



2021

وزارة الصحة الفلسطينية
Ministry of Health



Project Proposal

Providing ophthalmic surgical microscope for Eye
Specialist Hospital, Ministry of Health

E-Mail: icd@moh.gov.ps

Tel: 00970 8 2826934

Fax: 00970 8 2826325



Project number	2021/147				Date:	24/08/2021	
Project name	Providing ophthalmic surgical microscope for Eye Specialist Hospital, Ministry of Health				Applicant for the project	General Directorate of Hospitals	
Project duration in months	6 months			Type of project		Within the plan	
						Urgent	
Project field		Construction		Rehabilitation		Machines & Equipment	Therapeutic Services
		Consumables		Training and Scholarship		Operational Expenses	Others (...)
Implementing body	Ministry of Health				Project Partners		
Beneficiaries	More than 2,000 patients yearly				Place of implementation		Eye Specialist Hospital
Estimated budget (USD)	\$70,000 (Seventy thousand dollars)						
Summary of the project (Overview of the project idea and requirements to solve current problem)	<p>The idea of the project is to provide ophthalmic surgical microscope for Eye Specialist Hospital. The human eye is an extremely delicate organ, and so performing ophthalmic surgery requires the ability to monitor progress on a micro-level. Ophthalmic operating microscopes are designed to provide high contrast and detailed imaging of all regions of the human eye. This instrument enables eye surgeons to perform delicate anterior and posterior segment procedures. Eye Specialist Hospital is the only specialized hospital in Ministry of Health. It contains 3 operating rooms, two of which are suspended due to the lack of some necessary equipment, the most important of which is an ophthalmic surgical microscope. This device will benefit more than 2,000 patients yearly and decrease number of patients on waiting list. In addition, conducting surgical interventions by this device in a timely manner will protect patients from complications that may cause blindness. Therefore, providing a new ophthalmic surgical microscope with good specifications will give high-quality results for surgical operations, compared to the available devices, which are poor in efficiency and performance.</p>						

<p>Project justifications</p>	<ul style="list-style-type: none"> • Conducting surgical intervention in a timely manner, benefiting patients and protecting them from complications that may cause blindness. • Patients suffer from the high cost of eye operations outside the Ministry of Health. • Poor efficiency and performance of the current available devices. • The need to operate an operating room and provide the necessary surgical services to patients as soon as possible. 																																																																			
<p>Project objectives</p>	<p><u>Overall goal:</u></p> <ul style="list-style-type: none"> ▪ Improving the quality of eye surgery services in Ministry of Health by providing ophthalmic operating microscope at Eye Specialist Hospital. <p><u>Specific objectives:</u></p> <ol style="list-style-type: none"> 1. To provide one ophthalmic operating microscope at Eye Specialist Hospital. 2. To decrease the number of patients on waiting list. 3. To reduce the number of transferring patients to private hospitals or abroad. 4. To save the time, which participates in earlier relief of the episode or the disease, as well as minimizing the complications. 																																																																			
<p>Current indicators</p>	<ul style="list-style-type: none"> ❖ The service stopped in many times due to malfunction of the existing devices. ❖ Difficulty in treating some patients without this device. ❖ Increasing the number of patients on waiting list. 																																																																			
<p>Expected indicators after implementing the project</p>	<ul style="list-style-type: none"> ✓ Providing one ophthalmic surgical microscope at Eye Specialist Hospital. ✓ Ease of treating many cases and reducing waiting list. ✓ Raising the quality of eye surgery services. 																																																																			
<p>Schedule of the main project implementation phases</p>	<table border="1"> <thead> <tr> <th rowspan="2">Stage</th> <th colspan="12">Duration (months)</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>Preparation</td> <td style="background-color: #4F81BD;"></td> <td style="background-color: #4F81BD;"></td> <td></td> </tr> <tr> <td>Implementation</td> <td></td> <td></td> <td style="background-color: #4F81BD;"></td> <td style="background-color: #4F81BD;"></td> <td style="background-color: #4F81BD;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Evaluation and closure</td> <td></td> <td></td> <td></td> <td></td> <td style="background-color: #4F81BD;"></td> <td style="background-color: #4F81BD;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Stage	Duration (months)												1	2	3	4	5	6	7	8	9	10	11	12	Preparation														Implementation														Evaluation and closure													
Stage	Duration (months)																																																																			
	1	2	3	4	5	6	7	8	9	10	11	12																																																								
Preparation																																																																				
Implementation																																																																				
Evaluation and closure																																																																				
<p>Budget breakdown</p>	<table border="1"> <thead> <tr> <th>#</th> <th>Item</th> <th>Qty.</th> <th>Unit cost (\$)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Ophthalmic Surgical Microscope</td> <td>1</td> <td>70,000</td> </tr> <tr> <td colspan="2">Total cost in numbers</td> <td colspan="2">70,000</td> </tr> <tr> <td colspan="2">Total cost in words</td> <td colspan="2">Seventy thousand dollars</td> </tr> </tbody> </table>	#	Item	Qty.	Unit cost (\$)	1.	Ophthalmic Surgical Microscope	1	70,000	Total cost in numbers		70,000		Total cost in words		Seventy thousand dollars																																																				
#	Item	Qty.	Unit cost (\$)																																																																	
1.	Ophthalmic Surgical Microscope	1	70,000																																																																	
Total cost in numbers		70,000																																																																		
Total cost in words		Seventy thousand dollars																																																																		

Sustainability of the project	 Periodic maintenance to device and provision of necessary spare parts to continue their use and benefit through the MoH.		
Project monitoring & evaluation	<ul style="list-style-type: none"> ➤ Reports of price offer and bidding according to the specifications of the required device. ➤ Reports of receive and handover of device and their conformity with the required specifications. ➤ Follow up the periodic and final reports of the project. ➤ Report on the impact of project implementation on relevant indicators before implementation. 		
Annexes	- Technical specifications of the required device are attached.		
Preparation & supervision	Project designer: Mr. Mahmoud Elkhateeb		Director of projects preparation department: Dr. Hamza Abdeljawad
Contact	Name:	Dr. Abdellatif El-Hajj	Job title: General Director of International Cooperation and Projects
	E-mail:	icd@moh.gov.ps	Phone with country code: 00970 8 2826325

Technical Specifications of Ophthalmic Operating Microscope

Brand name & Well Know Manufacture:

- Ophthalmic operating microscopes are used to magnify eye anatomy to assist during ophthalmic surgery.
- A binocular stereoscopic type microscope with built in illumination provided with facility for changing the magnification without disturbing other alignments.
- Ophthalmic Operating Microscope (Floor stand microscope), complete unit with all standard accessories.

Control unit:

- LCD touch screen.
- Individually programmable for surgeons.
- Hard keys illumination control.
- The device should have FDA and CE approval certificate.
- Binocular optical head with coaxial illumination, Rotation 180° (360°).
- For posterior segment Vitreoretinal surgery.
- BIOM Posterior surgery with non-contact lenses set (Qty 2 priced separately).
- Magnification 4.5x to 21x with 12 different setting points.
- Integrated coaxial assistant microscope.
- Assistant coaxial binocular microscope with zoom and focus synchronized with surgeon microscope.

Eye Piece:

1. Wide field minimum 10x to 12.5x individually adjustable.
2. Include binocular tube 45 deg.
3. Should have dioptric adjustment of -5 to + 5
4. Interpupillary distance: 50 to 80mm
 - Objective Lens: focal length (f' minimum 175+/-25 & above) .
 - With wide field system (BIOM):
 - Motorized and integrated with main foot pedal.
 - Rotation angle of lens 0°–360°
 - Lenses included.
 - Working Distance: To be stated for each alternative not less than 175 mm.
 - Total Magnification: 4 to 17.5X or more, if stepped, the steps to be stated.
 - Assistant Binocular Microscope: Assistant Microscope to match the focusing of main Microscope.

- Zooming ratio if available 1:6 .
- Field of Vision: Range 40 mm to 50 mm or more (at the minimum magnification).
- Motorized focusing, range: 70 mm
- Motorized zoom system with apochromatic lens, zoom ratio 1:6
- Motorized foot control.
- Intensify: Maximum 80,000 lux or more.
- Coaxial and full-field illumination.
- Fiber-optic illumination.
- Backup lamp in lamp housing, can be slid into position manually.

LED fiber-optic illumination:

- Near-daylight color temperature.
- Gray filter.
- Blue blocking filter.
- Optional: Fluorescence filter.
- Retina protection filter.
- Viewing angle from 45 to 90 degree.
- Motorized XY coupling, travel range: max. 61 mm x 61 mm
- Automatic centering at the touch of a button.
- U.V. Filter: U.V filters switchable facility for occluding pupillary light.
- Compact system, battery operated.
- Teaching head is included.
- Video output to monitor.
- LCD Monitor not less than 19" is included.
- Built in beam splitter.
- Multifunction foot switch for alter & ON, OFF illumination, intensity, zoom.
- Magnification, focus, angle and x-y positioning and inverter controlling.
- Continuous zoom.
- Counter balanced spring type.
- Stand type microscope.
- First arm length around 375 mm with rotation 300 degree.
- Second arm length around 1000mm with rotation 300 degree.
- Focus movement 600mm
- View inverter.
- Adjustable height.

- All movements are with magnetic locking.
- Movable on 4 castors with brake mechanism.
- Re sterilize plastic handle cover (3 sets).

Video recording system:

- HD video recording.
- HD screen for video viewing and teaching.
- USB ports for video sharing.
- Video output: HDMI
- Connectivity: Ethernet, USB
- Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length .
- Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.
- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.

Warranty:

- 3 years warranty included tube, spare parts, UPS and preventive maintenance.
- Warranty 10 years for spare parts.
- All main component must from the original Manufacturer.
- Must provide user training (including how to use and maintain the equipment).
- Operator and Service Manuals in English is Included.