

Amendment No. 2**Date: 09.02.2015****Subject: Amendment no. 2 to the Tender Enquiry Document****Ref: (i) Tender Enquiry No.: HLL/PCD/PMSSY/AIIMS-II/24/14-15 dated 24.12.2014 and subsequent amendments published thereafter.**

The pre-bid meeting for the referred tender enquiry was held on 07/01/2015. Based on pre-bid discussions following amendments are being incorporated in the referred tender enquiry document.

Section VII
Technical Specifications

SCHEDULE 1:
ADVANCE ELECTRONIC DENTAL CHAIR

Point No	Existing Specification	Read as
06	The base and other structure should have a corrosion resistant coating	The base and other structure should have a corrosion resistant coating with cast metal base.
11	The chair movement control should be at both fingertip panel and user friendly foot control with all the functions	The chair movement control should be at both fingertip panel and user friendly foot control with all the functions and should have atleast two patient entry programs 1 – rinse, 2 – exit program.
20	Autoclavable quick disconnect water syringe	Autoclavable stainless steel quick disconnect water syringe, with 10 extra tips for each chairs.
21	Should have one Air Motor terminal with speed control preferably fiber optic, with speed range of 300 - 40000 RPM in standard mode with cutting power in the range between 50 - 70 watt. Should be provided with the Brushless Micromotor cord.	Should have one Brushless Micromotor fiberoptic light with internal spray of water with speed range of 1,000- 40,000 RPM with cutting power in the range between 50 - 70 watt.
22	The assistant side should have high vacuum suction, Medium vacuum suction and 3 way syringe. The Suction system should be compact, unique universal semi wet suction. Durr Suction is preferably.	Assistant side should have high vacuum, medium vacuum suction and 3 way syringe with spittoon and Tumbler water connections. The Suction system should be compact, unique, Wetline Suction with flow rate of atleast 350 Ltr/minute.
24	It should be supplied with following handpieces (all European CE Certified Genuine instruments) <ol style="list-style-type: none"> 1. Fiber optic Air rotor nos. 1. (<i>scratch resistant, Titanium Body</i>) 2. Fiber optic Micromotor straight nos. 1 (<i>scratch resistant, Titanium Body</i>) Micro motor contra angle miniature nos. 1,	It should be supplied with following scratch resistant handpieces (all European CE/US FDA Certified Genuine instruments) <ol style="list-style-type: none"> 1. Fiber optic Air rotor nos. 1. 2. Fiber optic Micromotor straight nos. 1 3. Fiber optic Miniature Air rotor handpiece nos. 1,
28	With luminosity of 20000lux and 25000lux with maximum degrees of rotation of light arm movements	With luminosity of minimum 30000 to 40000 lux with maximum degrees of rotation of light arm movements
31	Three position intensity with high, medium and	Three position intensity with high, medium and

	composite setting	Low settings
32-34		Is for the Operator Stool (Clarification)
35-39		Is for the Assistant Stool (Clarification)
40	A suitable Medical grade oil Free Compressor, which should be Noise less, with Retraction Valve and Pressure guage. Noise: 64 dB maximum. It should have a capacity to run atleast 5 dental chairs of similar type simultaneously. (Quote only one compressor for all the chairs)	<ul style="list-style-type: none"> • Suitable Medical grade absolutely oil Free Compressor. • It should have air moisture filter • It Should have non retraction Valve • Pressure guage • Minimum 0.75 HP power • Air tank capacity of 25 lts to 35 lts • It should have Auto cut off switch • should be Noise less not more than: 64 dB • Dust filter, microbial filter. • Compressor tank should be internally epoxy coated
41	Demonstration of the Quoted item is must at the predetermined place	Demonstration of the Quoted item is must at the HLL Office Sector 62 Noida.
51	Provision for modular furniture with sink for dental operator 12 feet x 12 feet should be included in quote.	<ul style="list-style-type: none"> • Cabinetry, drawers can be opened by push-latch or with handles. With clean lines and a large storage capacity • Provision for proper stacking of Instruments. • Should be metallic/SS made. • Whole structure should be made of steel frame which should be around 1.0mm thick with double steel layer. • The top should be made of Corian/marble durable, resistant to cauterization and easy to clean. • Rail guide should be of flip return design. • The different drawer compartments should satisfy different requirements. • Different types of compartments should meet different dental needs, made of ABS Plank, resistant to temperature variation and anti-chemical. • It should have two small and two big drawers with smooth nylon casters. • High quality rust resistant powder coating on complete steel structure. • Usable storable height minimum 840 mm. • Width / Depth 450 – 500 mm • Length Minimum 6 feet.
59	Interior furnishing with the requisite furniture, storage, cupboards, etc. for the Operatory area Size of 12 X 12 feet per dental Chair. Will also form an essential component of this turnkey project.	
60	Cabinetry, drawers can be opened by push-latch or with handles. With clean lines and a large storage capacity with provision for Proper stacking of Instruments.	
61	The fixtures should include modular work station with a size of 6 x 2.5 ft. with acid and fire resistant table top, high quality wash basin	
	Added Para:	

Schedule 2:
TABLE TOP AUTOCLAVE

Point No	Existing Specification	Read as
2	Capacity: Minimum 18 liters	Capacity: more than 20 liters
27	The sterilizer unit should include Rack with 3 levels & suitable size instrument trays should be the part of the supply for every sterilizer.	The sterilizer unit should include Rack with at least 5 levels & suitable size instrument trays should be the part of the supply for every sterilizer.
23	The control system should be microprocessor based PLC system specially designed for sterilization applications. The control system should have CPU processor with battery back up, Digital input/output controls, analog measuring inputs & COM ports for printer & PC connectivity.	The control system should be microprocessor based PLC system specially designed for sterilization applications. The control system should have CPU processor. Digital input/output controls, analog measuring inputs & COM ports for printer.
33	Added Para:	There should be separate tank for clean water as well as for contaminated water
34	Added Para:	The system should monitor & display digitally all parameters of the cycle of sterilization and there should be completely computerized management for monitoring of all automatic operative functions, and auto-diagnosis of each component to prevent any possible human error.
35	Added Para:	All tubing, fixtures, fuses, spares and reusable and accessories should be supplied along with the equipment. The supplier should also provide the list of spares, fixtures and installation diagrams with the quote

SCHEDULE 3:
DENTAL DIGITAL RADIOGRAPHY SYSTEM WITH RADIOGRAPHY UNIT

Point No	Existing Specification	Read as
3, e	Computer with LCD color monitor 20 inch screen, Quad core, DVD-RW, 500 GB HDD, 4 GB RAM, laserjet printer and an online UPS (1 KVA). Specifications.(Input 160-260 V and output 220-240 V and 50 Hz)	It should be supplied with a branded 500 GB computer having the latest compatible hard ware and all genuine software specifications and a minimum 20 inch LED HD monitor, LaserJet printer and servo UPS (1 KVA). Specifications.(Input 160-260 V and output 220-240 V and 50 Hz)
3,f	Intra oral X-ray unit should be based on DC current, and high frequency X Ray generator, tube voltage, selection: 60-65-70 kVp, tube current, 6 mA/ 8 mA, focal spot 0.8 x 0.8 mm, total filtration > 2 mm Al, minimum range of exposure time range – 0.02 to 3.2 secs, manufactured with international Safety standards for radiation leakage, electronic selection of exposure time/radiation according to tooth number. It should be possible to select exposure time	Intra oral X-ray unit should <ol style="list-style-type: none"> Be based on DC current, and high frequency X Ray generator, Tube voltage, selection: 60-65-70 kvp, Tube current, 6 ma/ 8 ma, Focal spot 0.8 x 0.8 mm, Total filtration > 2 mm Al, Minimum range of exposure time range – 0.02 to 3.2 secs, Manufactured with international Safety

	manually and with option for wall mount/ mobile stand.	standards for radiation leakage, h. Electronic selection of exposure time/radiation according to tooth number. i. It should be possible to select exposure time manually j. Option for wall mount/ mobile stand. k. Should have remote hand held trigger button l. The timer should be pre-programmed to automatically calculate settings according to the age, gender, jaw and tooth.
3, i	Should have at least 10,000 numbers of disposable plastic sheaths for the placement of sensors in the patient's mouth	Should have at least 1,00,000 numbers of disposable plastic sheaths for the placement of sensors in the patient's mouth
3, j	Added Para:	Should be supplied with compatible software which has full mouth acquisition ability.
4, b	Additional sensor with Minimum active area - 800 mm area	The bidder has to provide two sensors as part of this bid <ul style="list-style-type: none"> • One adult size with minimum active area of 800mm sq • One pediatric size with minimum active area of 600mm sq.

SCHEDULE 4:
SURGICAL MICROMOTOR WITH CONSOLE

Point No	Existing Specification	Read as
6	The Max rpm should be 45000 u/min	The Max rpm should be atleast 40000 u/min
18	One Contra Angle Hand Piece (Should be able to accept regular 701/702 Burs)	Delete

SCHEDULE 5:
HEAVY DUTY SUCTION

Point No	Existing Specification	Read as
1 - 9	<ol style="list-style-type: none"> 1. Should be manufactured by ISO Certified Company. 2. Should be US FDA or European C E certified. 3. Should be Electrical Driven based on Piston / Cylinder technology. 4. Should be made for long Surgery. 5. Should be Noiseless and Vibration free. 6. Vacuum should not be less than - 400 mmHg 7. Should be operated by Foot Switch also 8. Jar capacity should have 3 Ltr. Non-breakable and Autoclavable. 9. Should be fitted on trolley with lockable castors 	<ol style="list-style-type: none"> 1. Should be manufactured by ISO Certified Company. 2. Should be US FDA or European C E certified. 3. Should be Noiseless and Vibration free. 4. Should be operated by Foot Switch also 5. Should be totally oil free Medical grade 6. High vacuum suction unit, run on electricity with two suction jars of 4-5 liters capacity each 7. Auto cut off device for preventing entry of fluid to the pump 8. Fast and efficient jar change facility. 9. Easy access and controls 10. It should be heavy duty and noiseless, with piston/cylinder technology.

		<ol style="list-style-type: none"> 11. Should be able to create desired maximum vacuum in least possible time (up to -90 K pascal.) 12. Vacuum should not be less than - 690mmHg and displacement air should be atleast 60 ltrs/min should be provided. Diaphragm type of regulator to get repeat accuracy of vacuum during surgical procedure. The regulator variation should be within 5% 13. Light and maneuverable fitted on a mobile trolley. 14. One plastic suction jar cover, steam sterilizable to be provided extra. 15. Two extra suction jar (Plastic) of capacity 4-5 ltrs. should be quoted along with accessories like lid, tubing etc. with the equipment to make the unit functional 16. Quantity certification of the product from international/Indian Agency should be provided 17. The bidder should clearly indicate in the technical bid itself that the prices of all standard accessories are included in the quoted price. 18. The bidder will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.
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SCHEDULE 6:
LAB MICROMOTOR

Point No	Existing Specification	Read as
Whole Schedule	<ol style="list-style-type: none"> 1. Ball bearing high torque electric motor 2. 0 - 35000 RPM variable speed; variable speed motor 3. Forward/reverse switch; ease of changing driving direction 4. Automatic stops with alarm beep & overload rest. 5. Heavy duty handpiece for dental lab 6. Handpiece rest 7. Foot control 8. Technical Data: - Voltage 230V. Speed 0-35000 RPM 9. Should be manufactured by a ISO Certified company. 	<ol style="list-style-type: none"> 1. Brushless micro motor which ensures smooth, vibration free rotation 2. 1000 – 50,000 RPM variable speed; variable speed motor 3. High torque at all speeds 4. Should have a high concentration of ball bearing to provide stable grinding 5. It should have digital display electronic control 6. Handpiece rest 7. Variable speed should be possible to control by hand or foot control 8. It should have reverse and forward rotation by hand and foot control

	10. Hand Piece should be all-in-one turbine, air nozzle and spray, reduced weight and ergonomic design, whisper quiet/ no vibration, high torque, fiberoptics and smooth transitioning while increasing or decreasing rpm's.	9. Heavy duty straight hand piece should be provided which has smooth transitioning while increasing or decreasing rpm's. 10. CE European /US FDA certified 11. Automatic stops with alarm beep & overload rest. 12. Technical Data: - Voltage 230V.
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SCHEDULE 7:
LED LIGHT CURE UNIT

Point No	Existing Specification	Read as
3	Ultra-quiet, ultra-portable, and ultra-powerful LED dental curing light	Noiseless, Portable, and Powerful LED dental curing light with capacity of curing composites in 3-5 seconds maximum
6	Light source: Ultra high intensity light emitting diode (LED) 390-510 mm wave length	Light source: Inbuilt LED with minimum intensity of 2800mW with short curing time
9	Should have Built-In Radiometer	Deleted
12	Added Para:	Poly wave technique with spectrum of 385-515 nm and with 3 - 4 different programs (e.g. Low, medium, High).
13	Added Para:	Should have high performing rechargeable Lithium Polymer battery.
14	Added Para:	LED Display for mode selection.

SCHEDULE 8:
ENDOMOTER - ENDODONTIC ELECTRIC MOTOR

Point No	Existing Specification	Read as
2	Should be with Cord	Should be Cord-less
3	Simple, flat control panel and LCD screen	Simple, flat control panel and LED screen
4	Should include lightweight handpiece with a small head	Should include lightweight hand piece with a miniature head for easy accessibility to the posterior region
5	Should have Variable torque	Should have Variable torque range from 5 – 3 Ncm
6	Should be programmable	Should have the preset programs as well as the ability to manually set speed, torque and gear ratio
10	Should operate with or without foot pedal and can be battery operated as well as electrically powered	Should have a speed range of 100 rpm and more

11	Should have Multiple auto-reverse modes	Deleted
13	Should include Battery, Adapter and Handpiece stand with the equipment	Should include rechargeable Battery, Adapter and Handpiece stand with the equipment
16	Blank	Should have an alarm for torque limit as well as during auto reverse

Schedule 10:
Surgical Saw Unit with Console:

Point No	Existing Specification	Read as
28	Added Para:	Should be supplied with mobile cart for console unit with adequate storage option.

SCHEDULE 12:
Physiodispenser With Reduction gear Handpiece

Point No	Existing Specification	Read as
07	Hand Piece(2 Nos) iv. Both Internal and External Spray	Fiber Optic Hand Piece (02) iv. Internal or External Spray
11	Added Para:	Should have a foot control, which controls both forward and backward rotations and irrigation ON/OFF
12	Added Para:	Should include Cleaning & Lubricating spray at least 5 nos.
13	Added Para:	All the accessories for basic functions should be provided
14	Added Para:	Should include suitable storage solutions and autoclavable cassettes for the hand piece

SCHEDULE 14:
Electro Surgical Unit.

S No	Specification	Read as
3	The two types of current should be activated – at the user's option – either via a foot switch or a handle featuring a pushbutton.	The two types of current should be activated both foot switch and hand control.
10	Added Para:	It should be microprocessor controlled
11	Added Para:	Should provide monopolar output for cut, coagulation (fulguration & spray) & blend
12	Added Para:	Should have bipolar cut and coagulation in multiple levels with automatic bipolar

		Coagulation
13	Added Para:	Auto diagnosis on switching on and during working to continuously monitor all parameters
14	Added Para:	Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.
15	Added Para:	Simultaneous access to mono or bipolar by 2 or more users
16	Added Para:	Programmable memory for output setting
17	Added Para:	Frequency Leakage on the patient should be less than 10 micro Amp
18	Added Para:	All the accessories essential for proper functioning of the equipment should be included in the quote.
	Should be quoted with the following accessories for Hand switch operation	
ii	Handle with finger switch, connection cable 3 m (1 nos)	Reusable Handle with finger switch, connection cable 3 m (2 Nos)
xiii	Added Para:	(xiii) Bipolar forceps straight (10 - 14 cms) (1 No)

SCHEDULE 15:
General Instrument Set for Dentistry – Out Patients Departments

Point No	Existing Product / Specification	Read as
1	Mouth Mirrors / Mouth mirror, with Anti Fog, Mirrors, rust free , slimline	Deleted
2	Probes / Medical Grade Stainless, Autoclavable	Deleted
3	Explorers / Medical Grade Stainless, Autoclavable	Deleted
4	Tweezers / Medical Grade Stainless, Autoclavable	Deleted
5	Instrument trays	Deleted
6	Cheatel forceps	Deleted
7	Kidney trays	Deleted
8	Scalpel Handles	Deleted
9	Scalpel Blade Remover	Deleted
12	Root Tip Picks 1. Apical 9, 9L and 9R 2. Davis Double-end	Deleted

13	Sectional Matrix kit	Deleted
13	Glass Slab for mixing	Deleted
15	Rubber Dam Kits	Deleted
16	VITA Shade guide for porcelain and Composite	Deleted
19	(Periodontal Surgical Curettes) Added Para: 3	Should be quoted with autoclavable cassette
22	Mean value Articulator	US FDA / European CE Not Mandatory
23	Dental Impression Trays	US FDA / European CE Not Mandatory
24	Rubber Bowls	Deleted
25	Plaster Spatula	Deleted
26	Wax Spatula	Deleted
27	Wax Knife	Deleted
28	Lacreons Carver	Deleted
29	Plaster Knife	Deleted
30	Crown Preperation Kit / Daimond cutting points used for Crown preperation	Delete
32	Fox Plane	Delete
33	Denture Polishing Kit	Delete
35	Artery Forceps / 8 ½ inches Stainless Steel curved Halsted type	Forceps : <ul style="list-style-type: none"> • Artery forceps Curved Medium (30 Nos) • Mosquito artery forceps (10 Nos) • Mixter right angle forceps 6" (4 Nos) •
36	Bone file / <ul style="list-style-type: none"> • Cross-Cut file with Curved working end combined with a straight working end • Cross-Cut file with Small paddle shaped end is half the size of the larger paddle shaped end. 	Bone file / <ul style="list-style-type: none"> • Cross-Cut file with Curved working end combined with a straight working end • Delete
37, 3	Bone Rounger / Boehler Double Action	Delete

42	Mallet / Stainless steel with nylon facings should withstand autoclave sterilization	Mallets with interchangeable nylon faces. 340g 19cm 26mm (2 Nos)
44	Scissors / <ul style="list-style-type: none"> • Goldman-Fox Straight • Metzenbaum Curved/Pointed • Metzenbaum Delicate Curved/Blunt • Mayo Curved/Blunt • Bandage Scissors • Suture Cutting • Crown & Gold Curved 12 cm 	Delete
45	Needle Holders / <ul style="list-style-type: none"> • Mayo-Hegar 6" • HMT Thin Jaw 5" Tungsten Plated	Tungsten Plated Needle Holders (4 each) <ul style="list-style-type: none"> • Mayo-Hegar 6" • Derf 5"
47	Punch Biopsy Set	Deleted
49	Adams plier	Deleted
	Universal plier	Deleted
	Straight Cutter long and short Handle	Deleted
	Distal End Cutter	Distal End Cutter with TC Insert (1 nos)
	Pin And ligature cutter	Deleted
	Straight Wire plier (Bird beak) Short and long	Deleted
	Solder torch	Soldering torch
	Nola Dry Field System	Deleted
		Pin and Ligature cutter with TC Insert (Straight) 1 Nos
		Pin and Ligature cutter with TC Insert (Curved) 1 Nos
		Tweed Plier (142) (1 nos)
		Light Wire plier with TC insert (139) 1 nos Heavy Wire plier with TC insert (139) 1 nos
	Added para	CMC not required for this schedule

SCHEDULE 16:
ULTRASONIC CLEANER

Point No	Existing Product / Specification	Read as
	Added para	All the necessary solutions (Additives and Detergents) should be provided - 5 liters each.

Schedule 17:
Cranio-maxillofacial Trauma Instruments

Kindly read the whole schedule as below

The entire instrument every single of them should abide to the below mentioned norms.

1. Should be European CE or US FDA certified
2. The instruments must be manufactured by an ISO certified company.
3. All the instruments should be quoted along with autoclavable containers which meets international standards.
4. The instruments should remain sterile in the container and the container should be capable of being brought into the operation room without any essential packaging.
5. The Plating System should at least comprise of the below mentioned instruments.
6. Bidder has to quote all the items as a set.
7. Bidder has to give the demonstration of the entire quoted product as and when required.

INSTRUMENTS:

S No	Instrument	Quantity
01.	Universal screw drivers with separate shaft/ blade and handle holding mechanism compatible with 1.0 to 1.2mm, 1.5 to 1.7mm, 2.0mm, 2.3 to 2.4mm and reconstruction. The shaft blades should be able to be used with trans buccal cannula	2 each
02.	Bending pliers (Flat Nose and Aderer modified) for 1.5 to 1.7mm and 2.0 mm plates.	1 Set
03.	Bending irons or heavy plate benders, right and left for 2.3 to 2.4mm reconstruction plates	1 Set
04.	Bending pliers for Reconstruction plates 2.3 to 2.4 and 2.7mm	1
05.	Wire Cutter	1
06.	Cutting Pliers for plates 1.5 to 1.7mm and 2mm plates	1
07.	Plate cutters for 2.3 to 2.4 plates	1
08.	Plate and Bone holding plier/forceps for reconstruction plate	1
09.	Trans buccal set containing, Trocar Handle, Cannula, Drill Guide (Long and Short), U - Shaped Cheek Retractor	1 Set
10.	Depth Gauge	1
11.	Plate holding forceps	1
12.	Threaded Drill Sleeves Short and Long	1 each
13.	Orbital Retractors Left and right (with depth markings)	1 Set
14.	Instrument Try for trauma Sets	1
15.	Instrument Try for Reconstruction set	1
16.	Module for trauma plates and Screws 1.5/1.7mm	1
17.	Module for trauma plates and Screws 2mm	1
18.	Module for Reconstruction plates and Screws	1
19.	Sterilizing container for above plating modules	1 Set
20.	The Set and instrument should have quality certification	

Schedule 18:
Sub condylar and ramus fixation with transbuccal set

Point No	Existing Product / Specification	Read as
03	All the instruments should be quoted along with autoclavable containers which meets international standards and approved for steam sterilisation procedures to EN 285:2006+A1: 2008.	All the instruments should be quoted along with autoclavable containers which meets international standards.
	Added Para	Universal screw driver with separate shaft/ blade and handle holding mechanism compatible with the system.
	Added Para	Suitable compatible 30 degree autoclavable telescopes to be used with this system for endoscopic assisted ORIF should be included along. <i>Clarification: Bidder may provide this instrument by any third party manufacturer, however it has to comply with the specifications and certifications mentioned earlier.</i>

SCHEDULE 19:
HAND PIECE CLEANING SYSTEM:

Point No	Existing Product / Specification	Read as
4	b. Automatic cleaning of the spray water and spray channels with cleaning fluid.	Deleted
6	Separate containers for lubricating oil and cleaning fluid	Separate containers for lubricating oil
7	Operating compressed air pressure must be between 4-10 bars and suitable air compressor must be provided	Operating compressed air pressure must be between 4 bars and above
8	Must have indicators for lubricating oil level and cleaning fluid level.	Must have indicators for lubricating oil level.
9	Should have 3-ports to maintain all hand pieces brands.	Should have minimum of 3-ports to maintain all hand pieces brands.
	Added Para	All the lubricating liquids necessary for the function should be provided – 5lts each. The cost of the lubricant should be quoted separately

SCHEDULE 20:
FIBER OPTIC LIGHT SOURCE

Point No	Existing Product / Specification	Read as
	Added Para:	Lamp life should be 500 hrs or more

SCHEDULE 21:
SURGICAL LOUPES:

Kindly read the whole schedule as below

A. LOUPE:

The Surgical System should mainly consist of the optical system, titanium eyeglass frame and standard accessories

B. OPTICAL SYSTEM:

1. Galilean optical system featuring compact design, delivering precise image with good colour fidelity extending to the peripheral zones, excellent depth of field of view ensuring clear visualization of anatomical structures.
2. Magnification : 3 X
3. Working Distance (Eye to operating area) of 550 mm or more
4. Field of view diameter at working distance of 550mm : 110mm or more
5. Quick adjustment of interpupillary distance from 55mm to 80 mm by means of left and right coaxial knobs to suit individual surgeons.
6. High Quality scratch free lens protection device with anti-reflection coating shielding the objective lens against tissue debris for increased protection
7. High quality surface of the optical system resistant to standard disinfectants
8. Telescopic rail enabling quick positioning of the eye piece with a single adjustment.
9. Quick adjustment of eyepiece tilt to desired viewing angles even in extreme treatment options
10. Flip up function for unobstructed vision and eye contact with patients with single adjustment
11. Mount for easy attachment and removal of the optical system
12. Serializable contact guard for reliable swinging of the optical system up and down.

C. LED LIGHT ILLUMINATION

1. Powerful LED light source with integrated temperature control
2. Should be able to attach easily to the optical system
3. Light intensity up to 50000 Lux
4. Shock proof protection for the light and accessories
5. Light should be resembling day light and should illuminate the whole field with even illumination.
6. Low weight
7. Should include 2 Medical grade Lithium ion rechargeable battery with charging device
8. Should have a run time of above 3 hrs at 100 % intensity.
9. All the necessary accessories for the proper functioning of the unit and suitable high quality soft case for storage.

D. EYE GLASS FRAME

1. Sturdy titanium eyeglass frame with straight temples, elastic headbands, soft nose piece for comfortable fit and maximum wearing comfort and neutral lenses protecting against splashes and particles,
2. Frame size 53 – 20 mm (Medium),: suitable for surgeons with prescription lenses
3. Side shields for protection against splash and particles

E. STANDARD ACCESSORIES:

Objective lens protective device(2), Contact Guard (2), Side Shield (2) cleaning cloth for optical components, Allen Key, accessories for the LED light Illumination, High quality soft case for protection of the surgical loupe and accessories.

F. MANUFACTURER AND COMPLIANCE

1. The Loupe should be manufactured by a well-known international manufacturer/company
2. Should be European CE or US FDA approved

Schedule 22:**Erbium Laser (Dental Hard Tissue Laser)**

Point No	Existing Product / Specification	Read as
2	Wave length should be 2780 or 2940nm	Wave length should be in the range 2780 to 2940nm
9	Cooling system should be water to air (inbuilt).	Cooling system should be water or air (inbuilt).

SCHEDULE 24:**GENERAL MAXILLOFACIAL SURGICAL INSTRUMENTS**

S No	Product / Specification	Read as
	All the instruments should be quoted along with autoclavable containers which meets international standards and approved for steam sterilization procedures to EN 285:2006+A1: 2008.	All the instruments should be quoted along with autoclavable containers which meets international standards.
03	Micro Dissection Needles (Colorado Tips) (1 each) <ul style="list-style-type: none"> • 30 mm length, straight, • 30 mm length, 3mm, 45⁰ angle • 20 mm length, 90⁰ angle • 127 mm length, straight sleeve, 3mm, 45⁰ angle • 127 mm length, straight sleeve, 10 mm, 45⁰ angle 127 mm length, sleeve with 51 mm 45 ⁰ bend	Micro Dissection Needles (5 Each) <ul style="list-style-type: none"> • 20 mm length, straight, • 30 mm length, straight, • 40 mm length, straight, • 76mm Length Straight
05	Tongue Depressors <ul style="list-style-type: none"> • Stainless steel Flat (Adult And Pediatric) 	Delete

06	Plastic Cheek retractors /	Delete
07	Mouth Props / Rubber Coated with metal frame. Set of Multiple sizes from child size to large adult size.	Delete
08	Scissors / Should have Tungsten Carbide inserts Rhinoplastic scissors strongly curved, blunt/blunt 13 cm	Scissors / <ul style="list-style-type: none"> • Goldman-Fox Straight 5'' (4 Nos) • Metzenbaum Delicate Curved/Blunt 6'' (5 Nos) • Mayo Curved/Blunt (4 Nos) • Bandage Scissors (1 Nos) • Suture Cutting (6 Nos)
11	Soft Tissue Retractors / (2 Each) <ol style="list-style-type: none"> 1. Original Tessier 15 cm, 35 x 16 mm - 30 x 12 mm 2. Magee Eyelid and lip retractor 15 cm, 15 mm wide 3. Wassmund Soft tissue retractor 33 x 20 mm 21 cm 4. Obwegeser Soft tissue retractor curved up, concave blades 22 cm, 10 x 42mm 5. Catspaw retractor 6. Small Langenback retractor 	Soft Tissue Retractors / (Quantity As mentioned below) <ol style="list-style-type: none"> 1. Deleted 2. Desmarres Eyelid retractor 15 cm, 15 mm wide (02 Nos) 3. Deleted 4. Obwegeser Soft tissue retractor curved up, concave blades 22 cm, 10 x 42mm (02 Nos) 5. Senn Miller retractor (06 Nos) 6. Small Langenback retractor, 20mm x 6mm (10 Nos) 7. Medium Langenback retractor (6 nos)
12	Retractors <ol style="list-style-type: none"> 3. Obwegeser Mandibular channel retractor 17.5 cm, 8 mm both with and without fiber optic cable fitting 5. Sigmoid notch retractor with and without fiber optic cable fitting Left & right 6. Intra Oral Vertical Osteotomy (I.O.V.O.) Retractor 23 cm with and without fiber optic cable fitting 	Retractors <ol style="list-style-type: none"> 3. Obwegeser Mandibular channel retractor 17.5 cm, 10 mm both with and without fiber optic cable fitting (2 Nos each) 5. Sigmoid notch retractor with fiber optic cable fitting Left & right 6. Delete
14	Nasal Retractors/ <ol style="list-style-type: none"> 1. Tessierr Nasal specula 14 cm, length of blades 40 mm 	Nasal Retractors/ <ol style="list-style-type: none"> 1. Delete
15	Cheek retractors <ol style="list-style-type: none"> 1. Cheek retractor 21 x 23 mm / 26 x 35 mm 18 cm 	Cheek retractors <ol style="list-style-type: none"> 1. Delete
17	Hooks (2 each) <ol style="list-style-type: none"> 1. Skin hook 19 cm 2. Bone hook, 18.5 cm 	Hooks <ol style="list-style-type: none"> 1. Skin hook 19 cm (06 Nos) 2. Bone hook, 18.5 cm (02 Nos)
18	Elevators (2each) <ol style="list-style-type: none"> 1. Obwegeser Multi Purpose Periosteal elevator with beveled edge, sharp, 18 cms, 6mm, 9mm, 11mm 2. Obwegeser Multi Purpose Periosteal elevator with flat end, sharp, 18 cms, 6mm, 9mm, 11mm 7. Obwegeser sharp stripper, 5 mm, 7mm, 20.5 cm to engage the posterior and inferior borders of the mandible 8. Pterygo-massetric sling stripper Rt and Lt, 	Elevators (2each) <ol style="list-style-type: none"> 1. Obwegeser Multi Purpose Periosteal elevator with beveled edge, sharp, 18 cms 9mm & 11 mm 2. Obwegeser Multi Purpose Periosteal elevator with flat end, sharp, 18 cms, 9mm & 11mm 7. Obwegeser sharp stripper, 7mm, 20.5 cm to engage the posterior and inferior borders of the mandible 8. Pterygo-massetric sling stripper Rt and Lt,

	Blunt, 23 cms, 6.5mm, 9mm. 10. Dingmann Zygoma elevator blunt 22 cm	Blunt, 23 cms, 9mm. 10. Delete
21	Osteotomes (2each) 1. Curved, 2mm, 4mm, 6 mm, 8mm, 10mm, 12mm, 13.5mm 2. Straight 2mm, 4mm, 6mm, 8mm, , 10mm, 12mm, 13.5mm 15 . Tessier Retromaxillary chisel, curved 6 mm, 16.5 cm 17. Bone graft osteotome, small, hexagonal handle, 10 mm, 16 cm straight & Curved	Osteotomes (1each) 1. Curved 4mm, 6 mm, 8mm, 10mm, 12mm, 13.5cm 2. Straight 4mm, 6mm, 8mm, , 10mm, 12mm, 13.5cm 15. Delete 17. Bone graft osteotome, small, hexagonal handle, 10 mm straight
22	Mallets / Mallets with interchangeable nylon faces. 340g 19cm 26mm	Delete
23	Bone Holding Forceps 3. Dingmann, modif. heavy pattern 18 cm	Bone Holding Forceps 3. Delete
24	Forceps 2. Connecting clamp for pair of Maxillary Disimpaction forceps 5. Maxillary palatal bone spreader 17 cm 6. Posnick Pterygomaxillary suture bone spreader 20.5 cm 12. DANDY Forceps, curved sideways, cross serrated jaws 12 cm	Forceps 2. Delete 5. Delete 6. Delete 12. Delete
26	Atraumatic scalp clamp (Raynee Clips) Added Para:	Should include the clip applicator along with the container
33	Extra-Fine Explorer / Round Handle	Deleted
	Para Added	Microsurgical instruments in suitable storage container 1. Bulldog clamp with approximating clamp, size RD-D for use in 2mm to 5mm vessels (2 Nos) 2. Bulldog clamp without approximating clamp, size RD-S for use in 2mm to 5mm vessels (2 Nos) 3. Clamp applying forceps (2 Nos) 4. Vessel Dilators, angulated (1 Nos) 5. Microsurgical dissecting scissor (2 Nos) 6. Microsurgical Adventia Scissor (1 nos) 7. Microsurgical Needle Holder (2 Nos) <i>Clarification: Bidder may provide this instrument by any third party manufacturer, however it has to comply with the specifications and certifications mentioned earlier.</i>
	Added para	CMC not required for this schedule

All other terms and conditions of the tender enquiry remain unaltered.