कार्यालय संयुक्त संचालक एवं अधीक्षक गांधी स्मारक चिकित्सालय रीवा म.प्र.

<u>निविदा</u>



<u>2019—2020</u>

एम0डी0आर0यू0 में शोध कार्यो के लिये आवश्यक उपकरणों के क्रय हेतु ई—निविदा

(प्रथम आमंत्रण)

कीमत रू. 1000/-(रूपये एक हजार मात्र)

निविदा क्रमांक-05 / 2019-20

ONLINE TENDER SCHEDULE

ई-निविदा विज्ञप्ति क 5/2019-20

SEQ NO	SCHEDULE	START DATE & TIME	EXPIRY DATE & TIME	ENVELOPES
1	PURCHASE OF TENDER	15-07-2019	03-08-2019	ENVELOPE A,
1	ONLINE	11.00 AM	5.00 PM	ENVELOPE B
_	DID CHRMICCION ONLINE	15-07-2019	03-08-2019	
2	BID SUBMISSION ONLINE	11.00 AM	5.00 PM	
3	PHYSICAL SUBMISSION OF	15-07-2019	05-08-2019	ENVELOPE A,
3	BID DOCUMENT	11.00 AM	5.00 PM	ENVELOPE B
4	MANDATORY SUBMISSION	06-08-2019		ENVELOPE A
4	OPEN	12.30 PM	-	ENVELOPE A
5	TECHNICAL PROPOSAL OPEN	06-08-2019		
		12.35 PM	-	ENVELOPE B
		lk`Fkd ls		
6	FINANCIAL BID OPEN	lwpuk nh		
		tkosxhA	-	

निविदा में मांगे गए दस्तावेजों की हार्ड कापी 05.08.2019 को सायंकाल 05.00 बजे तक स्पीड पोस्ट / पंजीकृत डाक / स्वयं या अधिकृत प्रतिनिधि उपस्थित होकर कार्यालय संयुक्त संचालक एवं अधीक्षक,गांधी स्मारक चिकित्सीलय रीवा म.प्र. 486001 में जमा करे। पोस्टल विलम्ब के लिए कार्यालय किसी भी प्रकार से जिम्मेदार नहीं होगा।

ई-मेल:- jdsupdtgmhrewa@rediffmail.com, Fax-07662-242104

संपर्कः— 07662—242104,+91—9179705483, +91—9644695933 +91—8827730393, +91—8871535070

निविदा प्रस्तुत करनें संबंधी सामान्य निर्देश:-

प्रत्येक निविदादाता को निविदा के रूप में 02 सील्ड लिफाफे **ए एवं बी** एक बड़े आउटर लिफाफे **सी** में सील्ड कर प्रस्तुत करने होंगे।

लिफाफा ए में रखे जाने वाले अनिवार्य दस्तावेजों की सूची:-

1. धरोहर राशि रूपये 1,00,000 / —(एक लाख) ऑनलाईन जमा। (सभी ऑनलाईन पेमेंट की रसीद की छायाप्रति संलग्न करना अनिवार्य होगा।

लिफाफा बी में रखे जाने वाले अनिवार्य दस्तावेजों की सूची:-

- 1- eny fufonk i i = gLrk{kj , oa l hy l fgr 1/Online purchased1/2
- 2- Qel@l LFkk dsjftLV3ku dh Nk; kifrA
- 3. वित्तीय वर्ष, 2016–17 एवं 17–18 (एसेसमेंन्ट ईयर 17–18 एवं 18–19) का आयकर रिटर्न जमा करने की स्वयं द्वारा सत्यापित छायाप्रति)
- 4- uks/jh }kjk | R; kfir fall h Hkh izakj ak alj cak; k u gksus ak eny 'kiFk&i=A
- 5- 100 : ds uku&T; ffMf'k; y LVkEi ij fu/kkfjr ?kksk.kk i= 1/eny ifr% uks/jkb/IM
- 6- i Su dkMZ dh LkR; kfir Nk; ki frA
- 7- Okkf"kid $VuZ vkoj lacakh izek.k i = lh-,- \}kjk tkjhA ½ 25-00 yk[k okf"kid lsde ugh gksuk pkfg; s 0k"ki 2017&18½$
- 8- th, I-Vh jftLVšku dh Nk; kifrA
- 9- vf/kdr Mhyj dksfuekirk diuh }kjk tkjh v|ru vFkijkbitsku i= dh enyifr

एम0डी0आर0यू0 में शोध कार्यो के लिये आवश्यक उपकरणों के क्रय हेतु नियम एवं शर्तें

- 1. चिकित्सा महाविद्यालय रीवा के अधीन शोध कार्य हेतु स्थापित Multi disciplinary research unit में उपकरण के क्य हेतु ई—निविदा आंमत्रित की जाती है। निविदा प्रपत्र वेबसाईट https://mptenders.gov.in/ पर आनलाईन भुगतान कर क्य किये जा सकेंगे। इसे चिकित्सा महाविद्यालय रीवा की वेबसाइट http://www.ssmcrewa.com में भी देखा जा सकेगा।
- 2. आनलाईन निविदा जमा करनें की निर्धारित अवधि के पश्चात प्राप्त निविदाएँ स्वीकार नहीं की जावेगी। आनलाईन निविदा फार्म क्रय करने का मूल्य रू. 1000.00(एक हजार मात्र) निर्धारित हैं यह राशि किसी भी दशा में वापसी योग्य नहीं है।
- 3. निविदा के साथ अमानती राशि रूपये 1,00,000 / (एक लाख मात्र) ऑनलाईन जमा करनी होगी। अमानत राशि पर किसी भी प्रकार का ब्याज देय नहीं होगा।
- 4. प्राइस बिड केवल ऑनलाईन ही भरी जावे तथा भारतीय मुद्रा में ही स्वीकार्य होगी।
- 5. कृपया प्राईस बिड भरने के पहले समस्त दस्तावेज एंव स्पेशिफिकेशन ध्यानपूर्वक पढ़ एंव समझ लें, उसके पश्चात ही निविदा भरें।
- 6. निविदाकार को ऑनलाईन क्रय किए हुए निविदा प्रपत्र एवं उसके साथ संलग्न कागजातों के प्रत्येक पृष्ठ पर अपने हस्ताक्षर कर सील लगाना होगा।

- 7. निविदा के लिफाफे के ऊपर निविदाकार द्वारा सुस्पष्ट लिखावट में एम0डी0आर0यू0 में शोध कार्यों के लिये आवश्यक उपकरणों के क्रय निविदा वर्ष 2019–20 अंकित की जानी चाहिये।
- 8. चिकित्सालय की भण्डार क्रय समिति को किसी भी अथवा समस्त निविदाओं को बिना कारण बताये अमान्य करने का अधिकार होगा।
- 9. सामान्यतः न्यूनतम मूल्य दर की निविदा को स्वीकार किया जावेगा, तथापि क्रय सिमिति शासनिहत / जनिहत में समग्र रूप से विचार करते हुये अन्यथा निर्णय लेने हेतु अधिकार सम्पन्न होगी।
- 10. स्वीकृत निविदा, स्वीकृति की तिथि से सामान्यतः 18 माह की समयाविध तक अथवा आगामी निविदा स्वीकृत किये जाने तक प्रभावशील रहेगी।
- 11. आवश्यकतानुसार उपकरणों का निःशुल्क इंस्टॉलेशन, तथा डेमोन्स्ट्रेशन देना आवश्यक होगा।
- 12. स्वीकृत निविदा प्रभावशील रहने की अवधि में जनहित की आवश्यकता के अनुरूप निविदा के निबंधन एवं शर्तों में परिवर्तन करने का अधिकार चिकित्सालय की क्रय समिति के पास सुरक्षित है।
- 13. निविदा के अनुमोदित होने के उपरान्त निविदाकार द्वारा यदि आपूर्ति में हीला—हवाली या टाल—मटोल करके विलम्ब किया जाता है, तो आवष्यकता के अनुरूप खुले बाजार से खरीद की जावेगी। इसमे अधिक भुगतान की वसूली निविदाकार के देयको से वसूल कर लिया जावेगा। इसके बावजूद यदि अधिक भुगतान की वसूली शेष रह जाती है तो जमा अमानत राषि 1,00,000 / —(एक लाख मात्र) से काट लिया जावेगा।
- 14. एम0डी0आर0यू0 में शोध कार्यो के लिये आवश्यक उपकरणों के क्रय के क्रय हेतुकिसी भी प्रकार का अग्रिम भुगतान नहीं किया जावेगा तथा किसी भी राशि पर ब्याज देय नहीं होगा।
- 15. निविदाओं के संबंध में क्रय समिति का निर्णय सभी निविदाकारों को मान्य एवं बंधनकारी होगा।
- 16. निविदा में संलग्न प्रपत्रों को पूर्ण कर निविदा के साथ संलग्न किया जावे।
- 17. सफल निविदाकार को कार्य प्रारम्भ करने के पूर्व रू. 1000 / के नान—ज्यूडिशियल स्टाम्प पर 15 दिवस के भीतर उपरोक्त शर्तों के अधीन अनुबंध पत्र निष्पादित करना होगा एवं अनुबंध निष्पादन पश्चात कार्यादेश जारी होने के **30 दिवस** के भीतर प्रदायगी प्रारम्भ करनी होगी।
- 18. इस निविदा में स्वीकृत दरें एच.एल.एल. / मध्यप्रदेश पब्लिक सर्विस हेल्थ कार्पोरेशन भोपाल द्वारा स्वीकृत निविदा दर के प्रभावशील होने के दिनांक तक ही प्रभावी रहेंगी।
- 19. उपकरण उच्च गुणवत्ता के तथा आई.एस.ओ. / आई.एस.आई. / सी.ई. सर्टिफाईड निर्माता कंपनी का ही होना चाहिए। उपकरणों के स्पेशिफिकेशन में कोई भी बदलाव स्वीकार्य नही होगा।
- 20. प्रदायकर्ता / निर्माता कंपनी द्वारा प्रदाय किए गए उपकरणों की वारंटी / गारंटी अवधि समाप्त होने के पश्चात् ए.एम.सी. / सी.एम.सी. सेवाएं देना अनिवार्य होगा।
- 21. उपकरणों की प्रदायगी FOR संजय गांधी स्मृति चिकित्सालय रीवा(एम.डी.आर.यू.) होगा।
- 22. उपकरणों से संबंधित कोई भी जानकारी प्राप्त करने के लिए वैज्ञानिक—संजय कुमार पाण्डेय—8349979940 एवं विनीत शाह—9340309714 से संपर्क किया जा सकता है।
- 23. प्रदाय किए गए उपकरणों का भुगतान इंस्टॉलेशन/डिमोंस्ट्रेशन पश्चात चालू हालत होने पर नोडल अधिकारी के अनुशंसा के पश्चात ही किया जावेगा।
- 24. किसी भी कानूनी विवाद की स्थिति में न्यायालय रीवा होगा।

तकनीकी बिड हेतु प्रपत्र:— बी
(पूर्ण रूप से भर कर एवं हस्ताक्षरित कर लिफाफे को सील बंद करें एवं लिफाफे पर प्रपत्र बी स्पष्ट रूप से उल्लेखित करें)
निविदाकार द्वारा तकनीकी बिड हेतु प्रस्तुत की जाने वाली जानकारी

	ागपपायार क्षारा रायगायम विक हतु प्रस्तुरा व						
स. क्र.	तकनीकी मापदण्ड हेतु अनिवार्य दस्तावेज			। पृष्ठ क.	परीक्षण समिति द्वारा टिक . किया जावें।		
			हां	नही	हां	नही	
	धरोहर राशि रूपये 1,00,000 / — (एक लाख) ऑनलाईन। (सभी ऑनलाईन पेमेंट की रसीद की छायाप्रति संलग्न करना अनिवार्य होगा।						
1.							
2.	मूल निविदा प्रपत्र हस्ताक्षर एवं सील सहित (Online purchased)						
3.	फर्म / संस्था के रजिस्ट्रेशन की छायाप्रति						
4.	वित्तीय वर्ष, 2016—17 एवं 17—18 (एसेसमेंन्ट ईयर 17—18 एवं 18—19) का आयकर रिटर्न जमा करने की स्वयं द्वारा सत्यापित छायाप्रति)						
5.	नोटरी द्वारा सत्यापित किसी भी प्रकार का कर बकाया न होने का मूल शपथ–पत्र						
6.	100 रू. के नान—ज्यूडिशियल स्टाम्प पर निर्धारित घोषणा पत्र (मूल प्रति) नोटराईज्ड						
7.	पैन कार्ड की सत्यापित छायाप्रति						
8.	वार्षिक टर्न ओवर संबंधी प्रमाण पत्र सी.ए. द्वारा जारी। (रू 25. 00 लाख वार्षिक से कम नही होना चाहिये वर्ष 2017—18)						
9.	जी.एस.टी. रजिस्ट्रेशन नं. की छायाप्रति।						
10.	vf/kdir Mhyj dks fuekirk daiuh }kjk tkjh v ru vFkijkbitsku i= dh enyifr						

निविदाकर्त्ता संस्था प्रमुख के हस्ताक्षर
निविदाकर्त्ता संस्था प्रमुख का नाम
(स्पष्ट अक्षरों)
संस्था का नाम एवं पूर्ण पता एवं सील

–घोषणा–पत्र–

(100 / - रूपये के नान-ज्यूडिसियल स्टाम्प पेपर पर नोटराईज्ड कराकर प्रस्तुत किया जाये)

- 1. मै/हम भारत का/के नागरिक हूं/है।
- 2. मैं / हम भारतीय संविदा अधिनियम के अनुसार निविदा कार्य के लिए सक्षम हूं / हैं।
- 3. मुझे / हमें म.प्र. शासन के किसी भी विभाग द्वारा निविदाकार्य से बहिष्कृत नहीं किया गया है।
- 4. मैं / हम किसी ऐसे कान्ट्रेक्टर, जो कि म.प्र. शासन के किसी विभाग द्वारा बहिष्कृत किया गया हो, न तो अभिकर्त्ता हूँ / है और न ही उसके लिये कार्य करता हूँ / करते है।
- 5. मेरे / हमारे द्वारा निविदा की शर्तो के अलावा अन्य कोई शर्ते प्रस्तुत नहीं की गयी है। यदि अन्य कोई शर्ते प्रस्तुत की गयी है, तो उसे अमान्य माना जाये।
- 6. श्यामशाह चिकित्सा महाविद्यालय / संजय गांधी स्मृति चिकित्सालय / गांधी स्मारक चिकित्सालय रीवा के किसी अधिकारी / कर्मचारी से संबंध नहीं है।
- 7. मेरे /हमारे द्वारा इस निविदा में भरी मूल्य दर से कम मूल्य दर की निविदा मध्यप्रदेष राज्य के किसी संस्था या कार्यालय में प्रस्तुत नहीं की गई है।
- 8. मेरे / हमारे द्वारा सप्लाई किए गए उपकरणों की गुणवत्ता की जिम्मेदारी मेरी / हमारी होगी।
- 9. हमारी संस्था के विरूद्व सी.बी.आई0 / लोकायुक्त / ई.ओ.डब्ल्यू / शासकीय कार्यालय इत्यादि में कोई जाचं लबित नहीं है और न ही सक्षम न्यायालय में आपराधिक प्रकरण दर्ज है और न ही दण्डित किया गया है।
- 10. मेरे द्वारा प्रस्तुत जानकारी सही है। असत्य पाये जाने पर मेरे विरूद्ध विधिसम्मत कार्यवाही किए जाने पर मैं स्वयं उत्तरदायी रहूंगा।

दिनांक:	(निविदाकार के हस्ताक्षर)
	नाम—
	पूरा पता—
	फोन एवं मोबा. न.—

गवाहों के नाम, पते एवं हस्ताक्षर

1.

2.

एम0डी0आर0यू0 में शोध कार्यो के लिये आवश्यक उपकरणों के क्रय हेतु स्पेशिफिकेशन

क्रंमाक	उपकरण का	स्पेशिफिकेशन		मात्र	नोट
	नाम	VIINI PANT		T	
1	Thermal Cycler	Display	8 " to 10" LCD touch screen Display	01 Nos	* Comprehensive warranty for three
	Cycler		2- 3 USB A, 1-2 USB B, 1-2		years.
		Ports	HDMI, Port C Compatible		* After Sales
			>1,000 programs onboard;		Service &
		Memory	unlimited with USB flash		demonstration
			drive or system connected. 30 - 50 cm x 40 - 60 cm x		cum training should be
		Dimensions (W x D x H)	15 - 35 cm		available
		Weight	10 - 15 kg		promptly.
		Temperature control modes	Calculated and block		* Complementary test kit for 5 - 10
		-	gradient		times calibration
		PCR license	Yes		of machine is
		Programming options	Step-based graphical and automatic		mandatory to
			Optional log-in required		supply with machine.
		Security features	mode for regulated		macmine.
			environments		
		Reporting Onboard software PC	Exportable run logs, system error logs Windows CE		
		21.112	Windows 7 or higher & IOS/		
		compatibility	i-connect		
		USB peripheral compatibility	Mouse, USB flash drive, bar		
			code reader		
		Real-time PCR upgradable	Yes		
		Instant incubation	Yes 96 well (48 + 48) (Dual		
		Reaction Modules	Block)		
		Sample capacity	96 wells (48 + 48) (Dual Block)		
		Maximum ramp rate	2.5 to 5°C/sec		
		Average ramp rate	2 to 3.3°C/sec		
		Temperature range	0–105°C		
		Temperature accuracy	±0.2°C		
		Temperature uniformity	±0.4°C well-to-well		
		gradient capacity	yes (30 - 105 degree)		
		Temperature differential range	1–24°C		
		MDD classification	Approved Class II a		
2	Nano drop Spector	Accuracy	0.002		* Comprehensive warranty for three
	photometer	Accuracy (Absorption)	3% at (0.74 at 350nm)		years. After Sales
	r	Applications	DNA Quantification, RNA Quantification, Protein		Service &
			Quantification	01	demonstration
		Certifications/Compliance	UL/CSA , CE, Euro HS & Energy Star	Nos	cum training should be
		Compatibility	Microsoft TM Windows TM 7		available
		1	& above or IOS, I connect		promptly. * Complementary
		Concentration	2ng/μl-15,000ng/μl (dsDNA) ng/μl		test kit for 5 - 10

		Connections and Connectivity	USB & HDMI		times calibration
		Description	Micro volume		of machine is
		1	Spectrophotometer, with		mandatory to
			cuvet capability		supply with
		Detector Type	2048-element linear silicon CCD array		machine.
		MDD classification	Approved Class II a		
		Lamp	Xenon Flash		
		Measurement Time	<3 sec		
		No. of Samples	1		
		Sample Volume	0.2-2.0μL		
		Spectral Resolution	=1.8nm (FWHM at Hg 253.7)		
		System Requirements	Latest desktop branded PC suitable for the above system with Intel i7 processor, 16GB RAM, 1 - 2 TB HDD, 21" LCD/LED Flat Touch panel Monitor, Latest ODD, Backlit Keyboard, Mouse, USB, Interface Ports, Ethernet Network Port, inbuilt WIFI, Windows 10 OS or latest professional		
			with colour printer etc.		
		Туре	Nano drop Spectrophotometer		
		Wavelength Accuracy	±0.5nm		
		Wavelength Range	150-840nm		
		Light Source	Light Emitting Diodes		
		Pathlength	0.2 to 0.8 mm		
		Absorbance Range (10 mm equivalent)	0 - 30 OD		
		Typical Measurement Reproducibility	0.002		
		Warranty	Three years on site		
3	Gel documentation system	 ➤ CCD Camera: Monochrome CCD Cam Imaging with minimum 10 Mega pixels of Pixels of image resolution (or) MoreMoto F 1.2 (or) Better, 8-64mm / 12 to 75 mm M Zoom, Aperture and Focus controls through Computer Connectivity: USB, HDMI & Emission Filters: UV Mid Pass Filter suitable for Ethidium Bromide detection ➤ Filter Holder: Minimum 2 Positions (or ➤ Dark Room Hood & Built-in Illumination, mid-range UV Transilluminator (Filter) pull out drawer type; Trans UV to Where Fold Down white light illuminator; Epi West The Gel doc must be having facility to ➤ Computer: Latest desktop branded PC with Intel i7 processor, 16GB RAM, 1 - 2 Touch panel Monitor, Latest ODD, Backli 	Pera Suitable for Scientific CCD resolution & 21 Mega orized Zoom Lens: Minimum Motorized Zoom Lens with gh Software. Report C Compatible. Port C Compatible. Some Light Sources: 302/312 or Size 25 - 34 cm x 26 - 36 on the Light Converter screen / White Light Illumination. The read chemiluminscence or suitable for the above system TB HDD, 21" LCD/LED Flat	01 Nos	➤ Warranty: 3 Years comprehensive onsite warranty for complete system including computer and colour Laser printer with 5 year AMC. Comprehensive training for lab staff and support services till familiarity with the system.
		Interface Ports, Ethernet Network Port, inblatest professional etc. Laser Printer: Laser jet colour Printer, A4	built WIFI, Windows 10 OS or		

		Minimum 1200x1200 dpi and above, 35PPM or higher model with scanning and auto duplex printing facility to be offered ➤ Software: Fully automated Software for Image Acquisition, Image		
		Optimization, and Image Analysis & Image Export. Export of Images with User Specified Publishing - Resolution (dpi) & Publishing-dimension should be compulsorily available. Multiple Export Options like 8 bit tiff, 16 bit tiff, .bmp, png, jpg should be available enabling the		
		user to export images to third party software's for advanced image analysis/optimization. Tools for compliance with US FDA 21 CFR Part 11 regulations.		
		 Operating voltage: 230 volts, 50Hz A.C Warranty: 3 Years comprehensive on-site warranty for complete 		
		system including computer and colour Laser printer with 5 year AMC.		
4	Biochemical	Defined objectives of machines	01	> Comprehensiv
	autoanalazer	For analysis of serum, plasma, urine, cerebrospinal fluid (CSF), hemolysate, hormone, vitamins and whole blood for HbA1C	Nos	e warranty for 5 years and 5 years
		Test Requirements		AMC after
		➤ A discrete patient prioritized automated random access clinical	1	warranty
		chemistry analyzer, for chemistries, immunoglobulins, hormone, vitamins, drug assay etc. in blood/urine/fluid with ISE electrolyte analyzer (Na+, K+, Cl, Ca Bicarbonate, Mg etc.). Independent		Performance report in the last 5 years from major hospitals should be
		calibration of photometer and electrolyte analysts and an open reagent system.		enclosed.* Comprehensive training for lab staff and support services till familiarity with
				the system. * Complementry test kit for all parameters to condact 300 - 500 tests is mandatory to supply with machine.
		Technical Requirements	1	
		➤ Analytical Mode: End point as well as Kinetic, Automatic, discrete,	1	
		Random Access.	4	
		➤ On board parameters: Minimum 40-70 parameters.	1	
		Through put: Minimum 400 test/hour and ISE test (300-400 tests with). continuous loading facility to be provided.		
		Sample Volume: Minimum 2 – 15 μl/test.		
		Reagent Volume: Maximum 100-300 micro litre for single reagent. Multi-		
		reagent facility should be provided. > Error Check: Automatic flagging for errors.		
		➤ Auto dilution facility: For high value samples.		
		Repeat Run facility: Facility to check the results by repeat run on the desired		
		samples ➤ Sample clot and Probe crash detection facility: For excluding		
		erroneous analysis		

Calf diamagia and trankla shartings		1
> Self diagnosis and trouble shooting:		
For minor day-to-day problem		
Calibration & quality control:		
Linear/ Non-Linear/ Multipoint		
Onboard Bar Code Facility: Bar		
Code ID for sample tube and Reagent		
Identification Facility		
➤ Reagent storage facility: Onboard		
refrigeration of 50 – 80 reagent bottles		
> Stat facility – refrigerated: Separate		
provision for Urgent Samples 8 – 15		
preferred with refrigeration		
► LAN interface facility : Online data		
transmission facility through LAN to the		
Computer Network of the Hospital along		
with necessary software		
Reagent system: Open system		
capable of working on reagent from any		
of the firms.		
➤ Measurement: Mono & Biochromatic		
with polychromatic correction for		
interfering substances.		
> Cuvette washing system: Inbuilt with		
automatic cuvette absorption		
measurement facility		
> Probe system: Separate probe for		
reagent and sample		
> OPTICAL SYSTEM: a) Light		
Source: Halogen/ Xenon Lamp b) Wave		
Length Range: - 340 – 800 nm with		
polychromatic correction. c) Optical		
Detection: Diffraction gratting d) O.D.		
Range: 0 – 2.5		
Computer specification:- CPU core i7		
or above, 2.7 GHz and above; 8 GB		
RAM; 2 TB Hard Disk Drive; High		
Speed latest ODD: Serial, parallel, USB		
& HDMI ports; Backlit Keyboard,		
Mouse and Mouse Pad; Preloaded latest		
MS Windows 10 professional or above;		
Full HD or QHD Monitor size 19" or		
above; Laser color printer; latest		
internal modem & wifi receptor; latest 3		
year professional anti-virus.		
System Requirements and		
essentialities		
Deionizer: With suitable water		
output capacity.		
Trial kits for various parameters,		
multi-calibrators and multicontrols02		
Set NEE Flootrades for No. V. and Cl.		
> ISE Electrodes for Na, K and Cl		
measurements-02 set		
➤ Data Processor Computer with		
printer etc as specified above-01		
➤ All consumables required for		
installation and standardization of		
system to be given free of cost		
Certifications compliances and		
Environmental Factors		
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➤ Shall meet IEC-60601-1-2: 2001(Or			
Equivalent BIS) General Requirements			
of Safety for Electromagnetic			
Compatibility. or should comply with			
89/366/EEC; EMC-directives.			
·		-	
The unit shall be capable of being			
stored continuously in ambient			
temperature of 0 - 50deg C and relative			
humidity of 15-90%			
> The unit shall be capable of operating			
in ambient temperature of 18-35 deg C			
and relative humidity of less than 70%			
Complete installation of the system			
including water input and drainage			
system has to be installed			
Power Supply			
Power input to be 220-240VAC			
(Single Phase), /400-440 V (3 Phase)/			
50Hz as appropriate fitted with Indian			
plug.			
Voltage corrector/stabilizer of			
appropriate ratings meeting ISI			
Specifications.(Input			
➤ 160-260 V and output 220-240 V and			
50 Hz)			
Suitable UPS with maintenance free			
batteries for minimum one-hour back-up			
should be supplied with the system			
Safety Certification and norms			
Compliance			
Should be USFDA, CE,UL or BIS			
approved product			
Manufacturer/Supplier should have			
ISO certification for quality standards			
➤ Comprehensive warranty for 3 years			
and 7 years AMC after warranty			
> Comprehensive training for lab staff			
and support services till familiarity with			
the system.			
> Attach original manufacturer's			
product catalogue and specification			
sheet. Photocopy/ computer print will			
not be accepted. All technical data to be			
supported with original product data			
sheet.			
Should be compliant with IEC 61010-			
1:(or any international equivalent eg			
EN/UL 61010) covering safety			
requirements for electrical equipment for			
measurement control and laboratory use			
Documentation			
➤ User/Technical/Maintenance manuals			
to be supplied in English.		<u> </u>	
> Certificate of calibration and			
inspection.			
➤ List of Equipments available for			
providing calibration and routine			
maintenance support as per			
manufacturer documentation in service /			
	1		

			T	
		technical manual.		
		List of important spare parts and		
		accessories with their part number and		
		costing.		
		Log book with instruction for daily,		
		weekly, monthly and quarterly		
		maintenance checklist. The job		
		description of the hospital technician and		
		company service engineer should be		
		clearly spelt out.		
		➤ Performance report in the last 5 years		
		from major hospitals should be enclosed.		
5	HPLC	1- Solvent delivery system (Pump, Bi	nary / Quaternary	01
		gradient)		Nos
		The system should have at least two pur	mps and support minimum	
		of two solvents with a feature of variabl	e dynamic mixture gradient	
		for optimum performance with high pre	essure mixing. The system	
		should work in isocratic, gradient and so	emi & fully preparative	
		mode.		
		Vacuum degassing: The built in online d	egasser with at least one	
		channel per solvent and one channel for	sample manager wash	
		solvents should be provided with machi		
		provision to effective remove/reduce gl		
		Operating pressure should be 6000 psi		
		analytical and semi-preparative applica		
		Flow rate should be 0.01 to 10 mL/min		
		increments or better		
		It should have leak sensors as standard	and safe leak handling.	
		Flow accuracy should be ±1% or better.		1
				-
		Flow precision should be ±0.07% RSD o		
		Should have pump seal wash function w		
		wash system to flush the rear of the high		_
		Injection synchronization between pum	p and sample manager for	
		retention time reproducibility		_
		System should work in the pH range of 2		
		Injection and Fraction collection should	perform with same	
		instrumental platform		
		The instrument should able to collect fra	actions even at 10 ml/min	
		flow rate		
		Suitable solvent tray that can accommod		
		1L capacity and the solvent spill from th	is tray must not affect the	
		instrument.		
		A suitable fraction collection assembly of		
		should be provided. The fraction collect	•	
		same software provided in the HPLC sys		
		provision to collect the fractions for ana	lytical and semi-preparative	
		samples.		_
		The auto sampler vials/test tubes for fra		
		variable volume capacity should be prov		
		vials/test tubes coming long with the in	strument (500 Nos).	_
		One manual rheodyne injector with all r	necessary accessories should	
		be provided. The loops volume of 20 μl,	100 μl and 500 μl should be	
		provided.		
		2- Auto sampler/Sample manager an compartment	d column temperature	
		The auto sampler tray should have capa	city to hold minimum of 30	1
		Nos of 12 ml or more and 100 Nos of 1.5		
L			1	_

The system should have GLP/GMP compliance and should strictly meet 21 CFR Part 11 guidelines. The system should enable for audit trails, electronic signature and other requirements related to GLP compliance. Further, required IQ and OQ reports should be generated to meet **GLP** regulatory requirements during installation and operation by your service personnel. All the necessary accessories, consumables, software etc should be provided. Full system from the single vendor and no refurbished parts should be added to the system 5 years comprehensive warranty should be provided. The warranty shall cover the maintenance of the instrument along with replacement of spares, accessories, consumables etc as and when required

should also have provision for 4 ml vials holding capacity (minimum 50 Nos)	for the said warranty period.
Injection volume range should be 0.1 to 5000 µL as standard loop	Five years AMC
Accuracy should be ±1% or better	should be
Auto sampler with auto-dilution and auto-addition capabilities is	provided for the
preferable	whole instrument
It should have capacity to hold three or more columns in column	including software
compartment	workstation, HPLC modules
The sample carryover should be less than 0.1% or better	etc.
Design must ensure isolation of electrical components from liquid	
flow path	
Column temperature range should be programmable from ambient (25°C) to 85°C in 1°C increments.	
Safe leak handling must be provided with leak sensors.	
There should be some option to track the column usage information	
Column temperature stability should be ±0.1°C or better.	
Column temperature accuracy should be ±0.5°C or better.	
Auto sampler vials (500 Nos each of 1.5 ml, 4 ml and 12 ml or more)	
should be provided in addition to the vials comes along with the instrument.	
The columns C ₁₈ , C ₈ , HILIC or equivalent columns specific to	
carbohydrates, amino acids, fatty acids and chiral separations for	
both analytical semi-preparative applications should be separately	
(A total of 15 columns should be provided).	
Necessary guard columns with respect to above said columns should	
be mentioned separately (A total of 10 Nos should be provided).	
Autosampler syringes (5 Nos each for analytical and semi-	
preparative injections) should be provided.	
3- PDA detector	
Wave length should be in the range of 190-1100 nm or more settable in 1 nm increment	
The PDA detector should be suitable for both fully automated	
analytical and semi-preparative applications.	
The flow cells of detector for analytical applications (2 Nos) and	
semi-preparative applications (2 Nos) should be provided in	
addition to the ones comes along with the instrument. The flow cells	
should have temperature controlled option for stable baseline and	
faster stabilization	
The D ₂ lamps (3 Nos) and W lamps (3 Nos) should be provided	
separately in addition to the ones comes along with the instrument	
The detector must have linearity of 5% at 2.0 AU	
The detector must have wavelength accuracy of ±1 nm	
The detector must have guaranteed lamp life of not less than 2000	
hours	
The detector should have lamp optimization software facility which	
guarantees low noise performance without lamp change and compensates for lamp degradation over time	
Data acquisition range should be 80 Hz or more	
The detector must able to operate in 3D and 2D simultaneously	
The detector should have low volume long path length flow cells for optimum performance and to achieve highest sensitivity.	
4- Evaporative Light Scattering Detector (ELSD)	
High-sensitivity ELSD with operation upto 120°C or more	
Light source: LED 480 nm or better	
Light source. LED 400 iiii oi octto	

Detector: Photomultiplier Tube Digital Signal Processing with at least 2000 hr warranty		
Temperature range: Evaporator 25-120°C (in 1°C increments)		
Temperature range: Nebulizer: 25-90 °C (in 1°C increments)		
Effluent Flow Rate: 0.2-5 mL/min		
Digital output: 80Hz or better		
Should have safety features such as gas shutoff valve and vapour and		
leak detection		
The gas cylinders with GC/IOLAR grade gas required for ELSD		
operations along with joint free SS pipeline with double stage gas		
regulators and traps (moisture, hydrocarbon etc.) should also be		
mentioned separately with installation expenses.		
Scattering angle: 60 degrees or better		
5- Data Station		
The chromatography software should be capable to control all		
modules such as pump, auto sampler, PDA and RI detector without		
any up gradation and have capability to robust peak integration,		
report formatting, qualitative and quantitative processing with		
effective detection of low level peaks on noisy or sloping baseline.		
Should have automatic method transfer capabilities from fully		
automated analytical to semi-preparative applications.		
A latest suitable and compatible computer (i7 processor, 2 TB HDD,		
16GB RAM or more) with 26" TFT/LCD touch monitor, complete backlit keyboard and mouse with one pair of compatible wireless, in		
built modem & wifi and multifunctional laser colour printer of A3		
size with scanning and auto duplex printing facility for HPLC		
chromatographs and data (One set).		
Mobile control:		
Mobile Control must be provided to control HPLC. The app must run		
on Android Oreo / Android P or Windows 10 tablets. Only		
authorized operators can change the HPLC parameters using Mobile		
control unit. One can check the status of HPLC system via WLAN		
range. Mobile Control must display all important parameters of		
selected HPLC devices on one screen. Settings of the devices can be		
easily changes sliders or by entering numeric values. Mobile Control		
must allow to program methods for each device and complete HPLC		
Necessary tool kit for routine maintenance of the system.		
	 	
Compatible UPS system with atleast 10 KVA with built-in isolation transformer capable of taking inductive loads with atleast 2 hours		
backup from Luminous/APC with vertical batteries stand to support		
the whole system (One).		
Optional items:		
The quote for the pre column derivatization kits/system should be		
provided as an optional item		
A stand-alone automated solid-phase extraction system of latest		
model with at least 6 samples per hour extraction efficiency will all		
accessories, including computer and software with 21 CFR part 11		
compliance should be supplied as an optional item		
Important Note:		
The system should have GLP/GMP compliance and should strictly		
meet 21 CFR Part 11 guidelines. The system should enable for audit		
trails, electronic signature and other requirements related to GLP		
compliance. Further, required IQ and OQ reports should be		
generated to meet GLP regulatory requirements during installation		
and operation by your service personnel. All the necessary accessories, consumables, software etc should be provided.		
 accessories, consumavies, software etc should be provided.		

		Full system from the single vendor and no refurbished parts should		
		be added to the system		
		Three years comprehensive warranty should be provided. The		
		warranty shall cover the maintenance of the instrument along with		
		replacement of spares, accessories, consumables etc as and when		
		required for the said warranty period.	1	
		Five years AMC should be provided for the whole instrument including software workstation, HPLC modules etc.		
6	FTIR	Item: Fourier transformation infrared spectrometer	01 Nos	* Comprehensive warranty for 5 years and 7 years AMC after warranty Performance report in the last 5 years from major
				hospitals should be enclosed.* Comprehensive training for lab staff and support services till familiarity with the system.
		1. Spectral range : 500 to 6000cm-1		•
		2. Wave number accuracy : <0.05cm-1@2000cm-1		
		3. Resolution : 0.75cm-1 resolution freely adjustable from 0.75cm-1 to		
		256cm-1		
		4. Optical components : should be znSe beam splitter & windows,		
		capable to suit weather change effects in the laboratory including high		
		humid atmosphere and the system should be kept "ON" only when it is		
		in use.	1	
		5. Light source: High intensity ceramic globar source with high		
		throughput stable Energy & long life		
		6. Detector: Room temperature stabilized DLATGS (Deuterated L-		
		alanine doped Triglycene Sulphate) detector 7. Signal to noise ratio: > 55.000:1(1min measurement time,	1	
		spectralresolution 4cm-1)		
		8. Wave number precision: <0.0005cm-1@2,000cm-1(SD of 10repeat	1	
		measurements)		
		9. Photometric accuracy: <0.1%T		
		10. Temperaturestability 100% line : <1% per°C		
		11. Measurement modes : Transmittance and reflectance with		
		attenuated total reflection (ATR) and ZnSe for analyzing liquid, powder,		
		gel, paste, thin film etc. without sample preparation. 10 Year warranty		
		on ATR crystal to offered		
		12. Interferometer: Rigid mounting, permanent aligned, high stability. It		
		should be stable and protected to tilt & shear. 13. The optics are sealed and desiccated and all mirrors should be gold	1	
		coated to ensure maximum throughput & sensitivity.		
		14. The unit should have a diode laser for alignment/background signal,		
		with 10 years of life.		
		15 . The system should have slip clutch pressure applicator for sample		
		holding and typical working distar or sample height -20mm or more.		
		16. The ATR crystal plate should be exchangeable and also have a		
		sensor for automatic electronic recognition and optimization.		
		18. PC-Connectivity : System should be compatible to connect it with		
		a PC through Ethernet, remote control via W-LAN (TCP/IP) or		
		equivalent.		<u>I</u>

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		19. Input power: 230 VAC, 50Hz, single			
		20. The unit should also be capable of auto			
		Operational and performance Qualification(OQ/PQ) with built NIST			
		traceable polystyrene film for Regulatory	requirement to meet NABL		
		accreditation and guide line.			
		21. Software features v: The unit should be			
		full functioning Data measurement and pro			
		to Window 8 or higher version. The software			
		Capabilities as well as the possibility to cr			
		System should be supplied with library for			
		should have built in Quantitative function	and should be upgradable to		
		Multi component Quantitative function.			
		22. Warranty: Thewhole system should h			
		two years from the date of Installation and			
		equipment and ten years for inter interfero	meter and laser diode.		
		Other general specifications:			
		1. The supplier should confirm his capabil	ity to support maintenance		
		after the warranty period, either directly or	through his service		
		representative positioned in India.			
		2. The suppliers should include the follow]	
		i. Point wise confirmation of compliance	as per specifications, clearly		
		mentioning deviations (if any).			
		ii. A list of customers in India with contact details, to whom similar			
		systems have been supplied			
		iii. Detailed technical catalogue/data sheet	s indicating all the parameters		
		of the quoted unit.			
		Budder Qualification Criteria:			
		1. Only original manufacturer			
		sortheirauthorizedsalesandservicereprese			
		ntativesareeligibletobid. The vendor			
		should provide authorization certificate			
7	-80°C Deep	from the original manufacturer.	\$7A*1	0.1	C
7	-80 C Deep Freezer	Туре	Vertical	01 Nos	Comprehensive
	rreezer	Input voltage of Deep Freezer	230+/-10% V, 50Hz	Nos	warranty for 5 years. After Sales
		Voltage stabilizer	5KVA External stabilizer		Service &
		Chamber temperature range	-50°C to -86°C		demonstration
		Weight	300 to 500 Kg	1	cum training
		Shelf Weight	50 to 90 kg	†	should be
		Display	LCD / LED 7" – 10 ".		available
			USB & HDMI backup	-	promptly.
		Smart Connectivity	1		
		MDD classification	support. Approved Class II a & Class	1	
		MIDD Classification	Approved Class II a & Class		
		Dimensions (external) (W x D x H) in	(800 – 1080) x (820 – 1120)		
		mm	x (1920 – 2320)		
		Dimensions (internal) (W x D x H) in	(540 – 820) x (480 – 780)	1	
		mm	x (1080 – 1420)		
		Inner chamber volume	300 to 500 Liters	1	
	1		3 to 5 adjustable stainless	1	
		I Nilmber of frave			
		Number of trays			
		,	steel trays		
		Number of compartments	steel trays 4 to 5 compartments	-	
		,	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless		
		Number of compartments Inner doors	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless steel		
		Number of compartments	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless steel 115 to 150 mm thick PUF		
		Number of compartments Inner doors	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless steel 115 to 150 mm thick PUF insulated door with rubber		
		Number of compartments Inner doors Door insulation	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless steel 115 to 150 mm thick PUF insulated door with rubber gasket sealing		
		Number of compartments Inner doors	steel trays 4 to 5 compartments 4 to 5 Nos. made of stainless steel 115 to 150 mm thick PUF insulated door with rubber		

		Temperature sensing method	(Hitachi / Haier / Sharp / General/ OEM) RTD.	-	
				-	
		Temperature sensor	RTD sensor - PT100	4	
		Chart range	-100°C to +50°C Alarms and indications		
		Secondary compressor ON	Visual	1	
		Primary compressor ON	Visual	1	
		High/Low temperature	Audio-Visual		
		Door open	Audio-Visual		
		Battery low	Audio - Visual	1	
		Power ON	Visual	1	
		Power fail	Visual	1	
		Display resolution of controller	0.1°C	1	
		High temperature alarm	Set value +10°C	1	
		Low temperature alarm	Set value -10°C	1	
		Manufacturing standards	Highest Compliance	1	
		Standards & Approval	CE, EURoHS, & ENERGY STAR		
		Warranty	for a minimum period of three years		
	Microwace	Microwave assisted focused monomode		01	* The synthesizer
	Synthesizer	organic synthesis systems should be		Nos	should be
		able to handle the synthetic reactions involving routine organic,			provided with 5 years of
		organometalic, Nano materials			comprehensive
		synthesis, fluorination, caustic solutions,			warranty and
		catalysts using palladium, non-polar			thereafter 5 years
8		solvents like toluene, hexane etc.		1	of AMC should be
		➤ Power output: Microwave power of minimum 500 W or higher			covered. * Training of staff
		➤ Microwave power field density :		-	and prompt visit
		6000 Watts /liter or more			of company
		➤ Maximum Pressure & Temperature:		1	technical persons
		25 bar and 300°C or greater for 10mL as			for addressing of
		well as 30ml reaction vessels for scale			machine errors &
		up reactions without re-optimization of			issue should be arranged
				i	arranged
		parameters.		1	
		 parameters. System must be able to effectively heat polar as well as non-polar solvents 			immediately as per the lab staff needs.

temperature without heating aids.	
> Temperature Measurement: IR	
measurement as standard facility with	
multi point calibration for accurate	
temperature measurement of reactions.	
> Integrated Pressure Sense or to	
measure. Display as well as document	
reaction pressure.	
➤ Should have inbuilt magnetic stirrer	
device with variable speed from 0 rpm	
upto at least 1000 rpm or more to ensure	
uniform temperature in the reaction.	
➤ Self- tuning cavity for optimum	
heating efficiency with all vessel types.	
➤ Should be supplied with Glass Vials	
of 10ml, 20ml, 30 ml & 50ml capacity	
with sustainable material of construction	
and allow for multiple reaction runs to	
be conducted in the same vial.	
➤ Must be supplied with a vessel made	
of material of at least 10ml capacity to	
allow for carrying out reaction involving	
metallic particles, in- situ fluorination,	
caustic solutions of high alkaline pH	
such as Na OH at elevated temperatures	
and reactions using other aggressive	
reactants to avoid breakage of glass	
vessels during operation and it must	
have unlimited reusability for reduced	
cost of operation.	
> Sealing of reaction vessels should be	
easy and without use of any tools.	
> Heating Performance benchmarks	
with glass vessels and without any	
heating aids:	
• System should have ability to heat	
20mL Ethanol to 200°C in around 2 - 5	
min.	
• System should have ability to heat	
5mL Toluene to 200°C in around 3 - 6	
min	
Large inbuilt Touch screen display	
with capability for online graphical	
display of reaction parameters like	
pressure. Power and temperature and	
review of previous reaction runs.	
> Direct printout to PDF files or export	
of data to excel via USB or HDMI ports.	
Suitable air compressor for operation	
of the instrument and cooling of reaction	
vials after a reaction is over should also	
be quoted.	
Consumables: Stir Bars for bath	
10mL, 20mL as well as 30mL vessels,	
Caps Silicone Septum must be quoted in	
the main offer along with the instrument	
for trouble free operation.	
> Optional Fiber optic Ruby	
Thermometer with ability to measure	
internal reaction temperature	<u> </u>

		simultaneously along with IR sensor and			
		simultaneous display of both. IR and			
		Ruby temperature on screen should be			
		quoted separately.			
		The system must be upgradable with			
		an auto sampler with minimum 24			
		reaction vessels handling (10mL and			
		30mL) for unattended operation.			
		The system must be upgradable with			
		10			
		an integrated camera for monitoring the			
		reactions with display on the screen of			
		the instrument.			
		> The synthesizer should be provided			
		with 3 years of comprehensive warranty			
		and thereafter 5 years of AMC should			
		be covered.			
		> Training of staff and prompt visit of			
		company technical persons for			
		addressing of machine errors & issue			
		should be arranged immediately as per			
		the lab staff needs.			
				0.1	C 1 '
	Hb	GEL ELECTROPHORESIS UNIT		01	Comprehensive
9	Electrophoresis			Nos	warranty for three
		1- The Mini Horizontal Gel Box system s		•	years. After Sales
		length and improved resolving area for con	mplex analysis in a mini gel		Service &
		format			demonstration
		2- These system should be designed for ra	pid separation of hemoglobin		cum training
		molecules or Agarose gels and should be i			should be
		3- The system should have a Dimension			available promptly
		cm H	11 01 13 011 W X 22 011 E X 3.5		
		4- UV transmissible gel tray with fluor	rescent graduation on the base		
		of the gel tray. The Gel tray dimensions sh			
		with grooves (8.7 cm L x 1.2 cm H) on Th			
		tray. It should have two comb slots on the			
		5- The gel tray should have stable silicone			
		casting tray is required It should provide to	wo combs, 10 and 14 tooth		
		each			
		6- Buffer capacity should be 600 ml for			
		gel runs with a fill line indicator for buffer	levels along the unit side		
		7- Max electrode separation in 19 cm w	ith a Maximum Voltage of		
		150 V, such that it has 5 volts per cm of el	ectrode seoeration (5 V x 19		
		cm = 95 V)	•		
		8- It should have a buffer chamber with	color coded sealed platinum		
		electrodes which are very sturdy and long			
		offered silver electrodes	5 · · · · · · · · · · · · · · · · · · ·		
		ELECTROPHORESIS POWER			
		SUPPLY			
		It should be ergonomically			
		designed equipment, which is light			
		weight and occupies less table space.			
		Dimensions should be approximately			
		300 x 200 x 100, weighing about 3.0 kg			
		which makes them portable.			
		2. To increase the user's safety, none			
		of the outlets has to be directly wired to			
		the earth The terminals have to be			
		floating and have deeply recessed			
		contacts.			
		3. It must be robust to provide			
		uninterrupted service for years			
	l .	1	İ		

		4. Specific output control for both voltage and current specifications Ability to change the voltage from 10 - 300 V as minimum of 250 volts will be required for electrophoresis run, Current to be adjusted from 4-400 mA 5. The supply must be integrated with digital displays to provide error free and precise output settings. To be provided with 3 digit display 6. It must have built in timer for unattended runs. This prevents the need for continuous monitoring and eliminates risk of sample over runs. It should be Programmable from 1 minute to 999 minute with digital display 7. Provision for running multiple gels at single time. To serve this purpose it should be provided with four outputs and power of 75 W Notes-		
		Comprehensive warranty for three years. After Sales Service & demonstration cum training should be available promptly		
10	Vertical gel Electrophoresis	Vertical gel apparatus: 10 – 14 cm (Length) x 8 – 12 (Breadth) x 8 - 14 cm (Height), 6-12 samples, glass plate (10 x10 cm), comb capacity of 10µl -50µl and gel caster. Gel imaging system with UV transilluminator (white light and UV light), built in with 10MP – 20MP camera; 1D – 2 D Gel analysis Software. Digital power pack (output 10 – 300 V) with output terminals, timer, 4-6 digit, 2 row LED display and start/stop function Note:- Comprehensive warranty for three years. After Sales Service & demonstration cum training should be available promptly.	01 Nos	Comprehensive warranty for three years. After Sales Service & demonstration cum training should be available promptly.
11	Western blotting system	System should be convenient — for simultaneously transfer up to four mini□sized gels or two midi sized gels. Designed for rapid semi□dry transfer of proteins from polyacrylamide gels to Nitrocellulose or PVDF membranes in 5□10 minutes Should have integrated power supply with blotting Software and the blot Cassette (for blotting with Color coded cassettes and electrodes to ensure proper orientation). Pre-programmed methods for Low MW, Mixed Range MW, High MW, Standard Semi Dry, 1.5 mm gels or unknown size gels	01 Nos	Comprehensive warranty for three years. After Sales Service & demonstration cum training should be available promptly

		4. USB port should be there for		
		program transfer.		
		5. Easy touch programming for		
		access to pre □ programmed transfer		
		methods based on the gel		
		6. Number, gel size and molecular		
		weight range of proteins using color		
		LCD/LED menu touch screen and also		
		to easily create, run and save custom transfer methods.		
		7. Should have Audible alarm for		
		End of run.		
		8. Should come with cooling unit.		
		9. Should be a modular system.		
		10. Should be European CE		
		Declaration of conformity / USA FDA		
		Certified.		
		11. Should be able to store 20 or more		
		programmable methods.		
		12. Should be an open system which		
		accepts accessories and consumables		
		from different suppliers also.		
		1 2 1 2		
		Comprehensive warranty for three years. After Sales Service & demonstration		
		cum training should be available		
		promptly		
12	Florescence	* The optical system should be of color	1	Comprehensive
	microscope	correction for infinity with antifungal	Nos	warranty for three years. After Sales
		coating.	•	
		* Sturdy stand of anti rust material with		Service &
		long life built-in power supply LED		demonstration
		illumination min 50000 hrs. life provides		cum training
		goal light good for live specimen with		chauld ha
		cool light good for live specimen with		should be available promptly
		input voltage from 110-240V, 50Hz.		should be available promptly
		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit		
		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress.		
		* Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces.		
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		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces. * 3 position Trinocular head with 10X22 m FOV eyepieces dipole displacement (+5 to -5) upper eyes lid (pair) intra with inter papillary distance of at least 50 – 70 mm adjustable to accommodate observer height. * Co-axial coarse and fine focusing on rack and pinion. Tension adjustment		
		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces. * 3 position Trinocular head with 10X22 m FOV eyepieces dipole displacement (+5 to -5) upper eyes lid (pair) intra with inter papillary distance of at least 50 – 70 mm adjustable to accommodate observer height. * Co-axial coarse and fine focusing on		
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		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces. * 3 position Trinocular head with 10X22 m FOV eyepieces dipole displacement (+5 to -5) upper eyes lid (pair) intra with inter papillary distance of at least 50 – 70 mm adjustable to accommodate observer height. * Co-axial coarse and fine focusing on rack and pinion. Tension adjustment control provided. * Ultra hard Ceramic stage. * Universal turret type swing-out condenser for bright field, dark field, phase contrast studies with N.A. 0.9 - 1.25 * 12. Objectives: Infinity plan achromatic 2/2.5x		
		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces. * 3 position Trinocular head with 10X22 m FOV eyepieces dipole displacement (+5 to -5) upper eyes lid (pair) intra with inter papillary distance of at least 50 – 70 mm adjustable to accommodate observer height. * Co-axial coarse and fine focusing on rack and pinion. Tension adjustment control provided. * Ultra hard Ceramic stage. * Universal turret type swing-out condenser for bright field, dark field, phase contrast studies with N.A. 0.9 - 1.25 * 12. Objectives: Infinity plan achromatic 2/2.5x Infinity plan achromatic 5x NA 0.12WD		
		input voltage from 110-240V, 50Hz. * Should provide a comfortable user sit in position for reducing user stress. * 6 position objective nose-pieces. * 3 position Trinocular head with 10X22 m FOV eyepieces dipole displacement (+5 to -5) upper eyes lid (pair) intra with inter papillary distance of at least 50 – 70 mm adjustable to accommodate observer height. * Co-axial coarse and fine focusing on rack and pinion. Tension adjustment control provided. * Ultra hard Ceramic stage. * Universal turret type swing-out condenser for bright field, dark field, phase contrast studies with N.A. 0.9 - 1.25 * 12. Objectives: Infinity plan achromatic 2/2.5x Infinity plan achromatic 5x NA 0.12WD > 11.5 mm		
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Infinity Plan apochromatic Phase 20x NA 0.50 MVD > 1.1mm Infinity Semi plan apochromatic phase 40x NA 0.80 WTO 4.0mm Infinity Semi plan apochromatic phase 100x oil NA 1.30 WD > 0.17 mm. One extra lens according to the need. * Epi fluorescence illumination system and 100 W mercury illuminations, filter blocks for IV, blue and green excitation. The system should have filter blocks for IV, blue and green excitation. The system should have filter blocks on a turret. * Polanizer and for transmitted light. * Computer requirement: PC workstation with Core i5 or i7 processor CPU, 19* & above LCD/LED Monitor, I TB HDD, Super ODD, 8GB RAM. Backlir Key board, Mouse. * All consumables required for installation and standardization of system to be given free of cost. * One additional mercury halogen lamp. * The unit shall be capable of Peinig stored cominousely in a marking temperature of Lyto Soldeg C and relative humidity of IS-90%; * Power input to be 230 = -10% VAC, Solfy fitted with Indian plug * ULPS of stutible rating with vedage regulation and spike protection for 60 minutes back up. * Certified he be compliant with Leicetrical Safety Standard for Medical Fupinpent ITC-68061-1 OR equivalent IIS OR international standard for electrical safety, * User Technical Maintenance manuals to be supplied in Finglish. * List of Equipment available for providing calibration and mortine proventive Maintenance Support * They gave comprehensive warranty & well established service network, AMC/CM Crates for next 5 years to be provided separately along with rates of fluorescent microscope. * Digital Camera * Comprehensive warranty for three years. * After Sales Service & demonstration cum training should be available promptly		
Infinity Semi plan apochromatic phase 40x NA 0.80 WD 40 dbmm Infinity Semi plan apochromatic phase 100x oii NA 1.30 WP > 0.17 mm One extra lens according to the need. * Typ fluorescence illumination system and 100 W mercury illuminations, filter blocks for UV, flue and green excitation. The system should have filter blocks on a turet. * Polarizer and for transmitted light. * Computer requirement: PC workstation with Core 15 or 17 processor CPU, 19° & above LCD/LED Monitor, 11 B HDD, Super DDD, 8GB RAM. Backlit Key board, Mouse: * All consumables required for installation and standardization of system to be given free of toost. * One additional mercury halogen lamp. * The unit shall be capable of being stored continuously in ambient temperature of Upto Sodeg C and relative humidity of 15-90% * Power input to be 230 + 1-0% V AC, 50Hz fitted with Indian plug. * UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up, * Certified to be compliant with Electrical Safety Standard for Medical Equipment IEC-60601-1-1 OR equivalent BIS OR instruational standard for electrical safety, * USG Similar sain suitable for providing calibration and routine preventive Maintenance Support. * Three years comprehensive warranty & well established service network AMC/CMC rates for next 5 years to be provided separately along with rates of fluorescent microscope. Digital Camera Comprehensive warranty for three years. A for Sales Service & demonstration cum training should be available to	Infinity Plan apochromatic Phase 20x	
Infinity Semi plan apochromatic phase 100x oil NA 1.30 WD > 0.17 mm. One extra lens according to the need. * Epi fluorescence: illumination system and 100 W mercury illuminations, filter blocks for UV, blue and green excitation. The system should have filter blocks on a turret. * Polarizer and for transmitted light. * Computer requirement: PC workstation with Core is or if processor CPU, 19° & above LCD/LED Monitor, 1 TB HDD, Super ODD, 8GB RAM, Backlit Key board, Mouse. * All consumables required for installation and standardization of system to be given free of cost. * One additional mercury halogen lamp, * The unit shall be capable of being stored continuously in ambient temperature of Upto \$50deg C and relative hamidity of 15-00% * Power input to be 230 ≠ − 10% V AC, 201tz fitted with Indian plug. * One Soutiable rating with voltage regulation and spike protection for 60 minutes back up. * Certified to be compliant with Electrical Safety Standard for Medical Fajunpment IEC. 60601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Whaintenance manuals to be supplied in English. * List of Equipment and substandard for Providing Lalibration and ration preventive Maintenance manuals to be supplied in English. * List of Equipment and Sandard for Medical Fajunpment IEC. 60601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Whaintenance manuals to be supplied in English. * List of Equipment and Sandard for Medical Fajunpment IEC. 60601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Whaintenance manuals to be supplied in English. * List of Equipment and Sandard for Medical Fajunpent IEC. 60601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Whaintenance manuals to be supplied in English. * List of Equipment IEC. 60601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Whaintenance manuals to be provided	NA 0.50 WD > 1.1mm	
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100x oil NA 1.30 WD > 0.17 mm.		
100x oil NA 1.30 WD > 0.17 mm.	Infinity Semi plan apochromatic phase	
One extra lens according to the need. * Epit fluorescence illumination system and 100 W mercury illuminations, filter blocks for UV, blue and gene excitation. The system should have filter blocks on a turet. * Polarizer and for transmitted light. * Computer requirement: PC workstation with Core 55 or 77 processor CPU, 19° & above LCD/LED Monitor, 1 TB HDD, Super DDD, 8GB RAM. Backlit Key board, Mouse. * All consumables required for installation and standardization of system to be given free of cost. * One additional mercury halogen lamp. * The unit shall be capable of being stored continuously in ambient temperature of Upto 50deg C and relative humidity of 15-00% * Power input to be 220-4-10% VAC, 50Hz fitted with Indian plug. * UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up. * Certified to be compliant with Electrical Safety Standard for Medical Equipment IEC-60001-1-1 OR equivalent ISC 800-1-1 or Requirement ISC 800-1-1 or		
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and 100 W mercury illuminations, filter blocks for UV, blue and green excitation. The system should have filter blocks on a turret. * Polarizer and for transmitted light. * Computer requirement: PC workstation with Core is or if processor CPU, 19° & above LCD/LED Monitor, 1 TB HDD. Super ODD, 8GB RAM. Backiti Key board, Mouse. * All consumables tequired for installation and standardization of system to be given free of cost. * One additional mercury halogen lamp. * The unit shall be capable of being stored continuously in ambient temperature of Upto 50deg C and relative humidity of 15-90%. * Power input to be 230 +/- 10% V AC, 50Hz fitted with Indian plug. * UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up. * Certified to be compliant with Electrical Safety Standard for Medical Equipment IEC- 66601-1-1 OR equivalent BIS OR international standard for electrical safety. * User Technical Maintenance manuals to be supplied in English. * List of Equipment available for providing calibration and routine preventive Maintenance Support. * Three years comprehensive warranty & well established service network AMC/CMC rates for next 5 years to be provided separately along with rates of fluorescent microscope. * Digital Camera ith the following features: Recent model with 12 mega pixels or more CCD camera with appropriate lens system mounted. * Image analysis: system for capture, morphonetry, thresh holding (grey level profiling) and analysis: annotation, etc. * Note:- * Comprehensive warranty for three years, After Sales Service & demonstration cum training should be available		
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cum training should be available	1 2	
promptiy		
	promptly	

13	Flow cytometer	1. Quoted system should have the	01	Comprehensive
	J	following 4 essential solid-state lasers:	Nos	warranty for five years. After Sales
		a. 355nm UV Laser		
		b. 405nm violet laser;		Service &
		c. 488nm blue laser;		demonstration
		-		cum training
		d. 630-640nm red laser		should be
		The system must be future upgradable to		available promptly
		at least 1 more laser. All the laser path		
		should be spatially separated.		
		2. System must have the ability to detect		
		at least 18 parameter (at least 16		
		independent fluorescence		
		channels/detectors) including one		
		forward and one side scatter		
		simultaneously.		
		3. System should have dedicated beams-		
		spots for each laser with fixed aligned optics.		
		4. All the fluorescence detector,		
		channels and side scatter channel must		
		be designed with photo multiplier tube		
		(PMT) or equivalent for achieving best		
		resolution even for dimly stained		
		population.		
		5. System should be able to acquire		
		30,000 events per sec or more for rare		
		event analysis.		
		6. The system should provide superior		
		sensitivity to measure of events with low		
		antigen expression and application with		
		dim fluorescence attaining which is		
		achievable by high efficiency, low-		
		noise.		
		7. The quoted system should have		
		custom setting for variable flow rates.		
		The system should be have pulse Height,		
		Area and Width information available		
		for all parameter simultaneously.		
		8. The system should have unrestricted		
		fluorescence compensation from 0 to		
		>100% between all fluorescent channels.		
		9. System should be used on		
		hydrodynamic focusing and with latest		
		available advanced technologies. 10. System should have automated		
		fluidics startup and shutdown		
		procedures.		
		11. Quoted model should have future		
		upgradable option of high throughput		
		plate loader module for various high		
		throughput application of 96 well plates		
		and higher directly.		
		12. Compartible workstation with latest		
		hardware configuration and high		
		resolution LCD/LED monitor(s) along		
		with laser printer should be supplied by		
		the vendor.		
		13. System software should have		
		automatic compensation features and be		
	•			

time 14. D. offlir provided in the provided i	prehensive warranty for five years. Sales Service & demonstration training should be available ptly ass 100 vertical laminar flow air ould have microprocessor controlled ronic circuitry ould have LCD display to show ured parameters like stage velocity, using time, UV/FL lamp on/off etc. e air purification should be done gh class 100 HEPA filter, with ency of 99.99% or above with 0.3 article removal ould have a pre-filter of 3-30 um cle removal, and it should be diable. e cabinet should give class 100 yould have an wind velocity of 0.30-m/sec Filters-combines an ISO 5 cope) Class 100 clean air onment. 99.99%- efficient HEPA and disposable prefilter. arms – monitors the effectiveness e workstation and alerts the operator HEPA filter or UV bulb needs cement. terior dimensions (H × W × D): oximately 32 - 40"x 34 - 42"x 26 erior working area24 - 32" (W × approx. terior: stainless steel or epoxy ler-coated metal.	1 Nos	* Comprehensive warranty for three years. * After Sales Service & demonstration cum training should be available promptly.
* Int			

holder	
* Side panels transparent, able to absorb	
wavelengths below 400 nm.	
* Overhead UV light for DNA	
decontamination of 15W/254 nm	
* Spare parts - Two UV lamps.	
* Should be FDA or CE or BIS	
approved product	
* Certification: EN12469 OR equivalent	
* Electrical safety requirements: UL	
61010-1, EN 61010-1, IEC 61010-1	
* Timer and key lock for UV lamp;	
timer operates only when key lock is on.	
* Overhead white light; 15 W; at least	
800 lux.	
* At least two plug outlets built into the	
chamber; AC $110 \pm 10 \text{ V}$; 60 Hz; 5A	
fuse.	
* Should come with support stand with	
castor wheels	
* Should be supplied with following	
accessories	
2 Ergonomic foot rest.	
2 Ergonomic lab chair	
Electricity requirements	
, ,	
Supply voltage: 230 ± 10 V, AC, 50/60	
Hz.	
* Voltage and plugs to be adapted to	
meet the country requirements. The line	
cord / Power cord supplied with the	
equipment shall be of acceptable	
durability, length, and current carrying	
capacity complying with Indian	
Standards.	
* Power consumption: Depends on the	
electrical equipment used inside the	
workstation; maximum 1200 W.	
* Conform to electrical safety standards	
IEC 60601–1, UL 61010–1, EN 61010–	
1.	
* Protection class (in accordance with	
EN 60529).	
* Designed not to interfere with circuit	
radio (in accordance with EN 55014).	
Documentation	
* Manufacturer's certificate - The	
manufacturer must have a management	
system certified to ISO 9001 and a type-	
test certificate of relevant optical and	
mechanical tests.	
* Quality and safety standards met by	
the product must be listed.	
Operation, maintenance and	
installation	
* Operation and maintenance manual -	
At least one set of operation,	
maintenance and service manuals	
written at least in English and preferably	
at least in English and preferably	ll

also in the official national language of		
the country requesting the workstation.		
* All standard accessories, consumables		
and parts required to operate the		
equipment, including all standard tools		
and cleaning and lubrication materials,		
should be provided with machine		
Spare parts		
* Each workstation to be accompanied		
by an authorized list of accessories and		
spare parts.		
* Set of fuses for the workstation.		
* Two UV lamps.		
Warranty: 3 year comprehensive and		
with next 5 year AMC.		
* Warranty period starts from		
successful installation at site		
* Breakdown calls to be attended as and		
when required		
* Preventive Maintenance to be carried		
out annually.		

नोटः— कृपया प्राईस बिड भरने के पहले समस्त दस्तावेज एंव स्पेशिफिकेशन ध्यानपूर्वक पढ़ एंव समझ लें, उसके पश्चात ही निविदा भरें।

> निविदाकर्ता / सेवादाता के हस्ताक्षर नाम एवं पूर्ण पता संस्था की सील