

# Regional Centre for Biotechnology

an institution of education, training & research

(Established by the Dept of Biotechnology, Govt of India under the auspices of UNESCO)  
NCR Biotech Science Cluster, Faridabad, Village-Bhankri, District Faridabad(Haryana)  
TeleFax: 0129-2848813; email: ksingh@rcb.res.in

## SUPPLY ORDER

(Stores to be despatched by CARGO MODE only)

No. RCB/EQ/38/17-18/ATPC (IMP)

30 Nov 2017

M/s Jeol Aisa Pte.Ltd.

2 Corporation Road, #01-12  
Corporation Place Singapore 618494

Through Indian Agent

M/s Jeol India Pvt. Ltd

Unit NO. 305, 3<sup>rd</sup> Floor ABW Elegance  
Jasola District Centre New Delhi 110025

Dear Sir,

Please dispatch immediately by Sea the following items as per Indian Agent Quotation No.JIAP/170810 dated 10.08.2017, offer letter No JIAP/171122 dated 22.11.2017 and JIAP/171128 dt. 28.11.2017 and dt 30.11.2017 Tender No RCB/ATN/09/17-18/ATPC towards supply of following items, price as mentioned there in to the laboratory of our Institute. We are pleased to place order for supply / installation of the same as per the details and terms & conditions given below:

Sr no	Part no	Description	Qty
		<b>200 kV Cryo-TEM with accessories</b>	
1	JEM-2200FS(CR)	FIELD EMISSION ELECTRON MICROSCOPE with In-Column Energy Omega filter	1
2	EM-21000EBU	ELECTRON MICROSCOPE BASIC UNIT	1
3	EM-20145(ZFE20)	FIELD EMISSION GUN	1
4	EM-20520	ILLUMINATION ASTIGMATISM CORRECTOR UNIT	1
5	EM-20500	CM LENS UNIT	1
6	EM-20640	CRYO POLEPIECE	1
7	EM-07320(MOLA)	MOTORIZED OL APERTURE	1
8	EM-23090	SIP VACUUM PUMP UNIT & Turbo Molecular Pump	1
9	EM-37301PCU	COMPUTER UNIT	1
10	EM-07146MON24	MAIN MONITOR	1
11	EM-24181CCS	CAMERA SCREEN	1
12	CMOS camera	DIGITAL CMOS CAMERA FOR REMOTE VIEWING	1
13	EM-25400	DIGITAL HOUR METER	1
14	EM-28025	LIFT POLE	1
15	EM-20590	ELECTRODE SHORT SWITCH	1
16	EM-21301	PIEZO DEVICE MOVEMENT POWER SUPPLY	1
17	EM-21020(QR)	QUICK CHANGE SPECIMEN RETAINER	1
18	EM-21340HTR	HIGH TILT SPECIMEN RETAINER	1
19	EM-48151D	WATER CHILLER	1
20	MDS	MINIMU DOSE SYSTEM- STANDARD FEATURE	
21	EM-01070SQH	SPECIMEN QUARTET HOLDER - MULTI SPECIMEN HOLDER	1
22		Additional FEG source as and when required in the warranty period and provision for adequate spare parts such as aperture	1
23		Tool kit	1
		<b>TOMOGRAPHY</b>	
24	Tomography holder	Tomography holder	1
25	EM-05830TG64F	TEMOGRAPHY SYSTEM VERSION OF 64BIT /OVERSEAS	3
26	EM-05850RECF	IMAGE RECORDING SOFTWARE /OVERSEAS	3
27	Single particle analysis software	JADAS Single particle analysis software and IMAGIC Processing Software	3



28	Phase plate	Hole Free Phase Plate and attachment for JEM-2200FS with all necessary attachments. Two phase plates will be provided ( one standard & one spare)	2
29	Enclosure	Gonio Meter Cover for protection from external interference	1
30		Atomic resolution imaging mode	1
31	Remote operation	Remote operation of TEM	1
32	JEOL make Plasma cleaner Model EC-52000IC	Plasma cleaner for cleaning cryo-holders, cryo transfer station, cold stage controller, dry pumping stations and all cryo-tools etc. for holders <b>Make : JEOL</b>	1
33	Cryo attachment	<b>GATAN Cryo Attachment as under</b>	
34a.	Cryo holder - Gatan 626	Gatan Cryo Transfer holder Model 626	2
34b.	1905	Temperature controller	1
34c.	655	Turbo pumping station	1
34d.	930.50000	Filter paper punch	1
		<b>Ultramicrotome</b>	
35	Cryo Ultramicrotome	Leica make Cryo Ultramicrotome UC7 + FC7	1
36	Glass knife maker Model EM KMR3	Glass Knife maker , with Adequate consumables for sectioning and knife maker will be provided, trimmer	1
37	Diamond knife	Diamond knife	1
38	Sample prep items training	For above Leica products, Intensive training will be provided to enable independent and precise operation by users to generate sections of biological samples with desired thickness at ambient and cryogenic temperature (3 days)	1
39	Comprehensive warranty 5 years	Comprehensive warranty of Five years	1
		Direct Detection Camera and accessories	
40a.	Gatan K2 Summit - 1000.S -	Gatan K2 Summit direct detection camera, details as per enclosed catalog * K2 Summit Direct Detection Camera: 14.4-megapixel, electron-counting direct detection camera for cryo-electron microscopy and other low-dose imaging applications. The camera includes the super-resolution mode, host computer with an advanced quad-core processor, 2 TB hard drive, 12 GB RAM, 30" LCD monitor, and high-speed data interface. It requires the GEN3 Camera Housing and Flange (1000.U2). Capabilities and performance specifications as given in the K2datasheet	1
40b.	1000.U2	GEN3 housing and flange	1
40c.	Advanced training 1000.TA	Advance training for 1000.TA	1
41	930.GB	Cryo plunge 3 system (Gentleblot)	1
42a	JEOL make Glow discharge unit Model DII-29020HD	DII-29020HD Hydrophilicity Treatment for Electron Microscope Glow Discharge Unit	1
42b	JEOL Carbon Coater EC-321010CC	JEOL make Carbon coater model EC-32010CC	1
43	Air compressor	Air compressor	1



44	Computational infrastructure	Computational Infrastructure for recording, storage and analysis: Adequate computational infrastructure for data recording and storage along with all required accessories will be provided with the system. Software to operate the system, record data, store data and for analysis should be provided High Speed storage appliance with capacity of more than 600 TB is preferred. Overall, the computational infrastructure provided should allow smooth operation of the system and analysis of the recorded data. Appropriate Software for automated and manual operation, automated and manual data collection and downstream data analysis for all applications (including single particle and tomography reconstruction) should be provided Separate computer should be provided for offline data analysis. To be supplied from local sources in India	As per tender specs
45	Workstations	32" LED, Intel XEON Processor, 256 GB, 5TB HDD	3
46		120 kV TEM with 2K X 2K CCD camera	
46A	JEM-1400(HC)	ELECTRON MICROSCOPE	1
46B	EM-12000BU	ELECTRON MICROSCOPE BASIC UNIT	1
46C	EM-10020(CLPP1)	SINGLE GAP CL POLEPIECE	1
46D	EM-10131HC12	HIGH CONTRAST POLEPIECE	1
46E	EM-00010LD	LENS DATA	1
46F	EM-11210SQCH	SPECIMEN QUICK CHANGE HOLDER	1
46G	EM-37301PCU	COMPUTER UNIT	1
46H	EM-17212TMON23	TOUCH MAIN MONITOR	1
46I	EM-10230AOA	OBJECTIVE APERTURE	1
46J	EM-13110ACD12	ANTI CONTAMINATION DEVICE	1
46K	EM-30040(BS)	BEAM STOPPER	1
46L	SM-TOOL2	STANDARD TOOL KIT 2	1
46M	EM-14100BINOC	BINOCULAR	1
46N	EM-48051D	WATER CHILLER	1
46O	CCD Camera	2K X 2K Side Mounted CCD Camera	1
47		TEM grids 300mesh	1000

**CIF ICD Tughlakabad New Delhi      USD 18,85,000.00**  
**(US Dollars Eighteen lakh eight five thousand only )**

**Locally supplied items**

No.	Item	Accessories	Quantity	Amount
1.	UPS for JEM-2200FS	15 KVA UPS (3 phase ) to ensure smooth and noiseless operation of all components To be supplied from local sources in India	2	INR 750,000.00
2.	UPS for JEM-1400	10 KVA UPS to ensure smooth and noiseless operation of all components To be supplied from local sources in India	2	Free of Cost

**Warranty:** 5 years from the date of successful installation. During the warranty period, should the system develop any fault, and parts are required to set the instrument right, these parts will be shipped free of charge on CIP/CIF basis.

**Post Warranty CMC charges** is INR.32,00,000.00 (GST as applicable) per year with 5 % increment every next year.

**Spares prices after expiry of 5 Year comprehensive warranty:-**



Spares price for JEOL Model JEM-2200FS once 5 years warranty is over (spares list enclosed) USD10,000.00.  
Spares price for Leica sample preparation items once 5 years warranty is over (spares list enclosed) USD8,000.00.

**Post Warranty AMC charges:** INR.16,00,000.00 (GST as applicable) per year with 5% increment every next year

**Payment terms:** 70% payment against the order value will be released on receipt of goods upon certification at RCB, Faridabad through Wire transfer balance 30% after successful installation of the equipment and submission of 10% PBG for 63 months from the date of installation (3 months beyond the warranty period).

**Delivery Period:** Within 6 months from the date of issue of supply order. However, shipment should be effected only after clear written confirmation from the RCB about the readiness of the site. Shipment is to be made directly to our Institute and copy of invoice and Bill of Lading should be sent along with the shipment to Executive Director, Regional Centre for Biotechnology NCR Biotech Science Cluster, Faridabad, District Faridabad (Haryana) 121001

Indicate following instructions on the Bill of Lading :-

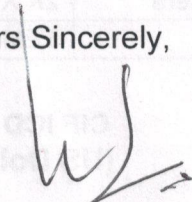
1. Please inform consignee well in advance 5 days prior to shipment, alongwith all connected documents (Invoice, packing list, Bill of Lading etc.) on email [ksingh@rcb.res.in](mailto:ksingh@rcb.res.in) and [mohan\\_gandhi@rcb.res.in](mailto:mohan_gandhi@rcb.res.in).

**Please Note:** The supplier is requested to provide all relevant documents/pre-alert shipping documents, 5 days in advance, before arrival of shipment at port so that our appointed CHA take necessary action well in time, otherwise, the supplier and Indian agent of the firm will be held responsible and all the additional charges imposed upon the Importer as levied by the customs as per their latest Notification No.26/2017-Customs(N.T.) dated 31 March 2017 shall be recovered from the supplier/their Indian agent

2. Please arrange to install the equipment immediately on arrival and submit the installation report to Purchase office. Ensure Bill of Lading details must be informed to us Fax +91-129-2848813 or through email [ksingh@rcb.res.in](mailto:ksingh@rcb.res.in), at least 5 days before arrival of shipment at Delhi. The Phone no and Fax no: to be mentioned on Bill of Lading. Acknowledge the order. Please feel free to contact via email: [mohan\\_gandhi@rcb.res.in](mailto:mohan_gandhi@rcb.res.in) in case of query.

3 In addition to the above all terms and conditions as per Tender No RCB/ATN/09/17-18/ATPC shall govern and be binding on the supplier

Yours Sincerely,



(V.M.S. Gandhi)

Administrative Officer

(a) Supplier Copy  
(c) Concern User/Department (0319)

(b) Inventory Section  
(d) Office Copy