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## Corrigendum-II

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for Supply, Installation & Commissioning of Dental Equipment on Turn-key basis for Government Dental College & Hospital, Rahui in Nalanda of Bihar was floated vide Notice Inviting Tender No.- BMSICL/2022-23/ME-280. During and after Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts, who after due deliberation recommended certain amendments in the technical specification of the equipment, which are annexed as Annexure-I of this corrigendum. In order to facilitate maximum participation of bidders the tender schedule is being revised as follows:-

Tender Reference No.	BMSICL/2022-23/ME-280
Date and time for downloading of bid document	Up to 08 <sup>th</sup> June 2022 till 17:00 Hrs.
Last date and time of submission of online bids	09 <sup>th</sup> June 2022 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document	10 <sup>th</sup> June 2022 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	10 <sup>th</sup> June 2022 (at 15:00 Hrs.) on the website of www.eproc.bihar.gov.in in the office of BMSICL
Date and time of opening of financial Bids	To be announced later on www.eproc.bihar.gov.in

## Note:-

- 1. Bidders are advised to refer to the Annexure-I of this corrigendum before submission of bid.
- 2. Those who have submitted their bids are requested to re-submit their bids in accordance with this corrigendum.

Annexed:- As above

Sd/-GM (Procurement) BMSICL

## Annexure-I

Tender No- BMSICL/2022-23/ME-280				
	Amendment in specifi	ications an	d quantity of equipment	
Name of Equipment	Specifications	Qty (In tender)	SPECIFICATIONS (After Amendment)	Qty (After amendment)
	T OF PROSTHODONTICS AND OWN AND BRIDEGE			
Sl. No.	(Dental chair and unit) Item			
	T OF PROSTHODONTICS AND DWN AND BRIDEGE			
Dental chair and unit	Dental chair mount unit	34		34
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	
	Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.		It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	
	One three way syringe and one light cure unit with light guide with shield. With variable modes of intensity. Should have intensity of 1200 mwcm2		It should have auto zero, gargle, P1 and P2(erasable programme) positions.	

	Dentist element or trolley should have five point with Two airotor points, one micromotor with digital display of speed, one piezotronic scaler with 5 scaling tips. With torque wrench to remove tip. One three way syringe. And modular should be of hanging cords, and should be supplied with iopa x ray viewer, on stainless steel tray. and control should have the pressure guage, water volume regulator, air regulator. micromotor controller foot control should be supplied to operate up and down and backrest to and frow movement. Switch for operating microtor and scaler and airtor.	Chair should have up and down, backward and forward movement hand and foot control operated.  Seat, backrest rest-synchronized movement and head rest Pneumatic/manual movement	
l c	Should supply with one airotor handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)	a. Chair should have Minimum & maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	
s s t	ceramic replacable bowl /glass should be easy to remove and rotate should be supplied with all the floor box and its fittings so that we can connect the chari to all the central connections.	Base should solid metal with heavy casting. It should have LED based X-ray viewer.	
		It should be provided with rotatable right arm rest (90 degree).  It should be provided with one doctor's stool with back rest and one assistant's	
		stool without back rest with foot ring for foot rest. The base should be of stable metal moving on five wheels with pneumatic movement with level	
		Suitable Oil Free Air Compressor (Medical grade). Tank and dryer. Also built in Thermo cut for excess of heat, Auto head release valve, automatic cut off, safety release valve, & drain valve gauge.	
		Electrical point, water inlet and outlet facility will be provided by hospitals but All consumables required for installation and standardization of system to be given free of cost.  (a) It Should have Dental instrument	
		cabinet with acid and fire resistant table top fitted with minimum 6 and above drawer/ Shelves  All the outlet and inlet for the services to	
		chair should be concealed in a box at foot area or within the unit for infection control purpose.  The unit shall be capable of operating	
		continuously in normal room temperature.	

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			Complete installation of the system	
			including water input and drainage	
			system, air compressor, required electrical connection has to be installed.	
	+		Power supply	
			11.	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
			may be 180-270V and frequency	
			variation max. 3 %. The necessary protective shall be there with the	
			machines.	
			Standards, safety and training:	
	_		· · · · · · · · · · · · · · · · · · ·	
			i. Model Should be US FDA / CE (Issue by Notified body) / BIS approved.	
			ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and	
			accessories with their part number and	
			costing available in stock with the	
			supplier.	
			iv. Certificate of calibration and	
	_		inspection from factory.	
			v. Log book with instruction for daily, weekly, Monthly and quarterly	
			maintenance checklist.	
			vi. The job description of the hospital	
			technician and company service	
			engineer should be clearly spelt out.	
			vii. List of Equipment available for	
			providing calibration and routine	
			preventive Maintenance support as per	
			manufacturer documentation in service/	
			technical Manual.	
Extra oral and		4	INTRA ORAL EXTRA ORAL	4
intra oral tracer			TRACERS, INTRA ORAL EXTRA	
			ORAL TRACERS, It is used to verify	
			centric relation and to take protrusive records	
	Dividal Com. C. 1	2	1	
Dewaxing unit	• Digital furnace for pre-heating and dewaxing.	2	No change	2
	Heating upto 999 degree C		No change	
	<u> </u>			
	• Double body furnace insulated with ceramic wool.		No change	
	Faster heating and cooling cycle		No change	
	allows continuous usage.			
	Chamber and door fitted with high		No change	
	quality moulded ceramic.		 	
	• Size: Width 130 mm, Height		No change	
	100mm, Depth 250mm.			
			1	1

Semi adjustable articulator	With face bow,semi adjustable /acron type,fixed intercondylar aerage distance of 110 mm,condylar guide set at average 30 degree, bennet angle set at 15 degree.curved condylar guide, innovative central lock.	4	No change	4
Curing unit		2		2
			UV polymerizing equipment for resin and photosensitive materials.	
			It's made in stainless steel and it includes:	
			• 1 sliding drawer that can contain 3 models.	
			• 4 bulbs 9 W each one.	
			• 1 timer 120-180 sec.	
			• 1 switch for endless time.	
Dental Induction casting Machine		1	Automatic tabletop dental casting unit with high frequency induction melting and centrifugal casting.	1
			designed for casting of dental Co-Cr, Ni-Cr	
			and precious alloys tabletop design both	
			manual and automatic mode of melting	
			automatic maintenance of optimum power	
			automatic casting mode autonomic cooling	
			system Accessories: crucible tray ring	
			gripper crucible	
			silicon ring №2	
			silicon ring №3	
			silicon ring №4	
			graphite insert	
			Certification-US FDA/EU CE(Issued by notified body)/BIS approved	
Wax burn out furnace		1	No change	1

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	Electronic control with	No change	
	microprocessor, the furnace		
	manages 7 programmes with 4		
	phases per programme. The		
	following can be set for each phase:		
	temperature, raising speed and		
	holding time. An ignition delay upto 100 hours can also be set. The		
	furnace comes in 3 versions: small		
	S, medium M and large L. The		
	furnace ZEUS comes with a		
	monobloc ceramic muffle with an		
	external wrapped around resistance.		
	This enables the temperature to be		
	homogeneous in all its 4 sides:		
	upper, lower and laterals. The fumes		
	follow a natural circulation and		
	come out from a rear chimney. To		
	improve the exit of the fumes a		
	chimney, which is supplied as an		
	accessory, can be installed. Such		
	installation is extremely simple and		
	can be done by the operator.		
	The oven features a safety micro-	No change	
	switch, which stops the resistance in	,	
	case the chamber is opened. The		
	oven is airtight with environmental		
	materials in compliance with the		
	requirements. Another useful		
	accessory is the dewaxing plate		
	which we also advise to buy, in fact		
	it prevents the liquid wax from being		
	absorbed by the muffle, keeping it		
	free from abrasions and		
	deteriorations which can damage it.		
	TECHNICAL FEATURES:-	No change	
	Feeding : 220-240V	No change	
	Overall dimensions : 32x40x50 cm	Overall dimensions : 32x40x50 cm +_10%	
	Chamber dimensions : 16x16x10	Chamber dimensions : 16x16x10 cm	
	cm	+_10%	
	Max. Temperature : 1100°C	No change	
	Weight : 28 Kg	Delete	
Pre Heating furnace		No change	1
		The oven can storing not less than 4	
		pre-heating cycles (or programs) which are kept in the memory until the operator	
		decides to modify them.	
I	1		

			Each program contains 4 phases and for each phase it is possible to set 3 variables: temperature, increase rate, holding time. It is also possible to set an Ignition delay and the fumes aspiration fan Off temperature (fume chimney). Furthermore it is possible to set a fi nal temperature holding time at the end of the cycle: this is to keep the cylinders at a certain temperature and allow some time for the operator to be ready with the next work.  Certification-US FDA/EU CE(Issued by notified body)/BIS approved	
Surveying Unit			It should ensure precision and high quality laboratory work. surveyor unit to be supplied with a table and a set of standard surveying tools. Handpiece support Made of aluminum.	1
Heavy duty Hand piece Lab	heavy duty micromotor with 2000 to 50,000 RPM.High performance brushles micromotor,portable with variable speed control and operational by both foot and hand.automatic overload protection,contra angle hand piece autoclavable 20,000 to 40,000 RPM and straight hand piece autoclable 40,000 RPM	4	No change	4
Autoclave	Hot and wet – class -B	2	No change	2
	Should have container for distilled water, and exaust condensed waste water		No change	
	The chamber should be of minimum 20 to 23 ltrs		No change	
	Technical Info:		No change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm +_10%	
	Power Supply - 220V/AC/50Hz		No change	
	Sterilization temperature/Pressure: 121/1.0~1.3Bar / 134/2.1~2.3Ba		No change	
	Fuse tube - T15A		No change	
	The storage tank volume - 3.5L		The storage tank volume - not less than 3.0L	
	Ambient pressure - +5°~ +40°		No change	
	should have stainless steel containor		No change	
	to store the distal water and should			
	be supplied with a distal water plan.		No change	
	Instrument tray - 3 Pcs		No change	
	Instrument rack -1PC		No change	
	Operation manual 1DC		I No ahanga	
	Operation manual -1PC		No change	
	Handle tongs - 1PC		No change	
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	Sealing ring - 1PC		No change	
	Power cable - PC		No change	
Needle Burner with Syringe cutter	Needle destroyer should have needle burner and motorised syringe cutter with debri collector	2	No change	2
	Main Input Supply (V, Hz, A) : 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.		No change	
	Body Material : stainless steel or ms powder coated		No change	
	Power consumption of continuous rating, W in use: 100 W.		No change	
	Type of Electrodes used : Copper Electrode – Nicket plated.		No change	
	Destruction Rate, Seconds / Needle : 25 Second / Needle.		No change	
	Thickness & Length of Needle: Recommended: MAX . 1.6 mm Dia, 80 mm Length.		No change	
	Burning Temperature, deg. C: 1600 C.		No change	
	Grade of Steel & Guaranteed Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.		No change	
	Tray capacity No. of Syringes & Needles: 100 pcs.		No change	
	Safety features provided : Glass Cartilage Fuse.		No change	
	motorised syringe cutter: with wheel		No change	
CADCAM	A turn key project includes , IOS,Milling machine , model scanner , sintering machine,compressors , suction , 3 D printing,trainning and commissioning. (OPTIONAL)	1	A Complete System for Computer Aided Design / Computer Aided manufacturing of im lays ,on lays, crowns, bridges for Dental Restoration through fine milling process of ready Ceramic block. It should include supply ,installation ,training & commissioning of the complete system consisit of atleast the following components -  MILLING MACHINE:	1
			Functioning of milling should be fully automatic and should be with standardized precision.	
			Dry Milling machine should be suitable for all type of material which can be milled Dry.	
			The machine should have X, Y, Z, spindle rotation A & B Axis.	
			Should mill zirconium oxides, wax, PMMA, COMPOSITE etc, quickly, precisely and cleanly.	
			The milling machine should be able to mill all types of indications: inlays, onlays, crowns, bridges, framework, full mouth restorations etc.	
			Efficient and compact milling machine for quick and precise framework milling	

Should mill perfectly with minimum
error.
Should Mill up to 14 unit bridges and
the burs should be changed automatically.
Tool holding fixture for automatic tool
change based on automatic tool length
measurement and broken tool detection.
Open interface for an open scanner
1
The milling machine should be STL
open for import of other files scanning data.
High quality and high frequency spindle
with 25000 or more speed.
Noise level should not be more than
75dbA
Suction & dust collector should be
provided.
Tenderer or company should have
supplied the similar quoted model
machine to state/ central government or
private hospitals or dental laboratory.
The milling machine should have the
CAM software for automatic size
detection of the restorations for
positioning, height optimization in the
disc for calculation.
Scanner, Milling unit, Dust extractor,
software and frame work materials
should be from the same Manufacturer.
Minimum 15 or more automatic tool
changer fitted with tool measurement
sensor.  Should be provide with branded suitbale
desktop/ laptop.
LAB SCANNER
Fully automatic scanner with 5 axis
scanning with high quality 3D image.
Should scan upto 14 unit bridges quickly
and easily Scanning accuracy should be less than
Scanning accuracy should be less than 12micron
The scanner must have two high speed
measuring cameras minimum 5mp.
Should have large measuring field and
also facility to scan models in
intermaxillary relationship
Should have intelligent scan strategy for
even quicker scan times
 The scanner should be able to scan the
whole model jaw in less than 140
seconds using the large scanning field.
Should have multiple die holder for
scanning up to 7 or more
The scan field should be identified and
assessed automatically, which means
that large spanned bridges frameworks
can be quickly and efficiently documented.
documented.

	The scanner should have ample space for placing articulators.
	Should have facility to transfer
	articulated models
	Bite registration, situation models,
	gingiva and wax-up scan should be
	possible for optimal framework
	fabrication
	Should have Automatic user-guidance
	through the scan program for easy and safe operation
	Scanner should be with an open
	interface, scans (stl-files) can also be
	downloaded into other CAD software
	The software should have modern
	controls that incorporates the most up to
	date technologies, supports multi core
	CPUs and takes advantage of 64 bit operating system.
	Should be a compact and table top unit.
	Should be provide with branded suitable
	desktop/ laptop for scanning and
	designing purpose.
	CAD SOFTWARE:
	An intelligent designing Software for the
	framework fabrication to be provided
	free of cost
	Software should have features of precise
	recognition of the prepared margin,
	automatic bridge and connector design, different tooth libraries, individual tooth
	part movements, compilation and the
	open system structure
	Large indication spectrum should be
	available viz. i.Fully anatomical and
	anatomically reduced crowns and
	bridges, Inlays/onlays, Reducing,
	Virtual articulator.
	The software must have a dental
<u> </u>	database.
	Should have a virtual articulator with the
	same functionalities of adjustment of horizontal inclination of condylar
	guidance; Bennett's angle; retrusion;
	protrusion; immediate side shift etc. to
	calculate the fully anatomical
	construction dynamically and statically
	This also should function to simulate the
	mandibular excursions and automatically
	construct a fully anatomical framework
	proposal, according to the dynamic
	occlusion, to reduce grindings the surfaces after milling
	Spurious structures in the designing
	should be automatically removed and
	adapted during the movement of the
	virtual articulator

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			Synchronized accessories to be provided	
			for transferring the models from the	
			articulator into the Scanner to guarantee	
			the precision at the functional interface	
			between manual and digital technology	
			Model acquisition: it offers additional	
			flexibility by allowing data to be	
			imported from any 3D scanner by using	
			an import module.	
			Model export : After completing the	
			modelling prosthesis, there should be	
			facility to export the models in STL	
			open format for further processing with	
			CAM software for milling and	
			prototyping. The software should be	
			integrated with third party solutions	
			Intra oral scan data should be imported	
			•	
			directly into the design software record	
			card and loaded for designing, also with	
			virtual articulator functionality.	
			The software should be user friendly.	
		$\overline{}$	The software should comprise optionally	
			of different sets of tooth libraries	
			The software also should comprise of a	
			free interface module to upload STL	
			data from other open scanners very	
			easily.	
			The software should be capable of	
			designing full contour bridges so that	
			framework and matching veneering	
			structure, can be designed in a single	
			step	
			SINTERING FURNACE	
			The sintering furnace should have high	
			process reliability due to constant	
			temperature control, homogeneous	
			temperature distribution in the firing	
			chamber for final sintering of distortion-	
			free zirconia frameworks.	
			The capacity of the furnace should BE	
			with Minimum 1 bowl	
			The sintering furnace should have	
			Maximum process reliability due to	
			optimally coordinated, fully-automated	
			sintering programs for different	
			restoration sizes	
			The sintering furnace should have option	
			for 9 sintering program locations; 6 of	
			them individually programmable by the	
			user	
			The sintering furnace should have	
			minimum required space and installation	
			time (supply required)	
			The furnace should perform sintering at	
			the press of a button – very easy	
			operation	
			The heating rate should be 1C-30C/min.	
			Automatic start time calculation by	
	<u> </u>		hours and weekdays.	

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			he sintering furnace should have clear	
			splay of the sinter status	
			he sintering furnace should have	
			ompatable electrical connections: V/Hz	
			20- 240/50-60, Power: 1720 - 3500 W,	
			use (fast): 12.5 A, Temp Degree	
			rotection – IP20	
			ll necessary accessories should be	
			ovided.	
			eating elements made of molybdenum	
			silicide (MoSi2) offer a maximum	
			rnace temperature of 1650°C	
		G	LAZING FURNACE :	
		N	Aicroprocessor based programmable	
		Va	acuum furnace for dental ceramics	
	_	(E	Elevator model) should have	
			00 operating programs for all types of	
			eramics	
		Vac	cuum range from 60 to 100 mbar	
		A	utomatic parameter control	
		0	perating voltage220V / 50 Hz	
			ower consumption with vacuum pump	
			1700 W, Without vacuum pump: 1500	
		W		
		V	acuum pump data :	
			uction capacity upto 22 L/min	
			acuum from 0.9-0.94 bar	
			Veight with vacuum pump : 35 kg	
		ł — — <del> </del> —	NTRA ORAL 3D SCANNER	
		1.	1	
			recise, accurate HD 3D real color	
			canning. The image should be with	
			vid color and details that offer visually opealing images that improve and	
			mplify case review, analysis and	
			ommunication between doctors,	
			ferrals and labs.	
		2.		
			liquid for scanning high reflecting	
			irfaces.	
			The scanner should not weigh more	
			an 400 Grams.	
			The scanner should be handheld 3D	
			anner with Ultrafast Optical	
			ectioning. It should maintain full scan	
		sp	eed during full arch scan.	
			The scanner should be capable of	
			easuring shades of teeth and adding	
		H	D photos to the 3D model.	
			The model should have integration	
		W	ith practice management system.	
		7	The software should have instant scan	
			reparation validation tools.	
		Pi	-paramon randation tools.	

	<del>_</del>
	8. Unit should be able to capture
	patient's accurate and detailed intra-oral
	data in digital form critical for dental
	diagnosis, treatment planning, record
	keeping and model/appliance
	fabrication.
	9. It should be able to measure the shade
	of the tooth accurately.
	· · · · · · · · · · · · · · · · · · ·
	10. It should have accuracy up to 8
	microns.
	11 It should provide accurate data in
	11. It should provide accurate data in
	open STL format for accurate model
	preparation using three dimensional
	printing or CAM.
	12. Scan the operative and opposing
	quadrant or arch and take a bite scan
	with patient in any occlusion.
<u> </u>	12 11 11 11 11 11 11 11 11 11 11 11 11 1
	13. Unit should have anti-fogging
	heater that works actively without any
	interruption to scanning when working
	intra-orally.
	14. It should have possibility of high-
	speed dual-arch scan in less than 5
	minutes.
	15. Scanner should have autoclavable
	non bulky tips to allow its use multiple
	times. One tip should be able to be used
	up to 200 times before disposing.
	16. The user should have possibility to
	check or rotate the final scan model on
	display screen infinite times for
	heightened visibility of data captured
	before finalizing.
	ů.
	17. User should be able to jump to any
	position in the mouth at any point.
	18. The scanning process to fill in
	uncaptured image, without a need to
	indicate an exact location to the system.
	Should be freely movable and user
	friendly.
	19. Scanner should be capable of
	scanning implant cases with standard
	abutments as well as custom abutments
	with scanned bodies. Also should be
	compatible with open system implant
	planning and surgical guide software.
	20. User should be able to identify
	margin lines, contact points, and
	undercuts before proceeding for sending
	files to CAD system.
	21. The STL file can be accessed by
	lab for design and fabrication or can
	choose to design and mill chairside,
	restore implants or create orthodontic
	appliances through one of the broad
	array of trusted Connections. Or, export
	the STL files and share them with any
	_
	open CAD/CAM system.

<u>,                                      </u>
22. Unit should have facility to store patient data in hard disc/ computer and CD/DVD and also wirelessly upload patient data to cloud / any mail account to be accessed later on from any computer in the centre.
23. Complete operating manual and product literature to be supplied at the time of delivery of the equipment.
24. Availability of spares for— All time during warranty and AMC.
25. Manufacturer and Supplier should furnish a certificate stating that the equipment is original not a reconditioned one.
26. Training – On site during installation by an OEM trained instructor.
USFDA/EU CE(Issued by notified body)BIS approved model 3D Printer
1) Equipment should be able to perform following functions. Fabricate Dentures, Long Term temporary Crown and Bridges, Surgical Guides, Prosthetic Models, Orthodontic models, Denture Trials, Castable copings/bridges/RPDs, Ortho Indirect Bonding Trays, Splints, Night Guards, Customized Trays,
Flexible Gingiva for Implant.  2) Equipment should have following features -
a) Resolution should be more than 1900 X 1000 pixels.
b) Wavelength of light in projector system should be more than 400 nm.
c) Pixel pitch should be lower than 75 microns.  3) The system should have compatible
software to slice 3D files and to communicate with the 3D printer.
4) The software should be updated by the supplier from time to time for next 10 years.
5) The Software should be based on following features -
a) Windows Operating System 10 or compatible. b) STL File input.
c) System is based on the CAM
Features.  d) Software should come with compatible and customized material build style for different resins.
e) Software should have multiple safety features like verification of the file before printing.

f) Software should have the ability to automatically generate supports for the models.  6) 3D Printer should be able to fabricate the model with  a) Fine detail and smooth surface finishing with layer thickness of 50 microns.  b) Should be able to work with variety of 10 or more resins with variable rigidity, detail and color.  c) Should be able to paint and finish for presentation, demonstration and photo reproduction.  d) Functional parts produced within 60 minutes depending upon size and complexity of job.  7) System should have built styles with below details -  a) Normal build style in range of 0.03-0.05mm.  b) Quick Build style 0.05mm.  c) Precision build style 0.05mm.  7) There should be a system for automated mixing of resin before pouring to have optimum consistency for precise printing. Mixing unit should be able to mix 2 or more bottles at a time.  9) Tank capacity should be in range of 0.4 to 0.75 liters.
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measurements less than 130X 75X 200
mm.
11) Complete system should be able to
function precisely with different
materials without deviation and should
not require calibration.
12) It should have alcohol ultrasonic
bath in work flow for cleaning of printed
parts.
13) Printer should have easy to change
resin tank and print platform.
14) The system should have safety
features such as automatic abort if print
chamber is opened during printing to
protect from harmful UV exposure.
15) System should work and fabricate
models accurately, repeatedly with
unmatched productivity with range of 10
or more resins.
16) There must be a dedicated system
for uniform UV curing for the post-
processing of printed parts. UV Curing
System should have 10 or more UV
bulbs (more than 12 Watts) for complete
curing of models (6-8 nos). The system
should have both UV-A and UV-B bulbs
for proper surface and deep curing of the
parts.

	Г		17) Matarials which mad to be used in	1
			17) Materials which need to be used in the mouth must be certified	
			biocompatible.	
	1		18) 3D Printer should have non-contact	
			membrane based printing requiring no	
			peel process.	
			19) 3D printer, software, resin mixing	
			system and post UV curing system in the	
			complete work flow should be from same OEM.	
<u> </u>			20) 20lt of biocompatible USFDA	
			approved Resin and 20lt non-	
ı			biocompatible USFDA approved Resin	
			should be provided.	<u> </u>
			Compressor & UPS	
			Suitable medical grade compressor with	
			radiator, cooling fan, dryer and silicone	
	<del> </del>		column filter should be supply.  Suitabe UPS with mimimum 30 minutes	
			back up for all machines including	
			Sintering Machine.	
			Consumables	
			5 set of DC tools	
			50 Zirconia blanks.	
			Certification	
			USFDA/EU CE(Issued by notified	1
			body)BIS approved model	
LAB			No Change	
Plaster dispenser	One each for plaster and stone plaster	22	No Change	22
	High Frequency Dispenser.		No Change	
	• High quality rubber bucket for storing Plaster.		No Change	
	Dispenses plaster in total powder form.		No Change	
	Bottom lever starts and stops flow of plaster instantly.		No Change	
Model trimmer with Carborandum disc		2	No Change	2
	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.		No Change	
	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Model trimmer with Diamond disc	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	2	No Change	2
	Precision water flow control valve.		No Change	

	• Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Acrylier	Digital type programming	3	No Change	3
	Digital control unit with 2 timers and temperature controls		No Change	
	• Programmable pre-heating Time & Temperature, curing time and temperature.		No Change	
	• Capacity – 8 flasks or as per requirement.		No Change	
Lathe	Heavy duty, continuous rating motor.	2	No Change	2
	Well balanced bearing for smooth work.		No Change	
	•to be Supplied with different attachments.		No Change	
	• 1,400/2,800 rpm		No Change	
Flask Press		4	Simple manual press for pressing large and manual flasks, sturdy metal body	4
Deflasking unit		4	robust high performance chisel operated by compresed air for deflasking and universal use in the laboratory with high frequency chisel for deflask dentures	4
Dewaxing unit	• Digital furnace for pre-heating and dewaxing.	3	No Change	3
	Heating upto 999 degree C		No Change	
	Double body furnace insulated with ceramic wool.		No Change	
	Faster heating and cooling cycle allows continuous usage.		No Change	
	Chamber and door fitted with high quality moulded ceramic.		No Change	
	• Size: Width 130 mm, Height 100mm, Depth 250mm.		No Change	
Hydraulic press	Hydraulic Press,	3	No Change	3
	Hydraulic press for pressing flasks.		No Change	
	• should Allows up to 3 flasks at a time.		No Change	
	High quality, continuous working results.		No Change	
	• 150,000 Kilos.		No Change	
Mechanical Press	A simple manual press.	2	No Change	2
	• For pressing large and small flasks.		No Change	
	Sturdy metal body.		No Change	

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Vacuum mixing machine	Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,	1	No Change	1
Curing pressur Pot	Robust stainless steel structure which makes the equipment extremely dependable	1	No Change	1
	• Satisfies all technical requirements requested for resins treatment		No Change	
	Durable and easy maintenance		No Change	
	• 4 discharge cycles (air/water) can be set and can be combined with 2 cooling cycles		No Change	
	• (slow/fast)		No Change	
	Characteristics		No Change	
	• Front panel display shows polymerizer temperature and time		No Change	
	• Up to 10 memorisable programs		No Change	
	• Setting of working time from 1 minute to 99 hours		No Change	
	• 100% stainless steel support structure		No Change	
	Safety microswitch which detects opening of lid		No Change	
	Internal machine safety valve		No Change	
	Equipped with filter with air pressure regulator		No Change	
	Self-locking lid closure		No Change	
	• Polimer are able to contain 2 self- standing medim size flask		No Change	
	Maximum working pressure 6 bar		No Change	
	Precise and flexible electronic controlo allow an optimal treatment of resins		No Change	
Hot water sterilier		2	instrument steriliser, electric stainless steel, chamber size not less than 10 inch	2
Geyser		2	25 L Storage Water Geyser, electrical, energy efficient, with over heat protection,	2
Phantom head	Phantom Table fitted with Phantom Head with light and Air rotor and micro motor, with contra angle Handpiece attachment, 3-way syringe with suction or drainage system, operator's stool	50	No Change	50
	PRE-CLINICAL UNIT		No Change	
	Phantom Head Table with Two working place.		No Change	

	T		N. Ohmor	Ι
	Top complete Stainless Steel, inbuilt drawer to		No Change	
	keep the materials		No Change	
	Halogen Operating Light, with Multi surface Glass		LED Operating Light, with on and off and intensity control	
	Reflector having two Intensity.		No Change	
	Modular fitted with		No Change	
	· Airotor Control Box fitted with Transparent		No Change	
	Water Tank, Tubing with Nut Fittings for Airotor		No Change	
	with Tubing and Foot Control		No Change	
	Supreme Micromotor with 35,000 rpm 1 No ,		No Change	
	Three Way Syringe 1 No		No Change	
	• Phantom head with mankin body & pneumatic piston for tilting movement, phantom head with ball and socket, neck joint for all the movement of neck, TMJ movement, even provision to fix TMJ in open position. Heavy Duty—Phantom head with the excellent quality face mask, total closed oral cavity, drain nipple for drain of water.		No Change	
			working stool for the opertor moving on five wheels with pneumatic piston for height adjustment, seat and backrest thickly cushioned covered with rexine	
Pre clinical working table with gas connection & burner		100	it should be for two working students with single burner, each table for 10 students(5 burners), SS Top one set of drawers for each student, gas connection, air blower LED iluminatin light on the top of the table for sufficient light to each student. Qty-10	10
			working stool: moving on five wheels pneumatic piston for up and down movemnt thickly cushioned seat and back rest	
	CERAMIC AND CAST PARTIAL LABORATORY		No Change	
Plaster Dispenser	One each for plaster and stone plaster	2	No Change	2
	High Frequency Dispenser.		No Change	
	• High quality rubber bucket for storing Plaster.		No Change	
	• Dispenses plaster in total powder form.		No Change	
	• Bottom lever starts and stops flow of plaster instantly.		No Change	

Duplicator		1	it should be programmable brushless	1
			agitatot motor which should offer durability and reliability. It should have temperature control for gauranteed precision warmup and cool down cases., melting cycles to be set separately. The time at which the gel is required can be easily pre programmed for optimum processing - electrical 220V/50HZ.02 nos of duplicating flasks,not less than 500ml	
Pindex System	pindex system or Laser pinsetter has been designed for the most efficient and ergonomic approach to pin drilling, for easy die pin placement.	1	No Change	1
	• Combines "State of the art" laser light technology with an easy to use design.		No Change	
	• The carbide bur provides effective and smooth drilling.		No Change	
	• 15,000 rpm.		No Change	
Circular Saw	• This high speed circular saw is supplied with a diamond disc for precision slitting through models that can be held firmly on the electro magnetic model holder.	1	No Change	1
	Provided with a funnel for aspiration and provision for attaching suction unit.		No Change	
	• High intensity illuminations for clear view of the working model.		No Change	
	• Dual control switch for safety while working.		No Change	
	• Diamond blade; 080mm and thickness 0.26 mm.		No Change	
Burn Out furnace	Electronic control with microprocessor, the furnace manages 7 programmes with 4 phases per programme. The following can be set for each phase: temperature, raising speed and holding time. An ignition delay upto 100 hours can also be set. The furnace comes in 3 versions: small S, medium M and large L. The furnace ZEUS comes with a monobloc ceramic muffle with an external wrapped around resistance. This enables the temperature to be homogeneous in all its 4 sides: upper, lower and laterals. The fumes follow a natural circulation and come out from a rear chimney. To improve the exit of the fumes a chimney, which is supplied as an accessory, can be installed. Such installation is extremely simple and can be done by the operator.	1	No Change	1

T				
	The oven features a safety micro-		No Change	
	switch, which stops the resistance in			
	case the chamber is opened. The oven is airtight with environmental			
	materials in compliance with the			
	requirements. Another useful			
	accessory is the dewaxing plate			
	which we also advise to buy, in fact			
ı	it prevents the liquid wax from being			
	absorbed by the muffle, keeping it			
	free from abrasions and			
	deteriorations which can damage it.			
	TECHNICAL FEATURES:-		No Change	
	Feeding : 220-240V		No Change	
	Overall dimensions : 32x40x50		Overall dimensions : 32x40x50 cm	
	cm		+_10%	
	Chamber dimensions : 16x16x10		Chamber dimensions : 16x16x10 cm	
	cm		+_10%	
	Max. Temperature : 1100°C		No Change	
	Weight : 28 Kg		Weight : 28 Kg +_10%	
Sand blasting	With two containers		No Change	
Machine				
	• The double jar sand blaster offers	1	No Change	1
	excellent results which until was			
	achieved only by very expensive devices .			
	• USED for roughing and polishing		No Change	
	of metals, ceramic and acrylic		140 Change	
	materials.			
	Technical Characteristics;		No Change	
	Excellent ergonomics		No Change	
	Alluminium oxides from 50		No Change	
	microns to 250 microns can be used			
	• Inner air gun		No Change	
	Highly durable, long lasting		No Change	
	blasting tips of 2 sizes provides			
	precision sand blasting.			
	Chamber selection by directional mechanical valve		No Change	
	Glass protection with		No Change	
	interchangeable plastic film			
	Electric Components according to		No Change	
	international regulations		110 Change	
	Pneumatic foot control		No Change	
Electro Polisher	Electro polisher	1	No Change	1
	• 2 tanks for chemical provision for		No Change	
	power variation with a rotary switch		6.	
	Special titanium electrode for long		No Change	
	life total body construction non			
	corrosion material			

Model trimmer with Carbodium	Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	carborandum Grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Model trimmer with Carborandum disc	Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	•Grinding wheel. Diamond disc		No Change	
	Adjustable work table for accurate trimming.		No Change	
Induction casting machine	Machine for centrifugal casting with inductive high frequency metal melting.	1	No Change	1
	• Design for Casting Co-Cr-Mo, Ni- Cr-Mo and precious alloys used in dentistry.		No Change	
	An autonomous water cooling.		No Change	
	Technical data:		No Change	
	• Power Supply : 220V/ 50Hz		No Change	
	• Maximum power consumption : 3kW		No Change	
	• Minimum alloy quantity in the crucible : 7g		No Change	
	Maximum alloy quantity in the crucible: 80g		No Change	
	Crucible material : Ceramics		No Change	
	• Crucible material When casting precious alloys: Ceramics with graphic insertion		No Change	
	Maximum time for full melting		No Change	
	of 30g alloy : 60s		No Change	
	Cooling : Water autonomous		No Change	
	HF Power rating adjustment when		No Change	
	Melting Ni-Cr-Co alloys or precious alloys : Manual		No Change	
	Motor acceleration adjustment : Manual		No Change	
	• Casting : Manual.		No Change	
	• Dimensions L/B/H : 620/660/1060 mm		Remove	
	• Weight : 120 Kg		Remove	

Programmable Progr					
Accuracy 0.01 to 1.0 Sec  LED base five different welding temperature settings.  Both welding and soldering operation in one unit.  All switches on front panel for easy operation.  Perfectly matching electrodes in 4 different shapes  Vacuum mixing machine  Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic time of proven reliability. Voltage 220 Volt.  Steam Cleaner  **Steam Geaner with safety valve and high volume water holding tank with water level indicator.  **3 - 4 bar constant pressure.  **Convenient foot control.  **1-1 And year with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump and and electronic time of groven electronic time of groven and the provided with suction, foot control.  **This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  **Provided with suction, foot control and high intensity illumination.  **Safety glass for glare elimination  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change  **Provided with suction, foot control and high intensity illumination.  **No Change	with vacuum pump and instrument &material kit	ceramic,designed for all types of dental ceramics,completely processor controlled,14 programs, in every program name,idle temp,dry temp,pre drying temp,dry timing, firing timing,first cooling, second cooling,vacuum controlled, with self diagnosticand auto caliberation.an option for automatic continuation of program after power break don.an option for program transferon USB.an option of remote analysis of damage.		No Change  No Change	
temperature settings.  Both welding and soldering operation in one unit.  All switches on front panel for easy operation.  Perfectly matching electrodes in 4 different shapes  Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,  Steam Cleaner  **Steam generator built in compliance with international safety regulations.  **A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  **3 - 4 bar constant pressure.  **Ocnemient foot control.  **A - 3 - 4 bar constant pressure.  **Ocnemient foot control.  **Handy gun with flexible hose.  Spindle grinder  24,000 RPM and Vacuum pump  **This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  **Provided with suction, foot control and high intensity illumination.  **Safety glass for glare elimination  **Safety glass for glare elimination  No Change  **No Change	soldering attachmelent and	Accuracy 0.01 to 1.0 Sec			
All switches on front panel for easy operation.  Perfectly matching electrodes in 4 different shapes  Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,  Steam Cleaner  Steam generator built in compliance with international safety regulations.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  A bot Change  This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  Equipped with fully automatic spindle.  Provided with suction, foot control and high intensity illumination.  Safety glass for glare elimination  No Change		~		No Change	
Operation.   Perfectly matching electrodes in 4 different shapes   No Change   Change   Perfectly matching electrodes in 4 different shapes   No Change   Perfectly matching   Small and powerful. They should be suitable for mixing in AIR   ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,   Steam generator built in compliance with international safety regulations.   A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.   No Change   1   No Change   Perfectly indicator.   Perfectly indicator.   No Change   Perfectly indicator.   Perfectly indicator.   Perfectly indicator.   No Change   Perfectly indicator.   Perfectly indicato				No Change	
Vacuum mixing machine  Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,  Steam Cleaner  • Steam generator built in compliance with international safety regulations.  • A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  • 3 - 4 bar constant pressure.  • Convenient foot control.  • Handy gun with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump value with flexible coperation.  • Equipped with fully automatic spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change				No Change	
machine  suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt,  Steam Cleaner  • Steam generator built in compliance with international safety regulations.  • A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.  • 3 – 4 bar constant pressure.  • Convenient foot control.  • Handy gun with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump  Provided With fully automatic spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change				No Change	
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A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.      3 - 4 bar constant pressure.      Convenient foot control.      Handy gun with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump  This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  Equipped with fully automatic spindle.  Provided with suction, foot control and high intensity illumination.  Safety glass for glare elimination  No Change	Steam Cleaner	compliance with international safety		No Change	
Convenient foot control.      No Change      Handy gun with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump  This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  Equipped with fully automatic spindle.  Provided with suction, foot control and high intensity illumination.  Safety glass for glare elimination  No Change  No Change  1  No Change  No Change		• A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.	1		1
• Handy gun with flexible hose.  Spindle grinder 24,000 RPM and Vacuum pump  This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  • Equipped with fully automatic spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change  No Change  No Change  No Change		• 3 – 4 bar constant pressure.		No Change	
Spindle grinder 24,000 RPM and Vacuum pump  This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.  • Equipped with fully automatic spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change  No Change  No Change		Convenient foot control.		No Change	
24,000 RPM and Vacuum pump  Grinder Offering high speed grinding and dependable trouble free operation.  • Equipped with fully automatic spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change		Handy gun with flexible hose.		No Change	
spindle.  • Provided with suction, foot control and high intensity illumination.  • Safety glass for glare elimination  No Change	24,000 RPM and	Grinder Offering high speed grinding and dependable trouble free operation.			
and high intensity illumination.  • Safety glass for glare elimination  No Change		spindle.	1		1
				No Change	
				No Change	

	• 20,000 rpm.to 24000 rpm		No Change	
Wax Heater	Electronic controlled wax pot.	1	No Change	1
	• Four individual square containers.		No Change	
	Uniform temperature maintenance.		No Change	
	Physical characteristics of wax		No Change	
	unaltered.		1.0	
	• 30 degree C – 110 degree C		No Change	
Wax Carver	Oracraft / API/Jaypee	1	No Change	1
Curing Pressure Pot	Robust stainless steel structure which makes the equipment extremely dependable	1	No Change	1
	• Satisfies all technical requirements requested for resins treatment		No Change	
	Durable and easy maintenance		No Change	
	• 4 discharge cycles (air/water) can be set and can be combined with 2 cooling cycles		No Change	
	• (slow/fast)		No Change	
	Characteristics		No Change	
	• Front panel display shows polymerizer temperature and time		No Change	
	• Up to 10 memorisable programs		No Change	
	• Setting of working time from 1 minute to 99 hours		No Change	
	• 100% stainless steel support structure		No Change	
	Safety microswitch which detects opening of lid		No Change	
	Internal machine safety valve		No Change	
	Equipped with filter with air pressure regulator		No Change	
	Self-locking lid closure		No Change	
	• Polimer are able to contain 2 self- standing medim size flask		No Change	
	Maximum working pressure 6 bar		No Change	
	Precise and flexible electronic controlo allow an optimal treatment of resins		No Change	
Milling Machine		1	DENTAL MILLING milling machine ensures high precision work on fixed and removable protheses and fittings. The articulated and/or fixed arm is equipped with a micromotor, providing a high precision vertical movement. It is supplied with fixed and/or mobile table, a standard set of gauge tips and a rod with a mandrel for wax outlining and milling. The column height is adjustable and the milling machine is robust, made of hard aluminum, with an imposing yet compact design that ensures long durability	1

T			T	1
			The arm's head is designed to adapt to	
			most micromotor models available on	
			the market	
			Certification-US FDA/EU CE(Issued by	
Haaring dustry latter	. Hoovy duty continuous rating	1	notified body)/BIS approved	1
Heavy duty lathe with suction	Heavy duty, continuous rating motor.	1	No Change	1
	• Well balanced bearing for smooth work.		No Change	
	• Supplied with different attachments.		No Change	
	• 1,400/2,800 rpm		No Change	
	• Universal suction Unit for laboratories Polishing Lathes.		No Change	
	Necessary for polishing and buffing works.		No Change	
	• Essential and compact design, is equipped with a new suction System for the best performances.		No Change	
	• The lighting is supplied with a neon lamp of the power of 18 watt.		No Change	
Pre Heating		1	No Change	1
furnace				
			The oven can storing not less than 4	
			pre-heating cycles (or programs) which	
			are kept in the memory until the operator decides to modify them.	
			Each program contains 4 phases and for	
			each phase it is possible to set	
			3 variables: temperature, increase rate,	
			holding time. It is also possible	
			to set an Ignition delay and the fumes	
			aspiration fan Off temperature	
			(fume chimney). Furthermore it is	
			possible to set a fi nal temperature	
			holding time at the end of the cycle: this	
			is to keep the cylinders at a	
			certain temperature and allow some time	
			for the operator to be ready with the next work.	
			Certification-US FDA/EU CE(Issued by	
Dolotol trimero	• This is a single bur unit for simple,	1	notified body)/BIS approved	1
Palatal trimmer	precise, safe and dustless operation for trimming palatal/lingual surface of models.	1	No Change	
	High speed, most efficient cylindrical bur, provides fine		No Change	
	trimming without applying the slightest pressure on the model.			
	Provision to attach dust suction unit.		No Change	
	• 2,800 rpm.		No Change	
Ultra sonic cleaner	5 liters capacity	1	No Change	1
5 Lit capacity	High frequency and high intensity		No Change	
	sound waves, less than 80 dB  • Versatile and timer controlled		No Changa	
	versaure and timer controlled		No Change	

	• Portable		No Change	
	Suitable for continuous operation		No Change	
	Automatic initialization and easy to set by touch buttons		No Change	
	• Capacity of the tank : 4 to 6 Ltr		No Change	
	Digital LCD display		No Change	
	• 220-240 volts and frequency 30-60 HZ		No Change	
Composite curing unit	UV polymerizing equipment for resin and photosensitive materials. It's should made in stainless steel and it includes: • 1 sliding drawer that can contain 3 models. • 4 bulbs 9 W each one. • 1 Timer 120-180 sec. • 1 switch for endless time.	1	No Change	1
Micro surveyor		1	It should ensure precision and high quality laboratory work. surveyor unit to be supplied with a table and a set of standard surveying tools. Handpiece support Made of aluminum.	1
Pre clinic prosthetics LABORATORY	work table complete S S top fitted with light,bunsen burner air blower ,work stool	60	No Change	60
	micro motor lab with attached hand piece	20	No Change	20
	PLASTER ROOM FOR PRE CLINICAL WORK			
Plaster dispenser	One each for plaster and stone plaster	2	No Change	2
	High Frequency Dispenser.		No Change	
	• High quality rubber bucket for storing Plaster.		No Change	
	• Dispenses plaster in total powder form.		No Change	
	• Bottom lever starts and stops flow of plaster instantly.		No Change	
Vibrator	Works effectively for pouring bubble free models.	2	No Change	2
	• 3 Steps of Vibration- Low, Medium and High.		No Change	
	• Non sticky superior rubber, easy to remove and clean.		No Change	
	• Ideal for Institutions, Dental Laboratories and clinics.		No Change	
Lathe	Heavy duty, continuous rating, vibration-free, low noise lathe used for polishing and trimming.	2	No Change	2
	Dual working sides.		No Change	
	• Supplied with drill chuck, buffing cone and grinding stone.		No Change	
	Dust proof motor.		No Change	
	• 2800 rpm.		No Change	

Model Trimmer	Ergonomically designed most	1	No Change	1
with	powerful, low noise, smooth running motor, 2,800 rpm.	1	Two Change	
carboradium disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Model trimmer with	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
diamond disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
	DEPARTMENT - CONSERVATIVE DENTISTRY & ENDODONTICS			
Dental chair and unit	Dental chair mount unit	34		34
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	
	Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.		It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	

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	one three way syringe and one light	It should have auto zero, gargle, P1 and	
	cure unit with light guide with	P2(erasable programme) positions.	
	shield. With variable modes of		
	intensity . Should have intensity		
	of1200 mwcm2		
	Dentist element or trolley should	Chair should have up and down,	
	have five point with Two airotor	backward and forward movement hand	
	points ,one micromotor with	and foot control operated.	
	digital display of speed, one	1	
	piezotronic scaler with 5 scaling		
	<b>tips</b> . With torque wrench to remove		
	tip. One three way syringe. And		
	modular should be of hanging cords,		
	and should be supplied with iopa x		
	ray viewer, on stainless steel tray.		
	and control should have the pressure		
	guage, water volume regulator, air		
	regulator. micromotor controller		
	foot control should be supplied to	Seat, backrest rest-synchronized	
	operate up and down and backrest to	movement and head rest Pneumatic/	
	and frow movement. Switch for	manual movement	
	operating microtor and scaler and	mandar movement	
	airtor.		
	Should supply with one airotor	a. Chair should have Minimum &	
	handpiece, one micromotor	maximum height 360mm & 700mm.	
	contrangle handpiece, and one	b Unit should have removable axillary	
	straight handpiece of branded(kavo,	tray (stainless steel), transparent water	
	NSK, Bien air, W & H)	booster.	
	· · · · · · · · · · · · · · · · · · ·		
	ceramic replacable bowl /glass	Base should solid metal with heavy	
	should be easy to remove and rotate	casting.	
	should be supplied with all the floor	It should have LED based X-ray viewer.	
	box and its fittings so that we can		
	connect the chari to all the central		
	connections.		
		It should be provided with rotatable right	
		arm rest (90 degree).	
		It should be provided with one doctor's	
		stool with back rest and one assistant's	
		stool without back rest with foot ring for	
		foot rest. The base should be of stable	
		metal moving on five wheels with	
		 pneumatic movement with level	
		 Suitable Oil Free Air Compressor	
		(Medical grade). Tank and dryer. Also	
		built in Thermo cut for excess of heat,	
		Auto head release valve, automatic cut	
		off, safety release valve, & drain valve	
		gauge.	
		Electrical point, water inlet and outlet	
		facility will be provided by hospitals but	
		All consumables required for installation	
		and standardization of system to be	
		given free of cost.	
		(a) It Should have Dental instrument	
		cabinet with acid and fire resistant table	
		top fitted with minimum 6 and above	
		drawer/ Shelves	
		All the outlet and inlet for the services to	
		chair should be concealed in a box at	
		foot area or within the unit for infection	
		control purpose.	
II		control purpose.	

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			The unit shall be capable of operating	
			continuously in normal room temperature.	
			Complete installation of the system	
			including water input and drainage	
			system, air compressor, required	
			electrical connection has to be installed.	
			Power supply	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
			may be 180-270V and frequency	
			variation max. 3 %. The necessary	
			protective shall be there with the	
			machines.	
			Standards, safety and training:	
			i. Model Should be US FDA / CE (Issue	
			by Notified body) / BIS approved.	
			ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and	
			accessories with their part number and	
			costing available in stock with the	
			supplier.  iv. Certificate of calibration and	
			inspection from factory.	
			v. Log book with instruction for daily,	
			weekly, Monthly and quarterly	
			maintenance checklist.	
			vi. The job description of the hospital	
			technician and company service	
			engineer should be clearly spelt out.	
			vii. List of Equipment available for providing calibration and routine	
			preventive Maintenance support as per	
			manufacturer documentation in service/	
			technical Manual.	
Rubber Dam Kit	Oracraft / API Jaypee	6	Rubber Dam Kit 11 clamps with	6
			sheet,Clamp holder,Rubber dam	
Doot on 11	One enoft / ADI I	10	holder,Ruber dam hole puncture	10
Restorative	Oracraft / API Jaypee	10	restorative, amalgam carrier, amalgam plugger, ball burnisher, cement carrier,	10
Instrument Kit			cement pluggere trimmer, spoon	
			excavator, small mediam and large,	
			gingival marginal, sectional matrix	
			Specifications-Made of SS,Rust	
DOT !	Mari Land (D. C. C.)	10	free,autocable ,sharp working end	10
RCT Instrument kit	Mani Japan(Rotary fileswith hand	10	RCT Instrument kit-Protaper SX,S1,S2,F1,F2.F3(SET OF 6), Protaper	10
	files)		DI,D2(SET OF 6) ,2% files	
			= -,- = (021 01 0) ,2 /0 mes	
Autoclaves	Hot and wet – class -B	3	No Change	3
	1		i.	

				1
	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm +_10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure: 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume not less than 3.0 L	
	Ambient pressure - +5°~ +40°		No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	
Ultrasonic cleaner	13 litres	2	No Change	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	
Needle burner with syringe cutter	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of	4	No Change  No Change	4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter	4		4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter with debri collector  Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A	4	No Change	4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter with debri collector  Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.  Body Material: stainless steel or	4	No Change  No Change	4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter with debri collector  Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.  Body Material: stainless steel or ms powder coated  Power consumption of	4	No Change  No Change  No Change	4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter with debri collector  Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.  Body Material: stainless steel or ms powder coated  Power consumption of continuous rating, W in use: 100 W.  Type of Electrodes used:	4	No Change  No Change  No Change  No Change	4
	quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs  Needle destroyer should have needle burner and motorised syringe cutter with debri collector  Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.  Body Material: stainless steel or ms powder coated  Power consumption of continuous rating, W in use: 100 W.  Type of Electrodes used:  Copper Electrode – Nicket plated.  Destruction Rate, Seconds /	4	No Change  No Change  No Change  No Change  No Change	4

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		No Change	
Tray capacity No. of Syringes & Needles: 100 pcs.		No Change	
Safety features provided : Glass Cartilage Fuse.		No Change	
motorised syringe cutter: with wheel		No Change	
	3	The amaglam mixer is used fo rmxing and accurate portioning of mercury & silver tin powder until they have bonded, the time of mixing should be adjused from 1 to 60 seconds, the unit should supply with capsule operating device.	3
	4	DIGITAL PULP TESTER high frequency tip detachable, digital display	4
High-precision root canal measurement generated by using Smart Logic	2	No Change	2
Auto-detects the apex accurately in any conditions, dry or wet		No Change	
A stylish and compact body consuming very small space		No Change	
Three different alert sounds depending on the location of the file tip, ensuring precise procedures		No Change	
low reflectivity, allowing clinicians to accurately and instantly monitor		No Change	
Energy saving and low operation cost		No Change	
Control unit		No Change	
Probe (1.8m)		No Change	
File Clin (3 pcs.)		No Change	
* ' * '			
AAA Manganese Dry Batteries (3		No Change	
		No Change	
	(	Ţ.	6
and temperature within 25 to 30 minutes and maintain uniformly as long as it is on.	0	Ü	6
• Instruments may be kept only for 10 to 30 seconds and will be ready for use.		No Change	
• With High quality glass for retaining the temperature.		No Change	
• Minimum Unit power consumption for day long work.		No Change	
	Needles: 100 pcs.  Safety features provided: Glass Cartilage Fuse.  motorised syringe cutter: with wheel  High-precision root canal measurement generated by using Smart Logic  Auto-detects the apex accurately in any conditions, dry or wet  A stylish and compact body consuming very small space  Three different alert sounds depending on the location of the file tip, ensuring precise procedures  A three-colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress  Energy saving and low operation cost  Control unit  Probe (1.8m)  File Clip (3 pcs.)  Lip Hook (3 pcs)  AAA Manganese Dry Batteries (3 pcs.)  Tester  • Variable from 150 - 250 deg C, and temperature within 25 to 30 minutes and maintain uniformly as long as it is on.  • Instruments may be kept only for 10 to 30 seconds and will be ready for use.  • With High quality glass for retaining the temperature.	Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.  Tray capacity No. of Syringes & Needles: 100 pcs.  Safety features provided: Glass Cartilage Fuse.  motorised syringe cutter: with wheel  4  High-precision root canal measurement generated by using Smart Logic  Auto-detects the apex accurately in any conditions, dry or wet  A stylish and compact body consuming very small space  Three different alert sounds depending on the location of the file tip, ensuring precise procedures  A three-colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress  Energy saving and low operation cost  Control unit  Probe (1.8m)  File Clip (3 pcs.)  Lip Hook (3 pcs)  AAA Manganese Dry Batteries (3 pcs.)  Tester  • Variable from 150 - 250 deg C, and temperature within 25 to 30 minutes and maintain uniformly as long as it is on.  • Instruments may be kept only for 10 to 30 seconds and will be ready for use.  • With High quality glass for retaining the temperature.	Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.  Tray capacity No. of Syringes & No Change  Safety features provided: Glass Cartilage Fuse.  motorised syringe cutter: with wheel  No Change  The amaglam mixer is used for mixing and accurate portioning of mercury & silver tin powder until they have bonded, the time of mixing should be adjused from 1 to 60 seconds, the unit should supply with capsule operating device.  Phigh-precision root canal measurement generated by using Smart Logic  Auto-detects the apex accurately in any conditions, dry or wet  A stylish and compact body consuming very small space  Three different alert sounds depending on the location of the file tip, ensuring precise procedures  A three-colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress  Energy saving and low operation cost  Control unit  Probe (1.8m)  File Clip (3 pes.)  Lip Hook (3 pes)  AAA Manganese Dry Batteries (3 pes.)  Tester  No Change  No Change

				1
	• On reaching required temperature indicator light should be on and the Unit should be ready.		No Change	
Plaster dispenser	One each for plaster and stone plaster	2	No Change	2
	High Frequency Dispenser.		No Change	
	• High quality rubber bucket for storing Plaster.		No Change	
	• Dispenses plaster in total powder form.		No Change	
	• Bottom lever starts and stops flow of plaster instantly.		No Change	
Viberator	Works effectively for pouring bubble free models.	2	No Change	2
	• 3 Steps of Vibration- Low, Medium and High.		No Change	
	• Non sticky superior rubber, easy to remove and clean.		No Change	
	• Ideal for Institutions, Dental Laboratories and clinics.		No Change	
Intra Oral X Ray Unit ,AERB Certified	Dental X-Ray Unit 70 KV – DC X Ray	1	No Change	1
	Light and compact, all function are integrated in the mono bloc, The monobloc with constant potential reduces significantly the quantity compared to normal radiographic. Low energy noxious radiations are almost completely to be elimated, should get high definition images, both in traditional mode and digital and phosphorous system, protecting patient health.		1. Intra oral X-ray unit should be DC based. (7-10mA/65-70 KVa) with option for wall mount.	
	TECHNICAL DATA		2. X-ray unit should be supplied with lead apron-01nos., thyroid collar-01nos.	
	Rated electrical power : 0,800KW		3. Power input to be 220-240VAC, 50Hz fitted with Indian plug	
	High frequency technology : 100 KHZ		4 Servo Voltage stabilizer of appropriate ratings for X-ray machine.	
	Absorption : 6A		5. Dental X ray should be - USFDA (510 K)/ European CE (Issued by notified body) & AERB approved model should be offered.	
	Focal spot : 0.7mm IEC 336		Deleted	
	Dia of long cone at end of space : 6cm		Deleted	
	Total filtration : 2mmAl		Deleted	
	Selectrabyle anodic current: 4-7mA		Deleted	
	Selectable voltage to X-Ray tube : 60-70 KVP		Deleted	

	Dispersed radiation : < 0.25mGy/h		Deleted	<u> </u>
	a 1 meter from focus 1		Deleted	
	Exposure time : 0.020 – 1.000mS Scala R10		Deleted	
	Power supply : 190-240V 50Hz		Deleted	
	Intermittent operation : 1/30 1s exposure 30S reset max		Deleted	
	Distance : FF.20 CM		Deleted	
	Fuse : F6,3 At		Deleted	
Automatic Developer			Automatic x ray Developer: to be used for intra oral and perriapical films it should be suitable for all the intra orals films, temperature controlled heating. It should develop upto 8 films per five minutes	1
RVG	chip type APS CMOS	1	No Change	1
	pixcel size 20Um		No Change	
	active area 20x30 mm		No Change	
	signal out put USB		No Change	
	Theoritical resolution 25lp/mm		No Change	
	imaging time 3-4 s		No Change	
	true line pair resolution as 14 lp/mm		No Change	
			With computer & printer at Trolly	
EndoMotor with Torque	Endo Micromotor with Torque Control And Auto Reverse	3	No Change	3
control handpiece	Smart enough to memorise exact speed and torque settings for up to 9 Ni-Ti files. Its auto-reverse features 3 working modes – auto-reverse on, auto-stop, auto-reverse off. The motor reacts when load reaches the preset level of torque. With on-off switch, it offers flexibility of pedalfree operation (optional foot control unit available), while providing convenience of full portability with two-way power supply, either AC or battery driven. (NSK/J Morita/Kavo/w&h/densply )		No Change	
	Operative with AC Adapter		No Change	
	Auto Reverse Function, 9 programs		No Change	
	With Rechargeable Battery Back-up		No Change	
	Control unit		No Change	
	Adaptor - 1 no		No Change	
	Motor Cord & MP Handpiece		No Change	
	Motor stand		No Change	
	Spray nozzle - 1no		No Change	
Bleaching Unit		1	chair side bleaching unit with led with required blue light frequecy, with time control	1

Magnifying loop		2	Should be type 2.5, and 3x	2
0 , 0 ,			magnificatin with light and battery	
			backup	
Injectable gutta		3	Cord less obturator which should have	3
purcha			both cutter and filling instruments with	
CADCAM	A turn key project includes,	1	battery operated A Complete System for Computer Aided	1
CADCAIVI	IOS, Milling machine, model	1	Design /Computer Aided manufacturing	1
	scanner, sintering		of im lays ,on lays,crowns,bridges for	
	machine, compressors, suction, 3 D		Dental Restoration through fine milling	
	printing,trainning and		process of ready Ceramic block.It should	
	commissioning.		include supply ,installation ,training &	
			commissioning of the complete system	
			consisit of atleast the following components -	
			MILLING MACHINE:	
			Functioning of milling should be fully	
			automatic and should be with	
			standardized precision.	
			Dry Milling machine should be suitable	
			for all type of material which can be	
			milled Dry.	
			The machine should have X, Y, Z, spindle rotation A & B Axis.	
			•	
			Should mill zirconium oxides, wax,	
			PMMA, COMPOSITE etc, quickly,	
			precisely and cleanly.  The milling machine should be able to	
			mill all types of indications: inlays,	
			onlays, crowns, bridges, framework, full	
			mouth restorations etc.	
			Efficient and compact milling machine	
			for quick and precise framework milling	
			Should mill perfectly with minimum	
			error.	
			Should Mill up to 14 unit bridges and	
			the burs should be changed automatically.	
			Tool holding fixture for automatic tool	
			change based on automatic tool length	
			measurement and broken tool detection.	
			Open interface for an open scanner	
			The milling machine should be STL	
			open for import of other files scanning	
			data.	
			High quality and high frequency spindle with 25000 or more speed.	
			Noise level should not be more than	
			75dbA	
			Suction & dust collector should be	
			provided.	
			Tenderor or company should have	
			supplied the similar quoted model machine to state/ central government or	
			private hospitals or dental laboratory.	

	The milling machine should have CAM software for automatic size detection of the restorations for positioning, height optimization in disc for calculation.	
	Scanner, Milling unit, Dust extract software and frame work material should be from the same Manufacture.	s turer.
	Minimum 15 or more automatic to changer fitted with tool measurem sensor.	nent
	Should be provide with branded s desktop/ laptop.	uitbale
	LAB SCANNER	
	Fully automatic scanner with 5 ax scanning with high quality 3D image.	
	Should scan upto 14 unit bridges and easily	
	Scanning accuracy should be less 12micron	
	The scanner must have two high s measuring cameras minimum 5m	0.
	Should have large measuring field also facility to scan models in intermaxillary relationship	l and
	Should have intelligent scan strate even quicker scan times	egy for
	The scanner should be able to sca whole model jaw in less than 140 seconds using the large scanning to	field.
	Should have multiple die holder to scanning up to 7 or more	
	The scan field should be identified assessed automatically, which me that large spanned bridges framew can be quickly and efficiently documented.	ans
	The scanner should have ample sp for placing articulators.	pace
	Should have facility to transfer articulated models	
	Bite registration, situation models gingiva and wax-up scan should be possible for optimal framework fabrication	e
	Should have Automatic user-guid through the scan program for easy safe operation	
	Scanner should be with an open interface, scans (stl-files) can also downloaded into other CAD softw	vare
	The software should have modern controls that incorporates the most date technologies, supports multi-CPUs and takes advantage of 64 b	t up to core
	operating system.	

	Should be a compact and table top unit.
	Should be provide with branded suitable
	desktop/ laptop for scanning and
	designing purpose.
	CAD SOFTWARE:
	An intelligent designing Software for the
	framework fabrication to be provided
	free of cost
	Software should have features of precise
	recognition of the prepared margin,
	automatic bridge and connector design,
	different tooth libraries, individual tooth
	part movements, compilation and the
	open system structure
	Large indication spectrum should be
	available viz. i. Fully anatomical and
	anatomically reduced crowns and
	bridges, Inlays/onlays, Reducing,
	Virtual articulator.
	The software must have a dental
	database.
<u> </u>	Should have a virtual articulator with the
	same functionalities of adjustment of
	horizontal inclination of condylar
	guidance; Bennett's angle; retrusion;
	protrusion; immediate side shift etc. to
	calculate the fully anatomical
	construction dynamically and statically
	This also should function to simulate the
	mandibular excursions and automatically
	construct a fully anatomical framework
	proposal, according to the dynamic
	occlusion, to reduce grindings the
	surfaces after milling
	Spurious structures in the designing
	should be automatically removed and
	adapted during the movement of the
	virtual articulator
	Synchronized accessories to be provided
	for transferring the models from the
	articulator into the Scanner to guarantee
	the precision at the functional interface
	between manual and digital technology
	Model acquisition: it offers additional
	flexibility by allowing data to be
	imported from any 3D scanner by using
	an import module.
	Model export : After completing the
	modelling prosthesis, there should be
	facility to export the models in STL
	open format for further processing with
	CAM software for milling and
	prototyping. The software should be
	integrated with third party solutions
	Intra oral scan data should be imported
	directly into the design software record
	card and loaded for designing, also with
	virtual articulator functionality.
<u> </u>	The software should be user friendly.
	The software should be user intendry.

	The software should comprise optiona of different sets of tooth libraries	lly
	The software also should comprise of free interface module to upload STL data from other open scanners very easily.	a
	The software should be capable of designing full contour bridges so that framework and matching veneering structure, can be designed in a single step	
	SINTERING FURNACE	
	The sintering furnace should have high process reliability due to constant temperature control, homogeneous temperature distribution in the firing chamber for final sintering of distortio free zirconia frameworks.  The capacity of the furnace should BE with Minimum 1 bowl	n-
	The sintering furnace should have Maximum process reliability due to optimally coordinated, fully-automated sintering programs for different restoration sizes	d
	The sintering furnace should have opti for 9 sintering program locations; 6 of them individually programmable by th user	
	The sintering furnace should have minimum required space and installati time (supply required)	
	The furnace should perform sintering a the press of a button – very easy operation	
	The heating rate should be 1C-30C/mi	n.
	Automatic start time calculation by hours and weekdays.	
	The sintering furnace should have cleadisplay of the sinter status	ur
	The sintering furnace should have compatable electrical connections: V/I 220- 240/50-60, Power: 1720 - 3500 V Fuse (fast): 12.5 A, Temp Degree protection – IP20	
	All necessary accessories should be provided.	
	Heating elements made of molybdenum disilicide (MoSi2) offer a maximum furnace temperature of 1650°C	m
	GLAZING FURNACE :	
	Microprocessor based programmable vacuum furnace for dental ceramics (Elevator model) should have	
	100 operating programs for all types o ceramics	f

Vacuum range from 60 to 100 mbar	
Automatic parameter control	
Operating voltage220V / 50 Hz	
Power consumption with vacuum pump: 1700 W, Without vacuum pump: 1500 W	
Vacuum pump data :	
Suction capacity upto 22 L/min	
Vacuum from 0.9-0.94 bar	
Weight with vacuum pump: 35 kg	
INTRA ORAL 3D SCANNER	
1. It should be able to provide Precise, accurate HD 3D real color scanning. The image should be with vivid color and details that offer visually appealing images that improve and simplify case review, analysis and communication between doctors, referrals and labs.	
2. Scanner should not require powder or liquid for scanning high reflecting surfaces.	
3. The scanner should not weigh more than 400 Grams.	
4. The scanner should be handheld 3D scanner with Ultrafast Optical Sectioning. It should maintain full scan speed during full arch scan.	
5. The scanner should be capable of measuring shades of teeth and adding HD photos to the 3D model.	
6. The model should have integration with practice management system.	
7. The software should have instant scan preparation validation tools.	
8. Unit should be able to capture patient's accurate and detailed intra-oral data in digital form critical for dental diagnosis, treatment planning, record keeping and model/appliance fabrication.	
9. It should be able to measure the shade of the tooth accurately.	
10. It should have accuracy up to 8 microns.	
11. It should provide accurate data in open STL format for accurate model preparation using three dimensional printing or CAM.	
12. Scan the operative and opposing quadrant or arch and take a bite scan with patient in any occlusion.	

heater that works actively without any interruption to scamming when working inter-orally.  14. It should have possibility of high-speed dual-arch sean in less than 5 minutes.  15. Scammer should have autoclassible non bulky figs to allow its use multiple times. One tip should be able to be used up to 200 times before disposing.  16. The user should have possibility to check or rotate the final scam model on display screen infinite times for heightened visibility of data captured before finalizing.  17. User should be able to jump to any position in the mouth at any point.  18. The scanning process to fill in uncaptured image, without a need to indicate an exact location to the system. Should be freely morable and user friendly.  19. Scanner should be capable of scanning implant cases with standard abutments as well as custom abutments with scanned bodies. Also should be compatible with open system implant planning and surgical guide software.  20. User should be able to identify margin lines, contact points, and undertus before proceeding for sending files to CAD system.  21. The T.F. file cam be accessed by lab for design and fabrication or can choose to design and fabrication or can c	 <del>_</del>		
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by an OEM trained instructor.			

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60 minutes depending upon size and		
		complexity of job.

7) System should have built styles with below details -
a) Normal build style in range of 0.03-0.05mm.
b) Quick Build style 0.05mm.
c) Precision build style 0.05mm.
8) There should be a system for automated mixing of resin before pouring to have optimum consistency for precise printing. Mixing unit should be able to mix 2 or more bottles at a time.
9) Tank capacity should be in range of 0.4 to 0.75 liters.
10) Build volume of tray should have measurements less than 130X 75X 200 mm.
11) Complete system should be able to function precisely with different materials without deviation and should not require calibration.
12) It should have alcohol ultrasonic bath in work flow for cleaning of printed parts.
13) Printer should have easy to change resin tank and print platform.
14) The system should have safety features such as automatic abort if print chamber is opened during printing to protect from harmful UV exposure.
15) System should work and fabricate models accurately, repeatedly with unmatched productivity with range of 10 or more resins.
16) There must be a dedicated system for uniform UV curing for the post-processing of printed parts. UV Curing System should have 10 or more UV bulbs (more than 12 Watts) for complete curing of models (6-8 nos). The system should have both UV-A and UV-B bulbs for proper surface and deep curing of the
parts.  17) Materials which need to be used in the mouth must be certified biocompatible.
18) 3D Printer should have non-contact membrane based printing requiring no peel process.
19) 3D printer, software, resin mixing system and post UV curing system in the complete work flow should be from same OEM.
20) 20lt of biocompatible USFDA approved Resin and 20lt non-biocompatible USFDA approved Resin should be provided.
Compressor & UPS

Suitable medical grade compressor with radiator, cooling fan, dryer and silicone column filter should be supply.  Suitabe UPS with mimimum 30 minutes back up for all machines including Sintering Machine.  Consumables  5 set of DC tools  50 Zirconia blanks.  Certification  USFDA/EU CE(Issued by notified body)BIS approved model  Phantom Lab Unit  Phantom Table fitted with Phantom Head with light and Air rotor and micro motor, with contra angle Handpiece attachment, 3-way syrings with suction or drainage system, operator's stool  PRE-CLINICAL UNIT  Phantom Head Table with Two working place.  Top complete Stainless Steel, inbuilt drawer to keep the materials  No Change  Halogen Operating Light, with Multi surface Glass  Reflector having two Intensity .  No Change  Modular fitted with  No Change  - Airotor Control Box fitted with  No Change  - Airotor Control Box fitted with  No Change	
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Reflector having two Intensity . No Change  Modular fitted with No Change	
Airestor Control Poy Fitted with No Charter	
· Airotor Control Box fitted with Transparent  No Change	
Water Tank, Tubing with Nut No Change Fittings for Airotor	
with Tubing and Foot Control No Change	
Supreme Micromotor with 35,000 No Change rpm 1 No ,	
Three Way Syringe 1 No No Change	
Phantom head with mankin body & pneumatic piston—for tilting movement, phantom head with ball and socket, neck joint—for all the movement of neck, TMJ—movement, even provision to fix TMJ in open position. Heavy Duty—Phantom—head with the excellent quality face—mask, total closed oral cavity, drain—nipple for drain of—water.  No Change  No Change	
working stool for the opertor moving on five wheels with pneumatic piston for height adjustment, seat and backrest thickly cushioned covered with rexine	
CLINICAL LABORATORY	
Plaster dispenser One each for plaster and stone plaster 2 No Change 2	
High Frequency Dispenser.  No Change	

	<u></u>			
	• High quality rubber bucket for storing Plaster.		No Change	
	Dispenses plaster in total powder form.		No Change	
	Bottom lever starts and stops flow of plaster instantly.		No Change	
Model trimmer Carbodium	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Model trimmer Diamond	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Lathe heavy duty	Heavy duty, continuous rating, vibration-free, low noise lathe used for polishing and trimming.	2	No Change	2
	Dual working sides.		No Change	
	Supplied with drill chuck, buffing cone and grinding stone.		No Change	
	• Dust proof motor.		No Change	
	• 2800 rpm.		No Change	
Lab micromotor with heavy	Brushless Lab Micromotor With Hand Piece 50,000 RPM	3	No Change	3
duty hand piece	Contents: - Control Unit, heavy dutyMicromotor Handpiece, Foot Control And Handpiece Stand		No Change	
Ultrasonic cleaner 5 ltr	5 liters capacity	1	No Change	1
	High frequency and high intensity sound waves , less than 80 dB		No Change	
	Versatile and timer controlled		No Change	
	• Portable		No Change	
	Suitable for continuous operation		No Change	
	Automatic initialization and easy to set by touch buttons		No Change	
	• Capacity of the tank: 4 to 6 Ltr		No Change	
Spindle grinder	This should be a Compact Alloy Grinder Offering high speed grinding and dependable trouble free operation.	1	No Change	1
	• Equipped with fully automatic spindle.		No Change	
	• Provided with suction, foot control and high intensity illumination.		No Change	

	• Safety glass for glare elimination and visual protection.		No Change	
	• 20,000 rpm.to 24000 rpm		No Change	
vibrator	• Works effectively for pouring bubble free models.	2	No Change	2
	• 3 Steps of Vibration- Low, Medium and High.		No Change	
	• Non sticky superior rubber, easy to remove and clean.		No Change	
	• Ideal for Institutions, Dental Laboratories and clinics.		No Change	
Burn out furnace	Electronic control with microprocessor, the furnace manages 7 programmes with 4 phases per programme. The following can be set for each phase: temperature, raising speed and holding time. An ignition delay upto 100 hours can also be set. The furnace comes in 3 versions: small S, medium M and large L. The furnace ZEUS comes with a monobloc ceramic muffle with an external wrapped around resistance. This enables the temperature to be homogeneous in all its 4 sides: upper, lower and laterals. The fumes follow a natural circulation and come out from a rear chimney. To improve the exit of the fumes a chimney, which is supplied as an accessory, can be installed. Such installation is extremely simple and can be done by the operator.	1	No Change	1
	The oven features a safety microswitch, which stops the resistance in case the chamber is opened. The oven is airtight with environmental materials in compliance with the requirements. Another useful accessory is the dewaxing plate which we also advise to buy, in fact it prevents the liquid wax from being absorbed by the muffle, keeping it free from abrasions and deteriorations which can damage it.  TECHNICAL FEATURES:-		No Change  No Change	
	Feeding : 220-240V		No Change	
	Overall dimensions : 32x40x50 cm		Overall dimensions : 32x40x50 cm +_10%	
	Chamber dimensions : 16x16x10 cm		Chamber dimensions : 16x16x10 cm+_10%	
	Max. Temperature : 1100°C		No Change	
	Weight : 28 Kg		Weight : 28 Kg+_10%	

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Porcelean furnace	Automatic programmablevacuum furnace for dental and ceramic,designed for all types of dental ceramics,completely processor controlled,14 programs, in every program name,idle temp,dry temp,pre drying temp,dry timing, firing timing,first cooling, second cooling,vacuum controlled, with self diagnosticand auto caliberation.an option for automatic continuation of program after power break don.an option for program transferon USB.an option of remote analysis of damage.	1	No Change	1
sand blasting machine	With two containers	1	No Change	1
	The double jar sand blaster offers excellent results which until was achieved only by very expensive devices.		No Change	
	• USED for roughing and polishing of metals, ceramic and acrylic materials.		No Change	
	Technical Characteristics;		No Change	
	Excellent ergonomics		No Change	
	Alluminium oxides from 50 microns to 250 microns can be used		No Change	
	Inner air gun		No Change	
	• Highly durable, long lasting blasting tips of 2 sizes provides precision sand blasting.		No Change	
	Chamber selection by directional mechanical valve		No Change	
	Glass protection with interchangeable plastic film		No Change	
	Electric Components according to international regulations		No Change	
	Pneumatic foot control		No Change	
Lab airotors		1	Lab Airotor with NSK/W&H/KAVO St Handpiece • Sleek and weightless NSK/W&H/KAVO straight handpiece (collect 01.6 mm) • must for precision carving of metals and ceramic. • High quality compressed air control. • Filter, lubricator regulator unit built in circuit.	1
Pindex system	pindex system or Laser pinsetter has been designed for the most efficient and ergonomic approach to pin drilling, for easy die pin placement.	1	No Change	1
	• Combines "State of the art" laser light technology with an easy to use design.		No Change	

	• The carbide bur provides effective		No Change	
	and smooth drilling.		No Change	
	• 15,000 rpm.		No Change	
Circular saw	• This high speed circular saw is supplied with a diamond disc for precision slitting through models that can be held firmly on the electro magnetic model holder.	1	No Change	1
	Provided with a funnel for aspiration and provision for attaching suction unit.		No Change	
	• High intensity illuminations for clear view of the working model.		No Change	
	<ul><li>Dual control switch for safety while working.</li><li>Diamond blade; 080mm and</li></ul>		No Change  No Change	
	thickness 0.26 mm.		Two Change	
Vacuum mixer	Small and powerful. They should be suitable for mixing in AIR ABSENCE any kind of plaster, coating and silicone. They should be equipped with a low-noise motor reducer, a dry running vacuum pump and an electronic timer of proven reliability. voltage 220 Volt, 400 rpm/0,8 bar equipped with a 500 cc cup and table support.	1	No Change	1
Pneumatic chisel		1	PNEUMATIC CHISEL WITH CONTROL	1
			• Robust, high performance chisel operated by compressed air for universal use in the laboratory. High frequency chisel to deflask dentures and disinvest casting. Avoid, micro cracks formed by unconventional methods of plaster removal. High quality compressed air control. Filter, lubricator regulator unit built in circuit. Chisel tips – 3 Nos.	
Casting machine (induction)	Induction Casting Machine –	1	No Change	1
	Machine for centrifugal casting with inductive high frequency metal melting.		No Change	
	• Design for Casting Co-Cr-Mo, Ni- Cr-Mo and precious alloys used in dentistry.		No Change	
	• An autonomous water cooling.		No Change	
	Technical data:		No Change	
	• Power Supply : 220V/ 50Hz		No Change	
	• Maximum power consumption: 3kW		No Change	
	• Minimum alloy quantity in the crucible: 7g		No Change	
	• Maximum alloy quantity in the crucible: 80g		No Change	

	Crucible material : Ceramics		No Change	
	Crucible material When casting		No Change	
	precious alloys: Ceramics with graphic insertion			
	Maximum time for full melting		No Change	
	of 30g alloy : 60s		No Change	
	• Cooling : Water autonomous		No Change	
	HF Power rating adjustment when		No Change	
	Melting Ni-Cr-Co alloys or precious		No Change	
	alloys : Manual		l v g	
	• Motor acceleration adjustment : Manual		No Change	
	• Casting : Manual.		No Change	
	• Dimensions L/B/H : 620/660/1060 mm		No Change	
	• Weight : 120 Kg		No Change	
Ceramic unit	Automatic programmablevacuum furnace for dental and ceramic,designed for all types of dental ceramics,completely processor controlled,14 programs, in every program name,idle temp,dry temp,pre drying temp,dry timing, firing timing,first cooling, second cooling,vacuum controlled, with self diagnosticand auto caliberation.an option for automatic continuation of program after power break don.an option for program transferon USB.an option of remote analysis of damage.  DEPARTMENTOF ORAL PATHOLOGOLOGY AND ORAL MICROBIOLOGY	1	No Change	1
Dental chair and unit	Dental chair mount unit	2		2
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable,	

	T	1
to adjust for required patient	handle, Minimum 28,000 Lux or higher	
position, with penumatic locking	at 80 cm distance.	
Chair should achive the lowest and	It should have light cure unit.	
maximum height required for the		
patient ingress and dentists operation		
by Electrically operated actuators		
Assistant side control should have	It should have high and low vacuum	
high vacuum and saliva ejector	motorized suction with auto drain and	
connected to motorised suction.	auto flush motorized suction should have	
With individual filter and with a	minimum volume of 250 Itrs/min and	
minimum of 300 ltrs of aerosol	provision for disinfected air exhaust.	
displacement.		
one three way syringe and one light	It should have auto zero, gargle, P1 and	
cure unit with light guide with	P2(erasable programme) positions.	
shield. With variable modes of	1 2 (crusuo io programmo) posizionis.	
intensity . Should have intensity		
of 1200 mwcm2		
Dentist element or trolley should	Chair should have up and down,	
have five point with Two airotor	backward and forward movement hand	
points ,one micromotor with digital	and foot control operated.	
display of speed, one piezotronic	and root control operated.	
scaler with 5 scaling tips. With		
torque wrench to remove tip. One		
three way syringe. And modular		
should be of hanging cords, and		
should be supplied with iopa x ray viewer, on stainless steel tray. and		
control should have the pressure		
guage, water volume regulator, air		
regulator. micromotor controller		
foot control should be supplied to	Seat, backrest rest-synchronized	
operate up and down and backrest to	movement and head rest Pneumatic/	
and frow movement. Switch for	manual movement	
operating microtor and scaler and		
airtor.		
	a. Chair should have Minimum &	
Should supply with one airotor		
Should supply with one airotor handpiece, one micromotor	maximum height 360mm & 700mm.	
handpiece, one micromotor	maximum height 360mm & 700mm.	
handpiece, one micromotor contrangle handpiece, and one	maximum height 360mm & 700mm. b Unit should have removable axillary	
handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)	maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	
handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H) ceramic replacable bowl /glass	maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.  Base should solid metal with heavy	
handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)  ceramic replacable bowl /glass should be easy to remove and rotate	maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.  Base should solid metal with heavy casting.	
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technical Manual.				preventive Maintenance support as per	
					1
slides   100   150				technical Manual.	
	slides	<u> </u>	100	<u> </u>	150

slides boxes		4	No Change	4
Microscopes		50	Binocular type	50
Mictotome		1	Microtome-Mannual type,Including all accessories for dental students.	1
Wax Bath		1	No Change	1
water Bath		1	Rust free,stainless steel,min size 18X18X10 inches(LXWXH) minimum	1
Knife sharpner		1	No Change	1
Hot plate		1	Electrcal,V-220+-20 V,AC,size 18X18X10 inches(LXWXH) minimum	1
Spencer Knife		1	No Change	1
Adequate slides projecting system		1	Slides projecting system for Dental students, Certification-US FDA/EU CE/BIS	1
	Department of oral & Maxillofacial surgery			
Dental chair and unit	Fully Electrical Dental chair unit - Adult	25	No Change	25
	Dental chair mount unit		No Change	
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	
	Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.		It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	

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one three way syringe and one light cure unit with light guide with shield. With variable modes of intensity . Should have intensity of1200 mwcm2		It should have auto zero, gargle, P1 and P2(erasable programme) positions.	
Dentist element or trolley should have five point with Two airotor points, one micromotor with digital display of speed, one piezotronic scaler with 5 scaling tips. With torque wrench to remove tip. One three way syringe. And modular should be of hanging cords, and should be supplied with iopa x ray viewer, on stainless steel tray. and control should have the pressure guage, water volume regulator, air regulator, micromotor controller		Chair should have up and down, backward and forward movement hand and foot control operated.	
foot control should be supplied to operate up and down and backrest to and frow movement. Switch for operating microtor and scaler and airtor.		Seat, backrest rest-synchronized movement and head rest Pneumatic/ manual movement	
Should supply with one airotor handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)		a. Chair should have Minimum & maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	
ceramic replacable bowl /glass should be easy to remove and rotate		Base should solid metal with heavy casting.	
should be supplied with all the floor box and its fittings so that we can connect the chari to all the central connections.		It should have LED based X-ray viewer.	
		It should be provided with rotatable right arm rest (90 degree).	
		It should be provided with one doctor's stool with back rest and one assistant's stool without back rest with foot ring for foot rest. The base should be of stable metal moving on five wheels with pneumatic movement with level	
		Suitable Oil Free Air Compressor (Medical grade). Tank and dryer. Also built in Thermo cut for excess of heat, Auto head release valve, automatic cut off, safety release valve, & drain valve gauge.	
		Electrical point, water inlet and outlet facility will be provided by hospitals but All consumables required for installation and standardization of system to be given free of cost.	
		(a) It Should have Dental instrument cabinet with acid and fire resistant table top fitted with minimum 6 and above drawer/ Shelves	
		All the outlet and inlet for the services to chair should be concealed in a box at foot area or within the unit for infection control purpose.	

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			The unit shall be capable of operating	
			continuously in normal room temperature.	
			Complete installation of the system	
			including water input and drainage	
			system, air compressor, required	
			electrical connection has to be installed.	
			Power supply	
			** *	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
			may be 180-270V and frequency	
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			preventive Maintenance support as per	
			manufacturer documentation in service/	
	TI . 1	4	technical Manual.	
Autoclaves	Hot and wet – class -B	4	No Change	4
	Should have container for distilled		No Change	
	water, and exaust condensed waste			
	water		l v g	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x		Sterilizer chamber (diameter x depth) -	
	depth) - 245mmx465mm(23L)		245mmx465mm +_10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure :		No Change	
	121/1.0~1.3Bar / 134/2.1~2.3Ba			<u> </u>

	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume -not less than 3.0 L	
	Ambient pressure - $+5^{\circ} \sim +40^{\circ}$		No Change	
			No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	
Ultrasonic cleaner	13 litres	2	No Change	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	
Needle burner and syringe cutter	Needle destroyer should have needle burner and motorised syringe cutter with debri collector	8	No Change	8
	Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.		No Change	
	Body Material : stainless steel or ms powder coated		No Change	
	Power consumption of continuous rating, W in use: 100 W.		No Change	
	Type of Electrodes used : Copper Electrode – Nicket plated.		No Change	
	Destruction Rate, Seconds / Needle : 25 Second / Needle.		No Change	
	Thickness & Length of Needle: Recommended: MAX . 1.6 mm Dia, 80 mm Length.		No Change	
	Burning Temperature, deg. C: 1600 C.		No Change	
	Grade of Steel & Guaranteed Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.		No Change	
	Tray capacity No. of Syringes & Needles: 100 pcs.		No Change	
	Safety features provided : Glass Cartilage Fuse.		No Change	
	motorised syringe cutter: with wheel		No Change	

	C CLAPIA	20		00
Extraction forceps set	Oracraft/API/Jaypee	20	Extraction forcep set: upper anteriors, upper premolars, upper molar right, upper molars left, upper roots, upper third molar, upper molar right (cowhorn), upper molar left (cowhorn)lower premolars, lower molars, lower roots lower molar (cowhorn extraction forcep for pedo set of 6	20
Dental elevators	Oracraft/API/Jaypee	10	Root elevator set - pouch:Flohr, flohr right, flohr left, cryer right,cryer left london hospital, coupland, winter cryer right, winter cryer left	10
Minor Oral surgery kit	Oracraft/API/Jaypee	6	Minor Oral Surgery Instruments Set (Adson forcep,needle holder,Curved Scissor (small),Suture cutting Scissor,Artery forcep(small & medium),Sinus Forcep(medium)-Allis Forcep(medium) With Cassette	6
Emergency drug tray		2	emergency drug tray with partitions(not less than 10) to keep the drugs	2
X ray viewers		2	LED type,single veiw	2
Pulse oxymeter		2	battery operated to give pulse and oxygen level,hand hold ,finger tip	2
BP Aparatus		2	Digital,movable,trolly	2
Stethescope		2	NC	2
Thermometer	hand held	2	Digital type	2
Glucometer		1	with 100 stips	1
Oxygen cylinder		2	B type,trolly mounted,ready to use(Regulator,Humidufier bottle etc)	2
Oxygen mask adult		2	No Change	2
Oxygen mask pedo		2	No Change	2
Impaction kit	Oracraft/API/Jaypee	3	Impaction Kit S/22 PCS with Pouch	3
Lab micro motor ith hand piece	Brushless Lab Micromotor With Hand Piece 50,000 RPM	3	No Change	3
	Contents: - Control Unit, heavy dutyMicromotor Handpiece, Foot Control And Handpiece Stand		No Change	
Trauma kit		1	• Trauma Kit includes -1. MODELLING LEVER 2. PLIER ,3. BONE CUTTING FORCEP SINGLE ACTION 4.  ZYGOMATIC BONE AWL, 5.  ORDINARY SCREW DRIVER 1.5 mm, 6. ORDINARY SCREW DRIVER 2.0 mm, 7. ORDINARY SCREW DRIVER 2.5 mm, 8. SELF HOLDING SCREW DRIVER 1.5 mm, 9. SELF HOLDING SCREW DRIVER 2.0 mm, 10. SELF HOLDING SCREW DRIVER 2.0 mm, 10. SELF HOLDING SCREW DRIVER 2.5 mm 11. WIRE TWISTER , 12. BONE HOLDING FORCEP POINTED # BHP # 1PC	1
High volume Suction		2	High volume Suction-not less than 250 lit/min	2

surgical straight handpiece	NSK/Supreme	4	Brushlees micromotor ,not less than 30000 RPM	4
	MINOR SURGERY			
Dental chairs and unit		5		5
	Dental chair mount unit		Dental chair mount unit	
	Body contoured electrically operated pantographic dental chair seat, back rest and head rest are		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	
	Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.		It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	
	one three way syringe and one light cure unit with light guide with shield. With variable modes of intensity . Should have intensity of 1200 mwcm2		It should have auto zero, gargle, P1 and P2(erasable programme) positions.	
	Dentist element or trolley should have five point with Two airotor points one micromotor with digital display of speed, one piezotronic scaler with 5 scaling tips. With torque wrench to remove tip. One three way syringe. And modular should be of hanging cords, and should be supplied with iopa x ray viewer, on stainless steel tray. and control should have the pressure guage, water volume regulator, air		Chair should have up and down, backward and forward movement hand and foot control operated.	

m				
	foot control should be supplied to		Seat, backrest rest-synchronized	
	operate up and down and backrest to		movement and head rest Pneumatic/	
	and frow movement. Switch for		manual movement	
	operating microtor and scaler and			
	airtor.			
	Should supply with one airotor		a. Chair should have Minimum &	
	handpiece, one micromotor		maximum height 360mm & 700mm.	
	contrangle handpiece, and one		b Unit should have removable axillary	
	straight handpiece of branded(kavo,		tray (stainless steel), transparent water	
	NSK, Bien air, WNH)		booster.	
			Base should solid metal with heavy	
			casting.	
			It should have LED based X-ray viewer.	
			It should be provided with rotatable right	
			arm rest (90 degree).	
			It should be provided with one doctor's	
			stool with back rest and one assistant's	
			stool without back rest with foot ring for	
		1	foot rest. The base should be of stable	
			metal moving on five wheels with	
			pneumatic movement with level	
			Suitable Oil Free Air Compressor	
			(Medical grade). Tank and dryer. Also	
			built in Thermo cut for excess of heat,	
			Auto head release valve, automatic cut	
			off, safety release valve, & drain valve	
			gauge.	
			Electrical point, water inlet and outlet	
			facility will be provided by hospitals but	
			All consumables required for installation	
			and standardization of system to be	
			given free of cost.  (a) It Should have Dental instrument	
			cabinet with acid and fire resistant table	
			top fitted with minimum 6 and above drawer/ Shelves	
			All the outlet and inlet for the services to	
			chair should be concealed in a box at	
			foot area or within the unit for infection	
			control purpose.	
		1	The unit shall be capable of operating	
			continuously in normal room	
			temperature.	
			Complete installation of the system	
			including water input and drainage	
		1	system, air compressor, required	
			electrical connection has to be installed.	
			Power supply	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
		1	may be 180-270V and frequency	
			variation max. 3 %. The necessary	
		1	protective shall be there with the	
			machines.	
			Standards, safety and training:	
			Sundards, sarcty and training.	

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			i. Model Should be US FDA / CE (Issue by Notified body) / BIS approved.	
			ii. Electrical safety conforms to standards for electrical safety IEC-60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and accessories with their part number and costing available in stock with the supplier.	
			iv. Certificate of calibration and inspection from factory.	
			v. Log book with instruction for daily, weekly, Monthly and quarterly maintenance checklist.	
			vi. The job description of the hospital technician and company service engineer should be clearly spelt out.  vii. List of Equipment available for	
			providing calibration and routine preventive Maintenance support as per manufacturer documentation in service/ technical Manual.	
	DEPARTMENT OF PERIODONTOLOGY			
Dental chair and unit	Dental chair mount unit	34	Dental chair mount unit(25% should be air polisher)	34
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	

Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.	It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	
one three way syringe and one light cure unit with light guide with shield. With variable modes of intensity . Should have intensity of 1200 mwcm2	It should have auto zero, gargle, P1 and P2(erasable programme) positions.	
Dentist element or trolley should have five point with Two airotor points, one micromotor with digital display of speed, one piezotronic scaler with 5 scaling tips. With torque wrench to remove tip. One three way syringe. And modular should be of hanging cords, and should be supplied with iopa x ray viewer, on stainless steel tray. and control should have the pressure guage, water volume regulator, air regulator, micromotor controller	Chair should have up and down, backward and forward movement hand and foot control operated.	
foot control should be supplied to operate up and down and backrest to and frow movement. Switch for operating microtor and scaler and airtor.	Seat, backrest rest-synchronized movement and head rest Pneumatic/ manual movement	
Should supply with one airotor handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)	a. Chair should have Minimum & maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	
ceramic replacable bowl /glass should be easy to remove and rotate should be supplied with all the floor box and its fittings so that we can	Base should solid metal with heavy casting. It should have LED based X-ray viewer.	
connect the chari to all the central connections.	It should be provided with rotatable right	
	arm rest (90 degree).  It should be provided with one doctor's stool with back rest and one assistant's stool without back rest with foot ring for foot rest. The base should be of stable metal moving on five wheels with pneumatic movement with level	
	Suitable Oil Free Air Compressor (Medical grade). Tank and dryer. Also built in Thermo cut for excess of heat, Auto head release valve, automatic cut off, safety release valve, & drain valve gauge.	
	Electrical point, water inlet and outlet facility will be provided by hospitals but All consumables required for installation and standardization of system to be given free of cost.	

Contraction and a contract of the contract o				(a) It Should have Dental instrument	<u> </u>
top fitted with minimum 6 and above drawer/Shelves  All the natlet and intel for the services to chair should be conceided in a box at foot area or within the unit for infection control purpose.  The unit shall be capable of operating continuously in normal room temperature.  Complete installation of the system including water input and drainage system, air compressor, required electrical connection has to be installed.  Power supply  i. Equipment shall operate on 220V-240V, 50 Hz. single phase electric supply.  ii. The mains supply voltage variation may be 180-270V and frequency variation may as 180-270V and frequency variation may as 180-270V and frequency variation may. 3 %. The necessary protective shall be there with the machines.  Standards, safety and training:  i. Model Should be US FDA / CE (Issue by Notified body) / BIS approved.  ii. Electrical safety conforms to standards for electrical safety IEC-6604178-13450.  Documentation:  i. User manual in English.  ii. Stervice manual in English.  iii. List of important spare parts and accessories with their part number and costing available in stock with the supplier.  iv. Certificate of calibration and inspection from factory.  v. Log book with instruction for daily, weekly, Monthly and quarterly maintenance checklist.  vi. The job description of the hospital technician and company service engineer should be clearly spelt out. vii. List of Equipment available for providing calibration and routine preventive Maintenance support as per manufacturer documentation in service/ technical Manual.  Oracraft / API/Jaypee  6 Perio Surgical Instruments \$1/2\$ With Cassetts. Should have sharp cutting edge. Certifications-USFDA/FIII Ciffsusued by notified body) approved.					
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edge.Certifications-USFDA/EU CE(isuued by notified body) approved.	_	Oracrait / API/Jaypee	6		O
CE(isuued by notified body) approved.	mistruments set				
	Autoclave	Hot and wet – class -B	3	No Change	3

П	T	1	L	1
	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm +_10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure: 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume - not less than 3.0 L	
	Ambient pressure - +5°∼ +40°		No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	
Ultrasonic cleaner	13 litres	2	No Change	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	
Electro surgical cauatry	Radio frequency cautery unit generating high frequencyalternating AC output.	1	No Change	1
	AC input power 225 W,Power consumption 150 W,HF out put power 200 W,Rated out put frequency3-4 M cycle		No Change	
	Intensity control - 6 settings, Unit wattage - 225 W, output wave formalternating HF Sine wave.		No Change	
Needle burner with syringe cutter	Needle destroyer should have needle burner and motorised syringe cutter with debri collector	4	No Change	4
	Main Input Supply (V, Hz, A) : $230 \pm 10\%$ , $50 \pm 3\%$ Hz, AC/5 A fuse.		No Change	
	Body Material: stainless steel or		No Change	
	ms powder coated  Power consumption of continuous rating, W in use: 100 W.		No Change	
	Type of Electrodes used : Copper Electrode – Nicket plated.		No Change	
	•		•	

n				
	Destruction Rate, Seconds / Needle : 25 Second / Needle.		No Change	
	Thickness & Length of Needle: Recommended: MAX . 1.6 mm Dia, 80 mm Length.		No Change	
	Burning Temperature, deg. C: 1600 C.		No Change	
	Grade of Steel & Guaranteed Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.		No Change	
	Tray capacity No. of Syringes & Needles: 100 pcs.		No Change	
	Safety features provided : Glass Cartilage Fuse.		No Change	
	motorised syringe cutter: with wheel		No Change	
Laser	LASER (SOFT TISSUE)	1	LASER (SOFT TISSUE)	1
	Specification:		Specification: Poratable type, Air cooling, battery back upNot less than 10 Watt, Hand piece: Surgical, Bleaching arch tip, Bio-stimulation (TMJ treatment), Certifications-US FDA/EU CE(issued by notifed body) approved	
	General		No Change	
	*Dimensions: 5.7 in (W) x 4.4 in (H) x 6.5 in (L)		No Change	
	*Weight : 2kg or lesser		No Change	
	* Must be portable & password protected		No Change	
	* Must have a battery backup ( Liion )		No Change	
	* Air cooling system for diode		No Change	
	* colour LCD display of minimum 3inch & micro touch panel Electrical		No Change	
	*Operating Voltage : 100V+-10% and 230V +-10%~ at 2A *Frequency : 50-60 Hz		No Change	
	*External Fuses : None		No Change	
	*Main Control : Power Switch		No Change	
	*On/Off Controls : Control Button,Emergency Stop		No Change	
	*Remote Interruption : Remote Interlock		No Change	
	* Saftey compliance : CE 0197 Laser		No Change	
	*Laser Classification : IV(4)		No Change	
	*Operating System : Microprocessor based Software		No Change	
	*Medium : InGaAsP *wavelength : 940+-10nm / 980+-10nm *Max Output Power : 10 Watts		No Change	
	*Power Accuracy : +-20% *Power Modes : Continues, single & Repeated pulse Modulation		No Change	

П				
	*Hand piece : Surgical, Bleaching arch tip, Bio-stimulation ( TMJ treatment )		No Change	
	*Pulse Duration : 0.01 ms -10 sec		No Change	
	*Pulse Interval : 0.01 ms - 10 sec		No Change	
	*Pulse Repetition rate : Up to 20KHz(fro reference)		No Change	
	*Fibre Tips Diameter : 200,300,400um		Fiber Tip-200,300,400	
	* Fiber connector: SMA 905		Fiber connector	
	*Spot Size: Surgical Handpiece: Maximum 400um Deep Tissue handpiece: 30 mm diameter=7.1 cm sq area Whitening Handpiece: Rectangular 35mm x 8 mm =2.8 cm ( Arch type )		Eye protection gogles-03 no	
	*NOHD : 4.77 meters		No Change	
	*Beam Divergence : 8-22 degree per side angle *Standard Fiber Cable Length : 5 feet (1.524 meters)		No Change	
	*Feed-Through Fiber Cable Length: 8 feet (2.438 meters) Other Light Source		No Change	
	*Aiming Beam : Laser Diode, max 4mW, 650 nm+-10nm, Adjustable brightness		No Change	
Physio dispenser with Implant kit	Designed specially for oral surgery and Implant work, generating 210 watt power and 50 Ncm torque, speed range of 2000-40,000 range per minute. should be foot operated conforming to IPX8 standards and should be certified for OT use.	1	No Change	1
	contrangle should be supplied with hand piece 20:1, irrigation tubc.		No Change	
X ray viewer (Extra Oral)		2	LED type,single	2
Hand scaler supra gingival	Oracraft/API/Jaypee	10	Should have sharp edges, Certification- US FDA/EU CE(issued by notified body) approved	10
Set of Curettes	Oracraft/API/Jaypee	2	Should have sharp edges, Certification- US FDA/EU CE(issued by notified body) approved	2
Periodontal surgery kit	Oracraft/API/Jaypee	3	Should have sharp edges, Certification- US FDA/EU CE(issued by notified body) approved	3
Electro cautary		1	Delete	1
	DEPARTMENT OF ORTHODONTICS	_		
Dental chair and unit	Dental chair mount unit	18		18
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	

	seat, back rest and head rest are	It should have two high speed Air Rotor	
	thickly cushioned and covered with	terminal with water control on coupling	
	seamless rexine.	supplied with Hand piece.	
	Seame of Termine.	supplied with right process	
	Dental operating light with Led	Brushless micro motor (35,000 rpm or	
	should give 30000 lux, on, off, and	higher) terminal having straight and	
	intensity control by non touch sensor	contra angle hand pieces.	
	Ceromic or glass spittoon with auto	It should have Ultrasonic Scaler with 5	
	water connection for spittoon and	scaleing tips and one set of perio-curette	
	tumbler by switch, the spittoon	tips.	
	should be moveable towards		
	patientto be used during gorgle		
	position		
	should have the pu moulded /	All hand pieces /terminals should be	
	cushioned handle and right arm	kept on Autoclavable & 6 spare	
	moveable for easy access for the	autoclavable pads should be supplied	
	patient	(over hanganging).	
	head rest should be articulated with	It should have movable latest LED Light	
	height variation and with twin joint	with glass reflector ON/OFF, intensity	
	to adjust for required patient	control, Detachable, autoclavable,	
	position, with penumatic locking	handle, Minimum 28,000 Lux or higher	
		at 80 cm distance.	
	Chair should achive the lowest and	It should have light cure unit.	
	maximum height required for the		
	patient ingress and dentists operation		
	by Electrically operated actuators		
	Assistant side control should have	 It should have high and low vacuum	
	high vacuum and saliva ejector	motorized suction with auto drain and	
	connected to motorised suction.	auto flush motorized suction should have	
	With individual filter and with a	minimum volume of 250 Itrs/min and	
	minimum of 300 ltrs of aerosol	provision for disinfected air exhaust.	
	displacement.	provision for disinfected an exhaust.	
	displacement.		
	one three way syringe and one light	It should have auto zero, gargle, P1 and	
	cure unit with light guide with	P2(erasable programme) positions.	
	shield. With variable modes of	, , , r	
	intensity . Should have intensity		
	of1200 mwcm2		
	Dentist element or trolley should	Chair should have up and down,	
	have five point with Two airotor	backward and forward movement hand	
	points ,one micromotor with digital	and foot control operated.	
	display of speed, one piezotronic		
	scaler with 5 scaling tips. With		
	torque wrench to remove tip. One		
	three way syringe. And modular		
	should be of hanging cords, and		
	should be supplied with iopa x ray		
	viewer, on stainless steel tray. and		
	control should have the pressure		
	guage, water volume regulator, air		
	regulator. micromotor controller		
	foot control should be supplied to	Seat, backrest rest-synchronized	
	operate up and down and backrest to	movement and head rest Pneumatic/	
	and frow movement. Switch for	manual movement	
	operating microtor and scaler and		
	airtor.		
<u> </u>	]		

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	Should supply with one airotor	a. Chair should have Minimum &	
	handpiece, one micromotor	maximum height 360mm & 700mm.	
	contrangle handpiece, and one	b Unit should have removable axillary	
	straight handpiece of branded(kavo,	tray (stainless steel), transparent water	
	NSK, Bien air, W & H)	booster.	
	ceramic replacable bowl /glass	Base should solid metal with heavy	
	should be easy to remove and rotate	casting.	
	should so easy to remove and retails	- Laborate Grand Control of the Cont	
	should be supplied with all the floor	It should have LED based X-ray viewer.	
	box and its fittings so that we can		
	connect the chari to all the central		
	connections.		
		It should be provided with rotatable right	
		arm rest (90 degree).	
		<u> </u>	
		It should be provided with one doctor's	
		stool with back rest and one assistant's	
		stool without back rest with foot ring for	
		foot rest. The base should be of stable	
		metal moving on five wheels with	
		pneumatic movement with level	
		Suitable Oil Free Air Compressor	
		(Medical grade). Tank and dryer. Also	
		built in Thermo cut for excess of heat,	
		Auto head release valve, automatic cut	
		off, safety release valve, & drain valve	
		gauge.	
		Electrical agent system in letter describe	
		Electrical point, water inlet and outlet	
		facility will be provided by hospitals but	
		All consumables required for installation	
		and standardization of system to be	
		given free of cost.	
		(a) It Should have Dental instrument	
		cabinet with acid and fire resistant table	
		top fitted with minimum 6 and above	
		drawer/ Shelves	
		All the outlet and inlet for the services to	
		chair should be concealed in a box at	
		foot area or within the unit for infection	
<del>                                     </del>		control purpose.	
		The unit shall be capable of operating	
		continuously in normal room	
		temperature.	
		Complete installation of the system	
		including water input and drainage	
		system, air compressor, required	
		electrical connection has to be installed.	
		Power supply	
		i. Equipment shall operate on 220V-	
		240V, 50 Hz, single phase electric	
		supply.	
		ii. The mains supply voltage variation	
		may be 180-270V and frequency	
		variation max. 3 %. The necessary	
		protective shall be there with the	
		machines.	
1		Standards, safety and training:	
		•	
		i. Model Should be US FDA / CE (Issue	
		by Notified body) / BIS approved.	
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		1	ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and accessories with their part number and costing available in stock with the supplier.	
			iv. Certificate of calibration and inspection from factory.	
			v. Log book with instruction for daily, weekly, Monthly and quarterly maintenance checklist.	
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			vii. List of Equipment available for providing calibration and routine preventive Maintenance support as per manufacturer documentation in service/technical Manual.	
Unit mount scaler	Main unit ith detachable hand piece ,Power out put 3W to 20 W , Frequency 28 KHz, Water supply pressure 0.01.Mpato 0.05MPa	5	No Change	5
Autoclave	Hot and wet – class -B	2	No Change	2
	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm + 10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure: 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume - not less tha 3.0 L	
	Ambient pressure - +5°∼ +40°		No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	1
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	

Ultrasonic cleaner	13 litres	2	No Change	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	
	I Lab		No Change	
Plaster dispenser	One each for plaster and stone plaster	2	No Change	2
	High Frequency Dispenser.		No Change	
	High quality rubber bucket for storing Plaster.		No Change	
	• Dispenses plaster in total powder form.		No Change	
	• Bottom lever starts and stops flow of plaster instantly.		No Change	
Viberator	Works effectively for pouring bubble free models.	2	No Change	2
	• 3 Steps of Vibration- Low, Medium and High.		No Change	
	• Non sticky superior rubber, easy to remove and clean.		No Change	
	• Ideal for Institutions, Dental Laboratories and clinics.		No Change	
Model trimmer	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	2	No Change	2
	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Micromotor Lab	Brushless Lab Micromotor With Hand Piece 50,000 RPM	4	No Change	4
			No Change	
Lathe	• Heavy duty, continuous rating, vibration-free, low noise lathe used for polishing and trimming.	2	No Change	2
	Dual working sides.		No Change	
	• Supplied with drill chuck, buffing cone and grinding stone.		No Change	
	Dust proof motor.		No Change	
	• 2800 rpm.		No Change	
X Ray viewer		2	LED,Duoble View	2
Welders	Pulse Welder with Digital Timer Accuracy 0.01 to 1.0 Sec	4	No Change	4
	LED base five different welding temperature settings.	_	No Change	
	Both welding and soldering operation in one unit.		No Change	

	All switches on front panel for easy		No Change	
	operation.		-	
	Perfectly matching electrodes in 4 different shapes		No Change	
Blue torch		1	Blow Torch	1
Base Formers		4	Lab Base Former Kit to be used to make diagnostic casts and it very easily separated from the stone models.	4
Typhodont	Nissin type	4	typodont with 32 teeth	4
Set of Plyers	Oracraft /API Jaypee	10	NC	10
			Boon's Gauge, Band Pusher, Band Seater, Boley,10 each	
			Gauge, Height Gauge Wire Twister (15cm) (TC)-10 each	
			Wire Twister -10 nos	
Welder with soldering	Pulse Welder with Digital Timer Accuracy 0.01 to 1.0 Sec	1	No Change	1
attachments	LED base five different welding temperature settings.		No Change	
	Both welding and soldering operation in one unit.		No Change	
	All switches on front panel for easy operation.		No Change	
	Perfectly matching electrodes in 4 different shapes		No Change	
Hydro solder		1	Hydro Solder for dental soldering operations.	1
			Fine pointed blue flame.	
			Built-in non-return valve and flashback arrestor.	
			Seamless pressure tank.	
			Auto cutoff prevents excess gas generation.	
			Generates gas when needed minimum stored gas.	
			Flame size can be adjusted from the regulator on the torch.	
			Gas generation can be regulated by a power knob.  Easily available hypodermic needles can	
			be used as tips for flame size adjustment.  Flashback arrestor and nonreturn value.	
			Flame size can e regulated from the torch gas regulator.	
			it should be Easy to maintain and use. Should supply the liquids required	
Typhodont articulator		4	Robust structure, assuring greater stability. Design that provides greater visibility	4
			Semi-adjustable / Arcon Type	

	T		Fixed Intercondylar distance at the	
			average 110 mm	
			Condylar Guide set at the average of 30°	
			Bennet angle set at the average of 15°	
			Curved Condylar Guide	
			Built-in Magnetic Stabilization System for the Condylar Guide Movement	
			Pin to support the Upper Frame at the open position	
			Innovative Central Lock	
			1 Set :	
			Articulator - 1 no	
			Allen Screw - 1 no	
			Support Pin upper Frame - 1 no	
			Mounting Plate Knob - 1 no	
Pressure moulding		1	thermo forming machine with plates	1
machine		1	therme forming machine with places	1
soldering torch		1	soldering torch hand held	1
spot welder		1	Pulse Welder with Digital Timer Accuracy 0.01 to 1.0 Sec	1
	Department of Paediatrics and Preventive Dentistry			
Dental chair and unit	Dental chair mount unit	20	Dental chair mount unit(40% are Paediatric Chairs out of 20 units_	20
	Body contoured electrically operated pantographic dental chair seat, back rest and head rest are thickly cushioned and covered with		It should have two 3 way syringes (tip autoclave), with 3 spare tips.  It should have two high speed Air Rotor terminal with water control on coupling	
	seamless rexine.		supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	

,			,
Assistant side con high vacuum and connected to moto With individual fi minimum of 300 displacement.	saliva ejector orised suction. Iter and with a	It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.  It should have auto zero, gargle, P1 and	
cure unit with ligh shield. With varia intensity . Should of1200 mwcm2	nt guide with ble modes of	P2(erasable programme) positions.	
tip. One three way modular should be and should be sup ray viewer, on sta and control should guage, water volu regulator. microm	ith Two airotor comotor with speed, one r with 5 scaling wrench to remove y syringe. And e of hanging cords, plied with iopa x inless steel tray. d have the pressure me regulator, air notor controller	Chair should have up and down, backward and forward movement hand and foot control operated.	
foot control shoul operate up and do and frow moveme operating microto airtor.	wn and backrest to ent. Switch for	Seat, backrest rest-synchronized movement and head rest Pneumatic/ manual movement	
Should supply win handpiece, one mi contrangle handpi straight handpiece NSK, Bien air, W	icromotor lece, and one e of branded(kavo,	a. Chair should have Minimum & maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	
ceramic replacabl should be easy to	e bowl /glass remove and rotate	Base should solid metal with heavy casting.	
should be supplied box and its fitting connect the charic connections.		It should have LED based X-ray viewer.	
		It should be provided with rotatable right arm rest (90 degree).	
		It should be provided with one doctor's stool with back rest and one assistant's stool without back rest with foot ring for foot rest. The base should be of stable metal moving on five wheels with pneumatic movement with level	
		Suitable Oil Free Air Compressor (Medical grade). Tank and dryer. Also built in Thermo cut for excess of heat, Auto head release valve, automatic cut off, safety release valve, & drain valve gauge.	
		Electrical point, water inlet and outlet facility will be provided by hospitals but All consumables required for installation	

M				,
			and standardization of system to be	
			given free of cost.	
			(a) It Should have Dental instrument	
			cabinet with acid and fire resistant table	
			top fitted with minimum 6 and above	
			drawer/ Shelves	
			All the outlet and inlet for the services to	
			chair should be concealed in a box at	
			foot area or within the unit for infection	
			control purpose.	
			The unit shall be capable of operating	
			continuously in normal room	
			temperature.	
			Complete installation of the system	
			including water input and drainage	
			system, air compressor, required	
			electrical connection has to be installed.	
			Power supply	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
			may be 180-270V and frequency	
			variation max. 3 %. The necessary	
			protective shall be there with the machines.	
			macnines.	
			Standards, safety and training:	
			i. Model Should be US FDA / CE (Issue	
			by Notified body) / BIS approved.	
			ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and	
			accessories with their part number and	
			costing available in stock with the	
			supplier.	
			iv. Certificate of calibration and	
			inspection from factory.	
			v. Log book with instruction for daily,	
			weekly, Monthly and quarterly	
			maintenance checklist.	
			I control of the cont	
			vi. The job description of the hospital	
			technician and company service	
			engineer should be clearly spelt out.	
		+	vii. List of Equipment available for	
			providing calibration and routine	
			preventive Maintenance support as per	
			manufacturer documentation in service/	
			technical Manual.	
Autoclaves	Hot and wet – class -B	2	No Change	2
1			1	I

	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm(23L) +_ 10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure : 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume - 3.5L+_10%	
	Ambient pressure - +5° ~ +40°		No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	
Ultra sonic cleaner	13 litres	2	13 litres minimum	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	
Needle burner with syringe cutter	Needle destroyer should have needle burner and motorised syringe cutter with debri collector	3	No Change	3
	Main Input Supply (V, Hz, A) : $230 \pm 10\%$ , $50 \pm 3\%$ Hz, AC/5 A fuse.		No Change	
	Body Material : stainless steel or ms powder coated		No Change	
	Power consumption of continuous rating, W in use: 100 W.		No Change	
	Type of Electrodes used: Copper Electrode – Nicket plated.		No Change	
	Destruction Rate, Seconds / Needle : 25 Second / Needle.		No Change	
	Thickness & Length of Needle: Recommended: MAX . 1.6 mm Dia, 80 mm Length.		No Change	

	Burning Temperature, deg. C:		No Change	
	1600 C.  Grade of Steel & Guaranteed Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.		No Change	
	Tray capacity No. of Syringes & Needles: 100 pcs.		No Change	
	Safety features provided : Glass Cartilage Fuse.		No Change	
	motorised syringe cutter: with wheel		No Change	
Amalgammotor		1	The amaglam mixer is used for mxing and accurate portioning of mercury & silver tin powder until they have bonded, the time of mixing should be adjused from 1 to 60 seconds, the unit should supply with capsule operating device.	1
Pulp tester digital		1	DIGITAL PULP TESTER high frequency tip detachable, digital display	1
Rubber Dam Kit for Pedo	Oracraft / API / Jaypee	5	Dental Dam Kit ,Pedatric	5
Apex locator	High-precision root canal measurement generated by using Smart Logic	1	No Change	1
	Auto-detects the apex accurately in any conditions, dry or wet		No Change	
	A stylish and compact body consuming very small space		No Change	
	Three different alert sounds depending on the location of the file tip, ensuring precise procedures		No Change	
	A three-colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress		No Change	
	Energy saving and low operation cost		No Change	
	Control unit		No Change	
	Probe (1.8m)		No Change	
	File Clip (3 pcs.)		No Change	
	Lip Hook (3 pcs)		No Change	
	AAA Manganese Dry Batteries (3 pcs.)		No Change	
	Tester		No Change	
Endo Motor	Endo Micromotor with Torque Control And Auto Reverse	1	No Change	1

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	Smart enough to memorise exact speed and torque settings for up to 9 Ni-Ti files. Its auto-reverse features 3 working modes – auto-reverse on, auto-stop, auto-reverse off. The motor reacts when load reaches the preset level of torque. With on-off switch, it offers flexibility of pedalfree operation (optional foot control unit available), while providing convenience of full portability with two-way power supply, either AC or battery driven.		No Change	
	Operative with AC Adapter		No Change	
	Auto Reverse Function, 9 programs		No Change	
	With Rechargeable Battery Back-up		No Change	
	Control unit		No Change	
	Adaptor - 1 no		No Change	
	Motor Cord & MP Handpiece		No Change	
	Motor stand		No Change	
	Spray nozzle - 1no		No Change	
Injectable Guttapurcha with condensation		1	Cord less obturator which Should have both cutter and filling instruments with battery operated	1
RVG	chip type APS CMOS	1	No Change	1
	pixcel size 20Um		No Change	
	active area 20x30 mm		No Change	
	signal out put USB		No Change	
	Theoritical resolution 25lp/mm		No Change	
	imaging time 3-4 s		No Change	
	true line pair resolution as 14 lp/mm		No Change	
			With Computer, printer placed at Trolly	
Intra Oral camera	sony 1/4* CCD Providing high resolution 811X508, auto focus operation 5mm to infinity,mini monitor on hand pieceto diagnoise	1	No Change	1
	and freez image,hand piece having storage of 60 images		No Change	
Scaling instruments	Oracraft / API / Jaypee	10	Complete scaling instrument kit(approx 10-12 insturments)	10
Restorative Instruments	Oracraft / API / Jaypee	10	Complete scaling instrument kit(approx 12-15) insturments)	10
Extraction forceps pedo	Oracraft / API / Jaypee	10	Set of Extraction forceps pedo different size (7-10 nos)	10
Intra oral x ray	Dental X-Ray Unit 70 KV – DC X Ray	1		1

П	11.0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T
	Light and compact, all function are		1. Intra oral X-ray unit should be DC	
	integrated in the mono bloc, The monobloc with constant potential		based. (7-10mA/65-70 KVa) with option for wall mount.	
	reduces significantly the quantity		for wan mount.	
	compared to normal radiographic.			
	Low energy noxious radiations are			
	almost completely to be elimated,			
	should get high definition images,			
	both in traditional mode and digital			
	and phosphorous system, protecting			
	patient health.			
			2. X-ray unit should be supplied with	
			lead apron-01nos., thyroid collar-01nos.	
	TECHNICAL DATA		3. Power input to be 220-240VAC,	
	TECHNICAE DATA		50Hz fitted with Indian plug	
	Datad algetrical mayron			
	Rated electrical power : 0,800KW		4 Servo Voltage stabilizer of appropriate ratings for X-ray machine.	
			11 1 0	
	High frequency technology		5. Dental X ray should be - USFDA	
	: 100 KHZ		(510 K)/ European CE (Issued by	
			notified body) & AERB approved model	
	A 1		should be offered.  Deleted	
	Absorption : 6A		Deleted	
	Focal spot		Deleted	
	: 0.7mm IEC 336			
	Dia of long cone at end of space		Deleted	
	: 6cm			
	Total filtration		Deleted	
	: 2mmAl			
	Selectrabyle anodic current : 4-7mA		Deleted	
	Selectable voltage to X-Ray tube		Deleted	
	: 60-70 KVP			
	Dispersed radiation: < 0.25mGy/h		Deleted	
	a 1 meter from focus 1			
	Exposure time : 0.020 –		Deleted	
	1.000mS Scala R10			
	Dower supply 100 24037		Deleted	
	Power supply : 190-240V 50Hz		Defeted	
	Intermittent operation : 1/30		Deleted	
	1s exposure 30S reset max			
	Distance : FF.20 CM		Deleted	
	Fuse : F6,3 At		Deleted	
RCT Instrument	Mani japan Instruments	5	RCT Instrument kit-Protaper	5
kits			SX,S1,S2,F1,F2.F3(SET OF 6), Protaper	
			DI,D2(SET OF 6) ,2% files	
Automoti	+	1	Automotic man Development I in 1	1
Automatic		1	Automatic x ray Developer: to be used	1
developer			for intra oral and perriapical films it should be suitable for all the intra orals	
			films, temperature controlled heating. It	
			should develop upto 8 films per five	
			minutes	
	Pedo Lab		No Change	
	1 odo Luo		110 Change	

			Table 20	
Plaster dispenser	One each for plaster and stone plaster	2	No Change	2
	High Frequency Dispenser.		No Change	
	• High quality rubber bucket for storing Plaster.		No Change	
	• Dispenses plaster in total powder form.		No Change	
	• Bottom lever starts and stops flow of plaster instantly.		No Change	
Model trimmer with	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
Diamond disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	• Adjustable work table for accurate trimming.		No Change	
Model disc with	• Ergonomically designed most powerful, low noise, smooth running motor, 2,800 rpm.	1	No Change	1
Carbadoium disc	Precision water flow control valve.		No Change	
	Aluminum, non-rusting body.		No Change	
	Imported grinding wheel.		No Change	
	Adjustable work table for accurate trimming.		No Change	
Welder with soldering	Pulse Welder with Digital Timer Accuracy 0.01 to 1.0 Sec	1	No Change	1
attachmetn	LED base five different welding temperature settings.		No Change	
	Both welding and soldering operation in one unit.		No Change	
	All switches on front panel for easy operation.		No Change	
	Perfectly matching electrodes in 4 different shapes		No Change	
Viberator	• Works effectively for pouring bubble free models.	2	No Change	2
	• 3 Steps of Vibration- Low, Medium and High.		No Change	
	• Non sticky superior rubber, easy to remove and clean.		No Change	
	• Ideal for Institutions, Dental Laboratories and clinics.		No Change	
Lab micromotor heavy duty with hand piece	Brushless Lab Micromotor With Hand Piece 50,000 RPM	3	No Change	3
Dental Lathe	Heavy duty, continuous rating motor.	1	No Change	1
	Well balanced bearing for smooth work.		No Change	
	•to be Supplied with different attachments.		No Change	
	• 1,400/2,800 rpm		No Change	

Steam Cleaner	Steam generator built in	1	No Change	1
	compliance with international safety regulations.			
	A simple easy to operate steam cleaner with safety valve and high volume water holding tank with water level indicator.		No Change	
	• 3 – 4 bar constant pressure.		No Change	
	Convenient foot control.		No Change	
	Handy gun with flexible hose.		No Change	
Pressure moulding Machine		1	thermo forming machine with plates	1
	Department of oral Medicine and Radiology			
Dental chair and unit	Dental chair mount unit	12		12
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	
	Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor		Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
	Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position		It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
	should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient		All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
	head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking		It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
	Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators		It should have light cure unit.	
	Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.		It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	
	one three way syringe and one light cure unit with light guide with shield. With variable modes of intensity . Should have intensity of 1200 mwcm2		It should have auto zero, gargle, P1 and P2(erasable programme) positions.	

	Dentist element or trolley should		Chair should have up and down,	
	have five point with <b>Two airotor</b>		backward and forward movement hand	
	points ,one micromotor with		and foot control operated.	
	digital display of speed, one			
	piezotronic scaler with 5 scaling			
	tips. With torque wrench to remove			
	tip. One three way syringe. And			
	modular should be of hanging cords,			
	and should be supplied with iopa x			
	ray viewer, on stainless steel tray.			
	and control should have the pressure			
	guage, water volume regulator, air			
	regulator. micromotor controller			
	foot control should be supplied to		Seat, backrest rest-synchronized	
	operate up and down and backrest to		movement and head rest Pneumatic/	
	and frow movement. Switch for		manual movement	
	operating microtor and scaler and		mandar movement	
	airtor.			
	Should supply with one airotor		a. Chair should have Minimum &	
	handpiece, one micromotor		maximum height 360mm & 700mm.	
	contrangle handpiece, and one		b Unit should have removable axillary	
	straight handpiece of branded(kavo,		tray (stainless steel), transparent water	
	NSK, Bien air, W & H)		booster.	
	ceramic replacable bowl /glass		Base should solid metal with heavy	
	should be easy to remove and rotate		casting.	
	should be easy to remove and rotate		Casting.	
	should be supplied with all the floor		It should have LED based X-ray viewer.	
			it should have LED based A-ray viewer.	
	box and its fittings so that we can			
	connect the chari to all the central			
	connections.			
			It should be provided with rotatable right	
			arm rest (90 degree).	
			It should be provided with one doctor's	
			stool with back rest and one assistant's	
			stool without back rest with foot ring for	
			foot rest. The base should be of stable	
			metal moving on five wheels with	
	<del> </del>		pneumatic movement with level	
			Suitable Oil Free Air Compressor	
			(Medical grade). Tank and dryer. Also	
			built in Thermo cut for excess of heat,	
			Auto head release valve, automatic cut	
			off, safety release valve, & drain valve	
			gauge.	
			Electrical point, water inlet and outlet	
			facility will be provided by hospitals but	
			All consumables required for installation	
			and standardization of system to be	
			given free of cost.	
			(a) It Should have Dental instrument	
			cabinet with acid and fire resistant table	
			top fitted with minimum 6 and above	
			drawer/ Shelves	
			All the outlet and inlet for the services to	
			chair should be concealed in a box at	
			foot area or within the unit for infection	
			control purpose.	
			The unit shall be capable of operating	
			continuously in normal room	
ii .		Ī	temperature.	

	<del></del>			1
			Complete installation of the system	
			including water input and drainage system, air compressor, required	
			electrical connection has to be installed.	
			Power supply	
			11.7	
			i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation may be 180-270V and frequency	
			variation max. 3 %. The necessary	
			protective shall be there with the	
			machines.	
			Standards, safety and training:	
			i. Model Should be US FDA / CE (Issue	
			by Notified body) / BIS approved.	
			ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	
			ii. Service manual in English.	
			iii. List of important spare parts and	
			accessories with their part number and	
			costing available in stock with the	
			supplier.	
			iv. Certificate of calibration and	
			inspection from factory.	
			v. Log book with instruction for daily, weekly, Monthly and quarterly	
			maintenance checklist.	
			vi. The job description of the hospital	
			technician and company service	
			engineer should be clearly spelt out.	
			vii. List of Equipment available for	
			providing calibration and routine	
			preventive Maintenance support as per	
			manufacturer documentation in service/ technical Manual.	
Danaramia V Dan	orthopantomogram with	1	technical Manual.	1
Panoramic X Ray with	cephalogram should be	1		1
Cephalometry	cepharogram should be			
AERB certified				
ALIND CEITHEU	TECHNICAL SPECIFICATIONS:		OPG X-Ray Machine should be AERB	
	The inverse of her iterations.		(Atomic Energy Regulatory Board)	
			Certified Control of the Control of	
	IMAGES		Should available as floor standing with	
	2D		wall anchoring	
	Туре		Should centralized control system	
	Complete or partial adult and child		.,	
	panoramic*,			
	Orthogonal Panoramic, SPEED		Should be easy and fast patient	
	PAN, MultiLevel PAN,		positioning with three positioning laser	
			light	

П	T	
	Dentition, Bitewing* Frontal and	Should have DEC Dynamic Digital
	Lateral (right and	Exposure
	left) maxillary sinuses,	Should constant potential micro-
	Temporomandibular Joint(2x	processor controlled resonance made X-
	Temporomandibular John(2x	-
	L 1 2 F 1	Ray generator
	Lateral + 2 x Frontal) open and	Should have very high operating
	closed mouth.	frequency
	Teleradiography: Skull AP-PA, LL	Should have exposures parameters range
	Short/Long,	optimized for digital imaging 2-7
		mA/60-80 KV
	Standard/Quick; Carpal	Should automatic cooling control
	teleradiography	
	(Maximum) theoretical resolution	Should have using user friendly
	2D: 5-7 lp/mm (pixel 100-73 μm)	graphical user interface on a computer
		and from the console on the machine
		itself
	on the patient plane	The software must be user friendly. All
	CEPH: 6 lp/mm (Pixel 89 µm)	the parameters like KV, mA should be
		selectable
	Maximum image data dimensions	Exposure time should be in between
	PAN: 7.5 MB (single image) &	around 2 to 14 secs. Depending upon
	CEPH: 14 MB	the patient's
	Magnification	type and programmer selection
	PAN 1.2 - 1.3 & CEPH 1.13	type and programmer servens.
	Scan time	Should have various positioning
	PAN: 13.8 s (ORTHO), 12.3 s	accessories like standard bite block
	(STD.), 6.8 s (Speed)	edentulous hie blocks. Panoramic chin
	(51D.), 0.0 s (speed)	rest. TMJ Nose rest sinos chin rest
	CEPH: 9.9 s (STD) - 3.7 s (Speed)	Should have DICOM compatible unit
	CEI II. 9.9 8 (STD) - 5.7 8 (Speed)	
	Estimate of typical effective dose	Should have Universal power input
	(ICRP 103) PAN: 5 - 9 μSv	including power factor corrector, mains
		voltage fluctuations automatically
		compensated, Should have automatic
		primary collimator. Should have
		optimized image geometry and constant
		magnification
	Minimum image display times	Sensor should have high resolution
	RealTime	CMOS sensors with protective optical
		fibre layer for protection and longevity
		of the sensor and have small and
		adjustable panel size, Ethernet
		connection to computer sensor should
		have low radiation dose & also attached
		cephelomarty and extra oral radiograph
	Advanced filters	Radiology examination to be possible
	iES (Image Enhancement System)	as-
	PAN autoFocus	
	2D VERSION - X-RAY	-Full Panoramic Adult and child.
	GENERATOR:	-i un i anoranne Adult and Child.
		Sagmented panaramia
	Generator type	-Segmented panoramic.
	Constant potential (DC)	
	Anode voltage 2D: 60-85 kV	-Lateral TMJ -2 views
	continuous emission	
	Commuous chinosion	
	2D 70 kV: 60-70	-Lateral TMJ-4 views
	kV continuous emission	
	K v Colluliuous elliission	l l

П	<del>,</del>	
	Anode current	-Maxillary sinus.
	4 mA - 15mA	
	Focal spot	Desirable Features:
	0.5 mm (IEC 60336)	
	Exposure Control	Should have advanced programme like
	Automatic. X-Safe Technology	orthogonal panoramic, double laeral
		PATMJ, Lateral 3 angles TMJ, Left &
		right, Lateral Sinus programmer
	Maximum continuous anode	Should have wide range of image
		processing and enhancement tools
	input power	Should have fast data link of image
	42W (1:20 at 85kV/10mA)	transfer
	Inherent filtration	Physical space requirement:
	> 2.5 mm Al eq. (at 85 kV)	r nysicai space requirement.
	_	
	DETECTOR 2D PAN & CEPH:	Width: Atleast between 50-60 in (around
		1500 mm) Depth: Atleast between 50-70
		in (around 1950 mm) Height: Atleast
	Detectors	between 70-95 in (around 2500 mm)
	Detector type CMOS (CSI)	Technical Specification:
	Dynamic range	Generator From 40 Khz to 100KHz or
	14 bit (16384 grey levels)	above.
	Height PAN:	Focal spot size: 0.5 mm as per IEC
	148 mm	standards.
	CEDII	A 1 V 1 CO 00 VV 1 2 VV
	CEPH: 223 mm	Anode Voltage: 60-90 KV in 1-2 KV
	223 111111	steps
		Anode current: 2-15mA
		Exposure compensation: Automatic
		Exposure control
		Total filtration min: Equivalent to
		2.5mm A/1 or more
		Magnification of panoramic exposure: 1.22 - 1.29
		Duty Cycle: 1:2 at full power operation
		Exposure time: 2-14 sec.
		Weight: Light weight upto 115kg.
		Active Area CMOS sensor; 145-lS0x 5-
		7mm (Standard
		PAN)
		US FDA / European CE /BIS Approved
		model should be offered
		Suitable online UPS with commensurate
		capacity for Enter unit (OPG, Computer
		& Laser printer) with maintenance free
		batteries for minimum one-hour back-
		up should be supplied
Î		PC Requirement:

			_	
			Computer be intel dual or core 2 due processor with 1 TB Hard Disk. Graphic card 8GB RAM with operating system of Window XP or Window 7 multimedia with drives or DVD ROM +writer	
			UPS requirement for supporting above system should have 3 KVA online	
			Printer: DICOM/ Dipro printer should be provided	
Intra Oral x ray unit AERB certified	Dental X-Ray Unit 70 KV – DC X Ray	3		3
	Light and compact, all function are integrated in the mono bloc, The monobloc with constant potential reduces significantly the quantity compared to normal radiographic.  Low energy noxious radiations are almost completely to be elimated, should get high definition images, both in traditional mode and digital and phosphorous system, protecting patient health.		1. Intra oral X-ray unit should be DC based. (7-10mA/65-70 KVa) with option for wall mount.	
			2. X-ray unit should be supplied with lead apron-01nos., thyroid collar-01nos.	
	TECHNICAL DATA		3. Power input to be 220-240VAC, 50Hz fitted with Indian plug	
	Rated electrical power : 0,800KW		4 Servo Voltage stabilizer of appropriate ratings for X-ray machine.	
	High frequency technology : 100 KHZ		5. Dental X ray should be - USFDA (510 K)/ European CE (Issued by notified body) & AERB approved model should be offered.	
	Absorption : 6A		Deleted	
	Focal spot : 0.7mm IEC 336		Deleted	
	Dia of long cone at end of space : 6cm		Deleted	
	Total filtration : 2mmAl		Deleted	
	Selectrabyle anodic current : 4-7mA		Deleted	
	Selectable voltage to X-Ray tube : 60-70 KVP		Deleted	
	Dispersed radiation : < 0.25mGy/h a 1 meter from focus 1		Deleted	
	Exposure time : 0.020 – 1.000mS Scala R10		Deleted	
	Power supply : 190-240V 50Hz		Deleted	
	Intermittent operation : 1/30 1s exposure 30S reset max		Deleted	
	Distance : FF.20 CM		Deleted	
	Fuse : F6,3 At		Deleted	

Pulp tester digital	1	3	DIGITAL PULP TESTER high	3
ruip testei digitai			frequency tip detachable, Battary	3
			operated, digital display, multiple tooth	
			attachment minimum 03 nos.,	
Auto matic		1	Automatic x ray Developer: to be used	1
periapical			for intra oral and perriapical films it should be suitable for all the intra orals	
			films(size no 0,1,2,3, & 4) temperature	
			controlled heating. It should develop	
			upto 8 films per five minutes	
x ray developer			Mannual developing-All sizes tank(not	
			less 8.0 lit) including master tank with chemicals 1 time use.	
X Ray viewer for		2	LED type ,single film	2
pan / Ceph		_		
RVG	chip type APS CMOS	1	No change	1
	pixcel size 20Um		No change	
	active area 20x30 mm		No change	
	signal out put USB		No change	
	Theoritical resolution 25lp/mm		No change	
	imaging time 3-4 s		No change	
	true line pair resolution as 14 lp/mm		No change	
			with computer, printer on trolly.	
Intera oral camera	sony 1/4* CCD Providing high	1	No change	1
	resolution 811X508, auto focus operation 5mm to infinity,mini			
	monitor on hand pieceto diagnoise			
	and freez image, hand piece having		No change	
	storage of 60 images			
Gen X Ray Unit	Dental X-Ray Unit 70 KV – DC X		General X Ray Unit(Floor mounted)	
	Ray		V.D. G	
	Light and compact, all function are integrated in the mono bloc, The	1	X-Ray Generator:	1
	monobloc with constant potential			
	reduces significantly the quantity			
	compared to normal radiographic.			
	Low energy noxious radiations are			
	almost completely to be elimated, should get high definition images,			
	both in traditional mode and digital			
	and phosphorous system, protecting			
	patient health.AERB approved		A High frequency V Day concretor	
			A. High frequency X-Ray generator  B. Inverter frequency – 20 KHz or more	
			C. Output power 30KW or more.	
			D. KV Range – 40 to 125KVp	
			E. mA range- upto 300 mA or more	
			F. 3300mA @ 80 KV or better	
			G. mAs range – 2 to 200 mAs or more	
			X-Ray tube:  A. Rotating anode	
			A. Notating anotic	

B. Focal spot :- small - 1.2 x 1.2 mm & Large - 2 x 2 mm
C. One pair of High tension cable (at least 8 meters)
D. collimator with full field illumination and angle indicator
Table:
A. The table should be horizontal floating type.
B. Bucky table with floating table top with immense flexibility and ease in positioning.
C. Table top positioning with release of electromagnetic brakes controlled with a foot operated lever.
D. Table Height – 75 cm (±5%)
E. Table top – 218 x 80 cm (±10%)
F. Table top should be made up of low radiation absorption, water proof material, stain free
G. Longitudinal Travel: ± 40 cm (±2%)
H. Transverse Travel : ± 12.5 cm (±2%)
I. Electromagnetic locking of the table movement
Motorized Bucky:
A. Grid 10:1, 60 lines / cm, focused at 115 cm
B. 65 cm travel; movement arrested by electromagnetic brakes
C. Suitable for cassettes in cm and inch formats and should be capable to accommodate 14"x17"  X-Ray Ceiling column
A. Travel range: 195 cm (±10%); movement arrested with electromagnetic brakes
B. Vertical travel: 135 cm (±10%); movement arrested with electromagnetic brakes
C. Column rotation: 360°; from + 180° to -180° in 90° increments
D. X-ray tube rotation: $\pm$ 180°; locks at 0° / +90° / -90°
STANDARD ACCESSORIES
A. Three-fold X-ray protection barrier - 1no.
B. Lead apron 0.5mm lead equivalence with thyroid guard – 2 no.

C. Radiography cassettes with high speed server (reputed make)-pl mention make, seprate for each cassette to be mentioned 1/4 x 17 = 3 no. 12x10 = 3 nos. 10x8 = 10	п				1
D. Should be supplied with chest stand and cone for skull x-rays.  POWER SUPPLY REQUIREMENTS  A. 380 to 440Vac, Three phase, 50/60  Hz.  SPECIFICATION OF LEAD APRON.  A. Should be LARBR approved.  B. Should be light weight 0.5mm lead equivalent.  C. Should be look and loop type (Velero).  D. Should be supplied along with thyroid guard.  SPECIFICATION FOR THREE-FOLD  LEAD PROTECTIVE BARRIER.  A. Should be a treeword mobile lead protective barrier.  B. Should be a mounted on heavy day casters.  C. Should be a mounted on heavy day casters.  C. Should have a viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet with and 6 feet height. The sides should be 1.5 feet with and 6 feet height are should be 1.5 feet with and 6 feet height. The sides should be 1.5 feet with and 6 feet height approved model should be offered.  Supplier is responsible to comply AERB guideline for installation. Land of Parient entry door, Exposure Lamp & Radiation sings is responsibility of supplier and the supplier during warranny & during CMC, cost is added in CMC cost of the machine.  Auto matic  Developer  1 Automatic x ray Developer: to be used for extar ora(ISknI)flims(8XI)0.10X12,5X7 & 6X12 inch,5X7 inch & 6X12				make, seprate for each cassette to be mentioned $,14 \times 17 - 3 \text{ nos}, 12 \times 10 - 3$	
A. 380 to 440Vac, Three phase, 50/60 Hz.  SPPCIFICATION OF LEAD APRON.  A. Should be AERB approved.  B. Should be light weight (5.5mm lead equivalent.  C. Should be hook and loop type (Velcro).  D. Should he supplied along with thyroid guard.  SPECIFICATION FOR THREE-FOLD LEAD PROTECTIVE BARRIER.  A. Should be a threefold mobile lead protective barrier.  B. Should be a mounted on heavy duty casters.  C. Should he are viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet width and 6 feet height US FDA/ European CF, BIS & AERB Approved model should be 1.5 feet width and 6 feet height US FDA/ European CF, BIS & AERB Approved model should be offered.  Supplier is responsible to comply AERB guideline for installation. Lead of Patient curty door, Exposure Lamp & Radiation sinage is responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is not in CMC cost of the machine.  Auto matic Developer  1 Automatic Try Developer: to be used 1 for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 linches), temperature controlled heating. Casseties to be provided-one piece (each) for sizes. 8X10 Inch, IUX12 linch,5X7 linch & 6X12 inch with films of 1 packet each.  Lead Apron Kiran 2 XRay Lead Gloves, Lead Equivalency 2 Equivalency  2 XRay Lead Gloves Kiran 2 Thyroid Shield (Pb Equivalency 2				D. Should be supplied with chest stand	
Hz.   SPECIFICATION OF LEAD APRON,				POWER SUPPLY REQUIREMENTS	
A. Should be Ight weight 0.5mm lead equivalent.  C. Should be light weight 0.5mm lead equivalent.  C. Should be hook and loop type (Velero).  D. Should be supplied along with thyroid guard.  SPECIFICATION FOR THREE-FOLD LEAD PROTECTIVE BARRIER.  A. Should be a threefold mobile lead protective barrier.  B. Should be a mounted on heavy duty easters.  C. Should have a viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height.					
B. Should be light weight 0.5mm lead equivalent. C. Should be hook and loop type (Velcro). D. Should be supplied along with thyroid guard. SPECIFICATION FOR THREE-FOLD LEAD PROTECTIVE BARRIER. A. Should be a thredold mobile lead protective barrier. B. Should be a mounted on heavy duly casters. C. Should have a viewing window of 1.5 mm thick lead equivalence. D. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height be 1.5 feet width and 6 feet height with the special part of the spec				SPECIFICATION OF LEAD APRON.	
C. Should be hook and loop type (Velcro).				A. Should be AERB approved.	
CVelcro).   D. Should be supplied along with thyroid guard.				equivalent.	
thyroid guard.  SPECIFICATION FOR THREE-FOLD LEAD PROTECTIVE BARRIER.  A. Should be a threefold mobile lead protective barrier.  B. Should be a mounted on heavy duty casters.  C. Should have a viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height.  Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of supplier  QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic Developer  1 Automatic x ray Developer: to be used for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 inches), temperature controlled heating, Cassettes to be provided-one piece (each) for sizes-8X10 Inch,10X12 Inch,5X7 inch & 6X12 inch with films of 1 packet each.  Lead Apron Kiran  2 X Ray Lead Apron 0.5 mm Lead Equivalency 2 X Ray Lead Gloves, Lead Equivalency 2 Lead Gollor Kiran  2 Thyroid Shield (Pb Equivalency 2				(Velcro).	
LEAD PROTECTIVE BARRIER.					
protective barrier.  B. Should be a mounted on heavy duty casters.  C. Should have a viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet width and 6 feet height  US FDA / European CE /BIS & AERB Approved model should be 1.5 feet width and 6 feet height  US FDA / European CE /BIS & AERB Approved model should be offered.  Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of supplier  QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic  Developer  1 Automatic x ray Developer : to be used for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 inches), temperature controlled heating. Cassettes to be provided-one piece (each) for sizes-8X10 Inch,10X12 Inch,5X7 inch & 6X12 inch with films of 1 packet each.  Lead Apron Kiran  2 X Ray Lead Apron 0.5 mm Lead Equivalency 2 X Ray Lead Gloves, Lead Equivalency 2 O.35mm,  Lead Collor Kiran  2 Thyroid Shield (Pb Equivalency) 2					
duty casters.  C. Should have a viewing window of 1.5 mm thick lead equivalence.  D. The centre part should have 3 feet width and 6 feet height. The sides should be 1.5 feet width and 6 feet height the sides should be 1.5 feet width and 6 feet height the 1.5 feet widtha				protective barrier.	
1.5 mm thick lead equivalence.				duty casters.	
width and 6 feet height. The sides should be 1.5 feet width and 6 feet height  US FDA / European CE /BIS & AERB Approved model should be offered.  Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of supplier  QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic  Developer  1				1.5 mm thick lead equivalence.	
Approved model should be offered.  Supplier is responsible to comply AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of supplier  QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic  Developer  1				width and 6 feet height. The sides should	
AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of supplier  QA test of the machine as per AERB guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic  Developer  1 Automatic x ray Developer: to be used for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 inches), temperature controlled heating. Cassettes to be provided-one piece (each) for sizes-8X10 Inch,10X12 Inch,5X7 inch & 6X12 inch with films of 1 packet each.  Lead Apron  Kiran  2 X Ray Lead Apron 0.5 mm Lead Equivalency  Lead Gloves  Kiran  2 X Ray Lead Gloves, Lead Equivalency 2  Used Collor  Kiran  2 Thyroid Shield (Pb Equivalency 2					
guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the machine.  Auto matic Developer  1				AERB guideline for installation. Lead of Patient entry door, Exposure Lamp & Radiation sinage is responsibility of	
Developer  for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 inches), temperature controlled heating. Cassettes to be provided-one piece (each) for sizes-8X10 Inch,10X12 Inch,5X7 inch & 6X12 inch with films of 1 packet each.  Lead Apron  Kiran  Z X Ray Lead Apron 0.5 mm Lead Equivalency  Lead Gloves  Kiran  Z X Ray Lead Gloves, Lead Equivalency 0.35mm,  Lead Collor  Kiran  Z Thyroid Shield (Pb Equivalency 2				guidelines will be responsibility of supplier during warranty & during CMC, cost is added in CMC cost of the	
Lead Apron     Kiran     2     X Ray Lead Apron 0.5 mm Lead Equivalency     2       Lead Gloves     Kiran     2     X Ray Lead Gloves, Lead Equivalency 0.35mm,     2       Lead Collor     Kiran     2     Thyroid Shield (Pb Equivalency 2			1	for extra oral(Skul)films(8X10,10X12,5X7 & 6X12 inches), temperature controlled heating. Cassettes to be provided-one piece (each) for sizes-8X10 Inch,10X12 Inch,5X7 inch & 6X12 inch with films	1
Lead Collor Kiran 2 Thyroid Shield (Pb Equivalency 2	Lead Apron	Kiran	2	X Ray Lead Apron 0.5 mm Lead Equivalency	
	Lead Gloves	Kiran	2		2
	Lead Collor	Kiran	2		2

X Hanger	Kiran	6		6
Diagnostic Kit	Oracraft/API/ Jaypee( mouth mirror,dental probe ,college tweaers)	65	Diagnostic Kit-40 nos,High quality stainless steel-mounth mirror,mouth mirror probe,curve tweezer,explorer,kidney tray	65
Lead screen	Kiran/confident	1	moving on four wheel, lead screen with leaded glass window-not less than 10x10 inch, 3feet x 6 feet, lead shield should be sandwitched all over the sheild not less than 1.5 mm lead equilance	1
Biopsy kit		3	Stainless steel 3mm,5mm,10 mm punch biopsy,BP Handle,Scissor Straight,Scissor Curve,small needle holder,artery forcep,tooth head forcep	3
Autoclave	Hot and wet – class -B	2	Autoclave -01 no.	2
	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	
	Sterilizer chamber (diameter x depth) - 245mmx465mm(23L)		Sterilizer chamber (diameter x depth) - 245mmx465mm +_10%	
	Power Supply - 220V/AC/50Hz		No Change	
	Sterilization temperature/Pressure : 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume - not less than 3.0 L	
	Ambient pressure - $+5^{\circ} \sim +40^{\circ}$		No Change	
			No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	
	Handle tongs - 1PC		No Change	
	1.5m water-outlet pipe -1PC		No Change	
	Water outlet connector - 2PCS		No Change	
	Measuring cup - 1PC		No Change	
	Sealing ring - 1PC		No Change	
	Power cable - PC		No Change	
Needle burner with	Needle destroyer should have needle burner and motorised syringe cutter with debri collector	2	No Change	2
syringe cutter	Main Input Supply (V, Hz, A): 230 ± 10%, 50 ± 3% Hz, AC/5 A fuse.		No Change	
	Body Material : stainless steel or ms powder coated		No Change	
	Power consumption of continuous rating, W in use: 100 W.		No Change	

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	Type of Electrodes used: Copper Electrode – Nicket plated.		No Change	
	Destruction Rate, Seconds / Needle : 25 Second / Needle.		No Change	
	Thickness & Length of Needle: Recommended: MAX . 1.6 mm Dia, 80 mm Length.		No Change	
	Burning Temperature, deg. C: 1600 C.		No Change	
	Grade of Steel & Guaranteed Life of Cutting Blade (Approximate No. of Syringes and needle it can destroy): SS Grade is SS 316 L.		No Change	
	Tray capacity No. of Syringes & Needles: 100 pcs.		No Change	
	Safety features provided : Glass Cartilage Fuse.		No Change	
	motorised syringe cutter: with wheel		No Change	
CBCT AERB Approved	Optional	1		1
			Name Of Equipment: Cone Beam CT	
			Expected function of the Equipment: Cone-beam computed tomography is required for acquiring high-definition 3D volumetric imaging in axial, sagittal and coronal planes along with 2D imaging as an aid in diagnosis and treatment planning with life size images, precision and accuracy. General Specifications	
			The CBCT machine should have cone beam technology.	
			It should have Laser guide user inter face for operation controls on machine or on monitor.	
			High System reliability and conveniences for maintenance.	
			Should allow for obtaining image while standing, sitting and wheelchair accessible patient position.	
			Noise free vertical movement — up/down movement, smooth and easy height adjustment, minimum vibration and noise.	
			Unit Should have facility for automatic and manual selection of radiological exposure parameters as per patient requirement and should have emergency stop button.	
			Meet all rules and regulations notified from time to time from AERB.	
			Should have option to select multiple FOVs and type of resolution required as per the examination.	

п		
		Console along with exposure switch
		should be mounted outside CBCT room.  It should have amorphous silicon Flat
		panel/CMOS detector for 3D capture
		Should have operator interactive
		interface on monitor for selection of
		different capture modes like dedicated
		2D imaging (OPG, Lateral and PA Cephalogram, TMJ, sinus, bitewing and
		hand-wrist) and 3D Imaging.
		Should have minimum 03 laser position
		guides: Frankfurt plane, Mid Sagittal
		and Canine Plane for quick and accurate positioning.
		TECHINAL SPECIFICATIONS:
		a. Focal Spot - 0.5 mm or less
		b.Voxel Size
		(i) For minimum FOV (Size range 5X6 cm +_ 1cm) it should
		be in the range of 75 to 80 micron.
		(ii) For Max FOV
		16X14cm +_1 cm it should be in the range 150 to 200 micron
		Automatic selection of multiple voxel
		size as per the resolution of scan.
		c.CBCT Scan Time-Less than 30
		seconds, Fast scan should not be more
		than 10 sec d.Panoramic capture mode-Adult/child
		mode.
		Ceph Capture mode-Water's ,Carpus,
		SMV, AP,PA ,Lateral View.
		Rotating angle-Rotation 360 degree
		Gray Scale-14-16 bit.
		Collimation-Automatic
		Image Format-It should have DICOM
		compatible format open to 3rd party software for import and export of image
		data.
		Should have facility to convert image
		data from DICOM into STL format.
		Input Voltage-220-240 V AC, 50 Hz
		frequency.
		Generator-High Frequency
		Tube Voltage-60-90 KvP +_2 KV
		Tube Current-3-14 mA +_2 mA
		Server Specifications:
		Hardware Specifications: For 01 x console and 01x workstation separate
	1	Intel Core i7 processor
		1 TB SSD.
		PCI-Express bus for GPU
Ŭ		1

Minimum 8 GB RAM.
Windows 10 OS original.
DVD ROM + Writer.
Gigabit Ethernet.
High—end Graphic card Radeon RX580 pulse 4GB GDDRS/Radeon RX 560 4GB GDDRS/Radeon PX570 4GB GDDRS Nitro or equivalent.  Minimum 24" LED monitor with full
HD resolution allowing display of image at its native resolution.
Software Specification:
Should be from same OEM / vendor of licensed perpetually to OEM/ vendor.  The responsibility of maintenance /repair/upgradation of Software during Guarantee/Warranty period/AMC and CAMC period rests with the Vendor/OEM
Should allow easy 2D and 3D examination, reporting and generate viewer CD
Annotations created on image such as linear and angular measurements, notes and signs should be printable.
Should have implant planning, simulation module, nerve tracing facility alongwith in-built implant library and customizable implant size selection Should have Zoom reconstruction
Should have Multiple 3D filters.
Should have Panoramic reconstructions of multiple thickness from 3D volume
Should have Advanced image filters.
Should have Workstation software.
Should have Basic image manipulation for brightness. contrast & sharpness.  Should have Patient and image database.
Should have 3D slice view
Should have 3D surface rendering and 3D volume rendering.
Should have Surgical stent and prosthetic planning/simulation module.
Should have DICOM connectivity open to 3 <sup>r1</sup> party software  Should have MAR (Metal Artefact
Reduction) module.  Should include scout/preview imaging
before final 3D CT Scan which enables to ensure correct patient positioning
Should have Display at DAP (Dose Area Product) DAP value after every exposure.

n	1	T		1
			Should have Display of MPR (Multi Planar Reformation) with 3 orthogonal planes —axial, sagittal and coronal which will allow navigation	
			Should have Ability to perform oblique and curved reformatting	
			Should have Display of grayscale value /Hounsfield unit UPS-	
			Should have 5KVA Online with 30 minutes backup	
			Day Light Printer:	
			Should have DICOM printer	
			Should have Double Tray online with multiple film size loading options.	
			Should have Print Resolution Min. 500 dpi.	
			Should have 8 x 10 inch, 10 x 12 inch, 14 x 17 Inch	
			Contrast resolution: 12 Bit.	
			Day light imaging loading system.	
			DICOM sheet printing Software.	
			Certifications-	
			USFDA/EU CE /BIS certified.	
			Should have AERB approval certificate prior to installation.	
Sailography equipment and kit	Kiran	1	Added-Intra Oral hangers-06 hangers 12 pieces Polyethylene tubing with a special blunt end metalic tip cannula with side hole for parotid gland & end terminal hole for submandibular gland,laccrimal dilator ,contrast media,sialagoue ,X ray Cassatte(5X7 inch)-01 no	1
			Added-Extra Oral hangers1.12 Clamp-02 pieces hanger,2.4 Clamp-02 pieces hanger,3.2 Clamp-02 pieces hanger. Made of Stainless steel,Acid prof	6
			Added-Intra Oral hangers-Hanger for OPG film(6X12 inch)-02 2.Hanger for Cephalometry film(8X10 inch)-02, 3.Hanger for Cephalometry film(10X12 inch)-02 4.Hanger for film(5X7 Inch)-02	8
	DEPARTMENT OF PUBLIC HEALTH		9.DEPARTMENT OF PUBLIC HEALTH	
Dental chair and unit	Dental chair mount unit	16		16
	Body contoured electrically operated pantographic dental chair		It should have two 3 way syringes (tip autoclave), with 3 spare tips.	
	seat, back rest and head rest are thickly cushioned and covered with seamless rexine.		It should have two high speed Air Rotor terminal with water control on coupling supplied with Hand piece.	

Dental operating light with Led should give 30000 lux, on, off, and intensity control by non touch sensor	Brushless micro motor (35,000 rpm or higher) terminal having straight and contra angle hand pieces.	
Ceromic or glass spittoon with auto water connection for spittoon and tumbler by switch, the spittoon should be moveable towards patientto be used during gorgle position	It should have Ultrasonic Scaler with 5 scaleing tips and one set of perio-curette tips.	
should have the pu moulded / cushioned handle and right arm moveable for easy access for the patient	All hand pieces /terminals should be kept on Autoclavable & 6 spare autoclavable pads should be supplied (over hanganging).	
head rest should be articulated with height variation and with twin joint to adjust for required patient position, with penumatic locking	It should have movable latest LED Light with glass reflector ON/OFF, intensity control, Detachable, autoclavable, handle, Minimum 28,000 Lux or higher at 80 cm distance.	
Chair should achive the lowest and maximum height required for the patient ingress and dentists operation by Electrically operated actuators	It should have light cure unit.	
Assistant side control should have high vacuum and saliva ejector connected to motorised suction. With individual filter and with a minimum of 300 ltrs of aerosol displacement.	It should have high and low vacuum motorized suction with auto drain and auto flush motorized suction should have minimum volume of 250 Itrs/min and provision for disinfected air exhaust.	
one three way syringe and one light cure unit with light guide with shield. With variable modes of intensity . Should have intensity of1200 mwcm2	It should have auto zero, gargle, P1 and P2(erasable programme) positions.	
Dentist element or trolley should have five point with <b>Two airotor</b> points ,one micromotor with digital display of speed, one piezotronic scaler with 5 scaling tips. With torque wrench to remove tip. One three way syringe. And modular should be of hanging cords, and should be supplied with iopa x ray viewer, on stainless steel tray. and control should have the pressure guage, water volume regulator, air regulator. micromotor controller	Chair should have up and down, backward and forward movement hand and foot control operated.	
foot control should be supplied to operate up and down and backrest to and frow movement. Switch for operating microtor and scaler and airtor.	Seat, backrest rest-synchronized movement and head rest Pneumatic/ manual movement	
Should supply with one airotor handpiece, one micromotor contrangle handpiece, and one straight handpiece of branded(kavo, NSK, Bien air, W & H)	a. Chair should have Minimum & maximum height 360mm & 700mm. b Unit should have removable axillary tray (stainless steel), transparent water booster.	

П				
	ceramic replacable bowl /glass		Base should solid metal with heavy	
	should be easy to remove and rotate		casting.	
	,			
	should be supplied with all the floor		It should have LED based X-ray viewer.	
	box and its fittings so that we can			
	connect the chari to all the central			
	connections.			
			It should be provided with rotatable right	
			arm rest (90 degree).	
			It should be provided with one doctor's	
			stool with back rest and one assistant's	
			stool without back rest with foot ring for	
			foot rest. The base should be of stable	
			metal moving on five wheels with	
			pneumatic movement with level	
			Suitable Oil Free Air Compressor	
			(Medical grade). Tank and dryer. Also	
			built in Thermo cut for excess of heat,	
			Auto head release valve, automatic cut	
			off, safety release valve, & drain valve	
			gauge.	
			Electrical point, water inlet and outlet	
			facility will be provided by hospitals but	
			All consumables required for installation	
			and standardization of system to be	
			given free of cost.	
			(a) It Should have Dental instrument	
			cabinet with acid and fire resistant table	
			top fitted with minimum 6 and above	
			drawer/ Shelves	
			All the outlet and inlet for the services to	
			chair should be concealed in a box at	
			foot area or within the unit for infection	
			control purpose.	
			The unit shall be capable of operating	
			continuously in normal room	
			temperature.	
			Complete installation of the system	
			including water input and drainage	
			system, air compressor, required electrical connection has to be installed.	
			Power supply	
		1	i. Equipment shall operate on 220V-	
			240V, 50 Hz, single phase electric	
			supply.	
			ii. The mains supply voltage variation	
			may be 180-270V and frequency	
			variation max. 3 %. The necessary	
			protective shall be there with the	
			machines.	
			Standards, safety and training:	
			i. Model Should be US FDA / CE (Issue	
			by Notified body) / BIS approved.	
			ii. Electrical safety conforms to	
			standards for electrical safety IEC-	
			60601/IS-13450.	
			Documentation:	
			i. User manual in English.	

	1		ii. Service manual in English.	T
	-		iii. List of important spare parts and	<u> </u>
	1		accessories with their part number and	
			costing available in stock with the	
			supplier.  iv. Certificate of calibration and	+
			inspection from factory.	
			v. Log book with instruction for daily,	
			weekly, Monthly and quarterly	
			maintenance checklist. vi. The job description of the hospital	1
			technician and company service	
			engineer should be clearly spelt out.	
			vii. List of Equipment available for	†
			providing calibration and routine preventive Maintenance support as per	
			manufacturer documentation in service/	
			technical Manual.	
Autoclave	Hot and wet – class -B	2	No Change	2
	Should have container for distilled water, and exaust condensed waste water		No Change	
	The chamber should be of minimum 20 to 23 ltrs		No Change	
	Technical Info:		No Change	1
	Sterilizer chamber (diameter x		Sterilizer chamber (diameter x depth) -	1
	depth) - 245mmx465mm(23L)		245mmx465mm +_10%	<del> </del>
	Power Supply - 220V/AC/50Hz		No Change	<u> </u>
	Sterilization temperature/Pressure : 121/1.0~1.3Bar / 134/2.1~2.3Ba		No Change	
	Fuse tube - T15A		No Change	
	The storage tank volume - 3.5L		The storage tank volume - not less than 3.0 L	
	Ambient pressure - $+5^{\circ} \sim +40^{\circ}$		No Change	
	Instrument tray - 3 Pcs		No Change	
	Instrument rack -1PC		No Change	
	Operation manual -1PC		No Change	†
	Handle tongs - 1PC		No Change	†
	1.5m water-outlet pipe -1PC		No Change	†
	Water outlet connector - 2PCS		No Change	†
	Measuring cup - 1PC		No Change	†
	Sealing ring - 1PC		No Change	†
	Power cable - PC		No Change	†
Ultra sonic cleaner	13 litres	2	No Change	2
	Ultrasonic Cleaner, Premium quality cleaner for cleaning surgical instruments before autoclaving should have lid and cage to keep the instruments, on.off switch and should have the capacity of minimum 13 ltrs		No Change	

Noodla burranarand	Needle destroyer should have readle	4	No Change	T 4
Needle burner and syringe Cutter	Needle destroyer should have needle burner and motorised syringe cutter	4	No Change	4
syringe cutter	with debri collector			
	Main Input Supply (V, Hz, A):		No Change	
	$230 \pm 10\%$ , $50 \pm 3\%$ Hz, AC/5 A			
	fuse.			
	Body Material: stainless steel or		No Change	
	ms powder coated		Ly G	
	Power consumption of		No Change	
	continuous rating, W in use : 100 W.  Type of Electrodes used :		No Change	
	Copper Electrode – Nicket plated.		140 Change	
	Destruction Rate, Seconds /		No Change	
	Needle: 25 Second / Needle.			
	Thickness & Length of Needle:		No Change	
	Recommended: MAX . 1.6 mm Dia,			
	80 mm Length.			
	Burning Temperature, deg. C: 1600 C.		No Change	
	Grade of Steel & Guaranteed		No Change	
	Life of Cutting Blade (Approximate			
	No. of Syringes and needle it can			
	destroy): SS Grade is SS 316 L.			
	Tray capacity No. of Syringes &		No Change	
	Needles: 100 pcs.  Safety features provided : Glass		No Changa	
	Cartilage Fuse.		No Change	
	motorised syringe cutter: with wheel		No Change	
	, ,		Added-Mobile Dental van with 02 units	
			of Dental chairs with all attachemnts &	
			adequate sitting space for 15-20 people	
			. VEHICLE BODY	
			Body for special purpose of mobile	
			dental vehicle on the bus chassis	
			· Exterior dimensions:	
			1 1 1 1	
			o As per the approved dimensions of Central Motor Vehicle Rules Act, 1989,	
			as amended from time to time, on bus	
			chassis with a wheelbase of 5545 mm	
	+		o Complying with the norms of the	
			o Complying with the norms of the Regional Transport Office, Department	
			of Transport, Government of Bihar.	
			External body frames:	
			· ·	
			o Of standard quality Galvanized Iron (GI pipes) square pipes	
			o Of adequate thickness (i.e. Class) to	
			support the various rails and pillars	
			o Anti-corrosive treatment of good	
			quality and standards of all fittings and welding	
			o All anti-corrosive treatment	
			should be of Zinc Phosphate epoxy	
			primer paint or of similar nature and of	
			standard quality.	

o All fixtures and welding should comply with Metal Inert Gas/Tungsten Inert Gas (MIG/TIG) technology	
Inert Gas (MIG/11G) technology	
External and internal sheathings:	
o External sheathing of GI sheets of 18- 20G	
o Interior sheathing with at least 2mm	
thick FRP (Fibre Reinforce Plastic) over	
a GI sheet of adequate thickness	
o All internal sheathings/surfaces	
should be of medical grade material.	
o Colour of interior ABS be as per	
approved scheme	
o Riveting of the components	
Insulation:	
o Polyurethane Foam (PUF) of	
minimum 50 mm between external and	
internal sheathings including the roof	
and floor	
Exterior Roof:	
o Panelling of 18G Aluminium sheets	
o Standard roof design with a	
gradient for water runoff	
o External guttering for draining rain	
water	
o A detachable roof ladder to be	
provided	
Flooring:	
o Should be done with seamless	
industrial grade, durable, non-slip	
waterproof vinyl mat of adequate	
thickness, of standard quality	
O Colour of vinyl flooring to be as per	
the approved scheme  o Chequered board Aluminium sheet	
o Chequered board Aluminium sheet (wherever required) of adequate	
thickness to withstand functional load	
with a low VOC adhesive	
o The floor shall be fitted with fire	
retardant marine board of adequate	
thickness (minimum 19 mm) and	
conforming to BIS standards	
O Exterior aspect of flooring be coated	
for water proofing and adequate	
impervious under-coating protection be	
provided	
Doors:	
o 1 driver side door	
o Two ergonomically placed doors	
o Location of doors will be as per final design approved	
o One door should be wide enough	
for entry of standard wheel chair with	
ramp	

	o 1 emergency exit as per the
	standard norms
	o The doors should be securely lockable (from inside & outside) and
	latches provided
	o Be properly sealed to avoid leakage
	of air
	o The steps should be of anti-skid
	material of standard quality
	Windows:
	o Toughened glass
	o UV tinted (except one window for
	LCD) within permissible limits of the
	transport norms.
	o Windows in the passenger and dental
	clinic cabins should be sealed with
	proper gasket.  o Windows in the driver cabin should
	provide sufficient ventilation.
	o The location, size and number of
	the doors and windows would be
	finalized as per the design approved.
	Wind screen:
	o UV tinted and conforming to the
	standards prescribed by the transport
	department of NCT of Delhi.
	o Wipers of standard quality with
	provision for water spray be provided for front windshield area.
	Rear view mirrors
	o Good quality rear view mirrors on
	both sides of driver cabin, of adequate size & repute make
	• Reverse sensors of repute make should
	be provided at the rear of the body.
	Exterior Lighting:
	o Ambulance siren and flasher of
	repute make to be placed as per
	Government rules.
	o Other external lighting, signalling
	and indication system of the bus should
	be as per Central Motor Vehicle Rules,
	1989, as amended from time to time.
	Exterior body colour:
	o Body be painted with graphics
	approved by user and confirming to
	Central Motor Vehicle Rules
	o Of durable exterior polyurethane
	based paint with lamination.
	Roof top: Provision should be
	made for placement of AC condenser unit
	Undercarriage: Provision should
	be made for placement of:
	o Generator Compressor
	o Clean water tank o Waste water tank
	D = 2 05 104

1			
		o Storage area for Portable dental	
		chair, foldable table (chair & table not	
		to be provided by vendor)	
		o Additional storage area for storing	
		stores & general items	
		o Provide proper access to maintain the	
		undercarriage fixtures.	
		undereurrage intures.	
		ELECTRICAL	
		· Generator:	
		To run 2 dental chairs, one air	
		conditioner, compressor, autoclave,	
		LCD TV, DVD player, public address	
		system, refrigerator, fans and lights	
		while vehicle is stationary reputed make,	
		Petrol, Water Cooled, vibration free &	
		silent.	
		o Housed in vibration free enclosed	
		space with acoustic deadeners	
		o Have proper exhaust	
		<u> </u>	
		o Facility of auto start is desirable	
		o Grouted and provision for sufficient	
		shock absorption o Be from	
		BIS/ISI/BES/Standard approved	
		company	
		o Exact location to be decided as per	
		final design approved	
		o Extra fuel jerrycan–20 litres for	
		storing fuel for generator	
		· Roof mounted air conditioner for air	
		cooling and heating with ducting in	
		seating area and should be engine driven	
		o Be of repute make confirming with	
		BIS/ISI/BES standards	
		One split type air conditioning	
		system of minimum 1.5 ton and of	
		reputed company which can run on	
		generator or external power supply	
		should be provided in dental clinic area	
		· Total capacity of both ACs should	
		be of at least 22,000 British Thermal	
		Units (BTU)	
		· Electrical systems:	
		<u> </u>	
		o Stabilizers and voltmeters: of	
		specifications matching the equipment	
		on the mobile dental clinic along with	
		earth leakage circuit breakers	
		o <b>Proper safeguards</b> be taken with	
		respect to electrical connections	
		including but not limited to insulated	
		wiring, earthing, voltmeters, circuit	
		breakers, colour coded wires, approved	
		jointers and wiring chart	
		o Provision for External Power Source	
		(Shore Power/Generator) Alternating	
		Current Supply (AC) including alternate	
		supply for air conditioning and dental	
		equipment's	
•			

 · · · · · · · · · · · · · · · · · · ·
o <b>UPS</b> of sufficient capacity to run
dental chairs, Compressor, lighting and
fans in the clinic area & battery backup
1 hour.
o Electrical cables
§ Internally concealed and located
such that no part can make contact with
any fuel line or exhaust system
§ All cables used shall be BIS/ISI
marked
§ Of approved thickness to
withstand maximal estimated electrical
flow.
§ Copper conductors with fire
retardant PVC insulation, to withstand
up to 70°C temperature
§ Cables ducted and secured at
suitable places in such a manner that
during normal use of vehicle the cables
are not subjected to any tension,
stretching, cutting, abrasion or chaffing.
No loose wire to wire connections
shall be permitted.
o Special insulation to be provided
where such electrical circuits are
necessary. Non-conductive insulated
backing for all switch boards.
o Plug points and switches: 10
plug points of adequate intensity along
with equivalent number switches of
standard quality (BIS) to run
compressor, autoclave, air conditioner, 2 dental chairs, 2 curing light, LCD TV,
DVD player, public address system and
laptop and 5 additional plug points.
Switches corresponding to lights and
fans to be provided. <b>Location to be</b>
finalized as per approved design.
o Shore power socket at bus panel
i.e. from outside to aid in attaching
external power source.
o <b>Interior lighting</b> : The design and
number of lamps, their position, type
and wattage used shall be of type
approved. Each compartment would have specified number of LED lights
and switches for each group.
o Fans: Total 8 walls mount fans in
driver, passenger, registration area and
dental clinic cabin, with variable speed
control and swing movement and of
standard quality.
- 1
o Adequate lighting and air
circulation be available with and without
the generator running, with the bus
stationary and during commuting.

o <b>Distribution Panels</b> - Separate AC and DC distribution panel to be placed near main entrance with individual breakers (of adequate type and approved quality) for each equipment item.  Ground fault circuit interrupter (of adequate type and standard quality) at sink. Change over switch from external
power source (shore power) or Generator.
o All panelling and equipment should be of standard BIS quality and should have display units.
o Wiring should be harness coloured, numbered & function coded
WATER SYSTEM
· Water purifier capacity 20 litre per hour.
· Clean water tank
o Capacity: 200 litres
o With booster pump
o High quality stainless steel, leak proof material and with external covering
o With locking sealed cap
o With sensor indicating status of water level
o To be placed in the undercarriage
· Waste water tank
o Drainage system from the dental chairs, washing areas should be identified
o Capacity: At least 100 litres
o To be placed in the undercarriage preferably on the passenger entry side o Of high quality stainless steel and leak proof material
o Provision for draining waste water should be easily accessible and operable o With sensor indicating status of water level
Location of the tanks & water purifier shall be as per the final design approved
INTERIORS
Driver Cabin
o Ergonomically designed
o Driver seat should comply with standard safety and quality and be provided with a retractable seat belt.
o The placement of instrument panel shall be such that the primary instruments and controls are visible unobstructed from the driver seat.
o Display of reverse sensor device to be included.

	o The driver door should be of approved height and width with sliding windows and required lockings. The driver door aperture shall have minimum
	one hand hold.
	o Provision of standard quality locks for all doors.
	Internal Partition walls
	o Of steel of approved thickness and
	should be powder coated.
	o The partitions separating the
	passenger seating area, clinic area and
	registration area should have a hinge door.
	Passenger sitting area
+	o Provision for seating 10 persons or
	more, as per the space availability of
	Adequate aisle space to be provided
	o Passenger seats should have back rests
	and preferably head rests. <b>The seat design</b>
	would be as per the final design
	approved.
	O Front seats should have a horizontal
	bar in front to hold on for safety purposes.
+	O Overhead storage space to be
	provided as per the final design
	approved.
	oDust free blinds or curtains
	o Two foldable benches can be
	provided( if space permits) to increase seating capacity
	Registration area:
	· should have a registration counter
	· location of area shall be as per
	final design approved
	Dental clinic area
	Dental equipment
	1. Two electrically operated dental
	chairs: The chair should be electrically
	o Thick seamless upholstery to prevent
	adherence of dust and thus cross-
	contamination, with lamination.
	o Double articulated head rest for
	patient comfort o 3 programmable working positions and
	auto return to zero.
	o Independent up and down movement and backrest movement of the chair.
	o Delivery unit with pneumatic locking
	arm, control panel, one 3-way syringe,
	instrument tray for placing instruments  o Inbuilt micro motor and piezo
	ultrasonic scaler.

	o Included Accessories: Air Rotor Hand
	Piece Standard Head, Ceramic bearings
	with push button (NSK/similar),
	Micromotor with Straight & Contra
	Handpieces (NSK/similar) with
	Piezoelectric Ultrasonic Scaler (with
	minimum 3 Tips and Torque Wrench)
	detachable autoclavable hand piece and
	at least 5 Watt LED based, Cordless
	light cure unit with pulse, ramp and
	normal mode settings.
	o Water unit: Ceramic spittoon with
	fixed cannulas for spittoon and cup
	water, 1 litre water bottle, switch to
	control working of water unit, 1 point
	for low vac suction
	O White and cold 3 LED sensor light (at
	least 20,000 LUX) o One x-ray viewer
	o Multifunctional foot control
<del>                                     </del>	o Doctor's stool with adjustable
	backrest tilt & height adjustable foot
	e v
	ring.
	o Provision for harnessing the doctor's
	stools when not in use.
	o The company manufacturing the
	dental chair should be ISO, and products
	accredited with CE Mark.
	o Provision for separate clamping of
	dental chair light to the roof of the bus
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS
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	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C,
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres,
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled o Wrapped/unwrapped, porous, solid
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled
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	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  O US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  O B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  O Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  O Bow and Dick test qualified
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  o Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  o Bow and Dick test qualified  o Have digital display of pressure and
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  o Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  o Bow and Dick test qualified  o Have digital display of pressure and temperature
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	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  o Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  o Bow and Dick test qualified  o Have digital display of pressure and temperature  o Have double safety lock on the door, silicon gasket to prevent any leakage of
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  o Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  o Bow and Dick test qualified  o Have digital display of pressure and temperature  o Have double safety lock on the door, silicon gasket to prevent any leakage of air and diagnostic automatic alarm for
	dental chair light to the roof of the bus and harnessing of the instrument tray arm.  o US FDA / European CE /BIS Approved model should be offered.  2. One Autoclave having wet and dry cycle, which can achieve 135°C, with minimum capacity of 20 litres, front loading. Should be:  o B-Type front loading fully automatic autoclave with vacuum & dry cycle o Micro-processor controlled  o Wrapped/unwrapped, porous, solid instrument including cotton swabs can be sterilized  o Bow and Dick test qualified  o Have digital display of pressure and temperature  o Have double safety lock on the door, silicon gasket to prevent any leakage of air and diagnostic automatic alarm for any malfunctioning
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	o To be placed in the undercarriage with encased tubings connecting to the
	dental chairs.
	Dental X-Ray (DC-portable)
	(1) Dental X-Ray (DC-portable) -for taking Intra Oral periapical and Occlusal X Ray
	(2) 2) Certification EU CE (with 4 digits notified number)
	(3) AERB approval Required for Dental X-Ray
	(4) Electrical safety standards IEC-60601/ IS 13450
	Performance Parameters
	Tube voltage in KV-70 KV
	Availability of selection option for Bisecting angle technique & Parallel Technique -YES Tube current in mA- 7-10mA
	Focal spot in mm – (0.8)
	Should have Total filtration and Inherent Filtration- Yes
	Total filtration in mm Al - 2
	Inherent filtration in mm Al – 0.5
	Minimum range of exposure time in sec $-0.2$
	Power supply - 220-240 V , 50 Hz single phase
	Based on DC Current- YES
	RVG / X ray Film compatible - YES
	Machine should have a stable base with sturdy locking wheel mechanism- YES
	Machine shall be wall mountable - YES
	Should have digital control equipped with an easy ready display indicating with precision - YES
	Stool for the patient provided - YES
	Soft positioning arms for accurate tube positions - YES
	Light and flexible movements -YES
	Internally lead coated head tube and cone to avoid scattered radiations - YES
	Exclusive angular indicating system for head positioning in various radiography techniques- YES
	High efficiency and greater sharpness of the radiography -YES  Additional Parameters
	Should have high voltage generator with high efficiency in the emission of the X rays - YES
	Should have free swivel head, which allows easy positioning of head – YES

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		Number of light weight lead equivalent	
		aprons (AERB Approved) - 2 (with lead	
		thickness 0.5 mm) To be supplied with Thyroid shield -Yes	
		**	
		User manuals to be supplied - Yes	
		Reports	
	C	Manufacturer should have ISO certification -YES	
	t c	Copies of all certifications and reports to be provided to buyer on demand at time of supplies - YES	
		RVG (Radio Visio graph) Technical Specifications	
	1	1. RVG is used for digital dental X-rays which can be instantly viewed and evaluated with minimal radiation exposure	
		2. High resolution RVG based on CMOS technology with optical fibre.	
	3	3. Maximum reduction in patient radiation as compared to X-ray film.	
		4. Should have easy positioning of sensor inside the mouth	
	5	5. Should supply sensor with minimum active area 600mm².	
	2	6. Should have a Pixel size: 20 μm x 20 μm +/-2	
		7. Size of the sensor in mm x mm:-39mm x29mm with tolerance +/- 3	
	t	8. Sensor cable length (meters):- 2m to 3m.	
		9. Thickness of the sensor should be Upto 5 mm.	
		10. Spatial resolution approx. 25–35-line pairs/mm.	
	t 1 1 2	11. Sensor (including joint and part of cable length) is water and dust resistant as per IP Code (IP68, IP67) (Authentic test reports from NABL/ILAC/REPUTED GOVT LABS to support resolution claim are available and will be provided to buyer on demand)	
		12. Ability to Synchronize with Laptop/Windows Software.	
	i	13. Software has facility to acquire images from intraoral camera which may be of a different manufacturer.	
	1 1 1	14. Laptop with LCD/LED color monitor not less than 14-inch screen, minimum I-5 processor, Windows 10, HDD 1TB, 8 GBRAM & Laser Printer.	
		15. Should have positioning devices a. Bitewing b. Periapical c. Endodontic.	

	16. For Radio Visio Graph - USFDA
	(510 K)/ European CE (Issued by
	notified body)/BIS certified model
	should be offered.
	Thyroid Collar- 2 and lead Apron-2
	Accessories in dental clinic area
	· Fire detection and fighting
	<b>system</b> as per the Govt. norms, of repute
	make, including but not limited to
	adequate number of fire extinguishers in
	all the cabins, fire alarms, smoke alarm.
	All fire extinguishers should be secured
	and easily accessible.
	· LCD TV of a repute make, with
	remote control, 32 inches, Full HD, USB
	compatible, mounted, with proper metal
	casing and padding, with metal shutter
	for protection
	• <b>DVD player</b> of repute make, with
	remote control: High definition, USB
	compatible, with HDMI cord, to be
	grouted behind LCD casing
	• One Refrigerator of 40-50 ltrs
	capacity of repute make, single door,
	semi-autodefrost, should run with and
	without the generator running, with the
	bus stationary and during commuting
	·Public Address system of repute make:
	o 2 wireless microphones (with a range
	of at least 10m away from the vehicle)
	o Amplifier of adequate power with two
	audio in (auxiliary so as to enable it to
	play audio from TV/ DVD, one for
	Microphone),
	o 4 internal ceiling speakers of
	appropriate power
	o 4 external weather-proof speakers
	of appropriate power or external
	speakers positioned in external body
	adequately protected by moisture and
	injury. External speaker should be
	adequate enough to address a gathering
	of 100 people in an open environment.
	o The volume of internal and
	external speakers should be
	independently modifiable.
	One Oxygen cylinder and mobile
	stand, secured tightly to the vehicle
	body with removable clamps, along with
	regulator and delivery mask.  Cabinets:
	o The cabinets need to be fixed onto
	the body of the vehicle.
	o The counter top should be of
	Seamless Galvanized medical grade
	stainless steel countertops of thickness
	so as to withstand weight of medical
	instruments and machines placed over it.

X 2 ft. in order to place the autoclave and sterilized instruments.  o Drawers should he made of powder coated stainless steed with silicone rollers. The cabinet hardware hinges should be fully adjustable high quality type. The latches should be easy to grip with magnetic locking.  o All drawers and cabinets need to be lockable and should be locked/ unlocked with a single key.  o On the external surface of the cabinet, provision should be provided for inserting a label.  o The design and colour of the cabinets and drawers will be as per the final design approved.  o Cabinets should allow some shock absorption so as to prevent damage to stored items.  One Metal Cabinet with stainless steel wash basin and tap: The sink should be corrosion proof with filter traps.  - Biomedical waste color-coded bins: The colour coding should be as per the Biomedical Waste (Management and Handling) Rules, 1998. The bins should have foot pedal and should be secured and concealed in the dental clainic area.  Retractable/ Foldable prescription writing table  - Towel holders, apron hangers and attachments for placing soap dispensers and antt-microbial hand rubs.  Dust free blinds or curtains on the windows  - Equipment mounting, iie downs, pudding and bracing for operational transport of various equipment's as the dental chains:  - Locking provision for battery and other external equipment's and an anti-		
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In case of a rate contract for any above mentioned equipment exists with BMSICL at the time of Award of Contract such equipment may be deleted from the scope of work in the Award of Contract.