Allahabad Bank
2. Andhra Bank
3. Bank of Baroda
4. Bank of India
5. Bank of Maharashtra
6. Canara Bank
7. Central Bank of India
8. Corporation Bank
9. Dena Bank
10. Indian Bank
11. Indian Overseas Bank
12. New Bank of India
13. Oriental Bank of Commerce
14. Punjab National Bank
15. Punjab & Sind Bank
16. Syndicate Bank
17. Union Bank
18. UCO Bank
19. United Bank of India
20. Vijaya Bank
21. State Bank of India
22. State Bank of Bikaner & Jaipur
23. State Bank of Hyderabad
24. State Bank of Indore
25. State Bank of Mysore
26. State Bank of Patiala
27. State Bank of Saurashtra
28. State Bank of Travancore
29. Bank of Madura Ltd., Madurai
30. Bank of Rajasthan Ltd., Udaipur
31. Barelly Corporation Bank Ltd., Barelly
32. Banaras State Bank Ltd., Banaras
33. Bharat Overseas Bank Ltd., Madras
34. Catholic Syrian Bank Ltd., Trichur
35. Dhanalakshmi Bank Ltd., Alwaye
36. Jammu & Kashmir Bank Ltd., Srinagar
37. Federal Bank Ltd., Alwaye
38. Karnataka Bank Ltd., Mangalore
39. Karur Vysya Bank Ltd.,
40. City Union Bank Ltd.,
41. Lakshmi Vilas Bank Ltd.,
42. Lord Krishna Bank Ltd., Kodangallur
43. Nainital Bank Ltd., Nainital
44. Nedungadi Bank Ltd.,
45. Punjab Co-operative Bank Ltd., Amritsar
46. Rajinikanth Bank Ltd.,
47. Sangli Bank Ltd.,
48. South Indian Bank Ltd., Trichur
49. Tamilnadu Mercantile Bank Ltd.
50. United Western Bank Ltd.,
51. Vysya Bank Ltd., Bangalore
52. ABN Amro Bank N.V.
53. American Express Bank Ltd.,
54. Bank of American National Trust
55. Banque Nationale de Paris
56. Bank of Tokyo Ltd.
57. British Bank of the Middle East
58. Standard Chartered Bank
59. Qiti Bank N.A
60. ANZ Grindlays Bank Ltd.,
61. The Sakura Bank Ltd.,
62. Sonali Bank
63. Deutsche Bank A.G
64. Bank of Oman Ltd.,
65. Abu Dhabi Commercial Bank Ltd.,
66. Banque Indosuez
67. Bank of Nova Scotia, Toronto
68. Societe General, Paris
69. Oman International Bank, S.A.G.O.
70. Bank of Bahrain and Kuwait (B.S.C)
71. Hongkong & Shanghai Banking Corporation Ltd.
72. Credito
73. Barelays Bank P/L.
74. Sanwa Bank, Tokyo
75. Kashi Nath Seth Bank Ltd.
76. Bari Pobab Bank Ltd.
77. General Bank of Kurudwad Ltd.

The list of banks is subject to change as and when Reserve Bank of India notifies any change in the list.
**Specification for Vitrectomy Machine 5000 Cuts/Minute to 7500 Cuts/Minute – 4**

**No. Vacuum**
1. Should have the facility to generate direct venture vacuum of up to 650 mmHg through cassette system having 2 independent aspiration ports.

**CUTTER**
1. Should have the ability to drive vertical guillotine vitrectomy cutter to go up to 7500 cuts / minute
2. Should have the facility to allow surgeon to select from 3 different duty cycle options at any given cut rate.
3. Should have the 3-D technology to linearly control vacuum and cut-rate simultaneously in vitrectomy mode

**IOP Control**
1. Should have the capacity to monitor infusion pressure constantly
2. Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP.

**Illumination**
1. The system should have at least dual port Xenon Illumination
2. The System should recognize the gauge of illuminator connected and adjust the illumination accordingly.
3. The system should have the facility to monitor the bulb life, to avoid surprises
1. The System should have RFID capacity, which recognizes the probe connected, and automatically loads the settings.

**MIVS**
1. Should have the capacity to support MIVS options like 23 G and 25G
2. Should have a single entry system

**Laser Facility**
1. Inbuild 532 green laser facility with 2 filters.

**Other Features**
1. The System should have the Automated Silicon Oil Injection Capability
2. The System should have the Automated Silicon Oil Extraction Capability
3. The System should have Auto Fluid / Air Exchange
4. The System should have Auto Gas Fill (C3F8 and SF6)) option
5. Should have the fully programmable footswitch with the facility to change procedural modes through footswitch.
6. Should have the facility of diathermy.
7. Should have the facility to digitally control the infusion pressure and the facility to toggle between a regular infusion pressure and an higher alternate pressure (to achieve tamponade effect) with the help of footswitch – VGFI Facility.
8. Should have the facility for the extrusion of sub-retinal fluid.
9. Should have the facility of voice re-confirmation
10. Should have programmability to store various parameters.
11. Should have the facility of fragmentation with the help of 4 crystal Ultrasound hand piece.
12. Phacofragmeter handle a) 20G, b) 23G if available
**Constellation System**

1. Pressurised infusion delivery is exclusively patented by Alcon. This is the best and fastest IOP control module available.
2. 7500 is the highest cut rate available to the best of our knowledge. Higher the cut rate, better the VR surgery results – is established.
3. 3 modes of vitrectomy
   (a) Core
   (b) 50/50
   (c) Shave
   Is exclusive to Constellation System.
4. Integrated Laser System is not available with any other VR machine to the best of our knowledge.

GT-2/U-1&2/RPC/SSK/12-13

**TECHNICAL SPECIFICATIONS FOR SURGICAL OPERATING ZOOM MICROSCOPE FOR OPHTHALMOLOGY – 2**

**Main Cicroscope :**
- Approchomatic optics with anti-reflex multi coating
- Motorized zoom system with zoom ratio 1:6 magnification factors : 0.4x2.4x
- Focussing range 70 mm
- Speed control for zoom and focus
- Tiltable binocular tube f=170 mm with integrated image inverter, interpupillary distance adjustable from 55mm to 75mm
- Pair of high eyepoint widefield eye pieces 12.5x with diopter setting from -8D to +5D.
- Apochromatic objective f=200 mm with carrier ring.
- Total magnifications : 4.3x to 25.5 with eyepiece 12.5x and objective lens f=200 mm Field of view : 8.6 mm to 51.8 mm with eyepiece 12.5x and objective lens f=200 mm
- Integrated Slit illumination; Slit width 0.2, 2.0, 3.0, 4.0mm & Slit height 12 mm.
- Beam splitter should be integrated in the microscope body for additional Stereo co observation attachment/documentation.
- 3 CCD camera should be integrated in the microscope body without any external attachment. Camera controls unit should be integrated in the stand.

**Built-in assistant’s Microscope :**
- Integrated Assistant Microscope with electrical zoom magnification, with programmable magnification to achieve magnification for main surgeon & assistant, independent fine focusing system.
- Inclinable Binocular tube with integrated image inverter.
- SCI (Stereo coaxial illumination) for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
- Pair of high eye point wide field eye pieces 12.5x with diopter setting from -8D to +5D,
- Provision of red reflex for assistant with equal brightness

**XY Coupling**
- Range of adjustment 60 mm x 60 mm. Control of automatic reset of XY movements.
- Provision of inversion of XY direction of travel via foot control, Speed control for XY.

**Illumination**
- SCI (Stereo coaxial illumination) for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
- Fiber light guide, Integrated Xenon illumination system with 180W xenon lamp with back up lamp 180W xenon with availability of Halogen filtered illumination.
- Integrated 408 nm UV filter for protection against infrared exposure
- Blue Blocking Filter, Provision of retina protection device
- Provision of system of magnetic clutches for all locks for positioning of microscope across surgical field

**Floor Stand**
- Magnetic clutches for effortless movement and positioning, Build in maneuvering handles
- Facility to change to back up lamp in event of lamp failure by fast action change
- Lamp intensity adjustment via foot control panel
- Progressive speed adjustments
- Wireless programmable 14 function foot control panel
- Storage facility of magnification, motor speed, configuration of foot control panel, lamp brightness and focal plane for atleast 9 different users
- Facility for non sterile release of suspension arm

**Accessories**
- Video Recorder should be integrated in microscope stand.
- Integrated Keratoscope with 610nm wavelength
- Wide angle fundus viewing system (Completely autocleavable) with electrical vario focus unit, lenses-60D & 128D
- Integration of Z ALIGN for torc IOL, K Track for visualisation of Corneal Curvature with microscope.
- LCD Screen (Wall mounted for viewing & recording.)

**Multi-Modality Imaging System Unique Features – 01 Nos.**

**Multi modality imaging**

- 5 Mode multi modality imaging device allowing FA, ICGA, FAF, IR, red free imaging
- Dual beam scanning system for simultaneous imaging
- Simultaneous imaging with two technologies in one device
- Combined confocal scanning laser ophthalmoscope (cSLO) for Tracking Laser Tomography (TLT)
- Multi-modality multicolor imaging
- Combined molecular and morphological imaging
- Dual beam Real Time Eye Tracker
- Precise real time registration of fundus image.
- Free of motion artefacts. (Real Time Eye Tracker)
- Multiple imaging capabilities in one device.
- Built-in intelligence of Eye Tracker
- ART control
- Widefield imaging with designated angiography lens
• Real time composite images for peripheral fundus exams

GT-4/U-1&2/RPC/SSK/12-13

SPECIFICATION FOR 532 NM GREEN LASER WITH SLIT LAMP – 04 Nos.

1. Should be a diode pumped frequency doubled solid state laser
2. Should have a 532 nm operating wavelength
3. Should have a forced air cooling system
4. Should have a aiming laser wavelength of 635 nm
5. Should have a out put power ranging from 30 mW to 2000 mW (2W)
6. Should have a exposure time of 10 ms – 2000 ms and continuous wave
7. Should be supplied with Good Slit Lamp
8. Should have provision to connect two doctors filter
9. Should have provision for remote interlock
10. Should have dual laser ports
11. Should have LED illumination at the ports for visual verification
12. Should have power control in the footswitch
13. Should have Ready – Standby control in the footswitch
14. Should have voice confirmation from the machine
15. Should have power source for LIO on the Console itself
16. Should have electric requirement of 220V
17. Should have LED in the footswitch for visualization in the dark OT.

GT-5/U-1&2/RPC/SSK/12-13

Specification of Combined A&B SCAN – 2

1. General
   Display
   • TFT Active Matrix Color LCD (262144 colors)
   • 6.5” (17cm) Diagonal
- 640 X 480 Pixels
- High Luminance (250:1)

**Video**
- RS 170 BNC for video printer
- VCR and remote viewing

Size: 12.5”W, 3.25 H, 10.0”D (31.7 cm W, 8.2cm H, 4cm D)

Weight: 5.251bs (2.4Kg)

Voltage /Hz: 100/120/220/240 Volts and 50 Hz or 60 Hz auto sensed by input voltage.

Printer: High resolution video printer

Date/Time: Built in clock calendar

Data Entry: Full alpha numeric via touch screen.

2. **A-Scan:**

**Probes:** 10 MHz focused internal fixation light; Solid Tip or Soft Touch.

**Measurements:** ACD, Lens, Vitreous, and Axial Length using individual zone velocities and movable gates.

**Formulas:** Holladay, regression-II, Theoretic/ T Binkhorst, Hoffer-Q, Haigis (Optional)

**Modes**
- Automatic and Manual Cataract, Dense Cataract, Aphakic & pseudophakic (PMMA, Acrylic, Silicone and Custom)

**Review:** Stored A-Scan Patterns, A-Scan measurements, and statistics.

**Statistics:** Average, Std. Deviation, Range and Maximum difference from average.

**Calculations:** 6 constants per user profile, 9 user selected IOL powers vs. refraction, personalized A-constants and surgeon factors.

**Displays:** Multiple screens available for tabled, summarized and compared calculations.

**Memory:** Stores 5 scans and measurements, selected formula, IOL, constants and user name.

**Accuracy:**
- Electronic: ± 0.23mm
- Clinical: ± 0.1mm

**Range:**
- Automatic Mode: 18-33 mm
- Manual Mode: 0.5-35mm
Callibration: Automatic with built-in calibration cylinder.

Report Date: Patient Name, ID # Eye Examined, K-readings, User Name, Date, Time, Immersion On/Off.

Post Refractive Formulas: Latkany Myopic Regression, Latkany Hyperopic, Aramberri Double-K.

3. B-Scan

Probe 10 MHz. MHz, Focused Transducer, 30 Frames/Sec.

Measurements Distance and area

Amplifier 100 dB Gain, Logarithmic/Linear/S-Curve, Gain and TVG

Controls Magnification Continuous Zoom (0.5x – 2.0x) with Pan (joystick controlled)

Display Resolution 640 x 480 pixels, color VGA with optimal tissue resolution of 0.15mm

Processing Reject below level, enhance contour and texture

Freeze Foot pedal or touch screen activated

Image B-Scan with simultaneous selectable Vector A-Scan

Display emphasized 60 deg. Sector fan, 128 lines, Gray scale, B/a presentation (B emphasized)

OD/OS, Velocity, Date/Time Or A/B (A emphasized gain TVG Electronic scale, Amplifier, Probe Orientation, Patient and User Name

- Maintains high resolution at all magnifications
- Pan feature using built-in “joystick” control
- Gain and TVG controls for optimal diagnostic capability
- Selectable color or Gray scale image
- Software enhancement capability of frozen image
- Selectable, simultaneous A-Scan Ventor
- Sealed B-Scan probe provides smooth scanning with virtually no audible sound
- Five user selections
SPECIFICATION OF H₂O₂ STERILIZER - One

Processing time (1 cycle) : Approx. 60 min.
Sterilizing temperature : 50°C
Chamber Size : 76L
Chamber shape : Square
Power : 200 V / three phase
Exhaust and other : No need
H₂O₂ : Cartridge supply
Size : 1630 (H) x 750(D) x 640 (W) mm
Weight : 260 kg
Hydrogen Peroxide : 59% concentration

- H₂O₂ Cartridge shelf life of 2 weeks after initial placement.
- Sterilizer should have capability to detect expired or reuse of H₂O₂ Cartridge.
- The Sterilizer must have capability to automatically decompose 59% concentrated H₂O₂ (liquid) to gas. H₂O₂ Gas should go in to tubes for high sterilized performance.
- 4 times H₂O₂ injection technology for better penetration even to complicated equipments.
- Chamber should have viewport to see inside & LED to check placement of the equipment.
- Slides racks with adjustable height.

Electrophysiology System compact all in one stimulator
Bioelectric amplifier with 2 channels with table
Medical isolation transformer 600 VA
Desktop PC with 19 inches color monitor
Small electric table for stimulator
Program for standard flash and pattern ERG and VEP
Program for Standard sensory EOG
Optical correction set with large field size (for Multifocal ERG)
Kit of electrodes (includes 10 ERG jet and 10 Cupula Electrodes) Program for Multifocal ERG
Printer, table for PC

Options
Update from 2 to 5 channels
Additional color stimulator for advanced electrophysiology (high luminance and color)
Portable flash stimulator with white stimuli for flash ERG and VEP on babies
Dynamic EOG (Electronystagmography) 4 channels recommended.

The Flash Stimulator
1. Ganzfeld stimulator with motorized head rest.
2. In agreement with ISCEV (international society of electro physiology of vision) standards for ERG VEP and EOG
3. With red fixations lights (center, 15 degrees left, 15 degrees right)
4. White background with luminance programmable from 0.1 up to 1000 cd/m2 by step of 0.1 log unit.
5. Stimulus duration programmable from 5 ms up to 200 ms
6. Stimulus intensity programmable from 10-5 up to 15 cds. M-2 by steps of 0.1 log unit, moncolor plus up to 150 cd.sm-2
7. Background and stimulus colour programmable as white, violet, blue, yellow, red, deep-red,
8. Near infra red video monitoring with capability to measure pupil size.

The pattern Stimulator
1. Pulsed LED backlight in order to reduce variations of measured implicit time between top and bottom of monitor.
2. Luminance controlled LED backlight to eliminate luminance artifacts during pattern stimulations in ERG and VEP
3. Minimus resolution of 1024X 768.
4. Programmable luminance (up to 100 cd/m2), contrast and colour.
5. Programmable pattern size, stimulation mode (pattern reversal, pattern on off).
6. Capability to produce rapid sweeps of spatial frequency (for the measurement of visual acuity).

Hand held stimulator
1. Hand-held
2. Programmable intensity up to 300 cd.sm-2
3. Stimulates both eyes simultaneously

Amplifiers and date acquisition
1. Number of channels = 2 (5 as option)
2. Input impedance = at least 10 Mohms
3. Input noise level <0.5 micro V
4. Resolution level <0.5 micro V
5. Dynamic input range =±3.2m V
6. Common mode rejection ration>110dB
7. Automated control of electrode impedance.
8. Sampling rate = up to 10 KHz
10. Band pass (Minimus) from 0.1 up to 1000 Hz.
11. Programmable notch filter.

General specifications for software
1. Standard PC with standard OS (windows 7)
2. Unique database for all applications
3. Easy back-up of results on DVD or external disk.
4. Database accessible from other PCs through computer network.
5. Easy export of results as digital files
6. Such as pdf.
7. Easy export of data to spread sheet
8. For research studies.
Specification for VEP and ERG software

1. Standard test protocols as recommended by ISCEV.
2. Possibility for user to define his own test protocols.
3. Possibility to save all individual responses and to validate / invalidate them individually
4. Automated artifact rejection
5. Automated detection of responses peaks.
6. Automated statistical analysis of responses indicating their statistical reliability.
7. Possibility for user to enter his own normal data and to perform a statistical comparison of normality.
8. Possibility of frequency analysis and oscillatory potential analysis.
Optical System: Telecentric optics with Three independent Telescopic system (one for each angle)

Field Angles: 50°, 30°, 20°

Viewing magnification: 11x, 19x, 30x

Tilting Angle: +/- 45 Deg Horizontal, +15 Deg/-10 Deg vertically using a hand wheel.

Observation: Monocular, special 10x eyepieces with Focusing reticule.

Working distance: 42mm (Front lens to patient’s eye)

Ametropia Compensation: ± 30 diopter

Flash rate: 1 per second

Flash steps: 25

Filters: Green (Red free), blue, fluorescein Angiography. Indocyanine green ICG) angiography, Auto

Fluorescence

Digital Camera for color & FA: At least 5 Mega pixel True Medical grade camera.

Response time: Response time of Viewing image on monitor should not more than 2 sec after image captured.

Instrument table: Imported Asymmetrical motorized suitable for patients in wheel char.

Auto Fluorescence & ICG: 1.4 Megapixel (1388 x 1388) camera for Auto fluorescence & ICG.

Pixel size: 6.45 x 6.45 Micron

Software for Digital Fundus Image And Archive Management: Advance data base system with Multi visit recall, DICOM conformance, Integration of OCT Image, PDT calculation, Certified measurement accuracy (Absolute measurement), cup to Disc ratio, Disc diameter, Mapping for Montage, Dynamic comparison, Anterior segment imaging, Stereo imaging etc.

Archiving: Archiving on NAS drive of at least 1 TB.

- Automatic selection for all filters, camera sensor, diaphragm, flash energy.
The observation & documentation light sources should be placed on two different axis.

GT-9/Bio/RPC/SSK/12-13

**Clinical Biochemistry Analyzer**

A complete set of Clinical Biochemistry Analyzer system (include fully automated, scalable, biochemistry analyzer instrumentation, software and all necessary accessories) with highest quality performance in sensitivity and reproducibility for up-gradation of existing Clinical Biochemistry Laboratory.

1. **Applications of Clinical Biochemistry Analyzer:**

   The hardware and software of the system must be capable to perform following clinical Biochemistry profile:

   (a). General Chemistry  
   (b). Electrolytes  
   (c). Enzymes  
   (d). Diabetes management  
   (e). Cardiovascular disease  
   (f). Thyroid  
   (g). Drugs of Abuse  
   (h). Toxicology  
   (i). Antimicrobials  
   (j). Antiarrythmics  
   (k). Therapeutic Drug Monitoring  
   (l). Immunosuppressive Drug Monitoring  
   (m). Specific Proteins  
   (n). Prostate Cancer

2. **System should be/have:**

   (a). Floor Model  
   (b). Multi-channel  
   (c). Fully Automated Random Access  
   (d). Auto rerun  
   (e). Auto-dilution without operator involvement
(f). Automatic reflex testing
(g). Auto-calibration for electrolytes
(h). Sample level sense warns of low volumes prior to processing

3. System should have on board automatic disposable cuvette production and sealing system.
4. System should have automatic reagent and sample preparation facility
5. System should have capability to load the reagent and samples without instrument pause
6. System should have low calibration frequency with minimal maintenance.
7. System should have throughput of >400 tests/Hour.
8. Assay Modes: End point, Rate, Fixed point and Indirect ISE.
9. Analytical Methods: Colorimetry, Turbidimetry, Latex agglutination, Homogeneous EIA, Indirect ISE.
10. Sample Loading: Minimum of 40 sample or more positions with continuous Loading.
11. System should have true on board refrigeration to give better stability of reagents and samples.
13. STAT Facility: Facility for continuous loading of STAT samples without interrupting the routine run. Minimum 10 STAT sample positions for very urgent samples.
15. Reaction volume: 60 - 400 µl.
17. Photometer: multi-wavelength grating photometer (ranging from 340 - 800 nm).
19. Quality control: real time, individual and cumulative quality control. Automatic QC programming required.
20. Compatible RO Water plant to be supplied.
21. System should have average noise output: <70 dBA at 1 m while operating
22. System Should have facility to open for use of other reagents as per requirement
23. Data storage: 100,000 patient samples.
24. Interface: uni-directional and bi-directional communication possible.
25. The system should have DICOM 3.0 compliant interface and enabled for networking connectivity to linux/ windows based servers/ clients with patients ID labeling and integration to generic Hospital Information System/ PACS.
26. All necessary reagents for complete workflow should be provided by vendor for demo and training purpose.
27. Rate of all necessary reagents/chemicals for complete workflow should be quoted, which will be valid for 5 years (will be purchased on rate contract basis as per requirement).

28. Onsite application training of all project staff and continuous technical support from qualified application scientist & service engineers should be provided by vendor till warranty period.

**Instructions**

- The selection committee reserves the rights to select the instrument based upon the suitability and sensitivity applicable for the utility for which this instrument would be purchased based on the performance details provided.
- Vendors are instructed to follow the exact sequence of items as listed/mentioned in the tender specification sheet/s for quoting their tender. The quoted tender for technical bid and price bid will be summarily rejected, if the quoted specification compliance sheet/s not found according to the sequence of the items as listed in the tender specification.
- Please quote only for New Branded machine/s. If it will be find during any period of time that Refurbished/Repaired/Second Hand instruments has supplied and installed instead of new branded machines, an immediate action will be taken against the distributor/manufacture as per the rules and regulations of AIIMS. And both distributor and manufacturer will be black listed for forever for supplying any kind of instruments to the Government’s Research Organization, Hospitals, Laboratories etc. in any where in India.
- Relevant literature and publications that support the quoted model's ability to perform all of the above capabilities must be attached.
- The entire tender specifications claim about the instrument quoted need to be supported with technical specifications published in manufacturer’s technical bulletin/technical notes/technical brochure etc., which must be attached to prove their specification claim, without which it will be assumed that claim is not correct and cannot be considered for technical comparison. Quoted specifications will also be verified from the manufacturer’s website.
- A detailed specification sheet highlighting all above specs along with detailed experimental conditions must be attached.
- If required the vendor must be able to demonstrate to the person(s) deputed by the selection committee (along with the experimental conditions decided) to ensure the sensitivity/resolution claims of their make of equipment before opening the financial bid.
- Spares should be given in adequate numbers to maintain 5 years trouble free consumable spare maintenance.
- Please mention about the superior performance details of any unique technology adopted/design which is protected by intellectual property rights (give patent details) to support the claim of the manufacturer of the instrument.

GT-10/Bio/RPC/SSK/12-13

**Clinical Immunoassay Analyzer**

A complete set of Clinical Immunoassay Analyzer system (include automated, scalable, immunoassay analyzer instrumentation, software and all necessary accessories) with
highest quality performance in sensitivity and reproducibility for up-gradation of existing Clinical Biochemistry Laboratory.

1. Applications of Clinical Immunoassay Analyzer:

The hardware and software of the system must be capable to perform following clinical immunoassay profile:

- (d) Thyroid
- (e) Fertility
- (f) Cardiovascular
- (g) Adrenal/Pituitary
- (h) Tumour Markers
- (i) Bone metabolism
- (j) Infectious Disease
- (k) Blood Viruses
- (l) Diabetes
- (m) Allergy
- (n) Anemia
- (o) Growth
- (p) Infectious Disease
- (q) Inflammation marker
- (r) Reproductive
- (s) Endocrinology
- (t) TDM
- (u) Turbo assay
- (v) Prostate Disease

2. System should be Fully Automated Random Access Immunoassay Analyzer based on Chemiluminescence technology.

3. System should have minimum 20 or more reagents onboard capacity at any point of time so that min 20 tests/sample can be performed at a time.

4. System should have a facility of continuous loading of reagents so as to make it a true automation system.

5. System should have true on board refrigeration (3-10°C) to give better stability of reagents on board.

6. Facility for Emergency/STAT samples should be available.

7. System should have facility to load min 60 samples at one time with continuous loading facility.

8. System should have capability for throughput analyser up to 100 tests/hour.

9. System should be supported with separate computer and should be capable of generating patient chartable report.

10. System should have real time QC software that provides real time statistical; analysis with Levey-Jenning charts with West Guard rules.

11. System should be equipped with bar code reader facility for samples and reagents.
12. Samples should be directly placed in primary tubes of different sizes, sample cups, pediatric cups.

13. Mixing of reagent, samples and liquid level sensing should be preferably with ultrasonication.

14. System should have real-time clot detection facility.

15. Sample types (assay dependent): Serum, plasma, Urine, whole blood, Amniotic fluid.

16. The system should have DICOM 3.0 compliant interface and enabled for networking connectivity to Linux/Windows based servers/clients with patients ID labeling and integration to generic Hospital Information System/PACS.

17. Branded computer system with 2.8 GHz processor, 500GB HDD, 4GB RAM, 24” LED monitor with keyboard and mouse. Compatible online UPS with 30 minutes backup to support the entire system.

18. Suitable tables/Platform should be provided

19. All necessary reagents for complete workflow should be provided by vendor for demo and training purpose.

20. Rate of all necessary reagents/chemicals for complete workflow should be quoted, which will be valid for 5 years (will be purchased on rate contract basis as per requirement).

21. Onsite application training of all project staff and continuous technical support from qualified application scientist & service engineers should be provided by vendor till warranty period.

Instructions

- The selection committee reserves the rights to select the instrument based upon the suitability and sensitivity applicable for the utility for which this instrument would be purchased based on the performance details provided.

- Vendors are instructed to follow the exact sequence of items as listed/mentioned in the tender specification sheet/s for quoting their tender. The quoted tender for technical bid and price bid will be summarily rejected, if the quoted specification compliance sheet/s not found according to the sequence of the items as listed in the tender specification.

- Please quote only for New Branded machine/s. If it will be found during any period of time that Refurbished/Repaired/Second Hand instruments has supplied and installed instead of new branded machines, an immediate action will be taken against the distributor/manufacturer as per the rules and regulations of AIIMS. And both distributor and manufacturer will be blacklisted for forever for supplying any kind of instruments to the Government’s Research Organization, Hospitals, Laboratories etc. in any where in India.

- Relevant literature and publications that support the quoted model’s ability to perform all of the above capabilities must be attached.

- The entire tender specifications claim about the instrument quoted need to be supported with technical specifications published in manufacturer’s technical bulletin/technical notes/technical brochure etc., which must be attached to prove their specification claim, without which it will be assumed that claim is not correct and cannot be considered for technical comparison. Quoted specifications will also be verified from the manufacturer’s website.

- A detailed specification sheet highlighting all above specs along with detailed experimental conditions must be attached.
If required the vendor must be able to demonstrate to the person(s) deputed by the selection committee (along with the experimental conditions decided) to ensure the sensitivity/resolution claims of their make of equipment before opening the financial bid.

Spare should be given in adequate numbers to maintain 5 years trouble free consumable spare maintenance.

Please mention about the superior performance details of any unique technology adopted/design which is protected by intellectual property rights (give patent details) to support the claim of the manufacturer of the instrument.

GT-11/Bio/RPC/SSK/12-13

**Cytogenetic System**

A complete set of Cytogenetic system (include automated, scalable, cytogenetic instrumentation, software and all necessary accessories) with highest quality performance in sensitivity and reproducibility for establishment of Ocular Cytogenetic Workstation.

1. **Applications of Cytogenetic System** :

   The hardware and software of the system must be capable to do the following applications:

   (a). Fluorescence *in situ* hybridization (FISH)
   (b). Multiplex Fluorescence *in situ* hybridization (mFISH)
   (c). Comparative genomic hybridization (CGH)
   (d). Spectral karyotyping (SKY)
   (e). Karyotyping
   (f). Metaphase determination

2. **Cytogenetic System**

2. 1 **Microscope**

   (a). Microscope frame should have built-in motorized focus
   (b). Should be equipped with 12V 100W transmitted light illumination
   (c). Motorized X, Y and Z-focus should be motorized with step size of 10-25nm or better.
(d). Trinocular tube should be inclined at 30 degree for comfortable observation with 3 light path selection (20:80, 100:0, 0:100).
(e). Motorized Aplanatic Achromatic condenser with N.A. 1.4
(f). Motorized sextuple revolving nosepiece with slider slot for DIC
(g). **Motorized Stage**: X-Y scanning stage with adapter for slide feeder stage (at least 9 slides or better at a time).
(h). 6-10 position motorized FL wheel slider for holding the excizers
(i). **Objectives**: Plan Fluor 10x, 20x 60x, Plan Apochromat 100x/1.4 oil should be quoted as standard part of configuration.
(j). Should have 6 or more position motorized reflector turret and equipped with 100W mercury illumination.
(k). Microscope should have external touch pad to control the motorized parts of microscope.
(l). **Digital Camera**: Peltier cooled -20 deg (absolute) CCD with 2/3” 12 Bit, high quantum efficiency monochrome cooled CCD camera 1280x 1024 resolutions with pixel size of 6.7µm x 6.7µm or better.

2.2 Filters for FISH microscopy

(a). Single Exciter for DAPI
(b). Single Exciter for Spectrum Green
(c). Single Exciter for Spectrum Orange
(d). Dual Exciter for Spectrum Green / Spectrum Orange
(e). Triple Exciter for DAPI / Spectrum Green / Spectrum Orange
(f). Multi band pass Dichroic Mirror
(g). Multi band pass Emission Filter
(h). Filter Cube Aqua
(i). Filter Cube Spectrum Gold

2.3 Automated Metaphase Finder with slide holding capacity

(a). Automated Metaphase finder system with 9 slide capacity for scanning both in Bright field and Fluorescence
(b). Automatic quality ranking of metaphases.
(c). Fully automated scan in magnifications of 1.5x and above.
(d). Automatically relocate, focus and capture of all metaphases in high magnification.
(e). Single button press to acquire all cells
(f). Analysis or Review of previously scanned data may be performed at the same time of the scanning process.
(g). Ability to see the gallery of found images in 8 or more zoom factors.
(h). High quality real time cell gallery display during capture as well as slide view with cell location and statistics. Simple training to any sample type in Bright field & Fluorescence based on 3 example metaphases

2.4 Software for cytogenetic applications:
Suitable software to perform and automatic control the experiment and analysis for following cytogenetic application: i.e FISH, mFISH, CGH, SKY, Karyotyping, Metaphase determination.

2.5 Cytogenetic system must have the following capabilities:

(a). Single user interface for Karyotype, SKY, FISH, CGH, and m-FISH
(b). Automated scanning and capture of metaphases and interphase nuclei in bright field for karyotyping.
(c). Should have capability to take 3D stack of FISH
(d). Should have feature of comparison of all pairs from all karyotype made and opportunity to compare pairs in once shot prints for multicell analysis.
(e). Opportunity to create infinite layouts of prints
(f). Different planes of focus of same fluorochrome can be better acquired
(g). Combination of chromosomes in FISH with bright field or other techniques acquired on the same or different case and building of karyotype on FISH images.
(h). Should also features to study profiles on single and multiple chromosome using ideogram.
(i). System must be capable of uninterrupted scan, classify and capture of metaphases and interphase nuclei.
(j). Should have integral archiving of patient and lab data onto high capacity media.
(k). Flexible reporting capabilities.
(l). System must be capable of remote accessing of data via internet.

3. Branded computer system with 3.3 GHz processor, 500GB HDD, 4GB DDR3 800 MHz Dual Memory RAM, Advanced Graphics card nVidia Geforce 95 GT 512 MB, Microsoft windows 7 system, Integrated Broadcom NetXtreme Gigabit Ethernet, DVD writer, 27” LED monitor with keyboard and mouse.

4. Compatible online UPS with 30 minutes backup to support the entire system.

5. Suitable tables/Platform should be provided

6. All necessary reagents for complete workflow that includes sample prep should be provided by vendor for demo and training purpose.

7. Rate of all necessary reagents for complete workflow that includes sample prep etc. should be quoted, which will be valid for 5 years (will be purchased on rate contract basis as per requirement).

8. Onsite application training of all project staff and continuous technical support from qualified application scientist & service engineers should be provided by vendor till warranty period.

Instructions
The selection committee reserves the rights to select the instrument based upon the suitability and sensitivity applicable for the utility for which this instrument would be purchased based on the performance details provided.

Vendors are instructed to follow the exact sequence of items as listed/mentioned in the tender specification sheet/s for quoting their tender. The quoted tender for technical bid and price bid will be summarily rejected, if the quoted specification compliance sheet/s not found according to the sequence of the items as listed in the tender specification.

Please quote only for New Branded machine/s. If it will be find during any period of time that Refurbished/Repaired/Second Hand instruments has supplied and installed instead of new branded machines, an immediate action will be taken against the distributor/manufacturer as per the rules and regulations of AIIMS. And both distributor and manufacturer will be black listed for forever for supplying any kind of instruments to the Government’s Research Organization, Hospitals, Laboratories etc. in any where in India.

Relevant literature and publications that support the quoted model's ability to perform all of the above capabilities must be attached.

The entire tender specifications claim about the instrument quoted need to be supported with technical specifications published in manufacturer’s technical bulletin/technical notes/technical brochure etc., which must be attached to prove their specification claim, without which it will be assumed that claim is not correct and cannot be considered for technical comparison. Quoted specifications will also be verified from the manufacturer’s website.

A detailed specification sheet highlighting all above specs along with detailed experimental conditions must be attached.

If required the vendor must be able to demonstrate to the person(s) deputed by the selection committee (along with the experimental conditions decided) to ensure the sensitivity/resolution claims of their make of equipment before opening the financial bid.

Spares should be given in adequate numbers to maintain 5 years trouble free consumable spare maintenance.

Please mention about the superior performance details of any unique technology adopted/design which is protected by intellectual property rights (give patent details) to support the claim of the manufacturer of the instrument.
Live Cell Imaging System

A complete set of Live Cell Imaging System (include automated, scalable, Fully Motorized Inverted Research Microscope for Bright Field, DIC and Fluorescence with Live Cell imaging facility, software and all necessary accessories) with highest quality performance in sensitivity and reproducibility for establishment of Ocular Cell/Tissue Imaging Facility.

1. Applications of Live Cell Imaging System:

The hardware and software of the system must be capable to do the following applications:

(a). Ocular Stem Cell
(b). Retinal Cell biology
(c). Corneal Cell biology
(d). Ocular Cell biology
(e). Retinoblastoma biology
(f). Developmental biology etc.

2. Live Cell Imaging System:

2.1 System should have Fully Motorized (Automated) Inverted Research Microscope for Bright Field, DIC and Fluorescence with Live Cell imaging facility

2.2 System should have Phase contrast, Epi-fluorescence, High resolution, DIC, Bright field, Simultaneous DIC and Fluorescence observation capability.

2.3 Microscope Body:
(a). Should have Multi-port design Microscope body with Infinity optical corrected optical system  
(b). Should have Motorized 4 way or more light distribution path, up/ down motorized focusing  
(c). Should have maximum input/output side port for attaching digital camera etc.  
(d). VFD/TFT screen and operation buttons on front of the microscope body for verifying microscope status  
(e). Phase ring can be incorporated in the microscope body which allows use of high N.A. objective/s to produce high resolution phase contrast images without the use of light attenuating phase contrast objectives, Binocular tube with diopter adjustment facility  
(f). Built-in 1.5x magnifier or better

2.4 Condenser : Universal Motorized turret condenser (suitable for all microscopy techniques) with 5 position

2.5 Illumination :  
(a). Should have built –in Koehler illumination for transmitted light  
(b). Should have 12V 100W Pre-centered Halogen Illumination.  
(c). Should have at least 120/130W metal halide/mercury light illuminator with lamp lifetime of 2000 hours or more for fluorescence and long term observation.  

2.6 Eyepieces : 10X paired wide field, high eye point eye piece with F.O.V 22mm or higher and diopter adjustment facility on both eyes

2.7 Nosepiece : Motorized sextuple revolving nosepiece with built-in hardware based auto focus facility to detect automatically the surface of the cover-slip optically and continually corrects focus to compensate for even the most infinitesimal changes. Should have LED based detection to cover entire spectrum upto 870 nm.  

2.8 Stage : XY Motorized stage with Joystick control with universal holder

2.9 Focusing system : Should have fully automated motorized coaxial coarse and fine focusing knob with minimum fine reading of 5 nm or better.  

2.10 Objectives : High performance Plan Apochromat Objectives suitable for Bright-field, Fluorescence and DIC observation with facility of coverglass correction.
(a) 2X (N.A 0.10, W.D 8.50mm),
(b) 4X (N.A 0.20, W.D 20.00mm),
(c) 10X (N.A.0.45, W.D.4.0mm),
(d) 20X (N.A.0.75, W.D.1.0mm),
(e) 40X (N.A.0.95, W.D.0.21mm)
(f) 60X (Oil) (N.A.1.40, W.D.0.21mm)
(g) 100X (Oil) (N.A.1.45, W.D.0.13mm)

2.11 Epi-Fluorescence attachment:

(a) Motorized Epi-fluorescence shutter with Motorized 6 position turret filter block
(b) Position of fluorescence filter cubes should be changeable in 0.3 sec per position
(c) Should have Noise Terminator Mechanism for high signal to noise ratio images with Precentred Mercury Fibre Illuminator/ Metal Halide 120w/ 130W with facility for no heat and electrical noise transfer from lamp to the microscope body
(d) Lamp should have lifetime of 2000 hrs.
(e) Band pass Fluorescent filters for FITC/GFP (Ex 465-495, DM 505, BA515-555), TRITC/Rhodamine (Ex 540/25, DM 565, BA605/55), DAPI/Hoechst
(f) Filters should not have cross talk

2.12 DIC Attachment: DIC prisms and modules for all objectives

2.13 Digital Camera:

(a) Digital camera with Dual 2/3” CCD chip (color and monochrom) camera suitable for both fluorescence and bright field application, Camera should be capable of handling very low Light Fluorescence Images.
(b) 1.50 Million (1392x1040) Total Pixel Resolution (1.45 Net)
(c) Pixel Size of 6.45um X 6.45um
(d) Binning Mode : 2x2, 4x4,
(e). 18.9 FPS at Full Resolution, 48 FPS or more Max. Frame Transfer Rate with Bining & ROI
(f). Peltier Cooling to 10ºc below ambient
(g). Linear Full Well Capacity of 17,000e-
(h). Readout Noise 8 E-
(i). Exposure Time 1ms to 600 Seconds.
(j). Fire Wire Port with a single wire for easy installation having reducing C-Mount of 0.7x Lens for covering wider field of view.

2.14 Software:

Advance Research Imaging Software for fully automated acquisition and device control through full six-dimensional image acquisition and analysis (X, Y, Z, Time, Multi Channel and Multipoint) should have following features:

(a). Image Acquisition
(b). RAM capture
(c). Time Lapse Imaging
(d). Z-Stack, Multi-channel Fluorescence, Multi-Position, Annotation,
(e). 2D / 3D View, ND Viewer, Filter, Morphology, Large Image,
(f). Macro, Segmentation, Auto-measurement, Report Generator facility,
(g). Data Base, Vector layer & Multi-Dimensional File Format (ND format)

2.15 CO₂ Incubator System :

(a). Software controlled On Stage CO₂ chamber with acrylic housing for maintaining the viability of cells for long term live cell imaging application.

(b). Built-in CO₂ digital concentration meter.

3. All the motorized microscope part should be controlled with dedicated touch panel control as well as imaging software.
4. Microscope, Camera and Software should be from same manufacturer for better compatibility.
5. Branded computer system with 2.8 GHz processor quad-core i5 or better, 500GB HDD, 4GB RAM, 24” LED monitor with keyboard, mouse and all-in-one laser printer.
6. Compatible online UPS with 30 minutes backup to support the entire system.

7. Suitable tables/Platform should be provided

8. All necessary reagents for complete workflow should be provided by vendor for demo and training purpose.

9. Onsite application training of all project staff and continuous technical support from qualified application scientist & service engineers should be provided by vendor till warranty period.

**Instructions:**

- The selection committee reserves the rights to select the instrument based upon the suitability and sensitivity applicable for the utility for which this instrument would be purchased based on the performance details provided.

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- Relevant literature and publications that support the quoted model's ability to perform all of the above capabilities must be attached.

- The entire tender specifications claim about the instrument quoted need to be supported with technical specifications published in manufacturer’s technical bulletin/technical notes/technical brochure etc., which must be attached to prove their specification claim, without which it will be assumed that claim is not correct and cannot be considered for technical comparison. Quoted specifications will also be verified from the manufacturer’s website.

- A detailed specification sheet highlighting all above specs along with detailed experimental conditions must be attached.

- If required the vendor must be able to demonstrate to the person(s) deputed by the selection committee (along with the experimental conditions decided) to ensure the sensitivity/resolution claims of their make of equipment before opening the financial bid.

- Spares should be given in adequate numbers to maintain 5 years trouble free consumable spare maintenance.

- Please mention about the superior performance details of any unique technology adopted/design which is protected by intellectual property rights (give patent details) to support the claim of the manufacturer of the instrument.
A complete set of Tissue Regenerative Bioreactor System (including Fully Motorized Scaffold Bioreactor, instrument, software and all necessary accessories) with highest quality performance in sensitivity and reproducibility for establishment of Ocular Tissue Regenerative & Bioengineering Facility.

1. **Applications of Tissue Regenerative Bioreactor:**
   The hardware and software of the system must be capable to do the following applications:
   
   (g). Ocular Regenerative medicine
   (h). Ocular Tissue bioengineering
   (i). Ocular Translational medicine
   (j). Ocular Tissue transplant

2. **Tissue Regenerative Bioreactor:**
   
   (a). Should have independently controlled drive axes for biaxial revolution, single axis or swing modes.
   (b). Should have flexible operational modes – Biaxial, Uniaxial, Swing modes
   (c). Should have efficient fluid transport within the 3D scaffolds - allowing optimal nutrients and waste exchange to and from the cells, to penetrate the deepest core of the scaffolds.
   (d). Should have spherical design of vessel for reduces drag and promoting uniform fluid mixing, which accelerate cell growth, differentiation and cell proliferation, mimicking native extracellular matrix.
   (e). Should support homogenous cell culture at the surface and core of the 3D scaffolds
   (f). Should be able to maintain functionality and viability of tissue constructs
   (g). Should be able to promote integration of implants with surrounding tissue and should support the structural integrity in regeneration of tissues and/or organs
(h). Should have continuous perfusion with integrated selectable speed peristaltic pump (flow rates from 3 to 500 ml/min)

(i). Should have oxygenator unit to facilitate gaseous exchange 6-port medium reservoir with sensor bank (for optional temperature, pH, oxygen probes)

(j). Should have heat isolated system drivers and controller in a separate console

(k). System may be placed in a CO2 incubator when desired and should be quoted with suitable CO2 incubator.

(l). Should have weight-balanced rotary arm for 500 ml and 1000ml spherical chamber

(m). Should have built-in sensors to detect arm angle and positions for fully programmable operations

(n). Should have tubing holders to secure excess tubing for obstruction free movement

(o). Should have dual chamber-cap design for easy loading and unloading of tissue scaffolds without removing tubing.

(p). Should be supplied with oxygenator/ gas membrane for gas diffusion

(q). Should have sterile rotary couplings for controlled continuous perfusion of nutrients through the culture chamber

(r). Should have transparent, unobstructed view of tissue constructs during operation.

(s). Should have auto, jog and manual functions for pre-set to various speeds, directions and arm angles to optimise cell culture conditions.

(t). Should have User-friendly remote touch screen controller for complete management of system while unit is inside a laminar flow chamber and a CO2 incubator.

(u). Following accessories should be supplied:

   i. Console unit
   ii. Spherical glass vessel of 500 ml x 2
   iii. Spherical glass vessel of 1000 ml x 2
   iv. Integrated peristaltic pump 6-port medium reservoir
   v. Tubings and connectors starter kit x 10
   vi. Scaffolds starter kit x 10
   vii. Applikon set of probes (temperature, pH, oxygen)
   viii. Applikon mass flow controller (air, carbon dioxide)
   ix. Applikon controller (includes rotameter, sensors, Acquisition Software)
   x. Oxygen cylinder x 2 (B type with regulator and trolley stand)
   xi. CO2 cylinder x 2 (B type with regulator and trolley stand)

3. All necessary consumables for complete workflow should be provided by vendor for demo and training purpose.

4. Onsite application training of all project staff and continuous technical support from qualified application scientist & service engineers should be provided by vendor till warranty period.

Instructions:
The selection committee reserves the rights to select the instrument based upon the suitability and sensitivity applicable for the utility for which this instrument would be purchased based on the performance details provided.

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GT-14/U-III/RPC/SSK/12-13

**High Resolution 3-dimensional OCT with cornea module**

High resolution 3-dimensional optical coherence tomography with axial resolution of 3 to 5 microns. The minimum scan speed should be 23000-26000 A-Scan per second and the transverse resolution should be about 15 to 20 microns. The pupil size requirement should be less than 3mm and minimum field view should be 26 degree. Both internal and external fixation should be possible.
The corneal module should include the cornea analysis including the angle measurement, central pachymetry, Lasik Flap measurement, 3 dimensional view of the cornea, true corneal power and keratoconus analysis.

The analysis of retina should be possible which should include the total macula thickness inner retinal thickness, outer retinal thickness, elevation of various retinal layers, volumetric analysis and blood vessel registration.

The glaucoma analysis should include the retinal nerve fiber layer analysis and optic nerve head analysis.

It should be mounted on a motorized table with computer, photo quality printer and UPS. It should be FDA approved.
High Definition UBM Imaging System
1. High frequency, high definition ultrasound 50 MHz Probe with lateral resolution 50 micron, axial resolution 25 micron.
2. A water bath attachment eliminates the need for immersion imaging.
3. High resolution still image and live video capture (digital).
4. Distance accuracy not less then ±0.2 mm angle accuracy ±3.0° area accuracy ±0.1mm²
5. PC based control and display system (OS Window XP).
6. Fully networkable.
7. Image Storage: Minimum of 80 GB or more along with hard drive with DVD drive.
8. May also quote for 10 MHz separately.
9. UPS compatible & CVT
10. System should be FDA/ CE approved.
SPECIFICATION FOR THE LATEST GENERATION PHACOEMULSIFICATION MACHINE.

Machine should have fully programmable, multi processor control, peristaltic system with high performance four or more crystal with lightweight piezoelectric 40+_ 5 khz handpiece.

Should have the ability to drive torsional handpiece compatible with new generation tips like kelman, flared, mini flared and aspiration bypass tips in 1.1mm or 0.9mm configurations.

Should have aspiration flow rate capabilities upto 100cc/min in both linear & fixed modes throughout all phaco/ia/vit submodes, vacuum level of 650+ mmhg in both linear & fixed modes throughout all phaco/ia/vit submodes.

High resolution footswitch with high sampling rate. Footswitch should be fully programmable and adjustable.

II. The energy delivery modes should have hyper pulse and burst hyperpulse mode should have capabilities to go upto 100 pps with variable duty – cycle from 5% to 95% IA mode should have the choice of cut i/a or i/a cut. Ability to drive a 23ga pneumatic cutter for anterior Vitrectomy upto 2500cpm. Vitrectomy setup guide for 23 & 25 ga. Should have the option for dynamic rise. Voice conformation during mode changes and wireless remote control. Color led display with touch screen and tiltable. Reflux via footswitch. Bipolar coagulation capability facility of overlaying parameters and name of the surgeon while recording of cases. FDA approved system.