

Open Quotation Notice

For the supply of Equipments

Dean Shri Vasant Rao Naik Govt. Medical College & Hospital, Yavatmal invited separate open quotation for the supply of Instruments **listed below** in **two envelope** system from manufacturer & authorized dealers. Detail list & specification is enclosed. Interested Manufacturer/dealer can send their quotation.

ENVELOPE NO :- 1 TECHNICAL BID:- Following documents must be submit in this envelope

1. Shop registration Certificate
In case of proprietorship / Partnership firms, names of proprietors / partners/ Directors with address and percentage of share Ownership status of the firm
(Maharashtra Govt. / Central Govt./Jt. Sector /co - operative /SSI /Private)
2. Copy of the Pan card
3. GST Registration Certificate
4. Catalogue/Leaflet of the Model
5. Compliance chart in the prescribe format
6. Authorization certificate from the manufacturer
7. User list of certificates of satisfactory performance.
8. Acceptance of all terms of conditions with stamp of signature firm/company on letter head.
9. Name & Phone no. who should be contacted by this office in case of any urgent problem.
10. Email Address Office contact number of the firm.

ENVELOPE NO :- 2 PRICE BID

1. Quote your Minimum Rates in a following Format on the letterhead of the firm/company in Price Bid envelop the cost should be quoted in Indian currency only. Quote maximum two models on separate sheet.
 - (i) Basic Price:-.....
 - (ii) Taxes: Excise duty..... Custom duty..... GST..... other.....
 - (iii) Installation Charges:-.....
 - (iv) TOTAL=(i)+(ii)+(iii)+(iv):-.....
 - (v) CMC/AMC:-.....
 - (vi) Prices for consumables/ Disposable/ accessories should be submitted separately in price bid which will be valid for warranty period, AMC.CMC period.

Both the sealed envelope No. 1 and No.2 should be put together in one cover and it should be sealed. This sealed envelope should be marked on upper left hand corner mentioning name of the items No of the Item Quotation enquiry No. And Date of quotation opening. The full name and address of the Firm/Company should be written on the left hand lower corner. Such separate envelope containing sets of Envelope No.1 and No. 2 should be submitted separately for each Items mentioned in the List.

Envelope No.2 will be opened only when the documents as mentioned in envelope No.1 are in order as per requirements and if item is as per specifications.

Separate quotation should be prepared for every item mentioned in the list and sent in sealed envelope (duly sealed) by post or hand delivery so as to reach Inward Section of administrative office, Shri Vasant Rao Naik Govt. Medical College, Yavatmal on or before **Dt. 21 /09 /2019** up to 03.30 pm.

Date & timing of the opening of quotation (Technical Bid) :- **Dt.23/09/2019 at 03.30 pm.** at College Council Hall. Date & time of opening of the Price bid will be decide after scrutiny of the technical detail. Representative of the Supplier may attend the meeting by submitting authorization letter.

Please quote your minimum rates for Supply of articles as per details given below/list enclosed,. The separate envelopes (every Item) containing the quotation should be sealed and super-scribed as under:-

Quotation due on..... Against inquiry No **14481** for the purchase of Equipments.

LIST OF INSTRUMENT REQUIRED

Sr No	Name of Dept	Name of the Instrument/Equipment	Qtn Req.
1	DENTAL	Dental Chair C Unit Compressor with X ray with all accessories	1
2	SURGERY	Telescopy 10 mm 30 D HD	1
3	OPHTHALM	Ophthalmic Ultrasound A-scan	1
4	MEDICINE	TMT Machine with PC & Printer	1
5	ORTHOPEDIC	Electric Cautery Machine	2
6	BLOOD BANK	Centrifuge	2
7	ANATOMY	Manual Rotary Microtome	1
8	BLOOD BANK	Donor Couch	1
9	KITCHEN	Daugh kneader 50 kg	1
10	BIOCHEMISTRY	Point of Care Immunoassay Analyzer	1
11	DENTAL	RVG Machine with all accessories	1
12	ANATOMY	Dissection Tables (Half Size)	5
13	BIOCHEMISTRY	Single Door Refrigerator	2
14	BLOOD BANK	Automatic Tube Striper	1
15	BLOOD BANK	Automatic Tube Sealer	1
16	BIOCHEMISTRY	Medical Clinical Centrifuge Brushless	2
17	BIOCHEMISTRY	DI Water Plant 20 LHP	1
18	KITCHEN	Rice Kettle LPG Fired	1
19	BIOCHEMISTRY	Hot Air Oven Laboratory Type	1
20	BIOCHEMISTRY	Inclubator Laboratory Type	1

The terms and conditions for the supply are:-

1. Enquiry No. must invariably be given at the top of the envelope. Envelopes without indication will not be entertained.
2. For equipment/ accessories/ spares, technical bid and price bid must be sent in two separate, sealed envelopes and front of the envelop marked clearly in capitals as 'PRICE BID', 'TECHNICAL BID'. Otherwise the bid will be summarily REJECTED.
3. Offers other than those from the manufacturer should be supported by an authority letter from the manufacturer as per Annexure-A.
4. AMC/CMC/Extended Warranty if applicable must be quoted along with price bid and not with the Technical bid. However, in technical bid form consent for AMC/CMC must be given.CMC (Labor& Spare parts), these charges include the cost of replacement parts/Components/spares/accessories etc. This shall be borne by the firm. In case of consumables/these will also be included in CMC as per Technical Specification. However, AMC charge will cover labor only and does include the cost of any replacement parts/components etc.
5. **Unsealed quotations will be rejected.**

6. Full description, make and quantity of the articles must be mentioned in your quotation. Original catalogue/literature should be submitted with the quotation (Technical bid envelop)
7. Validity of the quotation should be for a minimum period of 120 days.
8. Delivery period for each item be specifically mentioned in the quotations from the date of Supply order it should be maximum of 6 weeks.
9. The Dean reserves the right to call the firm for physical demonstration of item to verify the quality of the offered item from the lowest bidder. The firm must demonstrate the product within 7 days of requisition, failing which the bid will be rejected.
10. The institute reserves the right to reject the supplied goods if the same are not found in accordance with the specifications approved and asked for. In case there is a short/defective supply the firm will be informed and the defective material will be lifted from the concerned department/Central store by the supplier at their own cost within two weeks period. The institute will not bear any expenses on this account.
11. **The rates and total cost must be quoted in both words and figures (over-writing not allowed.)**
12. Rate should be for free delivery at Shri V.N. Govt. Medical College, Yavatmal premises only. Rate should be quoted including all charges. Rates must be quote on letter head alongwith Pan, VAT, CST/GST Number. It should be submit in Price envelope. (envelope No 2)
13. The suppliers will have to adhere to the delivery schedule. Delayed supplies beyond 30 days from the date of supply order as the case may be will be subject to demurrage @0.5% per weeks or part thereof of the contract price subject to maximum of 10% of contract price, if the Price is below 2 lakh, else it will be @ 0.5% up to as maximum of 5%.
14. Warranty/Guarantee should be quoted as per the Technical specifications. (2 Years)
15. The successful bidder will submit P.B.G in the shape of FDR/TDR only in favor of **Dean, Shri Vasantrao Naik Government Medical College, Yavatmal @ 3%** of the total value of the order which will be valid for 30 months in case the warranty is for 24 months and 66 months in case the warranty is for five years. The same shall be further extended for 5 more year till the time AMC/CMC inforce.
16. The Manufacturer/Distributor/Agent should furnish along with the Price Bid a certificate that the rates quoted by the firm are the same as are being charged from other Government or Non-Government Departments/Institutions for similar items.
17. **Compliance Chart :-** (If quoting for more than one model then separate formats should be enclosed for different models in the same envelope.) Make & Model No of the quoted Item should be mentioned on the top Part of the compliance Chart.

Equipment Name -

Make & Model:

Sr No	Tender /Quotation specifications as asked in the tender form	Equivalent specifications quoted by the tendered with the name of the manufacturer	Whether the tender/ Quotation quoted by the supplier is as per specifications asked for Indicate against each item clearly YES/NO	If the tender quoted is not as per specifications then variations/deviations should be clearly indicated against each item asked for.
1	2	3	4	5

18. The firm should submit undertaking on letter head stating that firm & its personnel do not have any direct or indirect interests with purchasing institute.
19. The Envelop No. 2 (Commercial Bid) will be opened of only those tenderers who have submitted all the documents as per tender terms and conditions in the envelop no. 01 and are technically qualified. The demonstration of tenderer who had quoted lowest price will be taken. If two tenderers had quoted same cost of equipment, then the demonstration of both the tenderer will be taken.
20. **Complaint/s :-** Any complaint / representation regarding tender/quotation will be entertained only after depositing of **Rs. 10,000/-** in form of **Demand Draft** in the name of Dean Shri V N Govt Medical College Yavatmal. Subsequently necessary action will be taken by the Dean and decision of Dean will be binding upon the complainant. If the complaint turns out to be false or invalid the amount will be forfeited. The Amount shall be refunded if after scrutiny the complaint is found to be true. No further complaint/ representation from the same complainant for the same tender/quotation will be entertained.

Note:- The Technical Specification, quoted price & availability of service Centre near Yavatmal will be considered while approving the prices.

21. I) The Instrument/Equipment Shall be of ISI/ISO mark or equivalent.
II) It shall necessary to provide OEM (original Equipment Manufacturer)
III) Supplier to provide user of maintenance AMC/CMC additional services.



DEAN

Shri Vasantnao Naik Government Medical
College & Hospital, Yavatmal

IMPORTANT NOTE:- Every instrument & Equipment Quotation submit separate envelop other wise quotation rejected.

ITEM NO.01
TECHNICAL SPECIFICATIONS FOR DENTAL CHAIR C UNIT , COMPRESSOR
AND X-RAY ARM WITH ALL STANDERD ACCESSORIES

- pneumatic controlled automatic arm rest anticrushing system
- 3x29 white and orange sensor controlled LED light with 3 axis movement
- joystick based foot control with 7 programs
- S500 chair is equipped with synchronised movement of seat and back when “return to zero” position is activated , the arm chair goes automatically down, meaning freedom of movement to the patient and to the dentistry professional
- bi articlable , removable, automatic with anterior, posterior, longitudinal and height movements. Easy to use. Provides comfort for patients, with direct visualization of the quadrants of the mouth. Allows treatment of handicapped patients, dental paediatrics and others.
- With safety system that interrupts chair base movement when finding any obstacle
- S500 features an embedded command foot lever, based on joystick model; thinking of the professionals usability, the chairs movement , commands are simply and intuitively operated
- locking system of functions and movements of chair , which allows total safety when performing procedures
- system to activate the air and water function of handpiece

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delivery unit with pneumatic arm
delivery unit for ambidextrous dental use
flexible, removable and autoclavable handpiece support, protecting them from impact
PAD control with a LED negoscope
pneumatic lock activation
allows upto 5 working terminous (ST + TERMINALS)
SUPPORT TRAY
available in pneumatic flex and upper hoses model

Technical Specification for x-ray Machine

Dental X-ray Machine

it should be

our organization is foremost provider of dental x ray machine to our clients. It is Indian xray machine. Offered range is provided at state of art technological centre by using high grade material and components. It is widely used by dentist and is applicable in number of areas. We are able to offer this dental X ray machine is different specifications and ensure that our.

Technical Specification for Compressor Machine

it should be

1500W Dental Air Compressors with AIR dryer is essential equipment for the users. The ambient air contains humidity and impurities which must be fully treated in order to guarantee clean, dry and pure air to the patients and to avoid the risk of corrosion and oxidation of the expensive dental instruments which are connected

ITEM NO.02

Specifications for Laparoscopy Telescope 10 mm 30 Degree HD

1. It should be Autoclavable
2. Viewing angle 30 Degree
3. Diameter 10 mm
4. Full HD
5. Length 340 mm
6. Custom Made Sapphire Objectives
7. Guarantee Lasting Autoclavability
8. Scratch Resistance
9. Large Field of View
10. State of Art Rod Lens Systems for Superior Image Quality
11. High Tech' Tubing Material More Durable and scratch Resistant and Rust Proof.
12. Optimized Fibre Optics Providing More Light.

ITEM NO.03

Specification of OPHTHALMIC ULTRASOUND SCANNER A-SCAN

Technical specification A scan

A scan probe

Probe frequency : 10 MHz

Fixation : Internal LED

Measurement Range

Axial length : 14mm-40 mm

ACD : 2mm- 6mm

Lens thickness : 2mm – 7.5mm

Measurement accuracy : +/- 1mm

Measurement Techniques

Method : Imersion/ Contact

Mode : Auto/Manual

Lens Type: Aphakia, Normal, Cataract, Dense Cataract, Pseudophakia, Silicone

IOL Calculation formulae: SRK-T, SRKII, Holiaday, Binkhorst, Hoffeq, Haigis, AME , and

Post refractive formulae

Display: High resolution 8 inch color display with a touch screen

Power

Electrical requirement: 230 W AC current/ 50 Hz

Other features :

- Auto/ Manual Gain
- Automatic calculation of standard deviation and average axial length (series of 10 measurements)
- Simultaneous display of 3 different IOL calculations
- RTC shows the date and time throughout the life of instrument
- Various users programmable printers format
- Measurement possible for various velocity of each segment
- AME formula- The new generation programme software takes care of any axial length

ITEM NO.04

Specification of TMT Machine with PC & Printer

ECG

Acquisition :-	Simultaneous 12 leads, 14 bits
Sampling rate :-	2700 samples/sec
Input Impedance :-	>100M ohms
Time Constant :-	3.2 Sec
CMRR :-	>100dB
Patient Leakage :-	<10#A
Frequency Response :-	0.05Hz to 100Hz
Digital Filters :-	50Hz, muscle tremor 20, 35 or none
Base line correction :-	DSP technique to remove ECG wandering
Sweep Speed :-	5, 12.5, 25, 50, & 100mm / sec
Sensitivity :-	0.25, 0.5, 1.0, 2.0, & 4.0cm/mv

ECG Computations

Calculated Parameters :-	ST-Level, ST-Slope, HR, METS, Axis etc.
Fiducial Points :-	Auto / Manual
Enlarged median lead :-	Configurable
Median update Interval :-	10 seconds
HR Computation “-	6 beats, updated every second

Protocol

Standard :-	Bruce, Modified Bruce, Balke, Ellested, Naughton
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Custom :- Unlimited customized protocols can be created

Display

Display Resolution :- 1024 × 768 pixels

ECG Display Format :- 4 leads+enlarge median, 6×2 leads + medians, 12 leads + medians + Enlarge median, 3×4+R lead, Static linked median + R, 12 leads (3.2/10sec.)

Data Display :- HR, Target HR, BP, Stage Time, Test Time, Speed Grade METS, Protocol Name, Protocol Stage, STL, STS & Patient Information etc.

Full Disclosure Beat-to-beat ECG record

Event Marker Yes

Reports

Online 12L+ Medians; Linked Medians; 3×4+R; 12 Linked Medians + enlarge median; Summary

Auto report Online Report; 6L Frontal; 6L Precordial; 12L Rhythm; Average; 12L + Comparison; Trends; ST Tables; ccomparison

Offline All of the above;- Linked Medians Summary; Total Discllosure

Printing

Printer Laser or Deskjet

Paper Size A4 size

Connectivity

Export/communication:- TCP/IP;DICOM' PDF

Protocol/format

Network Interface File storage, Distribution & E-Mail

Treadmill

Speed 0.1 to 9.3 mph

Elevation 0 to 22%

Belt Drive motor power 3HP

Conveyer Belt Anti skid

Safety Optical isolation, Emergency stop

Communication RS 232

User capacity 250kg

Walking area :- 1,321 × 805 mm

Dimension “- 1900×710×1200mm (L×W×H)

Weight 120kg

Power requirements :- 200 to 240 VAC, 50Hz & single phase, 10 Amperes

Operating conditions”-

Operation Temperature 10° C to 50° C

Storage Temperature 0° C to 40° C

Relative Humidity 15 to 90% non condensing

Safety & Standards

Standards

IEC 60601-1: 1988, IEC 60601-1-2:2001, EN ISO 13485:2003, ISO 14971:2000, EN 980:2003, IEC 60601-1-:2000

Directives MDD – 93/42/EEC

EMC – 89/336/EEC

Cart dimension 1070(H) × 780(W) × 435(D) mm

Minimum Computer OS: Windows XP Pro/Windows7 Professional 32bit Processor: Core2Duo or higher, RAM: 2GB or higher, 40 GB hard disk or higher, CD/DVD Optical Drive, Screen Resolution 1024×768 or higher

Configuration

ITEM NO.05

Specifications for Electric Cautery Machine

Estimate For Monoseal Vessel Sealing System With Cautery

99 Programs Memory

Display Graphical LCD Display

Dimension (WxHxD) 360 mm x 145mm x 305mm

Weight 4.5 kg

Input Supply Voltage 230 VAC + 15% @ 50/60 Hz (110 V optional)

Monopolar Modes

Mode	Maxx Power Watt	Maxx Power Watt
Pure cut	400 W	480 KHZ
Bland 1	250 W	480 KHZ
Blend 2	200 W	480 KHZ
Endocut	99 W	480 KHZ

COAG

Mode	Maxx. Power Watt	Maxx Power Watt
Spray	120 W	480 KHZ
Fulgurate	150 W	480 KHZ
Essicate	150 W	480 KHZ

Bipolar Modes

Mode	Maxx.Power Watt	Maxx. Power Watt
Bi-Coag	120 W	480 KHZ

Sealer Mode

Mode	Maxx.Power Watt	Maxx.Power Watt
Seal	150	480 KHZ

ITEM NO.06

Specification of Centrifuge

1. It should have Max. Speed (rpm) – 4000
2. It should have Max. Capability (ml)- 05 ml
3. It should have adjustable Digital Timer
4. It should have swing out head with plastic/graduated glass tubes.
5. It should have maximum No. Of slots
6. It Should have maintenance free Brush Less Induction Motor and Variable Frequency Drive
7. It should have LCD display.
8. It should have solenoid safety lock.

ITEM NO.07

Specification of Manual Rotary Microtome

Manual Rotary Microtome.

Advanced microtome Modular system with exceptional precision Best suited for research and routine work in biological, medical or histology lab; guaranteed Over extension protection and sliding – clutch anti – locking system in the coarse advance. ; Highest precision of sections. The equipment is supplied complete with Cassette holder; knife holder base; standard knife holder Object orientation unit; section waste tray; microtome knife 15cm

Technical data

Ranges of thickness 0.5 μ m to 99 μ m

Increments of minimum 0.5 μ m -1 μ m step from 1 μ m to 99 μ m adjustable

Horizontal specimen advance 28mm

Vertical stroke 60mm

Specimen size Up to 30mm X 30mm

Specimen orientation X and Y Axis 8°, Z Axis 360°

Specimen advance automatic In 2 speeds

Advance for trimming 1 – 99 μ m adjustable

Electrical data 230Volts, 50cycles single phase AC

ITEM NO.08

Specification of Donor Couch

- 1) Donor couch should be light weight
- 2) can be kept in folded condition to save te area
- 3) should have additional stand for blood pressure unit.
- 4) carry bag should be provided for transportation of unit
- 5) should be microcontroller based
- 6) should be work on hemodynamic principle based
- 7) should have dual geared optimised motor
- 8) should have wheels with locking

ITEM NO.09

Specifications Of Automatic Dough Kneader

The System Should be open system easy to use with following Specification

1. It is suitable for mixing of wheat atta dough of approx. 50-55 kg per batch.
2. It is able to mix water and flour with other ingredients also. The mixing is uniform.
3. For mixing with pressure, the flat arms are used. The stroke creates softness in the dough. No lumps formation. It has been provided with Driving motor, gear box, drive system, internal essential electrical and FR switch and etc.
4. No need to stop the machine for removal of ready dough from the pot. safety measures are counted.
5. Motor Power :- 2HP,230V
6. Capacity :- 50-55 kg /batch
7. Material :- SS304

ITEM NO.10

TECHNICAL SPECIFICATION FOR POINT OF CARE IMMUNOASSAY ANALYSER

Analyser :

Should work on Principle of Immunofluorescence Technology
Internal and External Battery
276 x 220 x 91 mm
1.3 kg
100 – 240 V AC, 50-60Hz

QC / Calibration

System Check Cartridge
Internal & External Controls

Throughput

Upto 30 tests per hour

Interface

7" Touch Screen
Built in Thermal Paper
USB Port / Ethernet / SD Card Slot
LIS / HIS Compatible

Memory

1000 patient results
1000 QC results
500 ID Chips
100 User IDs

Terms and Conditions

- Two years Warranty. During warranty period all consumables and maintenance kit should be provided by the company free of cost.
- After warranty comprehensive maintenance contract should be done for next six years.
- Price list of required Cartridge, reagents and consumables should be mentioned at the time of purchase and the price should be fixed for next Five years.
- The Cartridge / reagents for at least 100 Tests each of T3, T4, TSH and HbA1C should be provided should be accompanied with the instrument.

ITEM NO.11

Technical Specification for RVG Machine with all accessories

It should be

Product Description

Digital Radiography System

The system lets you capture and analyse high quality digital radiographs quickly and easily. Like all dental imaging system, it is designed to give you superior results and it backed up by expert support team

Specification

True image Resolution	
Active area	22.2 X 29.6 MM
Sensor	Super CMOS with Fiberb optics
Connection	USB-2High Speed
Outer Dimension	27.6 mm x 37.7 mm
Grey Scale	4096 Grey scale
Size	1

The PRODUCT WILL BE INSTALLED, SERVICED AND SUPPORTED BY CARESTREAM EXPERT SUPPORT TEAM. THE PRODUCT WILL HAVE COMPANY WARRANTY

ITEM NO.12

Specification of Dissection table (Half Size)

Dissection table – SS Half

size: 3".1"X2"X3"

Is entirely made of S.S. (steel grade 1.4301), with a frame made of rugged torsion resistant S.S. profiles and 4 S.S. swivel locking castors (125mm dia.). the table top has a depth of approx. 15mm sloping towards the drain. Large radii on all inside corners provided for easy cleaning. A 10 L container with bayonet lock, mounted beneath the down spout, is applied to a rack in the base frame. An air tight compartment mounted beneath the table top serves for an odour free storage of drapes. It features a stainless steel full extension drawer and a removable S.S. tray provided with perforated plate and a removable lid. The table should be provided with arm extension unit on both sides which is detachable for dissection of arm and forearm.

ITEM NO.13

SPECIFICATIONS FOR SINGLE DOOR REFRIGERATOR

1. Refrigerator should be Single door with capacity of 400 liters
2. Frost free
3. Climate class must be T Class, can work upto temp 45⁰ C.
4. External dimension should be (WDH in mm) 600*680*1985.
5. Internal dimension should be (WDH in mm) 518*475*1495
6. Outer and Inner cabinet material should be of Metal type. No. shelves 5
7. Door frame material should be of Plastic type with external handle& door lock
8. Cooling fan motor Watt 18w, Condenser fan motor Watt 25w & Condenser type should be wire on tube
9. Condenser coil type of material should be of steel& material for Evaporator coil Aluminium
10. Material for Internal discharge& suction tube- COPPER with discharge & suction tube diameter 0.236 (inch)
11. Power cord length should be of 2.5 meter.
12. Compressor capacity should be with 215 watts
13. Refrigerator type R134a with facility of Thermostat.
14. Noise level (dBA) upto 43, Provision for Inner cabinet lamp -1 with power of 12w
15. Input power watt 270 W and current 1.6Amps.
16. Energy consumption 2.6 Kwh/24Hr with electricity safety approval
17. WARRANTY L ONE year

ITEM NO.14

Specification of Automatic tube stripper

1. Should be able to perform swift and complete Stripping of the blood bag tubes
2. Should allow automatically centered tubing fed through pair of rollers by guidance system
3. Should ensure easy handling with both hands
4. Should be Electrically operated
5. Should have long chord of at least 3 meters
6. Should have warranty of three years
7. Should be repairable easily
8. Should not weight more than 1.5 kg

ITEM NO.15

Specifications Of Automatic Tube Sealer

1. it should have hermetic snap-apart seal for easy separation of the tube segments after sealing of blood bag
2. should have advanced radio frequency sealing technology
3. It should be handheld
4. It should be light weight
5. It should have battery power sealing
6. It should have continuous sealing ,with no warm time required in between seals.
7. It should have 3 level safety features
8. Should Be portable
9. Should include, warranty of three years

ITEM NO.16

SPECIFICATIONS FOR MEDICAL CLINICAL CENTRIFUGE, BRUSHLESS (48 tube)

1. Centrifuge with provision of 48 holes of 5ml and 7ml vacutainers
- 2.
3. Table top, Low noise, Very stable, No vibration
4. Heavy duty C,R,C construction finished with powder coating
5. Fitted with Brushless motor
6. Heavy duty lid with hydraulic hinges and lid lock.
7. Swing out type Rotor Head
8. Centrifuge should be with stainless steel bowl of 304 quality
9. Facility for adopters of stainless tube for using 12x100ml tube of borosil
10. Required speed approx.3000 rpm for serum separation
11. Provision of LCD Display of r.p.m, set time and run time.
12. Two lines of 20 character LCD display of RPM, Set Time and Run time
13. WARRANTY : 5 years on motor and 1 year on rest of items including electronic mother board

ITEM NO.17

Specifications for DI Water Plant 20 Litres

TECHNICAL SPECIFICATIONS

- Nominal permeate Flow Rate : 20 L/ hr
- Delivery Flow Rate at 15 degree C : 20 L/ hr
- Inorganic resistivity/ conductivity @ 25 degree C : < 1 ms/cm
- Silica : < 0.5 mg/L

ADDITIONAL SPECIFICATIONS

- Space saving Compact System
- Prefilter for trouble free operating of system with Tap water
- Easy access to cartridges

FEED WATER CONTAMINANT

- Source : Tap Water
- Conductivity : < 300 μ S / cm
- Hardness < 150 ppm as CaCO₃
- Free Chlorine < 0.5 ppm
- Chloramines < 0.2 ppm
- Silica : < 30 ppm
- Fouling Index < 10
- Iron / Manganese < 0.2 ppm
- Temperature L 4 to 40 degree C
- Flow Rate (Requirement @ 15 degree C) L 3 / min

FEED WATER PRESSURE

- Maximum : 45 psi (3 bar)
- Minimum : 15 psi (1bar)

ELCTRICAL REQUIREMENT

- Mains Input : 230 Volts, AC, 50 Hz
- System Control Voltage : L 24 V dc

ITEM NO.18

Specifications Of Rice Kettle (Rice Boiler 30 kg Capacity)

The System Should be open system easy to use with following Specification

1. LPG Gas Fired.
2. Thick bottom cylindrical type vessel of SS304 food grade.
3. Kettle mounted on heavy and sturdy structure of SS304 for total GMP Models
4. Dynamically balanced.
5. Manual Tilting Mechanism.
6. Low pressure LPG burner. Best desing of Energy distribution & Saving.
7. Capacity :- 150 ltr, Suitable for Cooking 25 to 30 kg of rice in a batch.

ITEM NO.19

HOT AIR OVEN LABORATORY TYPE

TECHNICAL SPECIFICATIONS

Temperature Range :	5°C above ambient to 250°C
Temp. Accuracy :	±1°C
Supply :	240V, 50 Hz
Heating Control :	Auto tuned temperature microcontroller. Digital display of temperature
Safety Thermostat :	Stand by Thermostat cuts off heater if temperature over-shoots
Heating Element :	Spiral type heating coils made of Kanthal / Nichrome wire.

CONSTRUCTION

Interior :	Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish.
Exterior :	Made of thick gauge mild steel sheet, finished with epoxy powder coating.
Insulation :	Fibre glass wool.
Internal diameter	60x60x60 cm

ITEM NO.20

INCUBATOR LABORATORY TYPE

TECHNICAL SPECIFICATIONS

Temperature Range :	5°C above ambient to 60°C
Temp. Accuracy :	± 0.5°C
Temp. Uniformity :	± 1°C
Heating Control :	Auto tuned temperature microcontroller Digital display of temperature
Safety Thermostat :	Stand by Thermostat cuts off heater if temperature over-shoots
Heating Element :	Spiral type heating coils made of Kanthal wire.
Air Flow :	VS131 - Natural convection VS132 - Motorised blower unit of 1/12 HP. fit at bottom side. VS133 - Motorised blower unit of 1/12 HP. fit at top side.
Glass Door :	Full view glass door is provided.

CONSTRUCTION

Interior :	Made of mild steel with heat resistant aluminum paint or Stainless steel with mirror polish.
Exterior :	Made of thick gauge mild steel sheet, finished with epoxy powder coating.
Insulation :	Fibre glass wool.
Internal diameter	60x60x60 cm