

# GOVERNMENT OF CHHATTISGARH

Pt. J. N. M. Medical College,  
Raipur(C.G.) 492001



## TENDER DOCUMENTS

Tender No.:-11040

Tender Date;- 05/10/2023

Pre Bid Meeting Date;-

12/ 10/2023 at 01:00 PM

Last Date of Bid Submission;-

22/11/2023 at 12:00 Noon

Bid Opening Date;-

22/11/2023 at 01:00 PM

TENDER DOCUMENTS FOR PROCURMENT OF EQUIPMENTS/INSTRUMENTS  
FOR  
MULTIDISCIPLINARY RESEARCH UNIT, M.Sc. MEDICAL BIOTECHNOLOGY  
COURSE & OTHER DEPT.

Pt. J. N. M. Medical College, Raipur(C.G.)

Tender documents may be downloaded from institute's web site [www.ptjnmraipur.in](http://www.ptjnmraipur.in)

**TENDER NOTICE**  
For  
**TENDER DOCUMENTS FOR PROCURMENT OF EQUIPMENTS/INSTRUMENTS**  
**FOR**  
**MULTIDISCIPLINARY RESEARCH UNIT, MBT & OTHER DEPT.**  
**Pt. J. N. M. Medical College, Raipur(C.G.)**

**INVITATION OF BID**

Pt.J.N.M.Medical College Raipur invites bids for purchase, supply and installation of equipment as per the specification and approximate quantity give in “List” from manufacturers, OR their authorized dealers in to bid system containing(1) Pre qualification & Technical bid (2) Price bid.

**Eligibility Criteria-**

The following shall be the minimum eligibility criteria for selection of bidders technically and no relaxation in any terms will be accepted.

- i) The bidder must be manufacturer/Distributers/Suppliers of the equipments.
- ii) In case of Distributers/ Suppliers, Authorization Certificate from the Manufacturer must be attached by Bidder.
- iii) Bidders should have annual turnover of 01Crore each year for last 3 financial years.
- iv) The bidder should have their registered office/branch or distributor in Chhattisgarh (Documentary Proof required).
- v) Valid manufacturing license is essential (Document in support to be enclosed in the technical bid)

**Terms & Conditions-**

1. EMD of Rs Items wise has to be submitted in the form of Demand Draft in favor of Dean, Pt.J.N.M.Medical College Raipur from any Scheduled bank. Tender received without proper earnest money will be rejected straight away and no explanation shall be entertained in this regard.
2. Tender documents can be purchased from the office Dean, Pt.J.N.M.Medical College Raipur by paying Rs 1000 in Cash & Demand Draft drawn in favor of Dean, Pt.J.N.M.Medical College Raipur drawn on any Scheduled band and payable at Raipur. Tender documents can also be downloaded from the website [www.ptjnmcrapur.in](http://www.ptjnmcrapur.in) as per tender schedule. In such case, the tender fees of Rs.1000 in the form of D.D. has to be submitted along with the tender document.
3. Tender must be submitted through the speed post/registered post or courier approved by P &T department & Manual submission as per date & Time giver in tender schedule. The Tenderer or their representative may be present during opening of tenders if so desire.
4. The competent authority reserves all rights to accept or reject any tender without assigning any reason therein.
5. The quantity shown in the schedule is an estimated requirement and cannot be guaranteed that the same will be ordered. No undertaking can also be given that any quantity will be purchased at all.
6. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced will the tender quality goods, without any delay. The Institute reserves all right to reject the goods if the same are not found in accordance with the required description/specifications and liquidates damages shall be charged.
7. Full description & specifications, latest make/brand and name of the manufacturing firm must be clearly mentioned in the tender failing which the tender will not be considered.

8. Technical evaluation includes demonstration of items by the bidder in front of the Technical committee. Place of demonstration in Pt.J.N.M.Medical College Raipur (C.G.) Date and time of demonstration shall be communicated to the bidders.
9. Pt. J.N.M.Medical College Raipur shall have the right to inspect, test and where necessary, reject the Goods after the goods arrival at the final destination.
10. Items have to be delivered within 40 days of order placement. In case of non-delivery of items within this period, a penalty of 2% per month of the value shall be levied as per purchase rule.
11. No payment shall be made for rejected items. Rejected items must be removed by the bidders within 10 days of the date of rejection at their own cost and replaced immediately. No Extra Transportation Charges will be pay the College. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.
12. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.
13. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filed up carefully by the tenderer. All corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

**Bid Security: -**

- (i) The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in Table-I along with the Technical Bid by way of FDR in favor of “The Dean, Pt. J. N. M. Medical College, Raipur(CG)” drawn on any Nationalized Bank/ Scheduled Bank and payable at Raipur and must be valid for 1 Year. Bids received without tender fees and Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage. The original EMD will be put in Cover-A containing with Pre-qualification Technical bid.
    - a) The Public Sector undertaking of the Central/State Govt./MSEs/MSME/Registered with Central Purchase Organization are exempted from furnishing Earnest Money along with tender, subject to submission of its valid proof.
    - b) The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
    - c) Earnest Money deposited with Dean, Pt. J. N. M. Medical College, Raipur(CG) in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.
    - d) Declaration of Udyog Aadhar Memorandum (UAM) number by the vendors on CPPP is mandatory. The bidders who fail to submit the UAM number shall not be able to avail benefits available to MSE’s.
  - (ii) EMD is required to protect the purchaser against the risk of Bidders conduct. The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.
14. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.

15. Bidders are not allowed to submit more than one bid for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition to the forfeiture of the EMD.
16. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within twenty-one (21) days from the date of award of this tender in his favour and also required to furnish the **Security Deposit @ 10%** of contract value in the form of FD/BG/TD/CD for **three months extra of the contract period** from any Nationalised/Schedule bank duly pledged in favour of The Dean, Pt. J. N. M. Medical College, Raipur(CG) & payable at Raipur only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above after its validation for the required period. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 21 (twenty- one) days after the issue of **Letter of Award** of Work, his bid security (EMD) shall be forfeited and award of tender in suppliers favour automatically stands terminated at his cost & liability, unless time extension has been granted by The Dean, Pt. J. N. M. Medical College, Raipur (CG).
17. The EMD/PBG shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.
18. The bid shall be valid and open for acceptance by the Dean, Pt. J. N. M. Medical College, Raipur (CG) for a period of 180 (one hundred eighty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law.
19. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for Clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.
20. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions of the contract and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.
21. The Dean, Pt. J. N. M. Medical College, Raipur (CG) reserves all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any administrative term and condition/specifications of the tender enquiry after due discussion in pre-bid conference. This will be communicated and shown over the website of the Institute. No representation will be considered after pre-bid meeting and **bidders may ensure its queries only in pre-bid meeting.** Dean, Pt. J. N. M. Medical College, Raipur (CG) also reserves the right to reject any bid which in his opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.
22. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
23. The tender form is not transferable.
24. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
25. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the procurement and execution of this Tender.
26. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site.
27. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority

reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged in addition to the cost of re- tender. The supplier is required to provide the demonstration of equipment at Pt.J.N.M.Medical College, Raipur (C.G.) premises to the concerned representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the College's representative.

28. In case the bidder on whom the supply order has been placed, fails to make supplies within the delivery schedule and the purchaser has to resort risk purchase The Dean, Pt. J. N. M. Medical College, Raipur (CG)) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
29. Where the specifications are as per tenderer's range of products the tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as given below the financial bid.
30. It must be mentioned clearly whether bidder is a manufacturer/sole distributor/ sole agent for the items for which he is quoting.
  - a. **Manufacturer** must add a certificate that item(s) is manufactured by them as per range of products.
  - b. **Sole Manufacturers** must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
  - c. **Authorized agents** must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals signed by a competent person and comes in proforma given in attach must duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.
31. The bidders should have furnished a copy of GST/S.T. /C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected.
32. **Turnover provisions: -**
  - (i) The tenderers should submit along with the tender, a photo state copy of the last three years Annual Accounts with Audit certificate by Chartered Accountant, Income Tax returns and a copy of current valid income tax clearance certificate (IT CC), otherwise bidder will not be considered for administrative evaluation (in evaluation of Technical bid) and will be declared **disqualified** in technical evaluation.
  - (ii) In case of bidder falls under Section 44AD/44ADA/44AE of Income Tax shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.
33. **Sample/demonstration: -** In case, the item required prior submission of sample/ performing demonstration, tenderer will have to submit sample/perform demonstration of the equipment/item to the competent authority of the institute, the bidder will

have to born all the expenses for the same. Non submission of sample/non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.

34. The tenderer hereby guarantees that the equipment supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The date of manufacturing of the equipment/goods supplied will not be more than 3 (Three months) old. The tenderer will have further guarantees that the said equipment would continue to conform to the description and quality aforesaid for a period of five (5) years guarantee period (As per MoH&FW guidelines), from the date of installation of the said equipment to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment be discovered not to conform to the description and quality as required as per specification or not giving satisfactory performance or have deteriorated, the decision of the Purchaser in that behalf shall be final and binding on the tenderer and the Purchaser shall be entitled to call upon the tenderer to rectify the equipment or such portion thereof as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the tenderer and in such an event, the above mentioned warranty period shall apply to the equipment replaced from the date of replacement thereof. In case of failure of the tenderer to rectify or replace the equipment, within specified time, the purchaser shall be entitled to recover the cost with all expenses from the tenderer for such defective equipment.
35. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature /catalogues must be attached with the tender in original, failing which, tender may be disqualified.
36. **Force Majeure:** Any failure or omission to carryout of the provisions of this supply by the supplier shall not give right for any claim by supplier and purchaser to one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.
37. The equipment installed should be up for 95% of the total warranty time. If the equipment is down for more than 5% suitable action shall be taken against the supplier including imposition of penalty as deemed fit.
38. If there is a close system the tenderer shall ensure and will have to submit an affidavit on Indian Non Judicial stamp paper of Rs.10/- along with technical bid that spare parts and consumables for these equipment's/instruments/item will be available at reasonable fixed rates for next 10 (ten) years, such rates should not be more than the rates supplied to institutes of national importance.
39. The successful Bidder shall at all times agree to indemnify and keep indemnified the purchaser against all losses, damages which may arise in respect of action/inactions of such Bidder or breach of any term of this tender by such Bidder. All claims regarding indemnity shall survive the termination of the contract with such Bidder.
40. In case the vendor fails to supply the spare parts or fails to provide the agreed maintenance during the prescribed period, as per the terms of contract, the purchaser is automatically entitled to procure the required parts and hire services from the market at the risk and cost of the vendor, such inability of bidder will entail forfeiture the security deposit. The purchaser also reserves the right to terminate the contract on immediate notice, if the vendor fails to comply with this clause for more than one instance.
41. **Liquidated damage/demerge:** - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to

maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited. The supply of equipment must be in single consignment, inclusive of all parts & accessories in adherence to the specification so as to make the equipment fully functional at the time of the installation. No installation repeat shall be signed in case of absence of any part as per the specification.

42. **Legal Jurisdiction:** -The Courts at Raipur alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.

**Applicable Law:**

43. The contract shall be governed by the laws and procedures established by Govt. of Chhattisgarh, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
44. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Raiur, Chhattisgarh India only.
45. Except as otherwise provided under this Contract for immediate termination of the Contract, in the event of a disputes which may be arising out of the execution of the tender contract, the matter will be referred to the Chairman of Purchase Committee. Appeal against the decision of the will lie to the Dean, Pt. J. N. M. Medical College, Raipur
46. (CG) and his decision shall be final and binding upon both the parties.
47. At the time of awarding the contract, the purchaser reserves the right to increase or decrease up to twentyfive (25%), the quantity of goods (round of to next whole number) without any change in the unit price and other terms & conditions quoted by the bidder.

I / We hereby accept the terms and Conditions given in the tender

\_\_\_\_\_  
(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

**(B) Financial terms and conditions**

1. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for Dean, Pt. J. N. M. Medical College, Raipur (CG) (Site of installation/Use). Rates should be mentioned both in figures and in words.
3. The supplier has to submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender; the Dean (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Pt. J. N. M. Medical College, Raipur (CG). If such affidavit is not submitted, tender will be out rightly rejected. **(Part of technical bid)**
4. **Guarantee/Warrantee Period:** The Tenderers must quote for 5 years' comprehensive warranty (Including all Spares, Accessories software application, if any 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 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories software application, if any and Labor). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taken into account on basic price and post warranty CMC.

5. **Custom Clearance:** For the Goods to be imported and supplied, The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. The supplier undertakes to fully co-operate to avoid any fine, demurrage or other charges and shall indemnify Dean, Pt. J. N. M. Medical College, Raipur(CG) in case of any such failure. Transportation of goods up to Pt. J. N. M. Medical College, Raipur(CG) and its successful installation and commissioning demonstration (and training, if required) is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier and after submission of deposit slips of custom clearance and transportation charges will be reimbursed to the supplier if said provisions are to be shown separately in the financial bid.
6. **Payment terms:** -If the supplier supplied the requisite item within stipulated time and installation is pending on the part of Pt. J. N. M. Medical College, Raipur(CG) on various reasons, up to 90 per cent payment against supply can be made by the Pt. J. N. M. Medical College, Raipur(CG) on the case wise only, but will not be considered as precedence in all cases.

## B) PAYMENT TERMS

75% Payment of the contract price shall be paid on receipt of goods condition and upon the submission of the following documents: -

- (i) One Original and Four Copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
- (ii) Final Acceptance as per Inspection report issued by faculty.
- (iii) Two copies of packing list identifying contents of each package.
- (iv) Inspection Certificate issued by the user concerned department.
- (v) Final Acceptance Certificate issued by the Institute

### On Acceptance: -

- (i) Balance Twenty-Five (10) % payment would be made against 'Final Acceptance Certificate' as per Para (B) (i) &(v) of goods to be issued by the consignee's subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.
7. **L1 Clause:** L1 firm will be decided on the basis of Total Price in addition with the CMC charges quoted by the firm. The CMC charges should be quoted separately in format provided in pdf.

NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE COLLEGE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC

Note: In case of any dispute regarding award of tender, decision of The Dean, Pt.J.N.M.Medical College, Raipur (C.G.) Administration would be final.

I / We hereby accept the terms and Conditions given in the tender

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(Signature & Stamp of the bidder)



**Tender for Procurement Equipments/Instrument for MRU/MBT, Pt.J.N.M.Medical College, Raipur**  
**TECHNICAL BID**

(Documents to be attached in the “Technical Bid”)

1.Name & Address of the manufacturer and their authorised dealers/ distributors/Agency with phone number, email, name and telephone/mobile	
2.Specify your firm/company is a manufacturer/ authorised dealer/ distributor/ Agency	
3.Whether the signature on each page has been made by the bidder or not.	
4.Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5.Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof.	
6.Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in last one year. If you don't fulfil this criterion, your tender will be out rightly rejected.	
7.Please attach copy of last three years' of Income Tax Return	
<b>8. Turnover</b> a. Please attach balance sheet (duly certified by Chartered Accountant) for last three (3) years (Attach copy of annual minimum turnover which should not be less than Rs. 1 Crore (Rupees One Crore only) duly certified by the Chartered Accountant in the format shown in Annexure- A). b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India. c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. d. Start-ups may submit its Start-up Registration for consideration (Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory)	
9.PAN No. (Please attach copy)	
10.GST/VAT/Service Tax Registration Number. (Please attach copy)	
11.Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
12.Power of Attorney/authorization for signing the bid documents (Not required in case of soleproprietorship.)	
13.a) Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 100/- <b>in the format given in Annexure-1</b> that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D/GeM rate in last two years. If you don't fulfil this criterion, your tender will be out rightly rejected.	
13 b). <b>In the format given in Annexure-2.</b> That no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
13 c).That proprietor/firm/company has never been blacklisted/debarred by any organization. An oath certificate to this effect may be enclosed. <b>in the format given in Annexure-3</b>	
13 d) miscellaneous declarations <b>in the format as given in Annexure- 4.</b>	
17. Please submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.100/- that they will provide complete warranty for all equipment's/items for 5 (five) years followed by CMC for further 5 (five) years of these equipment's/items.	
18 Please furnish a notarised affidavit on Indian Non judicial stamp paper of Rs.10/- that they will supply spare parts for next 10 years at reasonable price by submission of suitable benchmarks.	
19 Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment in previous 3 years	
20. Details of the FD/DD/TD/CD of bid security (EMD) FD/DD/TD/CD No: Date: Payable at-	Detail of cost of Tender for Rs. 1000/- (if downloaded

**ANNUAL TURNOVER STATEMENT**  
(At the Letter Head of Chartered Accountant)

I/We have examined the books of account and other relevant records of ..... (bidding firm name), having its registered office at ..... (full address of bidding firm) and do hereby certify that:

(1) Annual gross turnover as per Annual Accounts of the firm for last three years is as under-

S No.	Financial Year	Turnover (In INR)
1.	2019 - 2020	.....
2.	2020 - 2021	.....
3.	2021- 2022	.....

(2) Average turnover of the firm for last three financial years is Rs. .... .

Signature of CA (with stamp of Firm) .....  
Name- .....  
(Registration No.- .....)  
(Chartered Accountant)

Firm name- .....  
Proprietor name .....  
Signature (with stamp).....

Date- .....

NOTARISED AFFIDAVIT  
(On Rs. 10/- Non-Judicial Stamp Paper)

TENDER NO.

I, undersigned ..... (name).....(designation)....., duly authorised representative of .....(name of Proprietorship/Firm/Company/Agency) hereby undertake, affirm, confirm and declare that-

Proprietorship/Firm/Company/Agency has not quoted price in this Tender higher than one at which goods/services were previously supplied to any government Institute/ Organisation/ reputed Private Organisation or DGS&D rate in last two years. If at any stage it is found that the firm (bidder) has quoted lower rates to any Govt./ Private Institute, Bidder shall be liable to payback access value to Pt.J.N.M.Medical College, Raipur (C.G.) further reserves right to impose suitable penalty shall be made by the College.

Undersigned, on behalf of Proprietorship/Firm/Company/Agency does hereby solemnly declare and affirm that the above declaration is true and correct in all respects and we hold responsibilities for the same. No part of it is false and nothing has been concealed. Any false/incorrect submission shall make

Proprietorship/Firm/Company/Agency as well as undersigned personally liable for all civil/criminal obligations including complaint to police and other authorities.

Deponent Signature: .....

Name: .....

Designation: .....

Aadhaar No: .....

Email Id: .....

Mobile No: .....

Landline No: .....

Fax No: .....

Address: .....

(Copy of Authorisation Letter from Proprietorship/Firm/Company/Agency enclosed)

NOTARISED AFFIDAVIT  
(On Rs. 10/- Non-Judicial Stamp Paper)

TENDER NO.

I, undersigned ..... (name).....(designation)....., duly authorised representative of..... (name of Proprietorship/Firm/Company/Agency) hereby undertake, affirm, confirm and declare that-

**No criminal case is pending with the Police** against our Proprietorship/Firm/Company/Agency or any of its authorized signatories.

Undersigned, on behalf of Proprietorship/Firm/Company/Agency does hereby solemnly declare and affirm that the above declaration is true and correct in all respects and we hold responsibilities for the same. No part of it is false and nothing has been concealed. Any false/incorrect submission shall make Proprietorship/Firm/Company/Agency as well as undersigned personally liable for all civil/criminal obligations including complaint to police and other authorities.

Deponent Signature: .....

Name: .....

Designation: .....

Aadhaar No: .....

Email Id: .....

Mobile No: .....

Landline No: .....

Fax No: .....

Address: .....

(Copy of Authorisation Letter from Proprietorship/Firm/Company/Agency enclosed)

TENDER NO.

I, undersigned ..... (name).....(designation)....., duly authorised representative of .....(name of Proprietorship/Firm/Company/Agency) hereby undertake, affirm, confirm and declare that-

Proprietorship/Firm/Company/Agency has never been blacklisted/ debarred by any organization.

Undersigned, on behalf of Proprietorship/Firm/Company/Agency does hereby solemnly declare and affirm that the above declaration is true and correct in all respects and we hold responsibilities for the same. No part of it is false and nothing has been concealed. Any false/incorrect submission shall make Proprietorship/Firm/Company/Agency as well as undersigned personally liable for all civil/criminal obligations including complaint to police and other authorities.

Deponent Signature: .....

Name: .....

Designation: .....

Aadhaar No: .....

Email Id: .....

Mobile No: .....

Landline No: .....

Fax No: .....

Address: .....

(Copy of Authorisation Letter from Proprietorship/Firm/Company/Agency enclosed)

**NOTARISED AFFIDAVIT**

**TENDER NO.**

I, undersigned ..... (name).....(designation)....., duly authorised representative of ..... (name of Proprietorship/Firm/Company/Agency) hereby undertake, affirm, confirm and declare that-

1. Undersigned is fully competent and authorised from Proprietorship/Firm/Company/Agency to make this Affidavit to bind such Proprietorship/Firm/Company/Agency.
2. All details/information/documents furnished by Proprietorship /Firm/ Company/Agency in bid document is true and correct.
3. Proprietorship/Firm/Company/Agency is fully solvent and legally/financially competent to perform terms and conditions of Tender.
4. Proprietorship/Firm/Company/Agency is duly registered under various relevant government notifications and all dues have been paid as on date.
5. Proprietorship/Firm/Company/Agency hereby agrees and fully understands that notwithstanding anything contrary contained in Tender document and without prejudice to any of the rights or remedies of Dean, Pt.J.N.M.Medical College, Raipur (C.G.) shall be entitled in its sole discretion to determine that a bidder is to be disqualified at any stage of the process and its participation in Tender process and/or its Technical Proposal and/or Financial Bid dropped from further consideration for any reasons.

Undersigned, on behalf of Proprietorship/Firm/Company/Agency does hereby solemnly declare and affirm that the above declarations are true and correct in all respects and we hold responsibilities for the same. No part of it is false and nothing has been concealed. Any false/incorrect submission shall make Proprietorship/Firm/Company/Agency as well as undersigned personally liable for all civil/criminal obligations including complaint to police and other authorities.

Deponent Signature: .....

Name: .....

Designation: .....

Aadhaar No: .....

Email Id: .....

Mobile No: .....

Landline No: .....

Fax No: .....

Address: .....

(Copy of Authorisation Letter from Proprietorship/Firm/Company/Agency enclosed

Undertaking

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We shall supply the items of requisite quality and quantity at given rate in timely manner.
3. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish within 15 days, Bank Guarantee/ Performance Security after the issue of Purchase Order, as applicable, in the format to be provided by Pt.J.N.M.Medical College, Raipur (C.G.) in addition to execution of a Contract as pre-condition for obtaining the supply orders.
4. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or is Proprietor or Partner or Director of any firm with whom the Government have banned /suspended business dealings. I/We further undertake to report to the Pt.J.N.M.Medical College, Raipur (C.G.) immediately after we are informed but in any case not later 15 days, if any firm in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a firm which is banned/suspended in future during the currency of the Contract with you.
5. I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.

(Signature of the Bidder)

Name:

Designation with Seal of the Firm:

“Tender for Procurement of Equipments/Instruments for MRU Pt. J.N.M.Medical College, Raipur (C.G.)

Chapter-II (Schedule of requirements & EMD)

Table-I

Details of items & their tentative quantity and EMD

The following items manufactured by Indian/International firms of repute are required.

SNo.	Item	Approx. cost (Rs.)	EMD (1%)
1	Bench Top Flowcytometer System (3 Laser/ at least 10 colors) Autoloader system with tube & 96 well plate	60,00,000	60000.00
2	Refrigerated vacuum Concentrator	25,00,000	25000.00
3	Micro pipette	100-1000 $\mu$ l	15,000
		20-200 $\mu$ l	15,000
		2-20 $\mu$ l	15,000
		1-10 $\mu$ l	15,000
		0.2-2 $\mu$ l	15,000
	100-1000 $\mu$ l	15,000	150.00
4	High speed cooling centrifuge	8,00,000	8000.00
5	Dry Baths	3,00,000	3000.00
6	Portable autoclave (digital)	50,000	500.00
7	HPLC (suitable for Analytical & Semi-Prep application)	30,00,000	30000.00
8	Electronic Repeater pipetteman	70,000	700.00

Tender for Procurement of Equipments/Instruments for Medical Biotechnology, Course

SNo.	Item	Approx. cost(Rs.)	EMD (1%)
9	Mini Agarose gel electrophoresis apparatus	30,000.00	300.00
10	Power pac	30,000.00	300.00
11	Mini Polyacrylamide gel electrophoresis apparatus	25,000.00	250.00
12	Gel-Doc system	3,50,000.00	3500.00
13	Mini Western blot system with power pack	50,000.00	500.00
14	Microscope with camera	1,00,000.00	1000.00
15	Mini centrifuge X 2	40,000.00	700.00
16	pH meter	25,000.00	250.00
17	Vortex X2	30,000.00	300.00
18	Magnetic stirrer and hot plate X 2	10,000.00	100.00
19	Magnetic bar X 5	300.00	3.00
20	Spectrophotometer	3,00,000.00	3000.00
21	Elisa Reader Machine	1,25,000.00	1250.00

Tender for Procurement of Equipments/Instruments of Microbiology, Physiology & Skin Dept.

SNo.	Item	Approx. cost(Rs.)	EMD (1%)
22	Binocular Simple Microscope (Microbiology Dept.)	50,000.00	500.00
23	Tilt Table (Physiology Dept.)	3,00,000.00	3,000.00
24	Binocular Simple Microscope (Skin Dept.)	45,000.00	450.00
25	Light Microscope With Facility for Dark Ground Illumination Microscopy (Skin Dept.)	45,000.00	450.00



MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

(Clause 11 (c) of other terms and conditions of the tender) To

The Dean  
Pt.J.N.M.Medical College,  
Raipur (C.G.)

Dear Sir/Madam

TENDER: \_\_\_\_\_.

We, \_\_\_\_\_, who are established and reputable manufacturers of \_\_\_\_\_, having factories at \_\_\_\_\_ and \_\_\_\_\_, hereby authorize M/s. \_\_\_\_\_ (name and address of agents) to bid, negotiate and conclude the contract with you against Tender No. \_\_\_\_\_ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the conditions of tender contract for the goods offered for supply against this tender by the above firm.

The authorization is valid up to \_\_\_\_\_

Yours faithfully,

(Name)

For and on behalf of M/s. -----  
(Name of anufacturers)/Principal.

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC  
SECURITY

To

The Dean,  
Pt.J.N.M.Medical College,  
Jail Road, Raipur  
Chhattisgarh 492001

WHEREAS \_\_\_\_\_ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no \_\_\_\_\_ dated \_\_\_\_\_ to supply (description of goods and services) (herein after called “the contract”). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such an irrevocable bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you unconditionally, on behalf of the supplier, up to a total of \_\_\_\_\_ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of you to first demanding the said amount of guarantee from the supplier before raising the demand with us. You may directly raise the demand with us, without asking the supplier for the same.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will not be changed due to change in the constitution of the bank or the supplier.

This guarantee shall be valid up to 65 months from the date of satisfactory installation of the equipment i.e. up to ----- (indicate date).

..... (Signature with date of the  
authorized officer of the Bank)

.....  
Name and designation of the officer

.....  
.....

Seal, name & address of the Bank and address of the Branch

**Technical Specifications of All Equipments/Instruments:-**

**Instrument Specification for Multidisciplinary Research Unit (MRU)**

<p>1.</p>	<p>Bench Top Flowcytometer System (3 Laser/ at least 12 florescence channel) Autoloader system with tube &amp; 96 well plate</p>	<p>The system must be equipped with 3 solid state lasers (405nm Violet, 488nm Blue &amp; 633-642nm Red) having 12 fluorescence channels &amp; 2 light scatter parameters (FSC a SSC) for support multicolour applications.</p> <p>-----</p> <p><b>Hardware Design:</b></p> <ol style="list-style-type: none"> <li>1. Fluorescence detector channel must be configured with PMT or equivalent for better signal to noise (S/N) ratio and superior resolution of dim intensity rare cell population discovery.</li> <li>2. All the lasers should be spatially separated with beam spot size 7µm X 60µm or better along with pulse Height, Area and Width information available for all parameters simultaneously to be able to discriminate doublets based on size, granularity &amp; nucleic acid content.</li> <li>3. All the lasers &amp; detectors should be fixed aligned for data consistency and reliability on a day to day basis.</li> <li>4. The system should have automatic alligment feature for lasers to avoid need to service engineers to visit for alignment of lasers / optics.</li> <li>5. Digital signal processing should allow threshold to be set on all available channels simultaneously in any combination of all available parameters during sample acquisition.</li> <li>6. Operating temperature: 10-30°C</li> <li>7. Operating Humidity: 10-90 %, Non-Condensing</li> <li>8. Electrical Requirements: 100-240 VAC, 50/60 Hz, &lt;150W</li> <li>9. Noise &lt; 70db</li> </ol> <p>-----</p> <p><b>Fluidics:</b></p> <ol style="list-style-type: none"> <li>1. For high throughput the analysis speed should be at least 30,000 events/second or better with all the parameters available.</li> <li>2. The System should have sample carryover of &lt;0.1% or better for rare cell populations discovery and novel marker identification. System should be capable of analyzing particles in the size range of 0.2 – 50µm.</li> <li>3. Sample flow rates should be user-adjustable over a wide range. Sample range should be 120 µl /min or beyond. For diluted or concentrated samples there should be similar % CVs are maintained across flow rates. It is desirable to achieve CV not more than 3-4% at all flow rates. System should also enable the running of dilute samples and the use of less starting material with Rapid detection of rare cells.</li> <li>4. Sample analysis volume: 20 µL to 2 mL or better</li> <li>5. Custom sample flow rates: Minimum:5–15 µL/min; Maximum: 120–500µL/min or better</li> <li>6. Sample delivery: Positive-displacement syringe pump equivalent technology for volumetric analysis for absolute count.</li> <li>7. Should also offer high sensitivity fluidics aspiration mode, which can result in higher fluorescence signal resolution for dim stained population</li> <li>8. Fluid-level sensing: Active</li> <li>9. Automated maintenance cycles: ≤15 min startup and shutdown—deep clean, sanitize, and debubble modes</li> <li>10. Material should be with low coefficient of thermal expansion for predictable, stable performance</li> <li>11. Sheath core stream fluid velocity: low: 1-2 m/s; High : 5-6 m/s</li> <li>12. Sample dead volume: 40 µL or less for 12 x 75mm tubes</li> </ol> <p>-----</p> <p><b>Autoloader system:</b></p> <ol style="list-style-type: none"> <li>13. The system should have automated loader/s for standard 96 well plate as well as for 30 or more tube (2-5 ml) as well as regular microcentrifuge tubes from standard manufacturer with appropriate compatible adopter/tube holder (included) so that multiple samples could be run without manual handling. There should option for single tube run.</li> <li>14. There should in built/attachable vibrator for keeping cells in suspended condition (optional).</li> <li>15. The system should have robust fluidics with carryover of less than 0.1% to ensure reliability of results</li> <li>16. The system should be able to perform absolute Volumetric direct cell count assays without use of any reference beads. It</li> <li>17. should be 15-20 min for completion of running 96 well plate or better with flexibility.</li> <li>18. Should have temperature regulator 4-30 °C within the autoloader chamber in built or upgradable (optional).</li> </ol>
<p>Pt.JNMC,Raipur(CG)</p>	<p></p>	<p>-----</p> <p><b>Sheath fluid consumption:</b></p> <ol style="list-style-type: none"> <li>19. Normal: There should be minimum sheeth fluid consumption per sample run</li> </ol> <p>-----</p> <p><b>Software:</b></p>

20. The system generated compensation should be valid for a minimum of 60 days and updated with daily QC. The system software should be able to do single fluorochrome addition to an existing setting from panel of reagents and recalculate the spill over matrix by running a single tube.
21. Should enable resolution of <math><0.2\mu\text{m}</math> beads from noise in both SSC and/or FSC detector channels from any laser for particle analysis. And should be flexible to adjunct threshold.
22. This system must be capable of standardization and collaboration between inter-lab/intra-lab through assay portability feature to maintain consistency in data quality.
23. Instrument software must be capable of exporting data as FCS file per population. In addition, system software must allow data overlay of tubes in the same experiment & different experiment.
24. System software should include multiple plot types including dot plots, density plots and histogram plots that include linear, logarithmic, hyperlog and logical display
25. Instrument should record height, area and width for all scatter and fluorescence channels
26. System should be quoted with all softwares including research module (for apoptosis, cell cycle analysis , absolute cell count tec ) offline analysis software and all clinical modules. Simple data processing and direct export system in a format which could be opened in regular PC.
27. Universal setup for fast and convenient instrument setup and standardization
28. applications
  - User-defined assays
  - User-defined plots
  - User-defined worksheets and reports
  - User-defined tube/reference settings
  - Expression editing
29. For clinical Application  
Pre-configured workflow and pre-set templates for different diagnostic assay with standard kit
30. Raw data should be transferrable and open into other computer and **3<sup>rd</sup> Party Data Analysis software should be compatible.**

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### **Analysis Platform:**

31. Monitor: 23-inch flat panel (1,920 x 1,080 resolution); with dual-monitor capability
32. Operating System: Microsoft™ Windows™ 10, 64-bit
33. Processor: Intel Core™ i7 processor
34. RAM: 32 GB
35. Hard Drives: 2 x 2 TB SATA 6.0 Gb/s
36. FCS Format Supported: FCS 3.0 and FCS 3.1
37. Instrument should be compatible and optimized for research as well as clinical use. Instrument must have necessary valid certification (CE , US or European IVD approved) for clinical diagnostic settings

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### **Quality control (QC)**

38. An Automated Background Check should be performed during start up without running any sample or QC material.
39. Single-tube QC with standard beads
40. QC module with Levey-Jennings plots
41. Complete array of quality control products with automated QC setup
42. Daily QC results can also be viewed as radar charts and L-J charts.
43. Carryover is <math><0.1\%</math> in standard mode.

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### **Application Support**

44. Full On-Site Installation and Application training by direct company, engineer and Application Scientist. Direct presence in India with Sales, Service and Application support. Training on Flow Cytometer at their own training Centre in India or on-site as applicable. For setting up a new assay if there is any difficulties, there should be prompt on-line/on-site application support following the received of request.

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### **Accessory to be provided**

45. System should be provided with antivibration / vibration free table compatible for the instrument installation & proper functioning.
46. Should be provide 20L sheath fluid, 5000 tubes, tube racks and compatible adaptors for different tubes, necessaries accessories for running 96 well plates.

		<p>-----</p> <p><b>Power requirements</b></p> <p>47. The system should be offered with suitable workstation and UPS having minimum of 30 mins backup.</p> <p>-----</p> <p><b>Warranty</b></p> <p>48. 3 -Years Comprehensive Warranty (including Spares &amp; Service).</p> <p>49. The vendor must have similar models installed in India for performance feedback/ reference/ demo purpose.</p>
2.	<b>Refrigerated vacuum concentrator</b>	<ol style="list-style-type: none"> <li>1. System should include Refrigerated concentrator with glass lid; Vacuum pump cold trap, high performance, refrigerated microprocessor-controlled digital vacuum concentrator system to support rapid, efficient concentration and drying of plant extracts in organic or aqueous solutions as well as for DNA, RNA and Protein.</li> <li>2. The system should have rotation speed of around 1700-3000 rpm with auto start option.</li> <li>3. The system should have chamber temperature that cools to -20 °C and warm to 60°C with over temperature safety shut off&amp; the cold trap should be min 2.0L capacity and operating temperature of -50 °C or lower with the help compatible compressor and must use HCFC and CFC free refrigerants.</li> <li>4. System should have fast rate of vacuum concentration</li> <li>5. System should have memory for at least 9 programs.</li> <li>6. System should have temperature and timer control separately.</li> <li>7. System should be supplied with Diaphragm vacuum pump must have vacuum level of 1.5 m bar with displacement of 55 L /min or better.</li> <li>8. System should have timer from 1 minute to 999 minute.</li> <li>9. System should have built in vacuum delay to allow rotor top achieve desired and safe speed.</li> <li>10. System should have automatic vacuum release valve.</li> <li>11. System should come with Rotor for 1.5 ml tube at least 24-48 places.,15 ml tube at least 16-24 places and 50 ml tube at least 10-12 places .</li> <li>12. System should come with 3 year standard warranty.</li> <li>13. 3 -Years Comprehensive Warranty (including Spares &amp; Service).</li> <li>14. The system should be offered UPS having minimum of 30 mins backup.</li> <li>15. OEM should be ISO certified and system should be CE certification for 220 volts and 50 Hz.</li> </ol>
3.	<b>Micropipettes</b>	<ol style="list-style-type: none"> <li>1. Light weight</li> <li>2. Advanced volume gearing- Modular volume adjustment mechanism</li> <li>3. Fully autoclavable</li> <li>4. Separate soft touch tip ejector</li> <li>5. Ergonomic design</li> <li>6. In lab calibration and easy maintenance - Easy to open (No special tool required)</li> <li>7. Should be compatible with standard universal size tips (open system)</li> <li>8. It should be made of stable material so that it will not be broken/lost function/accuracy, if it will fall from high</li> <li>9. Should be very narrow standard deviation of multiple measurement in all ranges.</li> </ol> <p><b>Volume Range</b></p> <ol style="list-style-type: none"> <li>a. 0.1-2 µl</li> <li>b. 1-10 µl</li> <li>c. 2-20 µl</li> <li>d. 20-200 µl</li> <li>e. 100-1000 µl</li> </ol>

4.	High speed cooling centrifuge	<p>Maximum Speed of 17000-20000 rpm, with 24x1.5/2ml with a brushless motor</p> <ol style="list-style-type: none"> <li>1. Temperature range should be adjustable from -12°C to 40°C, should be able to maintain 4°C at maximum speed</li> <li>2. It should be possible to use aerosol tight rotor, aerosol tightness of rotor should be certified by a third party agency</li> <li>3. Instrument should be able to accommodate maximum 48 number of 1.5/2ml tubes</li> <li>4. Instrument should have an in-built condensate drain to prevent water accumulation</li> <li>5. It should be possible to perform a fast pre-cooling of the instrument using a dedicated Fast temp function</li> <li>6. It should be possible to program fast cooling with pre-set date and time</li> <li>7. Speed setting should be possible in both rpm and rcf</li> <li>8. Should possess a separate short spin key for brief spin</li> <li>9. It should be possible to program compressor shut off after 4-8 hrs of non usage of the centrifuge</li> <li>10. Should have the flexibility to accommodate rotors for different formats of tubes starting from 0.2ml PCR tubes up to spin column tubes</li> <li>11. Instrument should have dedicated rotors for 15/50ml falcon tubes, 96well Micro titer plates/ vacutainer / blood collection tube.</li> <li>12. Instrument should have automatic rotor recognition facility to automatically recognize and set maximum speeds upon rotor change</li> <li>13. Rotor lids should have a QuickLock-system for secure lid closing and opening</li> <li>14. It should be possible to perform gentle acceleration and deceleration using dedicated key</li> <li>15. Noise levels should be &lt;54 db(A)</li> <li>16. It should be possible to operate the centrifuge at set rpm for short spin protocols</li> <li>17. Instrument should be CE Certified and also have a IVD Conformity</li> </ol> <p><b>Rotors:</b></p> <ol style="list-style-type: none"> <li>1. Aerosol tight high speed Fixed angle (45°) rotor with (36-24)x 1.5/2ml with at least 17000 to 20000 rpm range (RCF at least 30000xg or above) .</li> <li>2. Fixed angle rotor with at least 6x15/50ml (45 deg.) conical tubes and should be compatible for round bottom tube. RPM 10000-15000 and RCF 15000 to 20000xg)</li> <li>3. Suitable rotor for 96 well micro titer plate and for PCR strip (0.2 ml)</li> </ol> <p>Standard 3 years warranty. The system should be offered UPS having minimum of 30 mins backup.</p>
5.	Dry Baths (for heating, cooling, and mixing)	<ol style="list-style-type: none"> <li>1. Maximize valuable bench space, lightweight dry bath / block heater</li> <li>2. Digital temperature controls and display</li> <li>3. Small footprint</li> <li>4. Built-in temperature sensing probe for outstanding temperature accuracy (<math>\leq \pm 0.5^\circ\text{C}</math>) and uniformity (<math>\leq \pm 0.5^\circ\text{C}</math>)</li> <li>5. Rapid heating rate upto 7 °C/min</li> <li>6. An operating range of temperature 1° to 100°C</li> <li>7. Rapid cooling rate must be 2.5 °C/min or better (between 100 °C and RT)</li> <li>8. Mixing frequency must be upto 3,000 rpm</li> <li>9. Multiple combination of different size of blocks allows for maximum tube size versatility during experimental procedure</li> <li>10. Suitable block for 1.5 ml/2ml (24 places), 0.2 ml PCR strips, 96 well 0.2 ml PCR plate, 96 well microplate</li> <li>11. Should provide extender adaptor for additional tubes (1.5ml/2ml)</li> <li>12. 12V low voltage power input</li> <li>13. Standard 3 years warranty.</li> </ol>
6.	Portable autoclave (digital)	<ol style="list-style-type: none"> <li>1. Capacity- 15 Liters or more.</li> <li>2. Dressing Drum approximately - Ø 10 x 9 inches.</li> <li>3. System should be Preset to 121°C for 20 mins.</li> <li>4. System should have max. Operating pressure- 15psi.</li> <li>5. System should have over pressure safety.</li> <li>6. System should have auto switch off of heater at end of cycle.</li> <li>7. System should have silicone gasket.</li> </ol>

		<ol style="list-style-type: none"> <li>8. System should have jointless chamber die pressed from heavy gauge stainless steel.</li> <li>9. System should have water cum steam exhaust valve for efficient drying of porous load.</li> <li>10. System can be kept in air conditioned room.</li> <li>11. System should have low power consumption of 1 unit per cycle.</li> <li>12. System should have controls and display process temperature and timer simultaneously.</li> <li>13. System should have dual scale of psi and KPa with temperature read out on pressure gauge.</li> </ol>
7.	<p><b>HPLC suitable for Analytical &amp; Semi-Prep application</b></p>	<p>Fully PC controlled HPLC system with Binary gradient pump having in built vacuum degasser, Column Oven, UV-VIS/PDA &amp; Chromatography data controlling software The instrument should be suitable for analytical as well as semi prep application for analysis for small molecules or metabolites (animal and plant), vitamin etc and will be provided with suitable fraction collector for isolating individual peaks for purification of molecules</p> <p><b>HPLC Pump Module</b></p> <ol style="list-style-type: none"> <li>1. Low-pressure Binary gradient mixing and system must have integrated vacuum degassing facility</li> <li>2. Flow rate range: 0.01 to 10.0 ml/min or better with 0.1ml/min increment</li> <li>3. Pressure Range: 0 to 10000 psi or better for entire flow rate range</li> <li>4. Flow precision <math>\leq 0.075\%</math> RSD</li> <li>5. Flow accuracy <math>\pm 1.0\%</math></li> <li>6. Composition range <math>\pm 0.5\%</math> absolute from 5 - 95 %</li> <li>7. Composition precision <math>\leq 0.15\%</math> RSD</li> <li>8. Compositional accuracy 0.5 %</li> </ol> <p><b><u>System delay volume should be less than 250<math>\mu</math>L</u></b></p> <p><b>UV-VIS/PDA Detector</b></p> <ol style="list-style-type: none"> <li>9. Wavelength range 190 – 790 nm</li> <li>10. Wavelength accuracy <math>\pm 1</math> nm or better</li> <li>11. Optics: double beam</li> <li>12. Bandwidth: 5 nm or better</li> <li>13. Suitable flow cell for both analytical and semi prep application</li> <li>14. Sensitivity range 0.0005 to 3.000 AUFS in 0.0001 increments from 0.0005 to 0.1, and 0.01 increments above 0.1 AUFS</li> <li>15. <math>&lt;7.5 \times 10^{-6}</math> AU, 210 - 280 nm, 2 sec response time, std test cell</li> <li>16. Drift <math>&lt;1 \times 10^{-4}</math> AU/hr</li> </ol> <p><b>Column Oven</b></p> <ol style="list-style-type: none"> <li>17. Integrated solvent preheater</li> <li>18. Optional column selection valve allows automated column switching of up to 2 columns or better</li> <li>19. heating/cooling</li> <li>20. Accommodates longer columns (up to 30 cm)</li> <li>21. Operating temperature range 5°C to 60°C or better wider range</li> <li>22. Temperature accuracy <math>\pm 1^\circ\text{C}</math></li> <li>23. Temperature stability <math>\pm 0.1^\circ\text{C}</math></li> </ol> <p><b><u>Chromatography software</u></b></p> <ol style="list-style-type: none"> <li>24. Suitable software to control all modules of HPLC</li> <li>25. direct export system in a format which could be opened in regular PC</li> <li>26. The software should be latest, original and must be COMPLAINT READY for GLP/GMP &amp; 21CFR Part 11 compliance of US FDA, MHRA &amp; EMEA etc.</li> <li>27. Should have option for manual &amp; Automated Integration with strict Audit Trails features</li> <li>28. Should control all HPLC Detectors like UV, Fluorescence &amp; ELSD without any additional software purchases later and should be upgradable MS detectors for future upgradation as and when required.</li> <li>29. Should have Customizable data reports, online help and answer wizards.</li> </ol>

		<p><b><u>Injector</u></b></p> <p>30. Manual Injector with both analytical &amp; Semi Prep capability with same platform should be quoted</p> <p>31. Standard Sample Loop compatible for analytical as well as for Semi Prep work (with minimum dead volume)</p> <p>32. Should have Leak management</p> <p><b><u>Fraction Collector</u></b></p> <p>33. Fraction collection should be based on Time/Threshold/Slope independently as well as in combination of the same parameters</p> <p>34. [ <u>Timed</u>: Specified time with an interval.</p> <p>35. <u>Threshold</u>: Minimum threshold to distinguish noise from peaks &amp; avoid unwanted peaks.</p> <p>36. <u>Slope</u>: Collect by either upward or downward peak slope]</p> <p>37. <u>Manual/Emergency Collection</u>: Collect fractions immediately.</p> <p>38. <u>Fraction Simulation</u>: Viewing scouting or previous run, change the collection parameters to optimize future collection of the same sample.</p> <p>39. <u>Solvent Monitoring</u>: Ability to monitor the solvent intake and waste.</p> <p>40. <u>Built in Prep Calculator</u>: Using calculator tool scale up from Analytical to Prep.</p> <p>41. Customizable reporting</p> <hr/> <p style="text-align: center;"><b>Columns &amp; Other requirements</b></p> <p><b><u>HPLC Column analytical (RP) C18 – 150 x 4.6mm, 5µm – 3 no, should be provided</u></b></p> <p><b><u>HPLC Column Semi-Prep(RP) C18 – 250x 9-10mm, 5µm – 3 no, should be provided</u></b></p> <p><b><u>HPLC analytical Column SILICA – 150 x 4.6, 5µm – 2 no, should be provided</u></b></p> <p><b><u>HPLC Column Semi-Prep SILICA – 250x 9-10mm, 5µm – 2 no, should be provided</u></b></p> <p>42. The instrument should include all the required accessories</p> <p>43. Suitable branded PC with laser Printer</p> <p>44. 3 KV UPS with 30 mins backup</p> <p>45. Should be supplied with suitable working table with granite top</p> <hr/> <p><b><u>Power requirements</u></b></p> <p>46. 100 to 240 VAC with line frequency 50 to 60 Hz</p> <p><b><u>Warranty</u></b></p> <p>47. 3 -Years Comprehensive Warranty (including Spares &amp; Service).</p>
8.	Electronic Repeater pipette	<p>1. Electronic dispensing with memory function based on motor driven function reduces the human error to a minimum and reduces risk of repetitive strain injuries</p> <p>2. Volume range should be from 1µl to 50ml</p> <p>3. Should be a contamination-free dispensing through positive displacement principle</p> <p>4. Should be high precision while handling viscous solution [eg. Glycerol, oil] or liquids with high vapour pressure [eg. Acetone, ethanol]</p> <p>5. System should have facility for aspirating, titration and sequential dispensing</p> <p>6. Should be a facility for speed adjustment program for the utmost in precision and accuracy while also preventing splashing</p> <p>7. Should provide compatible tips (range 1µl to 50ml)</p> <p>At least should be 3 year warranty</p>



## Instrument Specification for M.Sc. Medical Biotechnology Course

SNo.	Name of the instrument	Specification
01	Mini Agarose gel electrophoresis apparatus	<ul style="list-style-type: none"> <li>Cell Size (WxLxH): 9.2x25.5x5.6</li> <li>Gel tray size (WxL): 7x10 cm</li> <li>Base Buffer Volume: 270ml</li> <li>Power cord: 1 No</li> <li>Number of 8 well combs: 2</li> <li>Comb thickness: 1.5mm</li> <li>Should not have Buffer recirculation</li> <li>Should have Bromophenol blue migration ~4.5 cm/hr (at 75 V)</li> <li>Vendor should have service Centre in Raipur Chhattisgarh</li> <li>Certification: ISO or equivalent</li> </ul>
02	Power pac	<ul style="list-style-type: none"> <li>Output range: 10-300V, Fully adjustable in 1V steps, 4-400mA fully adjustable in 1mA steps, 75W (maximum)</li> <li>Type of output: constant voltage or constant current with automatic crossover</li> <li>Output terminals: 4 pair recessed banana jacks in parallel</li> <li>Timer: 1 min-99hr 59min fully adjustable with pause and resume function</li> <li>Display: 3 digit LED</li> <li>Operating condition: 0-40 °C</li> <li>Safety features: No load and overload detection with overload protection</li> <li>Dimensions (W x L x H), cm/in: 21 x 24.5 x 6.5/8.3 x 9.6 x 2.6</li> <li>Should be suitable for running horizontal and vertical electrophoresis applications.</li> <li>Supplier should provide atleast 2 year warranty</li> <li>Vendor should have service Centre in Raipur Chhattisgarh</li> <li>Certification: ISO or equivalent</li> </ul>
03	Mini Polyacrylamide gel electrophoresis apparatus	<ul style="list-style-type: none"> <li>Cell: including Tank lid with power cables , electrode assembly, mini cell buffer dam and running module</li> <li>Number of gel:1-4</li> <li>Casting stands: 2 with 4 casting frames.</li> <li>Number of short plates: 5</li> <li>Number of spacer plates 5 integrated with 1.0 mm</li> <li>Gel releaser: 3</li> <li>Number of comb: 5 (10 well comb)</li> <li>Total buffer volume for 2 gel(ml): 800ml</li> <li>Total buffer volume for 4 gel: 1000ml</li> <li>Recommended power supply: Power PacHigh current</li> <li>Typical run time for SDS PAGE: 35-45 min(at 200 V constant)</li> <li>Supplier should provide atleast 2 year warranty</li> <li>Vendor should have service Centre in Raipur Chhattisgarh</li> <li>Certification: ISO or equivalent</li> </ul>
04.	Gel-Doc system	<ul style="list-style-type: none"> <li>Option for chemiluminescence, fluorescence, and digitization</li> <li>Peltier cooled CCD camera</li> <li>Motorized zoom option</li> <li>UV and white light trans-illuminator with GFP filter, Etbr filter</li> <li>Option for automatic and manual exposure</li> <li>Option for auto, manual focusing</li> <li>Sample trays for UV, white, Epi light</li> <li>Supplied with the analysis software</li> <li>System should operate on 230V,50Hz</li> <li>CE/ISO certified with atleast 3 year warranty</li> <li>Vendor should have service Centre in Raipur Chhattisgarh</li> <li>Certification: ISO or equivalent</li> </ul>
05	Mini Western blot system	<ul style="list-style-type: none"> <li>Designed for rapid semi-dry transfer of proteins from polyacrylamide gels to</li> </ul>

	with power pack	<p>nitrocellulose or PVDF membranes</p> <ul style="list-style-type: none"> <li>• Overall dimension (WxLxH): 12x16x18cm</li> <li>• System should have transblot cell with capacity to transfer upto two mini gels ( Blotting area: 10x7.5 cm) in an hour</li> <li>• Number of gel holder: 2</li> <li>• Number of Pads: 2 set</li> <li>• Transfer time: high intensity 1hr</li> <li>• Buffer capacity: 1.2 litre</li> <li>• Electrode distance: 4 cm</li> <li>• Electrode material: platinum wire</li> <li>• Power cord: 1</li> <li>• Instruction Manual:1</li> <li>• Vendor should have service Centre in Raipur Chhattisgarh</li> <li>• Should be an open system which accepts accessories and consumables from different suppliers also.</li> </ul>
06	Microscope with camera	<ul style="list-style-type: none"> <li>• Binocular upright research microscope with infinity optical system Display:- Shows all microscope settings at a glance</li> <li>• Should be able to perform bright field, dark field and phase contrast applications.</li> <li>• LED illumination - high intensity, uniform (uniform illumination throughout the field even at low magnifications).</li> <li>• Universal condenser</li> <li>• Focus:- Mechanical</li> <li>• Stage:- Mechanical or motorized, scanning stage,</li> <li>• Nosepiece - Quintuple or above to accommodate 5 or more objectives at a time.</li> <li>• Eyepieces - 10X with Field of view greater than 22mm with diopter adjustments</li> <li>• Objectives – Plan Achromat or equivqlent, 4x/5x; 10x; 20x, 40x and 100x (Oil immersion). Objectives 10X, 20X, 40X &amp; 100X should be phase contrast. All objectives including oil-immersion objective should be compatible for use with cover slip (0.17mm).</li> <li>• Transmitted light contrast method:- BF,PH,DF,POL,DIC</li> <li>• Fluorescence Axis :-Fully automated Fully automated</li> <li>• Fluorescence Illumination:- LED or EL6000 (metal halide)LED or EL6000 (metal halide)</li> <li>• Other essential accessories like, centering telescope, stage micrometer, immersion oil &amp; required filters etc.</li> <li>• High quality Digital camera - 5 megapixel or above CCD, with necessary image acquisition &amp; measurement and analysis software and required firewire cables</li> <li>• The microscope and camera should be from the same manufacturer for better synchronization.</li> <li>• Vendor should have service Centre in Raipur Chhattisgarh</li> <li>• Certification: ISO or equivalent</li> <li>• Should provide 1 Year warranty and 3 year free service for the entire system.</li> </ul>
07	Mini centrifuge X 2	<ul style="list-style-type: none"> <li>• Type: Benchtop centrifuge</li> <li>• Speed control range: 1000 - 14500 rpm (increment 100 rpm)</li> <li>• The machine should be refrigerated.</li> <li>• Dimensions (HxWxD): 12.9 x 11.6 x 17.5 in. (33.0 x 29.5 x 44.5 cm)</li> <li>• Noise Level: 50 dB(A)</li> <li>• Capacity : 24x 1.5/2ml</li> <li>• Temperature range: 0-40°C</li> <li>• Run Time: 1-99 min</li> <li>• Net weight: upto 30 kg</li> <li>• Tube size: 1.5ml and 2ml</li> <li>• Relative centrifugal force control range: 50–12,400 × g</li> <li>• Digital time setting: 15 s – 30 min (increment 15 s - 1 min)</li> <li>• Display: LCD, 2 line</li> </ul>

		<ul style="list-style-type: none"> <li>• Safety: Rotor imbalance diagnostics: automatic stop, “IMBALANCE” warning</li> <li>• Certification: ISO or equivalent</li> <li>• Should have atleast 2 year warranty</li> </ul>
08	pH meter	<ul style="list-style-type: none"> <li>• pH range: 0-14 with resolution 0.001pH</li> <li>• Accuracy: <math>\pm 0.002</math> pH</li> <li>• Temperature: It should have both Automatic and Manual temperature compensation</li> <li>• Display: It should have Thin Film Transistor (TFT) display or LED of more than 4 inch color (Blue/Red/Green/Yellow) display for better vision of readings with clear and well arranged icons of parameters like pH, Temperature, mV, date &amp; Time etc</li> <li>• To improve the reproducibility, it should allow to choose from at least three endpoint criteria according to our requirements.</li> <li>• The Electrode holder should move in a perfectly vertical way, making it easy to place the sensor in the perfect position i.e. vertically in the measurement beaker.</li> <li>• It should be able to connect peripherals via USB and RS232, increasing its possibilities significantly. Export of measurement data and calibration data should be possible to USB stick or to direct PC software whenever required by us.</li> <li>• It should allow monitoring of limits of parameter pH by giving a warning message when the value falls below or exceeds the predefined limits.</li> <li>• It should have facility not to delete of data and changing of settings in routine mode. Hence it required to be PIN protected for Login, deletion of data, system settings etc.</li> <li>• It should have choice of endpoint formats like Automatic, manual and timed.</li> <li>• It should have choice of pH decimal places like X.Y, X.YY &amp; X.YYY (Up to one, Two and Three decimal places.)</li> <li>• It should have Data storage up to 500 measurements (Min.)</li> <li>• It should have pH Sensor input through BNC connector with impedance of more than 3 X 1012 <math>\Omega</math>.</li> <li>• It should be able to show the quality of last calibration on its screen.</li> <li>• It should have Temperature sensor input.</li> <li>• It should be IP54 complied protection level.</li> <li>• Power requirements: It should be operable with 9 -12V/10W DC adapter</li> <li>• It should be GLP complied</li> <li>• Model: Table</li> <li>• Vendor should have service Centre in Raipur Chhattisgarh</li> <li>• Certification: ISO or equivalent</li> </ul>
09	Vortex X2	<ul style="list-style-type: none"> <li>• Dimensions (W x D x H) mm: 140 x 160 x 130</li> <li>• Type of auxiliary energy: 230 V, 50 Hz</li> <li>• Min. permitted ambient temperature <math>^{\circ}\text{C}</math>: 4</li> <li>• Type of movement: orbital</li> <li>• Vendor should have service Centre in Raipur Chhattisgarh</li> </ul>
10	Magnetic stirrer and hot plate X 2	<ul style="list-style-type: none"> <li>• Maximum stirring speed-1200 rpm with stepless speed control and good speed stability</li> <li>• Heating Capacity - 600W</li> <li>• Hotplate Size -175mm dia.</li> <li>• Supply – 220/240V,50Hz, A.C</li> <li>• Hotplate-Should be chemically resistant to acid and alkali</li> <li>• Top Plate Material – Stainless steel</li> <li>• Stirring Unit – Should be enclosed so that corrosive fumes do not enter it.</li> <li>• Controls for both hotplate and stirrer should be provided with suitable indicators. i) Necessary electrical cables should be provided.</li> <li>• Warranty – 1 year</li> <li>• Certification: ISO or equivalent</li> </ul>
11	Magnetic bar X 5	<ul style="list-style-type: none"> <li>• 1.5 inch, Teflon octagon magnet bar</li> </ul>
12	Spectrophotometer	<ul style="list-style-type: none"> <li>• Light source: Xenon flash lamp/deuterium lamp</li> <li>• Wavelength selection through monochromator</li> <li>• Wavelength range: 190-1000nm</li> <li>• Power requirements: 120 VA</li> </ul>

		<ul style="list-style-type: none"> <li>• Readout range: upto 4</li> <li>• Detector: Silicon photodiode</li> <li>• Standard programs: Abs/%T meter, Quantitative analysis, Spectrum measurement, Time course measurement, Fixed wavelength measurement, Validation, Daily maintenance, Two wavelength time course measurement</li> <li>• Precision at 450nm: SD&lt;0.003Abs or CV&lt; 1.0%</li> <li>• Plates 6-96 well plates</li> <li>• Measuring speed: 6 sec with 96 well plates</li> <li>• Cuvette (HxWxD): 40x12.5x12.5mm,</li> <li>• Photometric accuracy: 1.0% + 0.003 Abs (0 to 2.0 Abs), 2.0% (2.0 to 2.5 Abs) at 450 nm</li> <li>• Software type :open license software</li> <li>• Connections : 1 USB, 1 ethernet port, port for PC</li> <li>• Max power consumption : &lt;110W</li> <li>• Vendor should have service Centre in Raipur Chhattisgarh</li> </ul>
13.	Elisa Reader Machine	<ul style="list-style-type: none"> <li>• Quantitative, Semi Quantitative and Qualitative.</li> <li>• 8 channel measurement system.</li> <li>• Single well/strip reading capability.</li> <li>• Onboard software and elaborated PC Software.</li> <li>• Extensive QC programme with Levy Jennings plot</li> <li>• Large touch screen LCD display.</li> </ul>

## Instrument Specification for Microbiology, Physiology &amp; Skin Department

SNo.	Name of the instrument	Specification
01	Binocular Microscope (Microbiology)	<p><b>1)Eyepieces:</b> WF 10X (field number – 18 mm or better)  <b>2)IPD:</b> 55 – 75mm  <b>3)Focusable Eyepiece</b>  <b>4) Objectives:</b> Parfocal, antifungus, infinity optical system, din achromatic 4X, 10X, 40X,100X (oil immersion).  <b>5)Binocular Head:</b> Eyepiece tube type 30 ° inclined, 360 ° rotatable  <b>6)Nosepiece:</b> Reversed Quadruple  <b>7)Condenser:</b> N.A. 1.25 Abbe condenser, continuously variable iris / diaphragm with filter holder (blue / green / yellow)  <b>8) Stage:</b> Built in low position rack lass stage with double layer mechanical 160mm x 140mm with fine vernier graduations designed with convenient coaxial adjustment for slide manipulation  <b>9)Focusing:</b> Should have coaxial coarse and fine focusing system with ball bearing guide ways.When fine knob move coarse Should not be move.  <b>10)Antifungus:</b> To protect the system from fungus formation in high-humidity environments, an anti-fungus coating is to be used to prolong the life of both microscope and objective.  <b>11)Illumination:</b> Built in 3W – 6W LED illumination with intensity control LED Bulb Life 50,000 hours.  <b>12)Body:</b> All gear, housing, body are metallic  <b>13)Accessories included:</b> Universal power supply 100 - 240V, CE power cord &amp; dust cover,immersion oil,  <b>14)Standards &amp; approvals:</b> US FDA / CE Certified / BIS or any other Indian or internationally approved safety standard certification.  <b>15) LED Binocular with Scanner, 10X, 40X, &amp; Oil immersion lenses and inbuilt Battery backup power source.</b>  <b>16) Microscope should be Three year manufacturing warranty not Dealer side.</b>  <b>17) Should have free service facility/scheme.</b>  <b>18) Should have ISO 13485 safety Certificate.</b>  <b>19)Warranty period : 5 years Comprehensive Maintenance contract for 2 years &amp; AMC for 5 Years.</b></p>
02	Tilt Table	<ul style="list-style-type: none"> <li>• The Head Tilt Table(HUT Table) Was specifically designed to meet the ACC Expert Consensus table design requirement for head up tilt testing equipment.</li> <li>• It can travel from 70° head up reverse Trendelenburg to level 11 seconds, permits calibrated falling tilt, secures the patient gently to prevent falling and is designed with a foot-board support appropriate for syncope evolutions.</li> <li>• Designed for;- Cardiologist, Electro physiologist, Research physicians.</li> <li>• Optional Echocardiogram Imaging Exam Drop, Section One Hand Rapid release Patented Non-Pinch Closure, Sonographer 2-way Drop Section with Remote Release and patient Back Support, Sonographer Extension, Positioning Extension.</li> <li>• High Adjustment: 30"-38"</li> <li>• Trendenburg Adjustment; +15°- (-80°)</li> <li>• Tilt Rate; 6.5' Per Second</li> <li>• Patient Weight Capacity;350 lbs</li> <li>• Hand Controller w/memory Positioning.</li> <li>• Dual fail safe backup system Power loss battery backup and Manual Hand Crank.</li> <li>• Secure/Adjustable patient safety strape system integrated/Folding Foot Platform.</li> <li>• 2-Way Individual Locking Casters.</li> <li>• 1 Year Warranty(See Expanded Specification and Warranty).</li> </ul>
03	Binocular Simple Microscope(Skin)	<ul style="list-style-type: none"> <li>• Eyepiece-Wide field focusable paired eyepiece 10x18mm with foldable eye guard, lockable, antifungal.</li> <li>• Viewing Bodies-45 inclined, 360 Routable dovetail, Inter Papillary distance 54-74mm.</li> <li>• Stand-Sturdy with antirust, antibacterial material. Heat isolating hand rests.</li> <li>• Objectives-LP series DIN Semi Plan Achromatic objectives.4x,10x,10x(Spring loaded oil),anti fungal.</li> <li>• Nosepiece-Quadruple Nosepiece (Ball bearing type)with rubber grip, click stop for exact Position.</li> </ul>

		<ul style="list-style-type: none"> <li>• Condenser-Sub stage Abbes condenser NA 1.25 with aspheric lens. Iris diaphragm with snap-in blue filter. rack and pinion movement on metal guides.</li> <li>• Mechanical stage-Rectangular stage size 125 x 124mm. X/Y travel range 76mm x 50mm. Low drive movement control. Single specification holder.</li> <li>• Focusing-Co-axial coarse and fine focusing on ball drive system for smooth operation. Fine drive movement 0.2mm/division. Tension adjustment for torque control.</li> <li>• Illumination-LED 6V-20W illumination with variable illumination control. up to 100,000 hours of LED life.</li> <li>• Electricals- Universal input 110v/220v AC,50/60Hz, Built in voltage stabilizer.</li> <li>• It should have minimum 24 NBUVB tube &amp; 12UVA Tubes.</li> <li>• Each tube should her minimum 20 watts power</li> <li>• It should have option to use upper part and lower part separately.</li> <li>• Tube should have minimum length of 24 UVA tube any time.</li> <li>• It should run the power consumption of 220 volts and 50 Hz.</li> <li>• Control panel should have option to run body chamber separately for UVA &amp; NBUVB.</li> </ul>
04	Light Microscope With Facility for Dark Ground Illumination Microscopy (Skin)	<ul style="list-style-type: none"> <li>• Stand-Single mold sturdy stand with anti-rust material. Ergonomic extended base for hand rest and greater stability.</li> <li>• Viewing body-360 rotation,45 inclined Siedentopf tube(Binocular or Trinocular) with adjustable viewing height up to 40mm.</li> <li>• IPD-48-75mm.</li> <li>• Eyepiece-Reverse-angle quadruple nosepiece (Ball bearing type) with click stops and rubber grip.</li> <li>• Objectives-EP2 Plan Achromatic DIN Infinity objective 4x, 10x, 40x (Spring loaded) oil, antifungal.</li> <li>• Mechanical Stage-Double plate stage 150 x135mm, X-Y travel range 75mmx40mm with low – height controls. Hard coated surface for scratch resistance. Double specimen holder.</li> <li>• Condenser-Sub stage abbe NA 1.25 with aspheric lens. Iris diaphragm with blue filter. Rack and pinion movements on metal guides.</li> <li>• Focusing-Co axial coarse and fine focus on ball drive system for smooth operation.</li> <li>• Illumination-Intensity controlled LED(up to 50,000 hours)</li> <li>• Electricals-Universal input 100V-240V AC, 50/60Hz built-in voltage stabilizer.</li> <li>• Optional Accessories-Dark field Kit.</li> </ul>

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## Financial Bid

(To be submitted on the letterhead of the company/firm separately for each item)

A.

SN	Items Description	Unit	Rate Per Unit	Taxes	Total Amount (in Rs.)

B.

CMS Charges as applicable(excluding Service Tax)	
1 <sup>st</sup> Year	
2 <sup>nd</sup> Year	
3 <sup>rd</sup> Year	
4 <sup>th</sup> Year	
5 <sup>th</sup> Year	

**Note;-**

1. Unit Price should be inclusive of all applicable taxes, packing, forwarding, postage and transportation F.O.R. & 5 years for **Item No. 1, 2, 4, 7, 12, 20, 21, & 12** Comprehensive Warranty(Including all spares, accessories & Software)
2. Firm should quote the rate for CMC for the above equipment/items/instruments at relevant column and should not be more than 5% per year of unit price of the quoted price. The rates quoted should be inclusive of all taxes and duties.
3. The cost of Comprehensive Maintenance Contract (CMC) after satisfactory completion of warranty period which includes preventive maintenance including testing & calibration as per technical/service/operational manual, labour and spares, should be quoted along with taxes applicable on the date of tender opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. CMC Charges will be negotiable with respected to lower charges quoted for CMC by any firm.
5. The uptime warranty will be 95 % on 24(hrs) x 365(days) basis or as stated in Technical Specification of the tender documents.
6. The supplier shall keep sufficient stock of required during Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Place:

Date:

Signature of Bidder with Seal

