

**SWARGIYA BISAHU DAS MAHANT SMRITI  
CHIKITSA MAHAVIDYALAYA KORBA  
CHHATTISGARH**

**TENDER DOCUMENT**

**2022-23**

**SUPPLY & INSTALLATION OF EQUIPMENTS  
AT SWARGIYA BISAHU DAS MAHANT SMRITI  
CHIKITSA MAHAVIDYALAYA, KORBA (C.G.)**

  
**DEAN**

**SWARGIYA BISAHU DAS MAHANT SMRITI  
CHIKITSA MAHAVIDYALAYA, KORBA (C.G.)**

**TENDER COST – 3000.00**

## INVITATION OF BID

SWARGIYA BISAHU DAS MAHANT SMRITI CHIKITSA MAHAVIDYALAYA, Korba invites bids for purchase, supply and installation of equipment as per the specification and approximate quantity given in "List" from manufacturers, OR their authorized dealers in two 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 02 Crore 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- An EMD of Rs 5,00,000 ( Rupees Five lakh) has to be submitted in the form of Demand Draft in favor of Dean, Government Medical College, Korba 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, Government Medical College, Korba by paying Rs 3000 in the form of Demand Draft drawn in favor of Dean, Government Medical College, Korba drawn on any Scheduled bank and payable at Korba. Tender documents can also be downloaded from the website [sbdmsem.edu.in](http://sbdmsem.edu.in) as per tender schedule. In such case, the tender fees of Rs 3000 in the form of DD 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** as per date & time given in tender schedule (**Manual submission will not be acceptable**). 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.

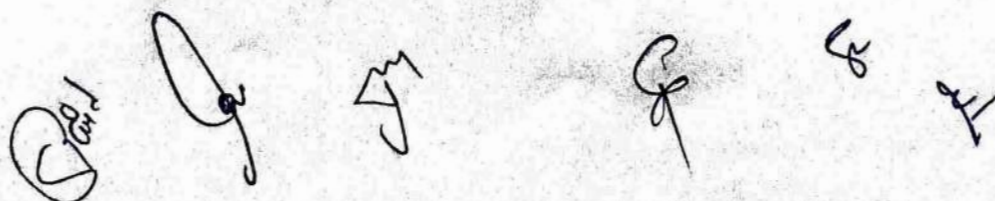




6. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The 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 is Government Medical College, Korba. Date and time of demonstration shall be communicated to the bidders.
9. Government Medical College, Korba 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 21 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 paid by 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. **For Articulated Human Skeleton (Real Bones) and Disarticulated Human Bones (Real bones)** the bidder must possess legal compliance from Govt. Agency/ Statutory body/ Court order with regards to legality of holding stock/ authenticity and has to furnish authorization to the bidder to submit the bid and quote in the tender, however sole authorization is not applicable for this item. Supplier must have certificate of registration from Govt. agency to supply the real bones/ skeletons. Certificate of registration and court order (Specifying originality and authenticity) must be provided to the buyer.

13. Dates:

- i. Date of selling Tender form : 24.11.2022
- ii. Last date of submission of tender form : 23.12.2022 up to 3 pm
- iii. Opening date of tender : 23.12.2022 at 4 pm At Office of the Dean, Govt. Medical College Associated Hospital, Korba





**TENDERS NOT ACCOMPANIED WITH THE FOLLOWING DOCUMENTS WILL BE SUMMARILY REJECTED**

1. Bidders name and address with proof.
2. Earnest money of Rs 5,00,000 ( Rupees Five lakh) in the form of Demand Draft .
3. Turnover certificate for last 3 years Certified by CA as per Format 2.
4. Valid document/ certificate/ drug license for selling Medical equipment.
5. Income Tax Return File for last 3 Financial Year of the Firm
6. PAN card of the firm/ proprietor,
7. Valid GST Registration Certificate and self attested copy of GST return file for the last financial year 2021-22.
8. In case the Bidder is an authorized dealer, original letter of authorization and agency's agreement copy at least valid till the warranty period of the machine quoted as per format 3.
9. Registration Certificate of Manufacturer/Shop Establishment Certificate/Gumashta.
5. Notarized affidavit on stamp of RS 50.00 that the firm has not been blacklisted in the past by any organization is mandatory to submit .
6. Notarized affidavit on stamp of RS 50.00 in respect of the tenderer having not supplied the same materials at a lower rates than the tender invited by any other organization at the rate of the material submitted in the tender.
7. In respect of which any judicial process is pending against of firm, it will be mandatory to submit notarized affidavit on the stamp amount of Rs 50.00
8. It is mandatory to submit a notarized affidavit on a stamp of Rs. 100.00 for accepting all the terms and condition of the tender.

Declaration as per Annexure-

**BID- 1 B.**

**Technical Bid:-**

1. Tenderers have to give **technical compliance statement to each clause of tender specification in the form of Yes or No. Any deviation should also be included. (It should be in tabular form)**
2. Technical catalogues & literature should be mandatory submitted manually for verification of above.
3. Clear scope of supply with standard & essential accessories for completeness of equipment in terms of specification.
4. Technical demonstration- Bidder shall demonstrate the items in front of the Technical committee. Place of demonstration is Government Medical College, Korba. Date and time of demonstration shall be communicated to the bidders separately.



## BID – 2 (Price Bid)

Price bid for items **per unit** quoted clearly indicating the quoted prices online in words and figures. Rates to be quoted as per the format in the tender document.

### SPECIAL CONDITIONS OF CONTRACT

#### BID PRICE

1. The Bidder shall indicate the appropriate price only in prescribed format. Under columns duly marked as "unit price" (where applicable) and "total bid price" of the equipment proposed to be supplied under the contract.
2. Prices indicated on the price schedule shall be entered separately on firm & final basis. GST should be mentioned separately.
3. The price bid for each item/ group to commensurate with scope of supply indicates all inclusive price in FOR destination.
4. The bidders should provide at least two last selling prices for the quoted item along with addresses and purchase order copy with specifications issues by the purchaser to the firm, as and when demanded by tendering authority.

#### PERIOD OF VALIDITY OF BIDS

1. Bids shall remain valid for 1 year from finalization of the tender. A bid valid for a shorter period shall be rejected by the purchaser as non-responsive.

#### DEADLINE FOR SUBMISSION OF BIDS

1. The bids must be submitted as per the schedule in the tender document..
2. The Purchaser may, at its discretion, extend the deadline for the submission of Bid by amending the bidding documents in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

#### REPLACEMENT AND WITHDRAWAL OF BIDS

1. No bid may be modified or withdrawn after the deadline for submission of bids.

#### PURCHASER RESERVES RIGHT TO VARY QUANTITIES AT THE TIME OF AWARD AND DURING CURRENCY OF THE CONTRACT.

The Purchaser reserves the right at the time of award of contract or during the currency of the contract to increase or decrease the quantity of all goods and services, originally specified in the schedule of requirements without any change in unit price or other terms and conditions.

## NOTIFICATION OF AWARD

1. Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing by registered post that its bid has been accepted.
2. The notification of award will constitute the formation of the contract and date of the contracts shall be the date of notifications.

## SIGNING OF CONTRACT

At the same time as the Purchaser notifies the successful Bidder that its bid has been accepted, the Bidder shall sign the contract form provided in the bidding documents, incorporating all agreements between the parties within thirty (30) days of notification of award.

  
Dean  
Govt. Medical College  
Korba (C.G.)















**AGREEMENT FORM**

THIS AGREEMENT is made this day of \_\_\_\_\_ 2022

(between \_\_\_\_\_ (hereinafter "the purchaser") of the one part and \_\_\_\_\_ (Name of Supplier) of \_\_\_\_\_ (city and country of supplier) (hereinafter called "the Supplier") of the other part :

WHEREAS the purchaser has invited bids for MEDICAL / HOSPITAL / GENERAL EQUIPMENT and ancillary services. (Brief Description of goods and services) and has accepted a bid by the supplier for the supply and installation of the Medical equipment \_\_\_\_\_ in

\_\_\_\_\_ the \_\_\_\_\_ sum  
\_\_\_\_\_ of \_\_\_\_\_

(Agreement price in words and figures) (Hereinafter called "the Agreement Price").

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

- a. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions contract referred to.
- b. The following documents shall be deemed to form and be read and construed as part of this Agreement viz.  
The price schedule submitted by the Bidder ;  
The Technical Specifications;  
  
The General & Special Conditions of Contract;  
The Purchaser's Notification of award.
- c. In consideration of the payments to be made by the purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the contract.
- d. The Purchaser hereby covenants to pay the supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed and Delivered by the \_\_\_\_\_

Said (name of representative) (for the purchaser) \_\_\_\_\_

In the presence of (name of witness) \_\_\_\_\_

Signed, Sealed and Delivered by the \_\_\_\_\_

Said (name o representative)(for the supplier) \_\_\_\_\_



**TURNOVER CERTIFICATE FROM CHARTERED ACCOUNTANT**

**AFFIDAVIT**

To

DEAN

SWARGIYA BISAHU DAS MAHANT SMRITI

CHIKITSA MAHAVIDYALAYA, KORBA (C.G.)

We hereby certify that M/s \_\_\_\_\_ (the name of participant in the tender)  
who is participating the tender for supply of Medical equipment called by Dean, SWARGIYA BISAHU  
DAS MAHANT SMRITI CHIKITSA MAHAVIDYALAYA, Korba, Chhattisgarh having their office at  
(address of office)

has a sales turnover given as below :-

Turnover in the year of 2019-2020. RS.

Turnover in the year of 2021-2021. RS.

Turnover in the year of 2021-2022. RS.

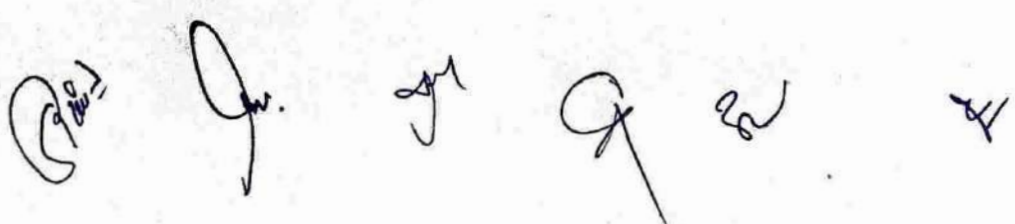
The above information is correct and true.

CHARTERED ACCOUNTANT

ON Rs.50/- STAMP PAPER

**The document should be notarized.**

NOTE: The turnover other than participant will not be accepted.





AUTHORIZATION LETTER

TO WHOM SO EVER IT MAY CONCERN

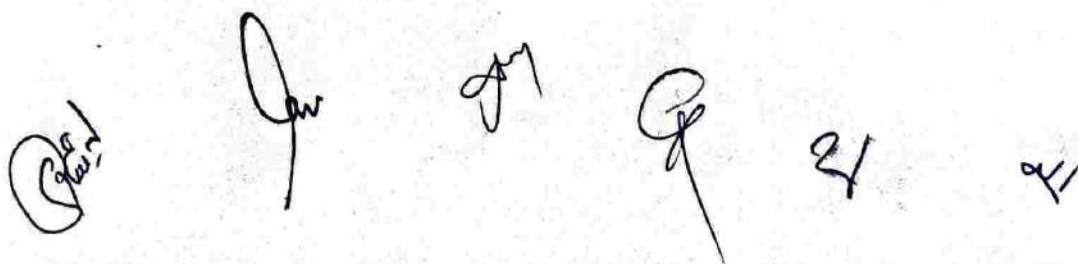
We (Name of manufacturer) who are established and reputable manufacturers having factories at (address of the factory) do hereby authorized M/s .....  
 ..... (Name & address of the agent) to submit a bid, and sign the contract with you for the goods manufactured by us.

No company or firm or individual other than M/s .....  
 ..... (name and address of agent) are authorized to bid, and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per General Conditions of Contract .

Yours faithfully,

**Note:** - Certificate should be in letter pad of Principle Supplier with name & Designation Of authorized Signatory.

A series of handwritten signatures and initials in black ink, including a large circular signature, a stylized 'J', a signature with a long horizontal stroke, a signature with a loop, and two sets of initials.

## PRICE SHCEDULE FORMAT

S.No.	Details Of Items	Unit (One)	Make	Basic Rate/Unit	GST %	GST Amount	Total Rate

To be printed in bidders letterhead and signed on all pages with rubber stamp. Manual entry will be rejected.

*[Handwritten signatures and initials]*



**Check List of the Documents to Be Submitted With the Tender**  
**Confirm the enclosure of all the below listed documents without which tenderer may not be eligible to participate in the tender.**

S.No.	Item	Confirm (Yes/No)
1	Bidders name and address with proof.	
2	Earnest money of Rs 5,00,000 ( Rupees Five lakh) in the form of DD .	
3	Turnover certificate for last 3 years Certified by CA as per Format 2.	
4	Valid document/ certificate/ drug license for selling Medical equipment.	
5	Income Tax Return File for last 3 Financial Year of the Firm	
6	PAN card of the firm/ proprietor,	
7	Valid GST Registration Certificate and self attested copy of GST return file for the year 2021-22.	
8	In case the Bidder is an authorized dealer, original letter of authorization and agency's agreement copy at least valid till the warranty period of the machine quoted as per format 3.	
9	Registration Certificate of Manufacturer/Shop Establishment Certificate/ Gumashta.	
10	Notarized affidavit on stamp of Rs 50.00 that the firm has not been blacklisted in the past by any organization is mandatory to submit .	
11	Notarized affidavit on stamp of Rs 50.00 in respect of the tenderer having not supplied the same materials at a lower rates than the tender invited by any other organization at the rate of the material submitted in the tender.	
12	In respect of which any judicial process is pending against of firm, it will be mandatory to submit notarized affidavit on the stamp amount of Rs 50.00	
13	It is mandatory to submit a notarized affidavit on a stamp of Rs. 100.00 for accepting all the terms and condition of the tender.	
14	<b>For Articulated Human Skeleton (Real Bones) and Disarticulated Human Bones (Real bones)</b> the bidder must possess legal compliance from Govt. Agency/ Statutory body/ Court order with regards to legality of holding stock/ authenticity and has to furnish authorization to the bidder to submit the bid and quote in the tender, however sole authorization is not applicable for this item. Supplier has to submit certificate of registration from Govt. agency to supply the real bones/ skeletons. Certificate of registration and court order (Specifying originality and authenticity) must be provided with tender.	

  
**Dean**  
 Govt. Medical College  
 Korba (C.G.)



# Instrument Specification

## Dept.- ANATOMY

Sr. No	Equipment	Specifications												
1	Mortuary cooler for storing cadavers	<ol style="list-style-type: none"> <li>1. Corrosion free interior and exterior.</li> <li>2. Audio visual alarm for high and low temperature.</li> <li>3. PUF insulation on all sides.</li> <li>4. Special loading trolley.</li> <li>5. Digital temperature indication .</li> <li>6. Microprocessor based/ PLC temperature control.</li> <li>7. Outer body of the mortuary is constructed out of thick SS sheets. The inner chamber made of heavy gauge SS-304 grade.</li> <li>8. The doors connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening of door.</li> <li>9. The doors made of galvanized steel sheets, lined with SS.</li> <li>10. All doors fitted with high quality neoprene rubber gaskets with very sturdy casters.</li> <li>11. CFC free compressors. Twin compressors of which one is standby.</li> <li>12. Temperature range - 2 to 4 deg C with temp failure alarms.</li> <li>13. Suitable Voltage automatic stabilizer O/P 230 +/- 10% I/P 150 - 280Volts.</li> <li>14. The unit should be (3×2) ×2 or (2×2) ×3 format.</li> </ol>												
2	Storage tank (concrete) with copper lid (6"x4")	To hold 10 cadavers, made of concrete with copper lid.												
3	Plastic tanks for storing soft and dissected parts	Fiber Glass Tanks for Chemical Storage, anti-corrosive by nature, made out of Glass reinforced plastics with lid.												
4	Dissection Table	MS steel body to sustain weight with inbuilt stainless steel sink connected with waste water tube. Flat, size- 2100(L) x 700(W) x 900(H) mm												
5	Microscopes, Monocular	<ol style="list-style-type: none"> <li>1. <b>Optical System:</b> Semi Plan Finite Strain Free optics with Anti-fungus treatment, uniformly centered, interchangeable &amp; Par focal and with Multi-layer Coating &amp; Anti - Fungus treated for component durability microscope with Par focal and Centered Strain Free Optics</li> <li>2. <b>Body:</b> Aluminum die - cast body with <b>Hexagonal</b> base with all critical movements based on ball bearing &amp; wire guides thereby ensuring smooth &amp; precise manipulation</li> <li>3. <b>Mechanical Stage:</b> Co-axial low drive with wire movement mechanical stage (125mm x 145mm) (+/-5mm) with traverse area of 50mm x 76mm (+/- 5mm) Mechanical stage focus-lock prevents slide mishaps. Ocular Micro meter and stage micro meter need for measurement of specimen should be available in optional.</li> <li>4. <b>Focusing Systems:</b> Co - axial coarse &amp; fine controls with a focus adjustment and fine adjustment knobs. Coarse Focus range 20mm. Fine focus 0.25mm per rotation</li> <li>5. <b>Condenser:</b> Centerable abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack &amp; pinion and a continuously variable iris diaphragm with a removable frosted glass filter for daylight observation</li> <li>7. <b>Illumination:</b> Built - in Illumination base with pre - centered LED (with battery back - up) Light source High brightness, long life (30,000hrs) coupled with an efficient collector lens system. Universal power supply 100 V-240V 50/60Hz through SMPS circuit for constant voltage to prolong lamp life</li> <li>8. <b>Nose piece:</b> Quadruple revolving nosepiece based on precision ball-bearing mechanism with positive click stop.</li> <li>9. <b>Objectives:</b> Semi - Plan Achromatic objectives (Anti - fungus): Semi Plan Finite Strain Free (SPFSF) optics <table> <tr> <td>4X</td> <td>0.10</td> <td>18.5 mm</td> </tr> <tr> <td>10X</td> <td>0.25</td> <td>10.6 mm</td> </tr> <tr> <td>40X (spring loaded)</td> <td>0.65</td> <td>0.6 mm</td> </tr> <tr> <td>100X (oil, spring loaded)</td> <td>1.25</td> <td>0.13 mm</td> </tr> </table> Uniformly centered, Interchangeable &amp; Par focal Anti - fungus treated not favouring to fungus growth </li> </ol>	4X	0.10	18.5 mm	10X	0.25	10.6 mm	40X (spring loaded)	0.65	0.6 mm	100X (oil, spring loaded)	1.25	0.13 mm
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		<p><b>10. Observation tube:</b> Monocular 45° inclined, 360° rotatable, Observation Head with an anti-reflection optical coating of the prism (to enhance the image brightness)</p> <p><b>11. Eyepiece:</b> Eyepiece (wide field) for observation: WH 10x (FN 18mm) eyepiece.</p> <p><b>12. Power requirement</b> 220 V/50 Hz</p> <p><b>13. Other Documents:</b> Should be ISO, CE certified/FDA and Anti fungus Treated certificate</p> <p><b>14. Accessories:</b> Dust cover and power cord.</p>
6	Dissection microscope	Complete with paired dual step turret objective of visual field 2x (11.5 mm) / 4x (5.7 mm) for magnification of 20x or 40x with wide field eyepiece 10x (F.N.23) with large in-built Light Stand (Incident : 6V15W Lamp / Transmitted : 5W Fluorescence Lamp) complete set in thermocol packing; with turret mounted (2x & 4x ) in-built objectives with working distance 105mm with +/- 5 mm adjustable diopter, dust cover complete set..
7	Microtomes, rotary	<p>Body / construction as shown in picture. CI cast base plate cover aluminum, special metal gear, duly lapped slide and guide-ways, millimeter thread screw for perfect working, lever (Dog) made of steel and tempered for long life working.</p> <p>Feed range 1-25 microns in 1 micron steps. Razor angle adjustable up to 30 degrees, backward and forward adjustments. Standard Accessories .</p> <p>One 120mm razor with back handle, 3Nos. object holders, Razor stone, Wooden box, Dust cover, Instruction manual in English supply with machine. Packing : Wooden box.</p>
8	Microtomes, Sledge, large cutting	Sledge Microtome / Sliding Microtome for cutting large blocks of paraffin and resin embedded material for light microscopy. The knife holding clamps shall allow the knife to be offset to the direction of cut, a major advantage when sectioning large, hard blocks. The microtome, which is very heavy for stability and not usually subject to vibration, with a feed range of 0-20 microns.
9	Paraffin embedding bath	Double walled S.S. inner; Slide drying chamber at bottom, copper cups and tubes with lids and handle; Temp. Range: Ambient $\pm$ 5 to 65 degree Celsius.
10	Articulated Human Skeleton set (Real Bones)	<ol style="list-style-type: none"> <li>1. It should be real natural/ original human bone set</li> <li>2. All the bones must be intact</li> <li>3. Good quality original human bones from single source</li> <li>4. No single bone should be missing in each set.</li> <li>5. Both bones and their articulation should be robust and able to sustain frequent handling of the skeleton.</li> <li>6. The articulated adult bone set should be ideal for teaching the basics of human anatomy</li> <li>7. Good quality original human bone from single source should be articulated by fine and strong metal wiring as per the placement of bones in the human body.</li> <li>8. It should be real skeleton of a life size human skeleton and should show all skeleton part in high details.</li> <li>9. The arms, legs, and skull cap should be removable for study</li> <li>10. All the joints, sutures, fissure, foramina and processes should be portrayed with utmost accuracy.</li> <li>11. It should be in the standing posture supported with mechanism of suspension of a vertical stand with castor wheels for mobility</li> </ol>
11	Disarticulated Human Skeleton set (Real Bones)	<ol style="list-style-type: none"> <li>1. It should be real natural/ original human bone set</li> <li>2. All the bones must be intact</li> <li>3. Good quality original human bones from single source</li> <li>4. No single bone should be missing in each set.</li> <li>5. Bone should be need clean, and dried showing full impressions/ elevation / deepness/ grooves/ foramina and bony landmarks and packed in a wooden box.</li> <li>6. The disarticulated adult bone set should be ideal for teaching the basic human anatomy</li> </ol>
12	Six position plastic headrest	Made of stain resistance waterproof material, Standard size 20x14x15 cm
13	Dissection Set	Consisting of cartilage knife, bone cutting forceps, scissor straight and curved, Enterotome, Scalpels, Knives with spare blades, probe metal, scale graduated in cms. Small L shaped metallic scale, measuring tape, artery holder small, dura stripper, small hammer ss, etc.
14	X-Ray view box one in four	Viewing area (ATX in mm) 440x1450 on size 516(H)x 1500( W)x 38(D) Lumen 8200 Power rating (Watts) DC AC 72 84 Rs. Ew box with stand

15	X-Ray view box two in one	Viewing area having mm housing size (HXWXD) 516x750x38 mm Lumen 4100 Power rating (Watts) DC AC 36 42 wall mountable
16	Embalming Machine	Fluid delivery rate should be 10ltr/hr, Inner tank to store embalming fluid with capacity 15-20ltr. Should be stainless steel. Pump should be electromagnetic / diaphragm dosing pump with capacity 0-5 ltr per hr. and pressure.
17	Band saw	Body and meat cutting band saw, attach with a large movable SS work table, fitted with 1 HP motor, 50 Hz , 230 volt supplied with stand protection and spare blades
18	Meat Cutting Machine	Size of cutting table 785 x585 mm, Total table travel 1245 Extension table 455, height 1700mm the table is made of thick S.S sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord, and plug










## DEPT. OF PHYSIOLOGY

1	Microscopes, oil immersion	Microscope for Students LED binocular with scanner, inbuilt battery Light source: white X-LED with light intensity controller Power supply: Input 110/240 Vac, 50/60 Hz; Observation modes 1. Bright field. Focusing 1. Coaxial coarse and fine focusing mechanism with Movable condenser, Co axial Mechanical stage with four Objective and oil Immersion
2	Electrodes	Electrodes Copper wire placed in holder made of non conductive material (cork, Plastic ect) With screw Shielded electrode two wire parallel to each other in layer of non conductive material Polarizable or non Polarizable electrode
3	Stage incubator	Stage Incubator - Temperature range should be 3°C above room temperature to 50°C Temperature control accuracy as follows: $\pm 0.3^{\circ}\text{C}$ (Chamber temperature feedback) $\pm 0.2^{\circ}\text{C}$ (Specimen temperature feedback) Electric Heating Technology, Chamber temperature feedback and Specimen temperature feedback CO2 range should be 0 to 100%
4	Wintrobe's pipette for ESR and PCV with stand	Wintrobe Tube for ESR and PCV with stand: It is a heavy cylindrical tube of uniform bore with flat bottom Graduated on both side from above downward and from upward from lower end Metal stand which can hold 6 tubes With pastures pipette long capillary pipette above 110mm long fitted with rubber teat
5	Perimeter Priestly Smith S/LP.984 B & T	PRIESTLEY SMITH S/LP 984 B & T -PERIMETER PRIESTLEY SMITH MODEL An instrument for accurate charting of the field of vision., Consists of: A vertical stand on which a metallic arc is pivoted., It has a circular black disc to read the meridian in which there is an arc in shape of a semicircle with radius 330 mm., The apparatus comprises of a calibrated arc, revolving chart holder, It can rotate in any direction and fix at any position with a tightening screw. The arc is graduated from 0° to 90° with a movable test object., . At the back of the arc arrangement is provided for fixing of chart which has concentric circles corresponding to the degrees of arc
6	Hemoglobin-meter Sahli's or Hellige (with spaces)	Haemoglobinometer, Sahli The Haemoglobinometer Sahli's type, should be square tube type and the kit should consist of the following:- Comparator Holder – should be black in colour and the windows should have the following dimensions :- Height : 3 cms (Minimum) Width: 0.5. cms (Minimum)., Square Hb Tube graduated on both sides for measurement of haemoglobin in percentage and gram % 20 MicolitreHb – Pipette., Amber coloured acid vial ., Glass Stirrer ., Dropper with Teat ., Cleaning Brush
7	Hemocytometer	Haemocytometer (ROHEM New Improved Neubauer's Chamber with RBC and WBC Pippets) Thick glass slide with central depressed plat form separated on either side from remain platform by deep moats. Level of this platform exactly 0.1mm lower than the general surface of slide. Depressed platform is ruled in squares central depressed platform is divided in to two parts by a length wise moat and from surrounds slide by two breadth wise moats. 16 square large block is demarcated from its neighbor by an extra interrupted line Central large square divided in to 25 square.
8	Sphygmomanometer (digital) (Mercury based instruments to be replaced with suitable alternatives)	Sphygmomanometer Sphygmomanometer with digital manometer and armlet rubber bag or Riva Rocci cuff; Air pump; and Aneroid manometer.
9	Polygraphs	Polygraph Machine for Research Lab Digital Polygraph systems to examine Physiological parameters • 8 Channel data acquisition hardware & software with a recording range 2 mV to 10V. Utilise for study of Heart Sound, ECG/EEG/EMG/EOG, BP, Reaction Time, GSR, Respiratory Studies, Heart Rate Variability, should be supplied with all necessary transducers pulse , respiration, temperature , Phono cardiogram , force & volume for Amphibian Experiments. 32 Channel EEG acquisition, Nerve Conduction studies: Motor, Sensory, F wave N Reflex, Blinic Reflex etc.. Audiometry, Visual and somatosensory Evoked Potential. - Spirometry Forced Vital Capacity (FVC), Slow Vital Capacity (SVC), Maximum Volumetry Ventilation



Spirometer, ordinary	Spirometer Simple Consist of metallic vessel inverted on jacket of water A wide air passage going through center of jacket connected to tube with mouth piece , Other end is connected to mouth piece by corrugated impervious tubing Counter weight attached to chain running over pulley balancing weight of bell Capacity 6 Liters. Pointer or scale marked on wheel fixed over pulley.
11 Basal metabolism apparatus	BENEDICT ROTH RECORDING SPIROMETER [BMR APPRATUS]: For determination of basalmetabolism, by measurement of oxygen consumption. The 6 liter capacity float is fitted with chain compensated counter balance. A thermometer is fitted on the float movements of the float are recorded by means of a gravity writing ink pen,sampling cock is provided at the mouthpiece to connect the subject to thspirometer or the atmosphere.
12 Mosso's Ergograph	Mosse's Erogograph Mosso's ergograph with metronome and weights. Ergograph containing the advantageous features of both bubios and mossosergogrpah with weight set. Horizontal Electric Kymograph with recording unit having automatic ratchet, recording systems follows the Du - bois design and armrest, Finger holder and straps. Follows Mosse's design complete with 1 set of 5 kg weight.
13 Algometer	Algometer Broad blunt knob attached to spring which can be pressed With scale to measure pressure ISO certifide Item
14 Apparatus for passive movement	Apparatus for passive movement CPM is used to treat joints of the lower limb after an injury, disease or following surgery. sufficient range of motion. To prevent stiffening , the jouint have to be moved continuously which results in the following. Compact and elegant construction Electronic controls enable all adjustment of angle to be made on the front panel. Smooth and silent movement Digital timer with alarm
15 Olfactometer	Olfactometer olfactometer (OLFM), complete; 12"X12"X1", 4 - port/4choice arena olfactometer w/removable lid. Main body and all inlet and outlet ports made from solid UHMW - Poly ethylene (PE) with 3/8" thick clear plexighas removable lid. System includes an insect inlet adapter (Note: specify inset size at time of order) and all (4) glass, 2 piece olfactometer to be converted to a two choice system by blocking off half of the arena area. Olfactometer is supported by (4) - 6" removable legs.
16 Perimeter with charts (Lister's)	Perimeter with charts The arc should be graduated from 0° to 90° with a movable test object. At the back of the arc arrangement should be provided for fixing of chart which has concentric circles corresponding to the degrees of arc. Adjustable chin rest. The above mentioned should be fitted over a sturdy base with receptacle for keeping charts. Accessories: Different sized (2mm & 5mm), shaped (round & square) and coloured (five different) objects. Metallic graduated scale with a movable pin punch point to mark on perimeter
17 Color perception lantern Edridge green	Colour Perception Lantern Edridge Green Metallic instrument It stimulate various natural condition For different colour , Rain , Mist , Fog , Dust Two red, two green, a yellow, a blue and a purplecolour mounted on three disc
18 Multi channel Physiograph, 3 channels, complete with accessories (Digital TFT Screen)	Physiograph 3 Channels Complete With Accessories standalone recorder to monitor & record the data on three channel System should have built in stimulator. System should have facility to store the recording and review the recorded data on any computer. with Force Transducer, Isotonic Transducer & Volume transducer. • For human experiment, transducers/ electrodes to perform following tests i.e ECG, EEG, EMG, GSR, Pulse, Respiration, Hand dynamometer, Phonocardiogram & Temperature should be supplied.
19 Student Physiograph, (single channel) with accessories (Digital TFT Screen)	Physiograph Single Channel With Accessories standalone recorder to monitor & record the data System should have built in stimulator. System should have facility to store the recording and review the recorded data on any computer. A software should be provided free of cost along with the system to review and printing the recorded data from PC whenever required. supplied with Force Transducer, Isotonic Transducer & Volume transducer. For human experiment, transducers/ electrodes to perform following tests i.e ECG,EEG, EMG,GSR, Pulse, Respiration, etc.



centrifuge, high speed with technomete	CENTRIFUGE CLINICAL FOR 12 TUBESS Technical Specifications Tube Capacity :No.12 or more :Size 5 – 15 ml Should have a digital timer, Body should be made of strong fabricated & corrosion resistant steel, Control panel – for start/stop switch, dynamic brakes, step less speed regulator with zero start switch & speed indicator with timer and protective fuses. Door interlock, Maintenance-free brushless drive motor with exact speed preselection and display. Speed range 100 to 6000 rpm and above, accuracy 1 rpm. RPM : Up to 4000-6000 Power Supply Power input to be 220-240VAC, 50Hz
21 Digital Physiograph (4 Channel)	Physiograph 4 Channels Complete With Accessories ) standalone recorder to monitor & record the data System is haveing built in stimulator. System should have facility to store the recording and review the recorded data . A software should be provided free of cost along with the system to review and printing the recorded data from PC whenever required. supplied with Force Transducer, Isotonic Transducer & Volume transducer. For human experiment, transducers/ electrodes to perform following tests i.e ECG, EEG, EMG,GSR, Pulse, Respiration, etc.
22 ECG Machine	Three channel ECG Machine with Interpretation & thermal printer. Three channel ECG recording with unique trace darkness control Colour tft screen . short recharge time, multiple operating modes, direct print facility, capacity of internal storage should be upto 250 test Operational features FTP server upload, HL7, RT-view for PC connectivity Auto & manual mode with selectable rhythm.

## Department of Biochemistry

1	Analytical Balance : upto 200g/1 gm increment 2	<p>(Range : 0.01mg to 210 gm)</p> <ul style="list-style-type: none"> <li>High contrast, Large LCD display for easy viewing</li> <li>Standard RS 232 C interface</li> <li>Hanger for Below Balance weighing</li> <li>Fully automatic Internal calibration with built in weight</li> <li>Conforms GLP/GMP and ISO 9001 Standard</li> <li>Dye cast aluminum design for long term stability and accurate results</li> <li>Various weighing units like gm, mg, ct, oz, dwt, mon, GN</li> <li>User selectable stability and filter level</li> <li>Spacious draft shield interior</li> <li>CAPACITY- 210 g.</li> <li>READABILITY- 0.01 mg</li> <li>REPEATABILITY- 0.02 mg <math>\pm</math></li> <li>LINEARITY- 0.03 mg <math>\pm</math></li> <li>PAN SIZE (mm)- 80 <math>\emptyset</math></li> <li>RESPONSE TIME -80 <math>\emptyset</math></li> <li>OPERATING TEMPERATURE -0 to 45 C</li> <li>HOUSING DIMENSION -210 X290 X 310 mm</li> <li>POWER SUPPLY A/C ADAPTER, 230 V<math>\pm</math> 20% 50-60 Hz</li> <li>UNITS AVAILABLE g, mg, ct, lb, Oz, Ozt, tls, GN, dwt, tic, mom,K, tola, baht, MS.</li> </ul>
3	Digital Colorimeters	<p>Compact size, With 8 high quality glass filters, 1 ml sample required, 3 digit led display, battery attachment facility</p> <p><b>Features:</b></p> <ol style="list-style-type: none"> <li>1) Advanced optical system</li> <li>2) Stable test performance and reliable reading</li> <li>3) Equipped with RS232 interface, can be connected to PC and printer and so on</li> </ol> <p><b>Specifications:</b></p> <ol style="list-style-type: none"> <li>1) Wavelength range: 420 - 800nm</li> <li>2) Photometric accuracy: <math>\pm 2.0\%</math>(T)</li> <li>3) Photometric repeatability: <math>\pm 1\%</math>(T)</li> <li>4) Sample compartment: 15mm tube, 10mm square</li> <li>5) Filters: 420nm, 490nm, 510nm, 550nm, and 610nm (If necessary, other filters could be selected)</li> <li>6) Power: 85 - 260V, 300mA</li> </ol>
4	Student Microscopes	<ul style="list-style-type: none"> <li>Stand: All-metal stand, arm firmly connected with base, pinion knobs attached on both sides of the stand for coarse and fine focusing</li> <li>Tube: Monocular inclined 45°, head rotation 360°</li> <li>Eyepieces: Wide field eyepiece W F 10 x 18 mm with pointer and eyepiece lock</li> <li>Objectives: Revolving nose piece with 3 achromatic objectives 4 x / 0.10, 10 x / 0.25, 40 x / 0.65</li> <li>Enlargement: 40 x, 100 x, 400 x</li> <li>Object stage: 110 mm x 120 mm with 2 specimen clips</li> <li>Illumination: 20 W tungsten lamp integrated in base, power supply 230 V, 50/60 Hz</li> <li>Condenser: Bright-field condenser</li> <li>N.A. 0.65, iris diaphragm, filter holder and blue filter</li> <li>Dimensions: 175 mm x 135 mm x 370 mm</li> <li>Weight: 2.9 kg</li> <li>Supplied: Complete with dust cover</li> </ul>
5	Laboratory Reagent Refrigerators, Capacity >200 litres	<ul style="list-style-type: none"> <li>CU Feet: 17.0 cubic feet</li> <li>Temperature Range: 1°C to +10°C</li> <li>Accuracy: 0.1°C</li> <li>Operating Voltage: 110/230 Volts</li> <li>Capacity: 200 Litre</li> </ul>
6	Centrifuge clinical for $\geq 8$ tubes	<ul style="list-style-type: none"> <li>Brushless motor</li> <li>30 minute timer (on/off switch) Electric Brake</li> <li>High / Low speed switch</li> <li>12,000 rpm's on high speed (12,200 g)</li> <li>0-4,000 rpm's on low speed (2,325 g)</li> <li>12 place--15ml test tube capacity</li> <li>Tube sleeves hold tubes from 2ml to 15ml</li> <li>Locking lid</li> <li>On / Off Indicator light</li> <li>Metal body</li> <li>Suction cup feet</li> <li>Reader lid included--read tubes directly on the rotor</li> </ul>




7	Bottle dispensers										
8	Hemoglobin Variant HPLC System	<ul style="list-style-type: none"> <li>• Complete automated</li> <li>• Continuous loading</li> <li>• Should be able to identify all abnormal hemoglobin variants.</li> <li>• High throughput</li> <li>• Analysis software with computer &amp; printer</li> <li>• Complete with all essential accessories</li> </ul>									
9	Water Bath	<ul style="list-style-type: none"> <li>• Stainless steel body (Capacity- 37 ltr.)</li> <li>• 0 to 100 °C,</li> <li>• water recycler,</li> <li>• inbuilt thermometer/ indicator</li> <li>• Digital control &amp; display</li> <li>• High precision</li> </ul>									
10	Multichannel Pipette	<ol style="list-style-type: none"> <li>1) Individually calibrated and delivered with certificate of conformity</li> <li>2) Fully adjustable air dispensable</li> <li>3) Tip holders designed to fit all major tip brands</li> <li>4) Made of highly resistant material and durable</li> </ol> <ul style="list-style-type: none"> <li>• Volume specifications: 8 X 20-200 µl</li> </ul>									
11	High Precision Water Bath	<ol style="list-style-type: none"> <li>1. Should have a double walled construction.</li> <li>2. The inner chamber and top lid should be made of stainless steel.</li> <li>3. The space between the two walls should be packed with thick glass wool.</li> <li>4. Should provide with a thermostat control</li> <li>5. Working temperature should be from ambient+5 °C to 80°C having an accuracy of +/- 1°C</li> </ol>									
12	Electrophoresis with Power Pack	Voltage: 10-300 volt Current: 4-400 mA Power : 75-100 watt Timer : 1- 999 minutes. Output should be provided for 4 sets in parallel, LED display etc. The power pack should have: No load detection, sudden load change detection, overload and short circuit detection, over load protection. Constant voltage and constant current output The capability to pause and resume the electrophoresis run. Cell size: 9-10 x 25-27 x 5-6cm Sample Through put : 8 – 30 Base buffer volume : 270 ml Gel Tray Size: 7-8 x 10 cm									
13	Compact Laboratory Centrifuges	<ol style="list-style-type: none"> <li>1) Digital temperature indicator-cum controller</li> <li>2) Digital speed indicator, 0-99 minutes digital count down timer</li> <li>3) Stepless speed regulator with zero start switch</li> <li>4) Dynamic brake</li> <li>5) Imbalance detector with cut-off Safety lid interlock</li> <li>6) Key operated mains switch</li> </ol> <table border="1"> <tr> <td>Max. Speed</td><td>rpm</td><td>10000</td></tr> <tr> <td>Max. rcf</td><td>'B'</td><td>4530</td></tr> <tr> <td>WXDXH</td><td>mm</td><td>910X 1130X 1090</td></tr> </table>	Max. Speed	rpm	10000	Max. rcf	'B'	4530	WXDXH	mm	910X 1130X 1090
Max. Speed	rpm	10000									
Max. rcf	'B'	4530									
WXDXH	mm	910X 1130X 1090									
14	Colorimeter	<ol style="list-style-type: none"> <li>1. Should have 8 no of filters wave length from 400 nm to 700 nm.</li> <li>2. Should have a 3 digit display calibrated directly in optical density.</li> <li>3. Detector should be encased spill proof photocell.</li> <li>4. Should provide standard accessories a) turret-mounted filters b) 10 cuvettes, 2 test tube stand c) 3 standby lamp</li> <li>5. Should have facilities for concentration, calculation, percentage transmission and optical density.</li> <li>6. Should work on 200-240Vac 50Hz power supply</li> </ol>									
15	Precision Balance (Range : 0.01 Gm To 4100 Gm)	<ol style="list-style-type: none"> <li>1) High contrast, Large Backlit LCD display for easy viewing</li> <li>2) with A.E.P. (Advanced Eye Protection).</li> <li>3) Standard RS 232 C Interface.</li> <li>4) Hanger for Below Balance weighing.</li> <li>5) Automatic External calibration.</li> <li>6) Conforms GLP/GMP and ISO 9001 Standard.</li> <li>7) Dye cast aluminum design for long term stability and</li> </ol>									



		8) accurate results. 9) Various weighing units like gm, mg, ct, oz, dwt, mom, GN. 10) User selectable stability and filter level. 11) Improved Repeatability for better results 12) CAPACITY- 4110 g 13) READABILITY- 0.01 g 14) REPEATABILITY- 0.01g ± 15) LINEARITY- 0.02 g ± 16) PAN SIZE (mm)- 165 x165 17) RESPONSE TIME -2-3 sec 18) OPERATING TEMPERATURE -15 to 30° C 19) HOUSING DIMENSION -210 X 300 X 75mm 20) POWER SUPPLY A/C ADAPTER, 230 V± 20% 50-60 Hz 21) UNITS AVAILABLE g, mg, ct, lb, Oz, Ozt, tls, GN, dwt, tic, mom, K, tola, baht, MS.
16	Binocular Microscope	1) Free binocular Head, inclined at 30°, 360° Rotatable, WF10x/20 (Anti-Fungus) with diopter adjustment 2) Infinite plan achromatic objective 4x, 10x, 40x, 100x (spring, oil immersion) (Anti-Fungus) 3) mechanical stage LED illumination 3W, brightness adjustable, Blue Filter
17	Transblot Electrophoresis System	1) Mini Trans Blot Electrophoresis System 2) Two gel holder cassettes, at least four fiber pads, modular electrode assembly, 3) Ice cooling unit, buffer tank, lid with cables, instructions manual 4) Mini vertical protein electrophoresis system includes 10 Well and 15 Well, 1 and 5) 1.5 mm thickness, 2-Gel system should also work with one gel which include at least total of 5 combs of 1 and 1.5 mm thickness, at least 5 sets of glass plates, and glass plates with attached spacers of 1 and 1.5mm thickness, stand, 2 casting assemblies, sample loading guide, electrode assembly, tank, lid with power cables, buffer tank. 6) Mini horizontal electrophoresis system includes, Sub-Cell unit, 7x10cm UV transparent tray, gel caster, two 1.5mm fixed height combs 24 and 28 well comb 7) Powerpack should support an output of 5,000 V, 500 mA, and 400 W. 8) Powerpack should be suitable for all high-voltage applications such as IEF and DNA 9) sequencing.

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Govt. Medical College  
Korba (C.G.)

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# कार्यालय अधिष्ठाता

स्व. बिसाहू दास महंत स्मृति चिकित्सा महाविद्यालय कोरबा, जिला-कोरबा(छ.ग.)

क्र./जीएमसी कोरबा/निविदा/2022-23 /296

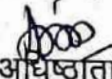
कोरबा, दिनांक-21.11.22

## निविदा सूचना

स्व. बिसाहू दास महंत स्मृति चिकित्सा महाविद्यालय कोरबा छ.ग. में एनाटॉमी, फिजियोलॉजी, एवं बॉयोकेमेस्ट्री विभाग हेतु एन.एम.सी. के मापदण्ड अनुसार उपकरण क्रय किये जाने हेतु निविदा -

निविदा कार्य का नाम	स्व. बिसाहू दास महंत स्मृति चिकित्सा महाविद्यालय कोरबा छ.ग. में एनाटॉमी, फिजियोलॉजी एवं बॉयोकेमेस्ट्री विभाग हेतु एन.एम.सी. के मापदण्ड अनुसार उपकरण क्रय किये जाने हेतु निर्माता/वितरणकर्ता फर्मों से से खुली निविदा आमंत्रित की जाती है।
निविदा प्रपत्र का मूल्य	रु. 3000.00 तीन हजार रु. मात्र का डिमांड ड्राफ्ट Dean Govt. Medical College, Korba के नाम से देय होगा, जो कि वापसी योग्य नहीं है।
धरोहर राशि	500000.00 रु.(पांच लाख रुपये) का डिमांड ड्राफ्ट Dean Govt. Medical College, Korba के नाम से देय होगा।
अनुमानित निविदा लागत	1 करोड़ 80 लाख रु.
निविदा फार्म जारी करने की तिथि	निविदा प्रपत्र स्व. बिसाहू दास महंत स्मृति चिकित्सा महाविद्यालय संबद्ध चिकित्सालय कोरबा छ.ग. के भण्डार शाखा से कार्यालयीन दिवस पर दिनांक 24.11.2022 से आवेदन पत्र के साथ प्राप्त किया जा सकता है।
निविदा फार्म प्राप्त करने की अंतिम तिथि	दिनांक 22.12.2022 सायं 05:00 बजे तक
निविदा फार्म जमा करने की अंतिम तिथि	दिनांक 23.12.2022 दोपहर 03:00 बजे तक पंजीकृत डाक/ स्पीड पोस्ट/ कोरियर के माध्यम से
निविदा खोलने की तिथि	दिनांक 23.12.2022 सायं 04:00 बजे, स्थान- कार्यालय स्व. बिसाहू दास महंत स्मृति चिकित्सा महाविद्यालय संबद्ध चिकित्सालय कोरबा छ.ग.

निविदा प्रपत्र वेबसाइट [sbdmscm.edu.in](http://sbdmscm.edu.in) से भी डाउनलोड किया जा सकता है। उपरोक्तानुसार इच्छुक निविदादाता से निविदा आमंत्रित किया जाता है।

  
अधिष्ठाता

स्व. बिसाहू दास महंत स्मृति  
चिकित्सा महाविद्यालय  
कोरबा(छ.ग.)