



JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)

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C O R R I G E N D U M

In light of the decisions taken by the Technical Expert(s) with reference to the pre-bid meeting for the representation(s) submitted by the prospective bidder(s), the amendments/incorporations have been made in the tender document for the procurement of **Ophthalmology Equipment under group "Machinery & Equipments"** uploaded vide No. JKMSCL/Mach/2022/515 dated 19.02.2022. The amendments in the technical specifications as recommended by the technical experts are appended herewith as **Annexure I**.

The Critical dates are as under:


1. Last date and time for submission of online bids: 04.04.2022 upto 1600 hrs
2. Date and time for online opening of technical bids: 05.04.2022 at 1100 hrs

Rest of the specifications & conditions of bid other than mentioned in Annexure I shall remain unchanged.

Please Note:

1. Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.
2. All the bidders are requested to keep themselves updated & submit their bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e.portal www.jktenders.gov.in and www.jkmsclbusiness.com.

Encl : 11 lvs


24.3.22
General Manager (Adm),
JKMSCL

No.: JKMSCL/Corg/2022/5319-21

Dated: 24.03.2022

Copy for information to the:-

1. Managing Director, JKMSCL.
2. General Manager-K (P&S, I.T), JKMSCL.
3. I/C website to upload the amendments on www.jkmsclbusiness.com & www.jktenders.gov.in.

Annexure E

Technical specifications of Vitrectomy Unit

Parameter specification

IRRIGATION

Fluid delivery source -gravity fed- eye pressure determined by the height of irrigation
VENTED gas forced infusion system to maintain IOP

Forced irrigation – eye pressure controlled by the equipment

Control System foot pedal

ASPIRATION

Aspiration pump types peristaltic or venturi
peristaltic and rotary vane

Default vacuum level User programmable

Available vacuum range from 5 to 650 mmHg

Default flow rate User programmable

Available flow rate range from 0 to 65 cc/min. step 1cc/min (peristaltic only)

Available aspiration rise time adjustable on 25 levels (0.5 s-12s)

Surgeon mode (linear aspiration) Linear aspiration(vacuum and /or flow rate)from
0 to

Preset linearly controlled via system foot pedal

Control System foot pedal

VIT (VITRECTOMY)

Hand piece type pneumatically powered guillotine cutter
Pneumatically powered microscissors
The vitrectomy probe should work with dual pneumatic line

Cutting mode reciprocating motion

Default cut rate User programmable

Available cutting rate from 60 to 10,000 cuts per minute
Upgradeable to 20,000

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Single cut	Single cut mode available
Actuating medium	pressurized air
Operating pressure	from 2.3 bar to 4.2 bar
Surgeon mode (linear cut) pedal	linear cut rate from 0 to preset controlled via system foot pedal
Control	System foot pedal

DIATH (DIATHERMY)

Type	bipolar generator
Operating frequency	2 MHz
Nominal power	9 W (200 Ohm Load)
Default bipolar power	User programmable
Available bipolar power	from 5 to 100%
Surgeon mode (linear power) foot pedal	allows linear control of the DIATHERMY power via system foot pedal
Hand piece type diathermy pencils	bipolar microforceps, slim stat pencil eraser intraocular
Control	System foot pedal

ILLUMINATION

Source type	3 led light sources/XENON with dual port
Intensity adjustment	mechanical diaphragm, 20 levels + 4 protection cut off filters

AIR INJECTION SECTION

Nominal pressure	from 5 to 120 mm/Hg
Safety devices	air activation sound

SILICONE INJECTION SECTION

Nominal pressure	from 0.4 to 5 bar
Signals	silicone injection activation sound, low pressure at air inlet
Control	System foot pedal

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Hand piece type	piezoelectric
Frequency	32 KHz to 43.5 KHz with Torsional Phaco
TIP stroke	from 0 to 100 μ m
Power Control	panel or linear control of the U/S power via system

Annexure E

LASER

U/S Mode	foot pedal depression linear or panel; continuous, short pulse, single burst, multi-burst, continuous burst, programmable emission mode
Laser type	Diode pumped and frequency doubled Nd:YVO
Wave length	532nm
Laser class	IV
Laser Power	Laser should have dual port to connect LIO Endlaser Adjustable from 50mW to 2000mW
Pulses length	Adjustable from 10ms to 2s
Pulses interval	Adjustable from 0 to 1s
Cooling system	Thermo-electric
Aiming beam wavelength	635 nm
Aiming beam LASER class	II
Aiming beam power	Adjustable from 0 to 1mW
Hand piece type	20GA, 23GA, 25GA and 27GA Ophthalmic endolaser probe

FOOT PEDAL

Programmable, simultaneous double linear, single linear, Bluetooth	
Degree of protection against harmful ingress of water	IPX8
Number OF ON/OFF controls	9, user configurable
Number of Linear controls	3 (2 of which simultaneous), user configurable
Wireless type	Class 2 Bluetooth 2.1
Operating frequency	2400 -2480 MHz
Transmission power	4dbm Max
Operating range	10m
Power supply	NiMh 2700mAh rechargeable battery
Operating time (on battery)	20hr approximately

COMPRESSED AIR SPECS

Input air pressure	from 500 to 800 (Pa (from 72 to 116 PSI)
Air consumption	32 normal litre/ minute

ELECTRICAL SPECS

Input voltage	100- 240 vac.
Frequency	50/60 Hz
Regulatory compliance	93/42/EEC Medical Devices Directive (IMDD)
Technical standards	EN60601- 1 EN60601- 1-1 EN60601- 1-2 EN60601- 2-2

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Light Source: Xenon/LED

Foot pedal should have wireless/ wired foot pedal.

Specification of IOL

Measurement range for IOL

Axial Length (Interferometry) 830nm, 15 mm - 38 mm Corneal Radii 28.00D - 67.50D	Super luminescent diode 5.00mm - 12.00mm /
ACD measurement - 6.5mm WTW measurement	Interferometer 1.5mm 6,0 mm- 18,0 mm
Pupillometry pupil size 0.5 mm - 10 mm Lens Thickness (interferometry)	Dynamic, Photopic & Mesopic, 0.5mm - 6.5mm

CCT measurement (interferometry) 0.800mm	0.300mm -
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On-board calculation formulas

IOL formulas SRKII, SRKT, Barrett, Universal II, Olsen Post Refractive Surgery IOL formulas Shammas No History, Barrett True K, Barrett Rx	Haigis, Hoffer Q, Holladay 1, Camellin Calossi and Barrett Rx
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Placido Topography specifications

Keratoscopic Cone (topographic map) 24 rings on a 43 dpt sphere, working distance 80 mm Points analysed	Over 100,000
Points measured Cornea coverage sphere) 42.2 dpt with N=1.3375	6,200 up to Ø 9,8 mm (on a 8 mm

Guided focus system	Yes
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Keratoconus screening

Apical Curvature	Yes
Apical Gradient of Curvature	Yes

Symmetry index
Kpi (Keratoconus probability index)

Yes
Yes*

Software features

Toric IOL calculator
Oculentis Toric IOL
Zernike analysis
7.0 mm

Generic Toric IOL,
Pupil size 2.5 mm -

Print to USB printer, Network printer, PDF to
shared network folder & PDF to USB drive

Instrument Specifications

Display
Storage
SSD

10.1" touch screen
320 GB HDD + 32 GB

Operating system
Processor

Windows 10
AMD G-T56N

Internal memory
Power input
Hz

2GB RAM
AC 100 - 240V 46-63

Dimensions
(H) x 470 mm (L)
Weight

320 mm (W) x 490 mm
18 kg

Connections
Supports
External USB keyboard / mouse

1 x LAN, 2 x USB
USB Barcode scanner,

Marking

CE, ETL

Reports

Measurement overview

Yes

Pupillometry
IOL

Yes
Yes

Generic Toric IOL
Oculentis Toric IOL

Yes
Yes

Technical data IOL master

Measurement range	Axial length 14 -38 mm
	Corneal radii 5 -11 mm
	Anterior chamber depth 0.7 - 8
mm	
	Lens thickness
1- 10 mm (phakic eye)	0.13 -
2.5 mm (pseudophakic eye)	
	Central corneal
thickness 0.2- 1.2 mm	
	White to white 8 -16 mm
Display scaling	Axial length 0.01mm
	Corneal radii 0.01 mm
	Anterior chamber depth 0.01 mm
	Lens thickness
0.01mm	
	Central corneal
thickness 1 μ m	
	White to white 0.1 mm
SD of repeatability	Axial length 5 μ m
	Corneal radii 0.09 D
	Cylinder >0.75 D,
axis 3.8	
	Anterior chamber depth 7 μ m
	Lens thickness
6 μ m	
	Central corneal
thickness 2.5 μ m	
	White to white 111 μ m

IOL calculation Formulas
universal II & Barret TK

Barret suite : Barret

Universal II, Barret

toric & Barret TK toric

Barret true k &

Barret true K with TK

Haigis suite, Haigis, Haigis-I, Haigis- T

Hoffer Q Holladay 1 & 2 SRK/T
Interfaces

EQ Workplace

EQ Mobile

FORUM eye care data management system

computer assisted cataract surgery system

CALLISTO eye

Data interface for electronic medical record (EMR)

patient

management system Holiday IOL

Consultant software and phacooptics

Data export to USB storage media

Ethernet port for network connection and network

printer

Line voltage

100 - 240 V + 10%

Line frequency


50 - 60 HZ

Power consumption

max. 150 VA

Laser class

1


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Visual field Analyzer

Standards

Conformity to
standard for
product

Visual field analyzer should have Goldman standard or international
Standard with automated full field 90 degree perimetry

Performance Parameters

Purpose

It is an instrument to measure peripheral (side) vision

Integrated
computer system
provided

Yes

Data Storage
Capacity in GB

500

Availability of CD/
DVD Drive/USB

Yes

Type of display used

Touch Screen LCD/ External Computer

Type of Stimulus size

III

Type of visible light

Broad band visible light

Stimulus or
background color

White on White

Temporal Range
should be suitable for
central 30

Yes

/central 24 & full
fields testing

Type of central fields
test pattern to
analyse

30 to 2

Type of peripheral
field test pattern to

60-4

analyse

Type Threshold test strategies	SITA Fast or equivalent
Type of Screening field test to analyse	P-60
Type of Screening field strategies to analyse	Quantity defects
Kinetic perimetry	Both manual & Automated
Facility of Glaucoma hemi- field test & Blind test monitor	Yes
Facility of Video eye monitoring,	Yes
Facility of Gaze tracking monitoring system	Yes
Availability of Verte monitoring and Head tracking	Yes
Availibility of Inbuilt trial lens holder along with rimless lenses of di"erent power in trial lens boxas accessories	Yes
Facility to take Back up on USB drive	Yes
Facility to connect with other device like Fundus Camera,OCT	Yes
Availability of automatic pupil size measurement	Yes
Facility of Motorized chin rest	Yes

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Original motorized
table provided No (for local)

Facility of Glaucoma Yes

progression analysis
(GPA) software for
monitoring

disease progression
with visit wise graph
and VFI

index

RelEye monitor Yes
provided

Facility of Automatic Yes
trial lens

Provision of good Yes
quality laser jet
printer/post script
network printer

Database software DICOM
used

Product Literature Yes
to be provided must
Original and
Photocopies/compu
ter generated
copies are not
acceptable

Comprehensive No CMC after warranty
Maintenance
Contract (CMC)
which includes
preventive
maintenance , after
satisfactory
completion of
Warranty period

Operating 10 -40 degree C & Humidity of 15-90%

temperature &
humidity

Main cable with **Yes**
power socket of
standard indian make
to be provided

Dimensional Parameters

Size of bowl radius in **30 cm**
cm

Bowl **31.5**
Illumination in
Asb(apostilb)


Maximum intensity in **10000**
Asb

Stimulation **200**
duration in ms

Temporal Range **90**
in degrees

Size of machine (L **460x510x580**
xWxH) in mm x mm
x mm

Weight of machine in **27.8**
kg


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