

MINUTES OF PRE-BID MEETING

“Supply of Research Lab Equipment”

A pre-bid meeting for the subject procurement was held on November 20, 2020 at PAF-IAST. Following bidders attended the meeting while others communicated their queries via email.

1. Mr. Aurangzeb Khalil, (AMS Pvt. Ltd).
2. Fahad Naseer, Prime Scientific Corporation.
3. Shahid Goraya, Latif Brothers (Instrument).

Following were the questions raised by the prospective bidders and replies by the PAF-IAST:

Question/Query by Bidders	Reply by PAF-IAST
General	
1. Relevant experience as mentioned on page #: 17, serial 7, is whether two or five projects of similar nature, value, and complexity in last three years?	Revised to Two (02) projects of similar nature (same equipment).
2. Public sector experience as mentioned on page #: 18, serial 15, the worth of each project may be revise.	The worth of each projects may be read as Rs. 20 million each project.
3. SECTION-2 (ITB) Serial # 47 (47.1) You have mentioned 30 days payment term in currency of bid which is not acceptable by the Foreign Principals in general as they will offer CPT Price in USD desired by you and may be this 30 days term is workable for local supplies quoted in local currency with Import duties & other taxes included in quotes.	30 days payment term is applicable in case PAF-IAST opt DDP mode from local supplier. However, if the PAF-IAST decides to go for the foreign principal then an irrevocable Letter of Credit (LC) at sight may be opened, and this 30 days payment will not be applicable then.
4. We may inform you that CIF prices include the Insurance Charges which are not allowed to be paid in Foreign currency under State Bank rules so these said prices should be CPT Airport of Destination & Insurance has to be from local Insurance Companies. The Foreign Insurance is only allowed under Foreign Grants & Import under foreign funding.	In that case, the prices are to be quoted as C&F or CPT. However, the Insurance, inland transportation, installation, configuration, testing and commissioning as well as training will still be onus on the bidder/ local supplier.
5. In case the consignee for the imported equipment is a commercial company like us, the equipment is subject to import Duty, Sales Tax and other taxes under the applicable	Both DDP and C&F/ CPT have been asked in the Tender and Bidders are required to quote in both Incoterms. PAF-IAST shall decide at the time of signing of Contract which of the two should be opted for the

HS codes 9027/9012/9022 and when the local payments made by the customer i.e your Institute, another 17% sales Tax is to be charged to the consignee as per DDP.	respective Lot. However, for the purpose of Price Comparison as to award the contract, prices quoted in DDP shall be applicable and used by PAF-IAST.
6. SECTION-3(BDS), Serial # 28 The indicated delivery time for Instruments under LOT #1,2,3,5,6 are possible in 10~12 weeks being the routine small Instruments but the equipment indicated in LOT # 4&7 normally need more shipment time as these are made-to-order and it should be allowed around 20 weeks.	The matter was discussed internally and it has been decided that the timelines given for delivery of equipment is various Lots shall remain the same as referred in RFP.
Lot No. 1, Atomic Absorption Spectrophotometer.	
7. Slit width, which is auto selectable and no need to mention steps in auto system.	Agreed. May be read as 4 steps and auto selectable.
8. Detectors: We have requested to allow both technology whereas SSD is the latest technology with better resolution and this technology is using in ICP & ICPMS.	For performance, the PMT or derivative HDD offers improves detection limit, Background Equivalent Concentration (BEC) and resolution. SSD spectrometers do offer faster analysis for high numbers of elements where detection limits are not important, whereby short integration times may be used. High resolution sequential PMT spectrometers still provide the best detection limits, resolution, and wavelength coverage. The detector will remain same as PMT.
9. 4-8 Lamps holder to 6-8 lamps holder If necessary.	It is a range from 4-8, which covers 4, 6 and 8, lamps holders. It will remain same.
10. Air-acetylene burner + Nitrous oxide -acetylene burner 04 number reach?	The number may be read as one extra each.
11. Laptop computer i7	May be desktop computer or All-in-One at least core i5 latest generation.
Lot No. 2: Total Organic Carbon Analyzer	
12. Repeatability: TC, IC, CV 1.5 % max. or $\pm 4 \mu\text{g/L}$ max, the range may be extended.	The repeatability may be read as 1.5% max.
13. Detection limit: TC, IC: $4 \mu\text{g/L}$?	Will remain same.
Lot No. 3: GC- with FID, TCD and GC-MS	
14. Please review the dual filament with high current, whereas single filament system long life due to low current. We are requested to allow both. Dual filament / single filament.	Dual filament is necessary, in case single filament fails then the system will go down and the sample, gases and time will waste. In case of dual filament if one filament fails the system switch to stand by filament and system will run normally. The dual filament will remain unchanged.

15. Electron Energy is not required more than 100eV because review the NIST Library all spectra can be achieved upto 70eV. So maximum energy upto 90 or 100 is quite enough.	The electron energy may be read from 10 to 110 eV
16. Scan rate should be 10000 or better for healthy competition. This is not mandatory part of GCMS.	Scan rate will remain same. Because high scan rate means fast analysis and in long chain if scan rate is very low the system will miss most of information regarding fragments. The scan rate will remain unchanged.
17. Unit Mass Resolution	May be read as user adjustable.
18. Gas sampling assembly is not mandatory, if you have the head space then you can use this accessory.	Gas sampling valve and head space are totally different. Gas sampling assembly should be included, with all other requirements with GC-TCD, FID. The system should be ready for analysis of CO, CO ₂ , water gas etc.
19. In FID mode the acquisition rate is different for different manufacturers. May be flexible.	Agreed.
20. GC number of columns 10, please specify.	3 each for TCD, FID and four for GC-MS.
Lot No. 4: Scanning Electron Microscopy (SEM)	
21. Dynamic extended Low Vacuum is patented to Thermo.	The term is extended low vacuum and it will remain same, to include environmental mode.
22. Magnification 5x to 1000000 or better may be flexible	Agreed.
23. The stage movements shall be X: 110mm or more, Y: 100mm or more, Z: 60mm or more, tilt: minus 15 to 90, Rotation: 360 continuous May be change to The stage movements shall be X: 80mm or more. Y: 100mm or more, Z= 35mm or more, tilt: minus 10 to 90, Rotation: 360 continuous	Agreed.
24. Interlaced scanning for charge mitigation May be change with to minimize charging effect.	System for minimizing charging effect
25. The specimen chamber size to accommodate the sample with diameter of 120mm, (will remain same?)	Yes, it will remain as it is.
26. Laptop Computer: Core i7,	Latest Computer or All-in-One with two interlinked display monitors (min 24

	inches), 2TB hard disc or higher and RAM 16GB or higher
27. Vibration isolation system, EMI active cancellation system	May be not considered.
28. Mapping software, please explain.	Mapping software is mandatory.
29. Testing of the samples supplied by us to validate the specifications, please explain.	A standard specimen which will come with the instrument from the manufacturer, to validate the specifications. Additionally, standard samples of commonly used materials must be provided for quantitative analysis for calibration with EDS.
Lot No. 5: Thermal Analyzers, Includes Thermogravimetric analyzer with DTA	
30. Factory calibrated for temperature and balance and also for the Tau lag calibration to minimize the effect of different heating rate during the experiment, please explain.	May be read as "Factory calibrated for temperature and balance".
Lot No. 6 FTIR	
31. Detector: DLTGS and DTGS both may be allowed.	Agreed.
32. Wavelength range is missing.	11800 cm ⁻¹ to 350 cm ⁻¹
33. XT-KBr On-Axis Beam splitter may be flexible	May be read as XT-KBr On-Axis Beam splitter/KBr, CaF ₂ /ZnSe etc, but should cover the same range as XT-KBr
34. The libraries mentioned are too much.	The libraries for minerals, polymers, organic reagents, and inorganic reagents are standard and required. All the other mentioned libraries may be considered as optional but should be quoted as per the format given in Form-G.