



भारत सरकार/Government of India
स्वास्थ्य और परिवार कल्याण मंत्रालय/ Ministry of Health and Family Welfare
प्रधानमंत्री स्वास्थ्य सुरक्षा योजना/PMSSY
अखिल भारतीय आयुर्विज्ञान संस्थान/All India Institute of Medical Sciences
मंगलगिरि, आंध्र प्रदेश/Mangalagiri, Andhra Pradesh

www.aiismangalagiri.edu.in

Ref: AIIMSM-ADMN/PROC(CPPP)/42/2025-Procurement AIIMS MG

Date: 18-02-2026

Call for Objection

Subject: Inviting comments/objections, if any, before declaring proprietary article for procurement of “**Multi-Modal Retinal Angiography Imaging System**” (Make by: **Heidelberg**) for the Department of Ophthalmology, AIIMS Mangalagiri.

Ophthalmology Department, AIIMS Mangalagiri has to procure “**Multi-Modal Retinal Angiography Imaging System**” through a Proprietary Article basis.

The proposal submitted by **M/s. Toshbro Medicals Pvt. Ltd.** 5-10-197/ABC, Flat No.403, Reliance Krishna, Hillfort Road, Hyderabad-500004 is the agents of sole manufacturer i.e, **M/s. Heidelberg Engineering Gmbtt**, Max-Jarecki-Str.8, 69115, Heidelberg, Germany, along with the Proprietary Article Certificate, is attached & uploaded on the Institute website.

The above documents are being uploaded for open information to submit objections, comments if any, from any manufacturer/supplier before declaring proprietary articles of the said equipment/items to be procured, within 10 days (i.e., **28-02-2026**) from the date of issuance/uploading of the notification.

The objection should be raised in the technical compliance sheet as enclosed in **Annexure-I**, if any Firm claims the suitability of their product with respect to the specification mentioned.

The comments should be sent to the office of the Procurement Cell, Room no: 2151, Logistic block at AIIMS Mangalagiri in a sealed envelope with the above reference on or before **28-02-2026** up to 05:00 PM from the date of uploading on the institutional website, failing which it will be presumed that any other manufacture/vendor is having no comment to offer and case will be decided on merits.

-sd-

AAO (Procurement)
AIIMS Mangalagiri

P – 3 FORM

(to be attached with P – 2 form for Proprietary items)

AIIMS Rishikesh

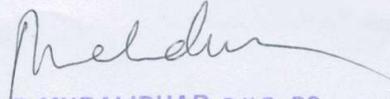
PROPRIETARY ARTICLE CERTIFICATE

It is certified that the items **Heidelberg Retinal Angiography Imaging System** model required in the P – 2 form should be purchased from **M/s Toshbro Medicals Pvt. Ltd.** To the best of my knowledge **M/s Toshbro Medicals Pvt. Ltd.** are the sole manufacturer / agents of the sole manufacturers

Similar items manufactured by other firm (s) shall not be suitable for our purpose for the following reasons: -

The HRA module is an accessory to the existing Spectralis OCT machine provided under DPR.

(Sign of Indenter)



Dated

Dr. P. MURALIDHAR, D.N.B., DO
AP Regd.No: 45750
Associate Professor
DEPT. OF OPHTHALMOLOGY
AIIMS, MANGALAGIRI.

Designation

Department

Recommendation:

G. Pradyumna
23/10/2024

Signature of Head of Department / Section

HOD, Department of Ophthalmology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

N.B.: The indenter before recording the above certificate should satisfy himself that the article is genuinely of proprietary nature manufactured under patent laws.

Heidelberg, 12.09.2025

TO WHOMSOEVER IT MAY CONCERN

PROPRIETARY CERTIFICATE FOR SPECTRALIS HRA

Heidelberg Engineering GmbH
Max-Jarecki-Str. 8
69115 Heidelberg · Germany

Phone +49/62 21/64 63-0
Fax +49/62 21/64 63 62
www.HeidelbergEngineering.com

Dear Sir or Madam,

We hereby confirm that the SPECTRALIS HRA device is proprietary and can only be linked with the existing Spectralis OCT installed at your esteemed institution. The imaging platform delivers a combination of features, which is unique and cannot be found in any other angiography device.

The SPECTRALIS HRA comprises the following features and technologies:

- The SPECTRALIS is an upgradeable imaging platform which uses a confocal Scanning Laser Ophthalmoscope (cSLO). Since cSLO imaging minimizes the effects of light scatter, it can be used effectively even in patients with cataracts. SPECTRALIS is the only imaging platform with the patented TruTrack Active Eye Tracking technology.
- Image capture is possible with a minimum pupil size of 1.5 to 2 mm.
- The patented TruTrack Active Eye Tracking...
 - Recognizes anatomical structures within the cSLO image in real-time and uses the information to continuously check the position of the scan during acquisition.
 - Controls the quality of the scan in real-time and only saves images taken with sufficient quality and at the right location of the retina. This feature even allows patients to blink or move during image acquisition, making the examination less stressful for both the patient and the photographer without sacrificing image quality.
- In combination with the AutoRescan function, TruTrack Active Eye Tracking enables automated capture of follow-up examinations at the exact same position as in the initial examination.
- NoiseReduction is a proprietary technology that reduces noise inherent in scanning laser imaging. By capturing multiple images in the exact same location this technology can differentiate structural information from noise and then effectively reduce noise. Several images taken at the exact same spot are being averaged to one single image in real-time and optic noise is suppressed. The so-called Automatic Real-Time technology (ART) can average up to 100 scans.
- The HEYEX and HEYEX 2 software platforms allow to integrate all Heidelberg Engineering devices within a clinic or practice network. Patient data can be viewed at viewing stations, enabling more efficient workflow. All modalities can be used in one single device by changing the lens and software modules.

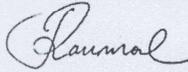
Managing Directors
Arianna Schoess Vargas
Christoph Schoess

Mannheim HRB 334163

G. Pradeep
HOD, Department of Ophthalmology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

Please find further technical specifications below.

Yours sincerely,



Heidelberg Engineering GmbH
Max-Jarecki-Str. 8
69115 Heidelberg · Germany

Azim Ranmal
Area Sales Director EMEA
Heidelberg Engineering GmbH

General Information

Input voltage	100 – 240 Volt
Power consumption	140 VA

Light Sources

FA laser	486 nm (blue)
Green laser	518 nm (green)
ICGA laser	786 nm (infrared)
IR laser	815 nm (infrared)

Standard Objective Lenses

Max. scan field (visual angle)	30° × 30° (ca. 9 × 9 mm)
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Widefield Imaging Objective Lens

Max. scan field (visual angle)	Ø 55° (ca. 16,5 mm)
High resolution mode (digital)	≈ 10 µm/pixel lateral

Ultra-Widefield Imaging Objective Lens

Max. scan field	Ø 102° (ref. pupil), Ø 135° (ref. eye center)
High resolution mode (digital)	≈ 20 µm/pixel lateral



HOD, Department of Ophthalmology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

Ref: HE/AP/25-26/06/21(R)
Dt. 25.09.2025

All India Institute of Medical Sciences
Mangalagiri
Guntur District - 522503
Andhra Pradesh

Tosbro
M E D I C A L S

TOSHBRO MEDICALS PVT. LTD
5-10-197/ABC, Flat no. 403
Reliance Krishna, Hillfort Road
Hyderabad – 500004, INDIA
Phone : + 91-40-2329646€
Email : hyderabad@tosbromedicals.com
Web : www.tosbromedicals.com
Service Toll Free No. 18001235533

Dear Sir,

Sub: Heidelberg Retinal Angiography Imaging System model : **Multi-Colour Spectralis HRA**.

With reference to above subject, we are herewith enclosing our offer for Heidelberg Retinal Angiography System model: **Spectralis Multicolor HRA**

Heidelberg Engineering is a high-tech medical device company that designs, develops and manufactures high precision diagnostic equipment for eye care professionals. The core technologies of Heidelberg includes Con-focal microscopy, Scanning Laser Ophthalmoscopy, Optical Coherence tomography and software Image analysis

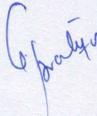
The Heidelberg Retinal Angiography system – Spectralis HRA Confocal high resolution video angiography System. It's confocal, dual laser beam scanning system that allows imaging over large retinal areas and by recording a series of several single images, it reduces back-ground noise to provide high quality IR and Multi-color Fundus images rich in contrast and resolution.

Spectralis HRA Consists of following Imaging Modalities

- High resolution Multi-Color Fundus Imaging
- Fundus Auto Fluorescence (BLUE PEAK)
- Fluorescein Angiography (FA)
- Indo Cyanine Green Angiography (ICGA)
- Simultaneous FA/ICGA
- Red free Imaging
- Wide field Video Angiography

The Salient features consists of:

- **Multi Color Imaging:**
Spectralis Multicolor imaging delivers high contrast, detailed images even in difficult patients like those with cataract or nystagmus. The multi-color imaging in Spectralis is composed of three simultaneously acquired selective color laser images. The versatility to view both the multicolor image and the individual reflectance images provides additional diagnostic power by highlighting structural detail from different depths within Retina.


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All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

Confocal Scanning Laser Ophthalmoscope:

Spectralis works on confocal Scanning laser ophthalmoscopy principle. Individual pixels are illuminated and the confocal optics excludes scattered light and takes information only from the point of focus. Due to this it has enhanced image contrast, sharpness, depth and also low light exposure. Therefore it is safer and more comfortable for patients with small pupil and cataracts.

Automatic Real Time Mode:

The ART (Automatic Real Time) module detects and corrects for eye movements. When active, this module detects any movement of the fundus image in real time, compensating for translational, rotational and shearing movements by compensation of each captured image to a spatially averaged reference image. This significantly improves images that have weak signal to noise ratios, while excluding any artifacts caused by eye movement. This is particularly helpful when imaging autofluorescence and the later stages of angiograms, but also when examining the eye with clouded optical media or high astigmatism. This mode is also useful while performing Composite imaging as it detects horizontal and vertical movements of the camera head and displays a composite Montage on the monitor in real time.

High Resolution IR Imaging:

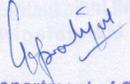
Spectralis Dual beam scanning laser with real time eye tracking reduces noise and provide detailed high resolution IR images. The IR imaging capability of spectralis expands the range of patients that can be imaged when poor media, small pupils or lack of dilation hamper traditional fundus cameras. The invisible infrared light keep the pupil from closing and cuts through the cataracts and hazy media better than white light. Infrared light penetrates deeper into the tissues, often revealing structural changes which may not be visible under contact lens examination or on white light photos. The outline of CSCR or PEDs may be more distinct due to deeper layers reflections.

Auto fluorescence (Blue Peak):

Blue peak TM – Blue laser auto fluorescence is a non invasive diagnostic modality that takes advantage of the natural auto fluorescence property of retina. It provides quantitative assessment of RPE health. Auto fluorescence helps to identify areas of RPE not functioning well enough to process lipofuscin accumulation. Lack of lipofuscin or hypo fluorescence may be an indicator of missing or damaged RPE. Too much lipofuscin (hyperfluorescence) may indicate the first signs of a multi functioning RPE. Characteristic patterns of AF are now being used to track areas of geographic atrophy in AMD.

Fluorescein Angiography:

Spectralis HRA system uses 488nm wavelength of light in FA mode. The dye appears first in choroid and then shortly thereafter in the central retinal artery. There is no standard nomenclature for arterial phase, intermediate arteriovenous phase that lasts upto the filling in retinal veins and finally a late phase during which the fluorescence gradually fades away. Late phase images are taken from 5 minutes – 10 minutes after the injection. Typically FA image is characterized by visible capillaries of the optic disc and a darker central macular region.


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Mangalagiri, Andhra Pradesh

- **Indo Cyanine Green Angiography (ICGA):**

Spectralis HRA system uses 790nm wavelength of light in ICGA mode. Usually the flow of dye in choroidal vessels is very fast and the initial flow is therefore hindered due to short arm retina time. This is compensated by Buffer Switch which when is active captures images two seconds behind and enables the user to visualize the initial flow of dye also through these vessels. The early phase of an ICGA is characterized by appearance of dye in Choroidal circulation. The large choroidal vessels and also retinal vessels are visible. In the mid phase the choiroidal veins are also seen. During the last phase, about 15 minutes after the injection, there are no longer any identifiable details in the choroidal or retinal circulation. The optic disc is dark and the choroidal vessels become hypofluorescent.

- **Simultaneous FA /ICGA**

The Spectralis HRA is optimized to match the peak excitation of fluorescein & ICG and can image both dyes simultaneously, providing a picture of both retinal and choroidal circulation at the same time. The rapid scan speed of spectralis HRA enables dynamic imaging, capturing the subtleties of partial blockages of blood flow.

- **Red Free Imaging:**

Spectralis confocal scanning laser ophthalmoscope with red free imaging uses blue light to illuminate the retina. This wavelength accentuates the visibility of Blood vessels and enhances the contrast of certain structures on the surface of retina, rendering them easier to visualize compared to white light illuminated images. RF imaging highlights structures such as retinal nerve fiber layer and internal limiting membrane (ILM) and also enables the enduser to visualize retinal folds, Cysts, epiretinal membrane and Pseudoxanthoma elasticum.

- **Wide field angiography & OCT imaging :**

The Spectralis enables to obtain wide field OCT and Angiography images. It has multiple ways of obtaining high resolution images covering wider areas of the retina. Using 55° lens, the spectralis can pan the retina, painting a real time ultra-wide field image in angiography mode.

- **Composite Imaging Mode:**

In this mode the operator pans the camera head vertically and or horizontally during the capture of single images. The software automatically evaluates the images and connects them to one another, creating a large composite image. During this process the very rapid image analysis routines recognize any instances of eye movements during image capture sequence and ART compensates accordingly.

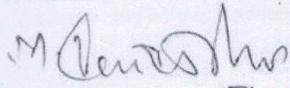
G. Pratyaksh
HOD, Department of Ophthalmology
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Mangalagiri, Andhra Pradesh

Service Support:

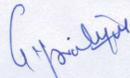
The proposed equipment at your hospital will be installed and supported by our trained Service Engineers. We provide free service during warranty period and after that we have service contracts available with us for the regular maintenance of your equipment.

Thanking you,

Yours Sincerely,
for Tosbro Medicals Pvt. Ltd.,



M. Venkatesh
Deputy General Manager (Diagnostic Products)



HOD, Department of Ophthalmology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

Heidelberg, 12.02.2026

OEM AUTHORIZATION CERTIFICATE

Product: Spectralis MC HRA

Institution: AIIMS – Mangalagiri, Andhra Pradesh, India

To

The Director
All India Institute of Medical Sciences (AIIMS)
Mangalagiri, Andhra Pradesh, India

Subject: OEM Authorization for Supply of Spectralis MC HRA

Dear Sir/Madam,

1. Manufacturer Identity

We, **Heidelberg Engineering GmbH**, are a proven and reputable Original Equipment Manufacturer (OEM) of ophthalmic diagnostic systems, with our manufacturing facility located at Max-Jarecki-Str. 8, 69115 Heidelberg, Germany. We confirm that the **Spectralis MC HRA** is designed, developed, and manufactured by us at the facility.

2. Authorization of Sole Representative

We hereby authorize **Toshbro Medicals Pvt. Ltd.** as our sole authorized representative to submit a quotation, participate in the bid process, negotiate, and enter into a contract with AIIMS – Mangalagiri for the supply of the Spectralis MC HRA. The authorized dealer's registered addresses are as follows:

Registered Office: Khetan Bhavan, 198, Jamshedji Tata Road, Churchgate, Mumbai 400 020, Maharashtra, India

Regional Branch Office: 5-10-197/ABC, Flat No. 403, 5th Floor, Reliance Krishna, Hillfort Road, Hyderabad – 500004, Telangana, India

3. Exclusivity

Toshbro Medicals Pvt. Ltd. is our sole authorized representative for this tender. No other contractor, firm, or individual has been authorized by us to bid on our behalf for the supply of the Spectralis MC HRA to AIIMS – Mangalagiri.

4. Warranty & After-Sales Support

We undertake to provide full warranty support and after-sales service obligations, as applicable per the Bid Document, for all Goods and incidental Works/Services offered for supply by Toshbro Medicals Pvt. Ltd. against this Bid Document. This includes the supply of spare parts, technical assistance, and product training as may be required.

5. Regulatory Compliance

The Spectralis MC HRA complies with all applicable international quality and safety standards, including CE marking, and meets the regulatory requirements for import and use in India as prescribed by the Central Drugs Standard Control Organisation (CDSCO).

6. Validity of Authorization

This authorization shall remain valid for the duration of the tender process and the resultant contract, including any extensions thereof, unless revoked in writing by us.

7. OEM Details

Sl.	Particulars	Details
a)	Name of the Company	Heidelberg Engineering GmbH
b)	Complete Postal Address	Max-Jarecki-Str. 8, 69115 Heidelberg, Germany
c)	PIN / ZIP Code	69115
d)	Telephone (with country/area code)	+49 6221 6463 0
e)	Fax (with country/area code)	+49 6221 6463 62

For and on behalf of Heidelberg Engineering GmbH,

Authorized Signatory

Name: Azim Ranmal

Designation: Sales Director EMEA

Specifications of Multi Modal Retinal Imaging System

- The Retinal Imaging Platform should be based on following core technologies:
 - a) Confocal Scanning Ophthalmoscope (c-SLO) scanning technology
 - b) Spectral Domain
 - c) It should have Dual laser beam for Active Live Eye Tracking System.
 - d) Noise Reduction
 - e) Auto Rescan
- Should have following imaging modalities
 - a) Laser based Multi color Fundus Imaging.
 - b) Infra -Red Imaging
 - c) FA
 - d) ICGA
 - e) Simultaneous FA + ICGA
 - f) Dynamic Video Angiography
- Should have following technical data
 - a) **General Information**
 - Input voltage 100 – 240 Volt
 - Power consumption 140 VA
 - b) **Light Sources**
 - IR laser 815 nm (infrared)
 - FA Laser 486 nm (blue)
 - ICGA 786 nm (infrared)
 - c) **Standard Objective Lenses**
 - Max. scan field (visual angle) $30^\circ \times 30^\circ$ (ca. 9×9 mm)
 - ART (image averaging) up to 100 single images
 - d) **Wide field Imaging Objective Lens**
 - Max. scan field (visual angle) $\varnothing 55^\circ$ (ca. 16,5 mm)
 - High resolution mode (digital) $\approx 10 \mu\text{m}/\text{pixel}$ lateral
 - ART (image averaging) up to 100 single images
 - e) **Ultra-Widefield Imaging Objective Lens**
 - Max Scan Field $\varnothing 102^\circ$ (ref. pupil), $\varnothing 135^\circ$ (ref. eye center)
 - High resolution mode (digital) $\approx 20 \mu\text{m}/\text{pixel}$ lateral
 - ART (image averaging) up to 100 single images
- The system should be provided with
 - Latest Computer work station with 19inch monitor to view and run the image acquiring software
 - Patient data base management software
 - Latest Printer, External Hard disk more than 1 TGB and suitable UPS
 - Motorized Table.
 - Must be CE/FDA approved
 - Warranty to be quoted for five years and thereafter CAMC for 5 years

G. Prasad

HOD, Department of Ophthalmology
All India Institute of Medical Sciences
Mangalagiri, Andhra Pradesh

ANNEXURE – I

SPECIFICATIONS

Objection should be submitted in the following format:

S. no	Item specification as given	Specification offered by firm	Deviation if any	Remarks