



MUNICIPAL COLLEGE, ROURKELA

Request for proposal
to select supplier for supply & installation of Laboratory Equipments for
Physics, Chemistry, Botany & Zoology
under
Odisha Higher Education Program for Excellence & Equity (OHEPEE),
At
MUNICIPAL COLLEGE, ROURKELA

RfP No: 039/OHEPEE/2023/008

Dated: 16.02.2023

Issued by;

Principal,
MUNICIPAL COLLEGE
UDITNAGAR, ROURKELA-769012

SECTION 1 : SCHEDULE OF RFP

Sl No	Particulars	Details
01	RfP No	039/OHEPEE/2023/008
02	Date of issue of RfP	16.02.2023
03	Name of the RfP issuer (Principal)	Principal, Municipal College, Rourkela
04	Scope of work	Supply & installation of Laboratory Equipments for Physics, Chemistry, Botany & Zoology
05	Method of selection	Least Cost Selection Method
06	Deadline for submission of Pre-Proposal query	02.03.2023
07	Pre-Proposal Meeting	08.03.2023
08	Issue of Pre-Proposal clarifications(if any)	12.03.2023
09	Last date for submission of proposals	23.03.2023
10	Date of opening of Technical Proposals	24.03.2023
11	Date of Opening of Financial Proposals	28.03.2023
12	Earnest money Deposit(EMD): Refundable for unsuccessful Firms	2% Of Estimated Cost
13	Performance Security(To be submitted by the L1 firm only)	3% of the L1 estimated Value
14	Address/Venue for submission / Opening of such Proposals.	Office of the Principal, Municipal College, Rourkela

Note: In case of any change in the scheduled date due to COVID-19/ any unforeseen event the date may be shifted to the next possible working day or as decided by the Principal.

OFFICE OF THE PRINCIPAL MUNICIPAL COLLEGE, ROURKELA

NOTICE OF INVITATION

The Principal of Municipal College, Rourkela hereby invites proposals from reputed eligible firms located within state of Odisha to select supplier for supply of **Laboratory Equipments for Physics, Chemistry, Botany & Zoology** at the college premise.

1. Firm will be elected under “least cost selection” method as per criteria mentioned in the RfP document.
2. The Proposal must be complete in all respect as specified in the RfP document and must be accompanied with the required financial instruments as specified in the RfP.
3. The EMD should be submitted in form of a Demand Draft in favour of Principal, Municipal College, Rourkela drawn in any scheduled commercial bank, without which the proposal will be rejected.
4. Performance security is to be submitted after issuing of LoI to the L1 Bidder.
5. The Proposals will be opened in the presence of the designated/ authorized representatives of the interested firms on the scheduled date and time at the specified address as mentioned in the “ schedule of RfP “. Designated /Authorized representatives of the interested firm may attend the meeting with due authorization letter on behalf of their firm.
6. Interested firm may obtain the RfP document from the official website of the college (<https://www.municipalcollegerkl.com>) and submit their proposal in a sealed document as per the instructions mentioned in the RfP document.
7. The Interested firms must accept all technical/ commercial terms & conditions mentioned in the RfP document.
8. The Principal, Municipal College, Rourkela reserves the right to cancel the RfP at any point without prior notice.

SECTION 3 : SCOPE OF WORK

1. The Scope of Work must fulfill the requirements of the college like; supply of required number of items within the specific dateline e.g within 15 days of issued of the "Supply Order".
2. The supplier must deliver & install the required items at college campus and no further time should be allowed for supply of the required goods without any valid reason and without the approval of the Principal.
3. Once required numbers of items are supplied by the supplier at college campus, the training and demonstration of the items supplied must be given by the supplier.
4. After installation, training and demonstration of the required items are finished; if any issue arises with the item then the Principal of the college should immediately report in writing to the supplier.
5. After all issues are resolved, the supplier will submit the invoice to the college & the college will initiate the payment process within 15 working days of installation of the required items/goods.

1. PRE-QUALIFICATION CRITERIA

The participating firms must produce copies of all the required supportive documents / information as part of their proposal, failing which the same proposal shall be summarily rejected.

Sl. No	Basic Requirement	Specific Requirement	Supporting Documents Required
1	Legal Entity	Firm must be a Company as registered under the provisions of the Indian Companies Act Or A Partnership Firm registered under the Indian Partnership Act Or A Limited Liability Partnership registered under The Limited Liability Partnership Act Or • A Sole Proprietorship Firms	• Certificate of Incorporation/ Registration • Partnership deed • GST Registration • PAN
2	Experience	Interested firms altogether must have supplied goods as mentioned in the RfP at least once to any of the offices/colleges/universities.	Supply Order copies.
3	Turnover	During last three Financial years i.e. FY 2018-19, 2019-20, 2020-21, the average annual turnover of the interested firm should not be less than 10% of the cost estimated by the college.	• Audited balance sheet and "Profit & Loss account" along with all schedules certified by a practicing Chartered Accountant. • Acknowledgement of Income tax returns
4	EMD (EMD of unsuccessful firms will be returned immediately)	The interested firm should submit EMD. EMD value should be fixed by the college @ 2% of the total supply order value estimated by the college.	Demand Draft in favour of "Principal of the College".
5	EMD relaxation criteria.	Firms registered under MSME are exempted from submitting the EMD.	Bid Security declaration and MSME/Start Ups proof.
6	Performance Security	3% of the L1 value.	Demand Draft from a scheduled commercial Bank

			OR A Fixed Deposit OR A Bank Guarantee pledged in the name of "Principal of the College"
7	Blacklist	The Firm should not have been banned/ blacklisted/ debarred/ Suspended by the World Bank / Central Govt./ State Govt. / Central or State PSU Origination/Central or State Govt. Universities or Colleges.	Self-Declaration from the Firm as per the prescribed format mentioned at "FORM T4".

2. VALIDITY OF THE PROPOSAL

- The proposal submitted by the interested firms will remain valid for one year.
- The selected firms must supply and install required number of goods as per the approved rate and within 15 days of receipt of the "Supply Order" from the college.
- Deviation from this may lead to disengagement of the selected firm and firm secured L2 position may be invited to supply the goods as per the terms and conditions of the RfP.

3. PRE -PROPOSAL QUERIES / MEETING

- Firms may submit their queries (if any) for pre-proposal meeting in respect of the RfP, to the Principal, College Name only through e-Mail at <college email id> within the stipulated date & time mentioned in the RfP document.
- Clarifications to the above will be hosted in the official website of College, after the pre-proposal meeting, as per the schedule mentioned in the RfP document.
- The pre-proposal query meeting may be conducted either in online or physical mode.

4. SUBMISSION OF PROPOSALS

- Interested firms are advised to study carefully all instructions, forms, terms & conditions and other important information mentioned in the RFP document.
- Each page should be signed with official seal of the authorized person.
- The proposal must be complete in all respect, properly indexed and hard bound.
- A sealed master envelope bearing the name, address, phone number and email id of firm along with the RfP name & number should contain two separate sealed envelopes i.e:

- 1) Technical Proposal

2) Financial Proposal

- The sealed "Technical Proposal" must contain the required supporting documents as per the sequence mentioned below:
 - ✓ EMD through Demand Draft.
 - a) However; Micro, Small & Medium Enterprises registered with MSME / NSIC with valid category wise certificate, duly issued by Government of India are exempted for submitting the EMD on the condition that they must have the valid & category wise valid registration certificate on the date of opening of tender.
 - b) EMD deposited by the unsuccessful firms will be returned immediately.
 - c) EMD deposited by the selected firm will be returned after submission of "Performance Security".
 - ✓ **FORM T 1:** Technical Proposal Submission Form.
 - ✓ **FORM T 2:** Organization Details along with:
 - Copy of Certificate of Incorporation/ Registration
 - Copy of PAN
 - Copy of Goods and Services Tax Identification Number (GSTIN)
 - ✓ **FORM T 3:** Experience Details.
 - ✓ **FORM T 4:** Self declaration from the firm confirming not have been banned/ blacklisted/ debarred/suspended.
 - ✓ **FORM T 5:** Technical Specifications Compliance Sheet.
 - ✓ **FORM T 6:** Financial Turnover Details along with:
 - Copies of audited balance sheet, Profit & Loss account and all schedules certified by the Chartered Accountant.
 - Copies of IT Return for the last three financial year i.e FY 2018-19, 2019-20, 2020-21.
 - **FORM F 1:** Financial Proposal Submission Form.
- The sealed "Financial Proposal" must contain:
 - The prices and other information having a bearing on the price shall be written both in figures and words in the prescribed form.
 - No alternation / modification / overwriting / corrections in the format shall be accepted.
- The sealed proposal must be delivered at the specified address as per the "Schedule of RfP" through Speed Post / Registered Post / Courier only. The Principal shall not be responsible for postal delay or delay due to any

unforeseen situation. Submission of proposal through any other mode will not be accepted.

5. OPENING OF PROPOSALS

- ✓ Sealed envelope containing the proposal will be opened by the Principal in presence of the firm/their representative at the location, date and time specified in the RfP document.
- ✓ Only one representative with proper authorization letter from the participating firm will be allowed to attend the tender opening meeting.

6. DISQUALIFICATION/REJECTION OF PROPOSAL

The proposal is liable to be disqualified in the following cases as listed below:

- Proposals not conforming to the eligibility criteria and not submitting the required documents as mentioned in the RfP".
- Submission of forged documents.
- Proposal submitted without EMD.
- Proposal not submitted in accordance with the procedure and formats as prescribed in the RFP.
- Proposal received in incomplete form.
- Proposal received after due date and time.
- Proposal which is not accompanied by all the required documents/information.
- Firm trying to influence the proposal evaluation process by unlawful/corrupt/fraudulent means at any point of time during the bid process.
- Price quoting in any irrelevant papers, documents, presentation etc except "Financial Proposal".
- If in case of a firm or any person acting on its behalf indulges in corrupt/fraudulent practices.
- Any other condition / situation which holds the paramount interest of the PRINCIPAL during the overall selection process.
- The Principal reserves the right to annul any/all of the proposals received, at any point of time with/without assigning any reason thereof.

7. EVALUATION OF PROPOSALS

A two stage process will be adopted as explained below for evaluation of the proposals:

A. Technical Evaluation

- Technical evaluation of the proposals will be done to determine whether the proposal complies with the prescribed eligibility conditions and the requisite

documents / information / financial instruments have been properly furnished by the firm.

- Technical compliance as submitted along with the proposal will be done to determine whether the Brand & model, proposed by the interested firm consists of all required minimum specifications as mentioned at "Form T 5" the RfP document.

B. Financial Evaluation

- The financial proposals of the technically qualified firms only shall be opened at this stage in the presence of the technically qualified firm/their authorized representative on the scheduled date and time as mentioned in the RfP document.
- "Least Cost Selection Method" will be followed.
- The firm, who submits the lowest financial price proposal shall be declared as the "L 1" bidder and shall be communicated for further process leading to issue of "Supply Order".

8. AWARD OF CONTRACT

- The L 1 bidder will be notified by the PRINCIPAL in writing by issuing a "Letter of Intent" and will be asked to acknowledge the "Letter of Intent (LoI)" and to submit the "Performance Security" within 15 days of issuance of the LoI.
- The "Performance Security" is unconditional and irrevocable.
- Performance Security amount is mentioned at Para 1 of "Section 4" and the Performance Security must remain valid till warranty period of the goods..
- After receiving the acknowledgement of LoI along with the "Performance Security", the PRINCIPAL will issue the "Supply Order to the selected firm", for their requirement as specified in the RfP document.
- After issue of "LoI" or after receipt of the acknowledged "LoI", if due to any reason(s) the L1 bidder withdraws its willingness to supply the required goods then the EMD/Performance Security deposited by the same firm will be forfeited by the PRINCIPAL and firm securing the L 2 position in the financial bid will be awarded with contract, after submission of the required Performance Security amount & EMD.
- Once the Supply Order is issued by the college, the concerned firm must supply and install the required number of items within 15 days from the date of issue of the supply order. No further time will be allowed without any valid reason and without prior approval of the same from the Principal.

9. GENERAL TERMS & CONDITIONS

- Conflict Of Interest Exists In The Event Of:

- Firms who have a business or family relation with the PRINCIPAL, directly or indirectly.
- Practices prohibited under the anti-corruption policy of the Government of India and Government of Odisha. The interested firms are to be careful so as not to give rise to a situation where there will be any conflict of interest with the PRINCIPAL as this would amount to their disqualification and breach of contract.

➤ Disclosure:

- Firm has an obligation to disclose any actual or potential conflict of interest. Failure to do so will lead to disqualification of the bidder or termination of its contract.
- Firm must disclose if they are or have been the subject of any proceedings (such as blacklisting) or other arrangements relating to bankruptcy, insolvency or the financial standing of the firm, including but not limited to appointment of any officer such as a receiver in relation to the firm's personal or business matters or an arrangement with creditors, or of any other similar proceedings.
- Firm must disclose if they have been convicted of, or are the subject of any proceedings relating to:
 - ✓ A criminal offence or other serious offence punishable under the law of the land, or where they have been found by any regulator or professional body to have committed professional misconduct.
 - ✓ Corruption including the offer or receipt of an inducement of any kind in relation to obtaining any contract.
 - ✓ Failure to fulfill any obligations in any jurisdiction relating to the payment of taxes or social security contributions.

➤ Anti Corruption Measure:

- Any effort by firm(s) to influence the PRINCIPAL in the evaluation and ranking of financial proposals, and recommendation for award of contract, will result in the rejection of the proposal.
- A recommendation for award of contract shall be rejected if it is determined that the recommended firm has directly, or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question. In such cases, the PRINCIPAL shall reject the proposal and disqualify it from participating in any related RfP process.

➤ Force Majeure:

- "Force Majeure" means an event beyond the control of the selected firm and not involving the selected firm's fault or negligence and not foreseeable.
- Such events may include wars or revolutions, fires, floods, riots, civil commotion, earthquake, epidemics or other natural disasters and restriction

imposed by the Government or other bodies, which are beyond the control of the selected firm, which prevents or delays the execution of the order by the selected firm.

- If a Force Majeure situation arises, the selected firm shall promptly notify PRINCIPAL in writing of such condition, the cause thereof and the change that is necessitated due to that prevailing condition. Until and unless otherwise directed by the PRINCIPAL in writing, the selected firm shall continue to perform its obligations as per the RFP terms & conditions as far as possible and shall seek all reasonable alternative means for delivering performance not prevented by the Force Majeure event.
- The selected firm shall inform the PRINCIPAL in writing, the beginning and the end of the above causes of delay, within seven days of the occurrence and cessation of the Force Majeure condition. In the event of a delay lasting for more than one month, if arising out of causes of Force Majeure, PRINCIPAL reserves the right to cancel the contract without any obligation to compensate the selected firm in any manner for what so ever reason.
- The PRINCIPAL and the selected firm shall make every effort to resolve amicably, by direct negotiation, any disagreement or dispute arising between them under or arising from or in connection with the contract.

➤ Governing Laws:

- Any unjustified and unacceptable delay in delivery shall render the selected firm liable for liquidated damages and thereafter the PRINCIPAL holds the option for cancellation of the contract for pending activities and completes the same through any other firm(s) who participated in the RfP process by awarding the same contract to L 2 bidder in the financial bid.
- In such case of premature cancellation the contract the PRINCIPAL reserves the right to withhold the Performance Security.
- The rights and obligations of the PRINCIPAL and the selected firm under this contract will be governed by the prevailing laws of Government of India and Government of Odisha only.
- All legal disputes are subject to the jurisdiction of the Orissa High Court, Cuttack.

SECTION 5 : FORM

FORM T 1 : TECHNICAL PROPOSAL SUBMISSION FORM

To

The Principal
Municipal College,
Uditnagar, Rourkela
Pin Code- 769 012

Sub: Submission of technical proposal to select supplier for **“Laboratory Equipments for Physics, Chemistry, Botany & Zoology”** at the College.

Ref: Rfp No. & date

Dear Sir,

I, the undersigned offer to participate in the selection process to select supplier for **“Laboratory Equipments for Physics, Chemistry, Botany & Zoology”** at the college, in accordance with your RFP No.

I am here by submitting technical proposal, which include EMD, Technical Proposal and Financial Proposal sealed in two separate envelopes. I, hereby declare that all the information and statement made in the technical and financial proposals are true and correct. I, accept that any misinterpretation contained in it may lead to disqualification of my proposal.

I hereby unconditionally undertake to accept all the terms and conditions as stipulated in the RfP documents. In case any provision of this RfP are found violated , then your college shall without prejudice to any other right or remedy be at liberty to reject our proposal including forfeiture of the full said EMD absolutely.

Yours faithfully

Authorized signatory of the
firm with date and seal

FORM T 2: ORGANISATION'S DETAILS

Sl. No	Particular	Details
1	Name of the Firm	
2	Type of Firm (Proprietary/ Partnership/ Pvt. Ltd. / Public Ltd/ Sole Proprietorship)	
3	Date of Establishment and Experience in business (In number of years)	
4	Registered office Address & Complete postal address	
5	Local office in Odisha (along with address & contact details).	
6	Telephone & e-Mail id of authorized person	
7	G.S.T. Registration No.	
8	PAN No.	
9	Willing to carry out assignments as per the scope of work of the RFP (Yes/No)	
10	Willing to accept all the terms and conditions as specified in the RFP (Yes/No)	

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 3: EXPERIENCE DETAILS

Sl. No.	Name of the University/College? Department/Office to whom materials supplied	Quantity of Materials Supplied	Date of Receipt Work Order with reference number	Date of supply of goods/items.	Remarks if any

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 4: SELF DECLARATION FOR NOT BLACK LISTED

To,

The Principal,
College Name,
College Address

Sub: Self declaration for not black listed.

Ref: RFP No:

Sir,

I/We.....here by confirm that our firm has not been banned/ blacklisted/ debarred/suspended by the World Bank / Central Govt/ State Govt. / Central or State PSU Origination/Central or State Govt. Universities or Colleges.

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 5: MINIMUM REQUIRED SPECIFICATIONS COMPLIANCE SHEET

Interested firm(s) must confirm that the material and specification they are proposing to supply is satisfying the below mentioned minimum required technical specifications.

Deviations (If any) from the below mentioned minimum required technical specifications, must be clearly indicate by the interested firm(s).

1. Laboratory Equipments Physics

SI No	Minimum required specification	Compliance (Yes/No)	Deviations
01	To determine the specific rotation of sugar solution using Polarimeter. <u>Technical specification:</u> Polarimeter tube Length: 200mm with central bulb, metallic cap & Cover glasses packed in a valvet case. Sodium light source starting voltage 470volts, input volatage 220V,50Hz, lamp house: 300×85mm, aperture dia: 25mm, Laurent's half shade, Circular scale: 0⁰-360⁰, least count 1⁰, Venire reading 6 min, Dimensions: Dia 12mm, Length 200mm.		
02	Measurement of Susceptibility of Paramagnetic Solution <u>Technical specification:</u> Power supply Voltage 0-60v DC continuously variable and stabilized voltage display: 3$\frac{1}{2}$ Digit LED, Ripple: Less then 25mV Over load: Current Limiting Protection Current: 5A continuously variable, 10% to full rating current display: 3$\frac{1}{2}$ Digit LED Working Voltage: 230V AC , 50Hz single phase. Digital Gauss Meter Range : 200G and 2Kg, Resolution: 1G at 0-200G Power: 220V, 50Hz AC, Hall probe: InAs Travelling Microscope: Travel: Horizontal 170mm, Vertical 110mm Least Count: 0.01mm, working distance: 50mm, Eyepiece Ramsden: 8x, Reticle: 90⁰ cross on glass. Digital weighing scale: Capacity: 700g, Display: digital. Least count: 0.1g Body: Plastic Electromagnet: Coils: 500turns, coil current: 8.5Amp(Max) Connection: 4mm safety socket U core: 150 × 130mm(L×H), 40×40mm cross section I Core: length= 150mm, 40×40mm cross section Core Material: Ferromagnetic, Bore Pipe: Iron with 5mm pipette, Tube & beaker are included in the setup.		

03	To Measure the Dielectric constant of a Dielectric materials with frequency(Resonance method) <u>Technical specification:</u> Actual Capacitor: 18pf, 13pf,10pf,8pf Test capacitor without Dielectric: 80pf,88pf,91pf,94pf Teas Capacitor with dielectric:25pf, 46pf, 60pf,70pf High frequency Oscillator: 100khz Gang Condencer: 0 to 180° The unit is complied on a hylem Board Inter connection: 4mm Input supply: 230v/ 50Hz		
04	To show the tunneling effect in tunnel diode using I-V Characteristics: <u>Technical Specification:</u> Inbuilt Fixed DC Regulated power supply DC voltmeter: 0 to 600mV. DC Ammeter: 0-50mA Tunnel Diode: IN 3717		
05	V-I Characteristics of a Zener Diode & its use as voltage regulator: <u>Technical specification</u> On Board 3MI Analog meter, variable DC supply: 0-15V Voltmeter: 0 to 15V(Moving Coil) 02 nos Ammeter: 0 to 1.5mA & : 0 to 15mA(moving coil) Variable Pot: 500K -1 nos Interconnection: 4mm patch cord Resistance: 1kΩ-3 nos Zener Diode: 6V,9V & 12V		
06	Wien Bridge Oscillator for Given Frequency using an op-amp <u>Technical Specification</u> DC Supply: +5V, BJT: CL100S Resistor: 4.7KΩ,100KΩ, 6.8KΩ, 3.3KΩ, 680KΩ, 10KΩ Capacitor: 0.01 μF,0.047 μF, 0.2 μF Optional : Cathode ray Oscilloscope		
07	To Determine Wave length of sodium light using Newton's Ring-ECONOMY <u>Technical Specification</u> Microscope: Magnification- 30x Eyepiece: Ramsden 10x, Objective: 3x Scale length: 110mm, Least count: 0.01mm Rotatable cross line Sodium vapour lamp 35W, Transformer with metal cover and Base Rod.		
08	Mechanical equivalent of heat J by Callender and barne's constant flow method: <u>Technical Specification</u> Calender nad Barn's continuous flow calorimeter AC ammeter: 0-30A(Moving Coil)		

	AC Volt Meter: 0-10V(Moving Coil) Thermometer: 10°C to 100°C -2 nos Measuring cylinder: 0 to 100mg DC Suplly: 2V to 12V /3A Three flow water containing beaker -1 nos Rubber tubing : 8mm to 2 meter		
09	To study a series LCR Circuit and determine its (a) Resonant frequency, (b) Quality factor. (c) Band width(d) Impedance at resonance <u>Technical Specification</u> DC volt meter: 0-5V(moving coil) DC Ammeter: 0-25mA(Moving Coil) Resistance: 100Ω, 150Ω & 220Ω Capacitors: 0.1 μF, 0.2 μF,0.3 μF Inductance: 50mH Signal Generators		
10	To verify the thevenin and Norton Theorems <u>Technical Specification</u> DC Supply: 12V/150mA(Variable) Resistor: 500Ω/ 1W(Variable) Resistor: 500 Ω,200 Ω and 1K Ω(fixed) DC volt Meter: 0-12V(Moving Coil) DC Ammeter: 0-20mA(Moving Coil)		
11	Study of Electron spin resonance- determine magnetic field as a function of the resonance frequency <u>Technical Specification</u> Frequency Range: 45 to 75mH(Approx.) DPPH sample Magnetic field- 0-3.37/50Hz current flows through Helmholtz coils Digital Display of frequency by DSO		

2. Laboratory Equipments Chemistry

SI No	Minimum required specification	Compliance (Yes/No)	Deviations
01	UV-VIS Spectrophotometer <u>Technical Specification</u> Wave length range: 190nm-1100nm Beam type: Double Band width- 1nm Display type: LCD(4.75" ×3.5") Output: USB Stray light: <0.02% T at 340nm		

3. Laboratory Equipments Botany

SI No	Minimum required specification	Compliance (Yes/No)	Deviations
01	Medical Microscope with inbuilt LED lightening system <u>Technical Specification</u> Viewing Body: Monocular Tube Stand: Straight with body inclinable trough 90° Eyepiece: Wf Eyepiece 10x Nosepiece: Quadruple revolving Nosepiece Objective: Sa series Achromatic Objective 10x/Na 0.25 & 40x/ Na 0.65(SI) Stage: Stage plate size 12 × 120mm with stage clips Focusing: Separate coarse and Fine Focus controls Coarse Movement by rack and pinion and fine movement by screw lever mechanism Condenser : Sub- stage fixed iris Diaphragm, condenser Na 1.25 Illumination system : Plano concave reflector Mirror mounted at the base package contents: Thermocol box and cleaning cloth		
02	Trinocular Microscope with camera attachment L-Shaped sturdy stand with anti-rust materials, Ergonomic base with greated stability. <u>Technical Specification</u> Eyepiece: Wide field eyepiece WF 10x/16mm(paired) Nosepiece: Quadruple nosepiece (ball bearing type) Objective: Achromatic objectives 4x/ Na 0.10, 10x/NA 0.25, 40x/NA 0.65(SL), 100x/NA1.25(SL oil) Mechanical stage: Graduated mechanical stage 140mm x 120mm, moving area 80mm (x), x 50 mm(y) with co-axial controls focusing: separate coarse and fine focusing mechanism.		
03	Digital photo colorimeter with in 8 Digital filters <u>Technical Specification</u> Wave length range: 405-700nm Filters: Built in 8 digital filters Filters wave length:405nm, 450nm,480nm,520nm,540nm,578nm,620nm,700nm Display parameters: OD % T, wave length detectors: Silicon photo diode, Accuracy: +0.01 O.D stability:+0.02 O.D./Hour		
04	Analytical Balance <u>Technical Specification</u> Readability/ Precision -0.01gm, capacityabout 500gm		
05	Digital Potentiometer(with 2 electrodes)- Display: 16x2 LCD Range: 414to +414mv, Readability: 0.1, Accuracy : ±0.1 Display : Parameter mv, calibration: single point resolution: 0.1 mv		

4. Laboratory Equipments Zoology

SI No	Minimum required specification	Compliance (Yes/No)	Deviations
01	Medical Microscope with inbuilt LED lightening system <u>Technical Specification</u> Viewing Body: Monocular Tube Stand: Straight with body inclinable trough 90° Eyepiece: Wf Eyepiece 10x Nosepiece: Quadruple revolving Nosepiece Objective: Sa series Achromatic Objective 10x/Na 0.25 & 40x/ Na 0.65(SI) Stage: Stage plate size 12 × 120mm with stage clips Focusing: Separate coarse and Fine Focus controls Coarse Movement by rack and pinion and fine movement by screw lever mechanism Condenser : Sub- stage fixed iris Diaphragm, condenser Na 1.25 Illumination system : Plano concave reflector Mirror mounted at the base package contents: Thermocol box and cleaning cloth		
02	Zoom Stereoscopic microscope(Trinocular) with Camera Attachment (Advance) <u>Technical Specification</u> Single- zoom optical path with a large diameter, which is optimized to collect light with revolutionary efficiency and resolution at all magnifications with 15 inch display with integrated i5 Intel Processor minimum 1 hour Working backup. From fluorescent observation of whole organisms, such as zebrafish, at low magnification to the detailed observation of gene expression at the cellular level at high magnification, With the par focal objectives and two-position revolving nosepiece, switching between objectives is very quick and easy, requiring little refocusing. Pre-Focusing lever and tension adjustment ring. Slow motion has 1 division = 0.02 mm, Quadruple nose piece revolves on ball bearing. Mechanical stage 125 x 135 mm having low positioned co-axial controls on ball bearing. Built in base illumination system with LED Trinocular head inclined at 30° and rotation at 360°. Diopter adjustment ring on ocular tube. Interpapillary distance adjustment from 55-75 mm.		
03	Analytical Balance: <u>Technical Specification</u> Readability/ Precision -0.01gm, capacity about 500gm		

Technical Specification, Quantity & Estimated Cost of the required equipments

1. Laboratory Equipments Physics

SI No	Minimum required specification	Quantity	Estimated Cost
01	To determine the specific rotation of sugar solution using Polarimeter. <u>Technical specification:</u> Polarimeter tube Length: 200mm with central bulb, metallic cap & Cover glasses packed in a valvet case. Sodium light source starting voltage 470volts, input volatage 220V,50Hz, lamp house: 300×85mm, aperture dia: 25mm, Laurent's half shade, Circular scale: 0 ⁰ -360 ⁰ , least count 1 ⁰ , Venire reading 6 min, Dimensions: Dia 12mm, Length 200mm.	01	18,000.00
02	Measurement of Susceptibility of Paramagnetic Solution <u>Technical specification:</u> Power supply Voltage 0-60v DC continuously variable and stabilized voltage display: 3 $\frac{1}{2}$ Digit LED, Ripple: Less then 25mV Over load: Current Limiting Protection Current: 5A continuously variable, 10% to full rating current display: 3 $\frac{1}{2}$ Digit LED Working Voltage: 230V AC , 50Hz single phase. Digital Gauss Meter Range : 200G and 2Kg, Resolution: 1G at 0-200G Power: 220V, 50Hz AC, Hall probe: InAs Travelling Microscope: Travel: Horizontal 170mm, Vertical 110mm Least Count: 0.01mm, working distance: 50mm, Eyepiece Ramsden: 8x, Reticle: 90 ⁰ cross on glass. Digital weighing scale: Capacity: 700g, Display: digital. Least count: 0.1g Body: Plastic Electromagnet: Coils: 500turns, coil current: 8.5Amp(Max) Connection: 4mm safety socket U core: 150 × 130mm(L×H), 40×40mm cross section I Core: length= 150mm, 40×40mm cross section Core Material: Ferromagnetic, Bore Pipe: Iron with 5mm pipette, Tube & beaker are included in the setup.	01	57,000.00
03	To Measure the Dielectric constant of a Dielectric materials with frequency(Resonance method) <u>Technical specification:</u> Actual Capacitor: 18pf, 13pf,10pf,8pf Test capacitor without Dielectric: 80pf,88pf,91pf,94pf Teas Capacitor with dielectric:25pf, 46pf, 60pf,70pf High frequency Oscillator: 100khz	01	8,000.00

	Gang Condenser: 0 to 180° The unit is complied on a hylem Board Inter connection: 4mm Input supply: 230v/ 50Hz		
04	To show the tunneling iffect in tunnel dioded using I-V Characteristics: <u>Technical Specification:</u> Inbuilt Fixed DC Regulated power supply DC vOlt Meter: 0 to 600mV. DC Ammeter: 0-50mA Tunnel Diode: IN 3717	01	9,000.00
05	V-I Characteristics of a Zener Diode & its use as voltage regulator: <u>Technical specification</u> On Board 3MI Analog meter, variable DC supply: 0-15V Voltmeter: 0 to 15V(Moving Coil) 02 nos Ammeter: 0 to 1.5mA & : 0 to 15mA(moving coil) Variable Pot: 500K -1 nos Interconnection: 4mm patch cord Resistance: 1kΩ-3 nos Zener Diode: 6V,9V & 12V	01	3,000.00
06	Wien Bridge Oscillator for Given Frequency using an op-amp <u>Technical Specification</u> DC Supply: +5V, BJT: CL100S Resistor: 4.7KΩ,100KΩ, 6.8KΩ, 3.3KΩ, 680KΩ, 10KΩ Capacitor: 0.01 μF,0.047 μF, 0.2 μF Optional : Cathode ray Oscilloscope	01	2,700.00
07	To Determine Wave length of sodium light using Newton's Ring-ECONOMY <u>Technical Specification</u> Microscope: Magnification- 30x Eyepiece: Ramsden 10x, Objective: 3x Scale length: 110mm, Least count: 0.01mm Rotatable cross line Sodium vapour lamp 35W, Transfermer with metal covel and Base Rod.	01	15,000.00
08	Mechanical equivalent of heat J by Callender and barne's constant flow method: <u>Technical Specification</u> Calender nad Barn's continuous flow calorimeter AC ammeter: 0-30A(Moving Coil) AC Volt Meter: 0-10V(Moving Coil) Thermometer: 10°C to 100°C -2 nos Measuring cylinder: 0 to 100mg DC Suplly: 2V to 12V /3A Three flow water containing beaker -1 nos Rubber tubing : 8mm to 2 meter	01	7,000.00

09	To study a series LCR Circuit and determine its (a) Resonant frequency, (b) Quality factor. (c) Band width(d) Impedance at resonance <u>Technical Specification</u> DC volt meter: 0-5V(moving coil) DC Ammeter: 0-25mA(Moving Coil) Resistance: 100Ω, 150Ω & 220Ω Capacitors: 0.1 μF, 0.2 μF, 0.3 μF Inductance: 50mH Signal Generators	01	6,500.00
10	To verify the thevenin and Norton Theorems <u>Technical Specification</u> DC Supply: 12V/150mA(Variable) Resistor: 500Ω/ 1W(Variable) Resistor: 500 Ω, 200 Ω and 1K Ω(fixed) DC volt Meter: 0-12V(Moving Coil) DC Ammeter: 0-20mA(Moving Coil)	01	3,900.00
11	Study of Electron spin resonance- determine magnetic field as a function of the resonance frequency <u>Technical Specification</u> Frequency Range: 45 to 75mH(Approx.) DPPH sample Magnetic field- 0-3.37/50Hz current flows through Helmholtz coils Digital Display of frequency by DSO	01	75,000.00

2. Laboratory Equipments Chemistry

Sl No	Minimum required specification	Quantity	Estimated Cost
01	UV-VIS Spectrophotometer <u>Technical Specification</u> Wave length range: 190nm-1100nm Beam type: Double Band width- 1nm Display type: LCD(4.75" ×3.5") Output: USB Stray light: <0.02% T at 340nm	01	2,00,000.00

3. Laboratory Equipments Botany

Sl No	Minimum required specification	Quantity	Estimated Cost
01	Medical Microscope with inbuilt LED lightening system <u>Technical Specification</u> Viewing Body: Monocular Tube Stand: Straight with body inclinable trough 90° Eyepiece: Wf Eyepiece 10x	01	6,300.00

	Nosepiece: Quadruple revolving Nosepiece Objective: Sa series Achromatic Objective 10x/Na 0.25 & 40x/ Na 0.65(SI) Stage: Stage plate size 12 × 120mm with stage clips Focusing: Separate coarse and Fine Focus controls Coarse Movement by rack and pinion and fine movement by screw lever mechanism Condenser : Sub- stage fixed iris Diaphragm, condenser Na 1.25 Illumination system : Plano concave reflector Mirror mounted at the base package contents: Thermocol box and cleaning cloth		
02	Trinocular Microscope with camera attachment L-Shaped sturdy stand with anti-rust materials, Ergonomic base with greated stability. <u>Technical Specification</u> Eyepiece: Wide field eyepiece WF 10x/16mm(paired) Nosepiece: Quadruple nosepiece (ball bearing type) Objective: Achromatic objectives 4x/ Na 0.10, 10x/NA 0.25, 40x/NA 0.65(SL), 100x/NA1.25(SL oil) Mechanical stage: Graduated mechanical stage 140mm x 120mm, moving area 80mm (x), x 50 mm(y) with co-axial controls focusing: separate coarse and fine focusing mechanism.	01	45,000.00
03	Digital photo colorimeter with in 8 Digital filters <u>Technical Specification</u> Wave length range: 405-700nm Filters: Built in 8 digital filters Filters wave length:405nm, 450nm,480nm,520nm,540nm,578nm,620nm,700nm Display parameters: OD % T, wave length detectors: Silicon photo diode, Accuracy: +0.01 O.D stability:+0.02 O.D./Hour	01	4,500.00
04	Analytical Balance <u>Technical Specification</u> Readability/ Precision -0.01gm, capacity about 500gm	01	7,500.00
05	Digital Potentiometer(with 2 electrodes)- Display: 16x2 LCD Range: 414to +414mv, Readability: 0.1, Accuracy : ±0.1 Display : Parameter mv, calibration: single point resolution: 0.1 mv	01	8,000.00

4. Laboratory Equipments Zoology

SI No	Minimum required specification	Quantity	Estimated Cost
01	Medical Microscope with inbuilt LED lightening system <u>Technical Specification</u> Viewing Body: Monocular Tube Stand: Straight with body inclinable trough 90°	03	18,000.00

	Eyepiece: Wf Eyepiece 10x Nosepiece: Quadruple revolving Nosepiece Objective: Sa series Achromatic Objective 10x/Na 0.25 & 40x/ Na 0.65(SI) Stage: Stage plate size 12 × 120mm with stage clips Focusing: Separate coarse and Fine Focus controls Coarse Movement by rack and pinion and fine movement by screw lever mechanism Condenser : Sub- stage fixed iris Diaphragm, condenser Na 1.25 Illumination system : Plano concave reflector Mirror mounted at the base package contents: Thermocol box and cleaning cloth		
02	Zoom Stereoscopic microscope(Trinocular) with Camera Attachment (Advance) <u>Technical Specification</u> Single- zoom optical path with a large diameter, which is optimized to collect light with revolutionary efficiency and resolution at all magnifications with 15 inch display with integrated i5 Intel Processor minimum 1 hour Working backup. From fluorescent observation of whole organisms, such as zebrafish, at low magnification to the detailed observation of gene expression at the cellular level at high magnification, With the par focal objectives and two-position revolving nosepiece, switching between objectives is very quick and easy, requiring little refocusing. Pre-Focusing lever and tension adjustment ring. Slow motion has 1 division = 0.02 mm, Quadruple nose piece revolves on ball bearing. Mechanical stage 125 x 135 mm having low positioned co-axial controls on ball bearing. Built in base illumination system with LED Trinocular head inclined at 30° and rotation at 360°. Diopter adjustment ring on ocular tube. Interpapillary distance adjustment from 55-75 mm.	01	57,000.00
03	Analytical Balance: <u>Technical Specification</u> Readability/ Precision -0.01gm, capacity about 500gm	02	15,000.00

Sd/-
 Principal
 Municipal College Rourkela

Form-F 2: Financial Bid

Tender Notice number

Date:

**Unit Rate/Value must be quoted below exclusive of any Tax and duties.
Tax percentage and Tax amount should be mentioned separately. The price
Bid will be evaluated as per total value of the equipment exclusive of Taxes and
duties.**

Sl No	Item Description	Quantity	Unit rate in figure(Rs.)	Unit rate in words(Rs.)	Total Value(Rs.)
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					

(A)Total value

% Of GST		GST amount	
% of other duties		Other duty amount	

**Note: Amount mentioned in “A” Total value will be considered for the financial Bid
evaluation. Tax amount will not be considered for evaluation.**

Signature of witness

Signature of the Bidder

Date:

Date:

Place:

Company Seal

Place:

FORM T 6: FINANCIAL TURNOVER DETAILS

Financial Turnover of the Organization during Last Three Financial Years (Certified by a Practicing Chartered Accountant)

SI No	Financial Year	Turnover in INR
01	2019 - 2020	
02	2020 - 2021	
03	2021 - 2022	
Average Annual turnover for the last three years (INR)		

Name of the C A Firm:

Firm Registration No.:

Name of the Chartered Accountant:

Membership No.:

Signature with Seal:

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM F 1: FINANCIAL PROPOSAL SUBMISSION FORM

To

The Principal
Municipal College, Uditnagar, Rourkela.

Sub: Submission of financial Proposal to select supplier for “**Laboratory Equipments**” at the college.

Ref: RfP No.....& Date.....

Dear Sir,

I, the undersigned, hereby submitting the Financial Proposal to select supplier for “**Supply of Laboratory Equipments**” at the college in accordance of RfP No.....

I, hereby declare that all the Financial Figures mentioned in the Financial Proposal is true and correct. I also accept that any misrepresentation of financial facts and figures may lead to disqualification of my proposal.

Sl No	Name of the Items	Number of Items	Remarks
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			

The other charges(*) may include:

1. All necessary accessories like cables, Wires, Pipes etc which are instrumental for installation.
2. The transportation/ material handling coast for delivering and installing the required numbers of materials at the college Premises.

Yours faithfully

Place and Date:

Authorized signatory of
the firm with date and
seal

SECTION 7

(Certificate of willingness to be submitted by all firms)

To

**The Principal
Municipal College, Rourkela**

**Sub: Submission of willingness certificate for supply & installation of
.....
..... at your college premises.**

Sir,

**I am to inform you that my firm is ready to supply & install
.....
.....
within 15 days of receipt of work order from the college selected under OHEPEE, if my firm is
elected as L1, bidder during selection of tender.**

**In the event of my firm's failure to supply & install the required items in the selected L1
cost, my EMD/ Performance security will be forfeited.**

Yours faithfully

Place and Date:

**Authorized signatory of
the firm with date and
seal**

ANNEXURE 1**(Proposal Submission Check List)**

Sl. No	Description	Submitted (Yes/No)
1	Earnest Money Deposit (EMD)	
2	Copy of Certificate of Incorporation / Registration	
3	Copy of Goods and Services Tax Identification Number	
4	Copy of PAN	
5	CA audited copies of Profit & Loss Account and Balance Sheet along with all schedules	
6	Copies of IT Returns for the last three financial years	
7	Technical Proposal Submission Form	
8	Organization's Details	
9	Experience Details	
10	Self-Declaration for not having been blacklisted	
11	Technical Specifications Compliance Sheet	
12	Financial Turnover Details	
13	Financial Proposal Submission Form	
14	Certificate of willingness to be submitted by all firms	