

Pre-Bid Clarification for Supply, Installation, Testing & Commissioning of High Resolution - Inductively Coupled Plasma Mass Spectrometer.

Tender No. : NCPOR/PS/HSS-618/GT-05.

Sl. No.	Tender Specifications/ Conditions	Pre-Bid Queries	Reply/Clarification
1.	Performance Bond Security - 5% of the total order value to be submitted within 14 days from the award of contract.	Due to bidder need to appoint a Indian Schedule bank from our UK bank, bank guarantees can take up to 3 weeks. Is it possible to extend the submission PBSBG to 21 days from award of contract?	The Performance Security to be submitted as stipulated under SCC Point No. 11, Page 73 of the Tender Document.
		As the supply of the HR-ICPMS requires and export licence which can take 1 – 3 months for official decision, is the “award of contract” placed by NCPOR before or after the export licence decision?	The delivery of the instrument shall be completed within Six (06) months from the date of issue of Purchase Order, as stipulated under SCC Point No. 4, Page 72 of the Tender Document.
		If the “award of contract” is made before the export licence decision and in the unlikely event of export licence refusal, are there any penalties imposed or liquidated damages imposed and subtracted from the PBSBG?	The matter shall be considered in accordance with the applicable contractual provisions, subject to the supplier submitting documentary evidence and as stipulated under GCC Point No. 8.13, Page 55 of the Tender Document.
2.	Delivery Period - Within SIX (06) MONTHS from the date of issue of Purchase Order	Is the 6 month delivery period from the date of award of contract/PO or 6 months from the date of export licence approval?	The delivery period shall be within six (06) months from the date of issue of the Purchase Order, as stipulated under SCC Point No. 4, Page 72 of the Tender Document.
3.	Sr. No. 1 Sample Introduction System b. Concentric Glass Nebulizer for normal acid-based solution with flow rates 50, 100 and 200 microliter/min should be quoted.	What number of Concentric Glass Nebulizer are required to be quoted?	The bidder shall quote at least one number for each nebulizers (corresponding to the specified flow rates of 50, 100 and 200 µL/min).
		Are these Concentric Glass Nebulizers in addition to any nebulizers that may be contained in consumables kits supplied under Sr. 13?	The quantity specified above shall be quoted as an independent requirement and shall be in addition to any nebulizers included in the consumables kit under Sr. No. 13
4.	e. Quartz cyclonic spray chambers (two numbers) compatible with the instrument	Are these Quartz cyclonic spray chambers (two numbers) in addition to those requested in Sr. 14. j.Quartz cyclonic spray	Yes. The quantities specified under Sr. No. 1 and Sr. No. 14 are separate requirements and shall be quoted as specified in the

	should be quoted.	chamber – 02 numbers?	tender. Accordingly, the two quartz cyclonic spray chambers under Sr. No. 1(e) are in addition to the two numbers specified under Sr. No. 14(j).
5.	f. Apart from the quartz nebulizer & spray chamber, the PFA nebulizer (50 & 100 microliter/min, 2 nos each) and spray chamber (2 numbers) should also be quoted.	Are the PFA nebulizers (50 & 100 microliter/min, 2 nos each) in addition to the PFA nebulizers requested in Sr. No. 14 c) PFA Nebulizer with sample probe having a flow rate of ~ 50 µl/min, 100 µl/min, 200 µl/min – 1 No each?	Yes. The quantities specified under Sr. No. 1 and Sr. No. 14 are separate requirements and shall be quoted accordingly.
		As the PFA nebulizers types for standard spray chambers are not directly compatible with desolvation “heated” systems, are these PFA nebulizers required for standard spray chambers or Desolvation system?	The PFA nebulizers specified under the relevant tender items are intended for the standard spray chamber configuration, unless otherwise specified by the bidder.
		Are these PFA spray chambers in addition to the PFA spray chambers requested in Sr. No. 14 k) Cyclonic PFA Spray chamber– 02 numbers?	Yes. The quantities specified under Sr. No. 1 and Sr. No. 14 are separate requirements and shall be quoted accordingly.
6.	h. Three quartz torches should be quoted.	Are these Three quartz torches in addition to those requested in Sr. No. 14 e. Plasma Torch– 02 numbers?	Yes. The three quartz torches specified under Sr. No. 1(h) are in addition to the two plasma torches specified under Sr. No. 14(e).
7.	j. Two quartz injectors, sapphire and platinum injectors (one each) should be quoted.	Are these injectors in addition to those requested in Sr. No. 14 h. Quartz injector – 02 numbers & Sr. No. 14 i. Platinum injector- 01 numbers?	Yes. The quantities specified under Sr. No. 1 and Sr. No. 14 are separate requirements and shall be quoted as specified in the tender.
8.	k. An auto sampler to handle 100 or more sample vials (10-15 ml capacity) should be supplied with the instrument and should come with all necessary probes and tubing, etc., and should provide the brochure of the offered autosampler.	We have attached the summary of different autosamplers. Depending on your application requirement, we request your clarification on the most suitable autosampler for your application.	The autosampler shall meet the minimum requirements specified under Sr. No. 1(k) and 1(l), including capacity for 100 or more sample vials of 10–15 mL capacity, necessary probes and tubing, and a metal-free clean cover with clean-air supply using a PTFE HEPA/ULPA filtration arrangement. The bidder may offer the autosampler model/configuration

	l. Metal-free clean cover for autosampler with clean-air supply (PTFE HEPA or ULPA filter).		that best meets these requirements and is fully compatible with the offered HR-ICPMS and NCPOR's intended applications.
9.	Sr. No.5 ICP interface and extraction lenses e. Three sets of high-purity nickel sampler and skimmer cones should be supplied.	For optimum performance, bidder supplies cones designed for “wet plasma” standard solution analysis and “dry plasma” desolvation solution analysis and laser ablation. Are the sampler and skimmer cones required for “wet plasma” or “dry plasma” operation?	The HR-ICPMS is intended to support the applications specified in the tender, including solution analysis, desolvation - based operation and Laser Ablation operation. Accordingly, the bidder shall provide cones that are appropriate and compatible with the specified applications and offered instrument configuration. The bidder shall clearly identify the type/application of the cones being supplied.
		Are these three sets of cones in addition to those requested in Sr. No. 14 f.? Ni Sampling Cone-04 numbers & Sr. No.14 g. g. Ni Skimmer Cone-04 numbers?	Yes. The three sets specified under Sr. No. 5(e) are in addition to the quantities specified under Sr. No. 14(f) and 14(g).
		Are these cones in addition to any nebulizers that may be contained in consumables kits supplied under Sr. 13?	Yes. The quantities specifically stated under Sr. No. 5 and Sr. No. 13 shall be quoted in addition to any components included in the consumables kit under Sr. No. 13.
10.	Sr. No.14. Additional Accessories a. Single element Internal standards – Rhodium, Indium and Bismuth (one bottle each 10ppm solution (100ml))	Can the single element standards be a higher concentration than 10ppm but still the same volume, e.g. 100ppm, 1000ppm?	The requirement specifies 10 ppm solutions, 100 mL each, for Rhodium, Indium and Bismuth. The bidder shall quote the standards at the concentration specified in the tender.
11.	c. PFA Nebulizer with sample probe having a flow rate of ~ 50 µl/min, 100µl/min, 200 µl/min – 1 No each	As the PFA nebulizers types for standard spray chambers are not directly compatible with desolvation “heated” systems, are these PFA nebulizers required for standard spray chambers or Desolvation system?	The PFA nebulizers specified under Sr. No. 14(c) are required for the standard spray chamber configuration. The bidder shall ensure compatibility with the offered spray chamber and associated sample-introduction components.
		Are these PFA Nebulizers in addition to those requested in Sr. No.1 f. Sample Introduction System	Yes. The quantities specified under Sr. No. 14(c) are in addition to the quantities specified under Sr. No. 1.

12.	e. Plasma Torch–02 numbers f. Ni Sampling Cone-04 numbers g. Ni Skimmer Cone-04 numbers h. Quartz injector – 02 numbers i. Platinum injector-01 numbers j. Quartz cyclonic spray chamber – 02 numbers k. Cyclonic PFA Spray chamber– 02 numbers	Are these in addition to any nebulizers that may be contained in consumables kits supplied under Sr. 13.?	Yes. The torches, cones, injectors and spray chambers specified under Sr. No. 14 are in addition to the corresponding items specified under Sr. No. 1 and Sr. No. 5, wherever applicable. The bidder shall quote the quantities specified under each respective serial number of the tender. Further, since bidders have raised queries regarding the items covered under Sr. No. 13 (Consumables/Spares), bidders are requested to clearly indicate in their offer the complete list of items proposed to be supplied under Sr. No. 13, along with the respective quantities, wherever applicable.
		Are these in addition to those requested in Sr. No.1 Sample Introduction System & Sr. No. 5. ICP interface and extraction lenses?	Yes
13.	l. Vacuum Pump oil– 2 bottles	Are these in addition to any pump that may be contained in consumables kits supplied under Sr. 13.?	Yes. The two bottles of vacuum pump oil specified under Sr. No. 14(l) shall be supplied separately and are in addition to any pump oil that may be included as part of the consumables kit under Sr. No. 13.
14.	Sr No.17. Training After the successful installation of the mass spectrometer and its peripherals, at least FIVE (5) PERSONNEL from NCPOR should be provided with hands-on and in-depth training (at least for TEN (10) DAYS) on the software, operation, maintenance, and application of the instrument by the	Training will be performed by an OEM trained and experienced engineer from within India.	The training shall be provided by an OEM engineer of the HR-ICPMS manufacturer. An OEM-trained engineer from an agent/channel partner or an India-based representative shall not be considered a substitute for the OEM engineer.

	OEM Engineer. The cost of an on-site training session should be part of the quotation.		
15.	Sr No.22. *Mandatory Compatibility and Integration Requirements: 1) a. The offered HR-ICPMS system should be fully compatible with and capable of seamless integration with the existing seaFAST SP3 sample introduction system available at NCPOR. b. The bidder should quote all necessary interface components, accessories, tubing, connectors, software compatibility, and other required hardware (minimum two sets) for coupling the HR-ICPMS with the seaFAST SP3 system. c. The bidder must quote all the expenses, including travel, accommodation, etc., for the visit of the OEM engineer for the integration of the seaFast system.	Can the training be performed using a training and experienced engineer from the manufacturer's agent/channel partner rather than manufacturer's OEM engineer? What level of integration performance is expected when interfacing with the seaFAST SP3? If faults, limitations, or degraded performance of the seaFAST SP3 prevent the required integration performance from being achieved, what criteria will be used to determine when integration work should cease?	For integration of the newly supplied HR-ICPMS with the existing seaFAST SP3 sample introduction system, the integration shall be carried out with the involvement of the OEM engineer of the existing seaFAST SP3 system. An engineer from the manufacturer's agent/channel partner shall not be considered a substitute for the OEM engineer of the existing seaFAST SP3 system for the integration activity. The requirement is for integration of the existing seaFAST SP3 sample introduction system available at NCPOR with the newly supplied HR-ICPMS. Successful integration shall demonstrate that the seaFAST SP3 can introduce samples to the newly supplied HR-ICPMS and that the HR-ICPMS can receive and analyse the introduced samples under normal operating conditions. The bidder shall provide the necessary interface components, accessories, tubing, connectors, software compatibility and other hardware required for the integration, as specified in the tender. If a pre-existing fault or limitation of the seaFAST SP3 is identified and established to be independent of the newly supplied HR-ICPMS and its interface, the same shall be jointly documented by NCPOR and the bidder. Repair, replacement or major refurbishment/upgradation of the existing seaFAST SP3 shall not form part of the bidder's scope under this procurement unless

			specifically quoted and agreed separately.
		Following such an event, what are the customer's requirements and expectations regarding project continuation, remediation activities, acceptance criteria, and any associated commercial or contractual obligations?	Where integration is prevented solely due to pre-existing faults of NCPOR's existing equipment, it will not constitute failure of the newly supplied HR-ICPMS, while the bidder remains responsible for its own equipment. The bidder shall complete the integration activities to the extent technically possible, functionality of the newly supplied HR-ICPMS and the interface provided by the bidder.
16.	2) a. The offered HR-ICPMS system should be fully compatible with and capable of seamless integration with the existing Laser Ablation (Teledyne Photon machine-Analyte excite 193nm) sample introduction system available at NCPOR. b. The bidder should quote all necessary interface components, accessories, tubing, connectors, software compatibility, and other required hardware (minimum two sets) for coupling the HR-ICPMS with the Laser Ablation system. c. The bidder must quote all the expenses, including travel, accommodation, etc., for the visit of the OEM engineer for the integration of the Laser Ablation system.	Can the training be performed using a training and experienced engineer from the manufacturer's agent/channel partner rather than manufacturer's OEM engineer?	For integration of the newly supplied HR-ICPMS with the existing Teledyne Photon Machines Analyte Excite 193 nm Laser Ablation sample introduction system, the integration shall be carried out with the involvement of the OEM engineer of the existing Laser Ablation system. An engineer from the manufacturer's agent/channel partner shall not be considered a substitute for the OEM engineer of the existing Teledyne Photon Machines Analyte Excite 193 nm Laser Ablation system for the integration activity.
		What level of integration performance is expected when interfacing with the Analyte excite 193nm?	The requirement is for integration of the existing Teledyne Photon Machines Analyte Excite 193 nm Laser Ablation system with the newly supplied HR-ICPMS. The bidder shall provide all necessary interface components, accessories, tubing, connectors and other required hardware/software compatibility necessary for coupling the two systems. Successful integration shall be demonstrated by effective transfer of laser-generated aerosol from the existing Analyte Excite 193 nm system to the newly

			supplied HR-ICPMS and acquisition of a stable signal under normal operating conditions.
		If faults, limitations, or degraded performance of the Analyte excite 193nm prevent the required integration performance from being achieved, what criteria will be used to determine when integration work should cease?	If a pre-existing fault, limitation or degraded performance of the Analyte Excite system is identified and established to be independent of the newly supplied HR-ICPMS or the interface provided by the bidder, the issue shall be jointly documented by NCPOR and the bidder. Repair, replacement, refurbishment or major modification of the existing Analyte Excite system shall be outside the scope of this procurement.
		Following such an event, what are the customer's requirements and expectations regarding project continuation, remediation activities, acceptance criteria, and any associated commercial or contractual obligations?	Where integration is prevented solely due to pre-existing faults of NCPOR's existing equipment it will not constitute failure of the newly supplied HR-ICPMS, while the bidder remains responsible for its own equipment. The bidder shall complete the integration activities to the extent technically possible, functionality of the newly supplied HR-ICPMS and the interface provided by the bidder.