

INFRASTRUCTURE FOR IOMS

Infrastructural requirement for Centres in Interactive Online Mentoring Sessions (IOMS)

Learning Centre (if asked for by Mentor)		Mentoring Centre (if asked for by Mentor)	
Estimated Capital Cost (One Time)			
Particulars	Cost (in Rs)	Particulars	Cost (in Rs)
Desktop (without monitor)	20,000	Laptop	25,000
Projector	9,000	Projector	-
Web camera	2,000	Web camera	-
Mixer cum amplifier with Speaker and Wireless microphones	14,000	Headset with Microphone	3,000
Total (Max. if nothing is available)	45,000	Total	28,000
Writing Device (WSWD). It shall be required when Learning Centre is ready for collaborative use of Whiteboard.	5,000*	Surface Writing device	5,000*
Total with Total with WSWD (at a later date once IOMS stabilizes)	50,000	Total with Total with WSWD	33,000
Estimated Recurring Cost			
a. Internet charges, based on estimated monthly data transfer which depends upon choice of cloud platform, and tariffs of ISP b. Cloud Platform Charges, to be shared across Learning Centres		Internet charges, based on estimated monthly data transfer which depends upon choice of cloud platform, and tariffs of ISP	
Cloud platform : Google Hangouts is a free Video Conferencing cloud platform. Though it provides free connectivity upto 15 nodes, connectivity of maximum 5 Learning centres is made in IOMS. This self-imposed limitation is to – a) maintain quality of interaction and mentoring, b) open an opportunity for more co-passionate mentors to collectively participate in mentoring deprived and unprivileged children.		IOMS is an initiative driven with Personal Social Responsibility (PSR) . It is operating on Zero-Fund-&-Zero-Asset (ZFZA) basis.. The IT Infrastructure with the Mentors has been in use and is working. But, at any stage if upgradation becomes essential, support of facilitators or learning centres would be gratefully welcomed, on ZFZA basis, to maintain continuity of this selfless initiative. Operating cost of Mentor, if required, shall be supported by Learning Centres *- Surface writing device can be replaced with a iPad with an Apple Pencil (stylus), if affordable for, satisfying screen writing alongwith versatility of the device. It is available in different sizes and versions, and thus the cost	

Specification: These are based on ground level operating experience and need of optimizing the cost on the initiative. This is essential to utilize financial resources, considered scarce, for benefitting more number of students at more number of centres and mentoring centres.

These specifications have been updated based on experience of operation of IOMS with available options. Whiteboard application in the tried out cloud platforms are a bit inadequate in terms of writing lucidity. This deficiency is being managed

with Microsoft OneNote application. Suggestions for a proper Whiteboard application as a shared space are welcomed; it will be extremely helpful in exploiting Interactive feature of IOMS with a wireless surface-writing device at each learning centre.

Web Camera: Logitech HD 1080p, with a tripod or wall mounting

Projector: Portronics LED Projector Beam 100”, 100 Lumen, 130” Screen size, 800x480px resolution.

Mixer-cum-Amplifier: Ahuja Make PA Mixer Amplifier Model DPA-370, 30 W Max/37W Max, with speakers and a wireless unit for Two Cordless Mikes. This device offers echoless input/output communication with base computer and Mikes and Speakers in the Class.

Cloud Platform: A-VIEW (Amrita Virtual E-Learning World) developed by Amrita University in association with IIT Bombay, an MHRD, GOI sponsored project.. Problems with Whiteboard functionality of A-VIEW are being circumvented with OneNote app of MS Office for IOMS. This has many features of minimizing bandwidth requirements.

Surface Writing Device: Various model and brands are available. Wherever affordable **iPad with Apple pencil** will give much more satisfying experience along with versatility of the device.

UPS: An additional accessory, for uninterrupted continuity of session, based on power availability to be decided by Learning Center, **not included in above cost estimates.** Individual participants don't need it.

Furniture and Lighting: At Learning Center, as deemed fit by local administration of Learning Center, **not included in above cost estimates.**