Name of the High end Equipment - ICPMS				
1	Name of the Supplier - Agilent Technologie			
	Agilent 7800 ICPMS System			
S.No.	Main Heads/	Remarks, if		
	Components	any		
1	System Application			
2	Sample Introduction system			
3	Plasma			
4	Ion Extraction Interface			
5	Ion Focusing System			
6	Quadrupole Assembly			
7	Ion Detector Assembly			
8	Vacuum System			
9 10	Performance Specifications Water Chiller			
11				
11	Auto Sampler / Diluter Highly effective auto sampler / diluter compatible with			
	operation along with ICP- MS without user intervention.			
	• Auto sampler with minimum 200 vials holding			
	capacity with 500 nos. of 15 ml capacity tubes (as			
	consumable).			
	• Programmable complete with inert PTFE coated probe			
	with PTFE inner tubing.			
	• Spare extension tube complete with 20 ml syringe for			
	programmed auto dilution			
	• All accessories, racks, bottles, tubing assembly, waste			
	container, dust cover etc.			
	container, dust cover etc.			
12	System Controller and Operating System			
13	Computer B&W Laser Printer	PC included in		
		S.No.12		
	Optionally:			
	Colour Laser Duplex			
	Printer			
14	Multi vessel Microwave			
	digestion system The			
	system should be provided with a suitable microwave			
	digestion system of 20- 25 samples processing capacity			
	in one batch along with proper fume hood system. The			
	specification along with the model should be provided at			
	the time of tendering.			
15	Exhaust unit			
13	C+ d d d-l d	7 yrs		
16	Standards with minimum	7 y15		
	expiry of two years •	/ y15		
	expiry of two years Specially pure Analytical NIST traceable single element	7 y15		
	expiry of two years Specially pure Analytical NIST traceable single element standard solutions (Minimum pack or 100ml each	/ y15		
	expiry of two years Specially pure Analytical NIST traceable single element standard solutions (Minimum pack or 100ml each whichever is lower) for Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag,	7 yıs		
	expiry of two years Specially pure Analytical NIST traceable single element standard solutions (Minimum pack or 100ml each whichever is lower) for Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag, Mg, Ca, Na, As, Cd, Cr, Hg, Pb, Se, Fe should be supplied	7 yıs		
	expiry of two years Specially pure Analytical NIST traceable single element standard solutions (Minimum pack or 100ml each whichever is lower) for Sn, Ni, Cu, Zn, Ba, Sb, Ni, B, Ag,	7 yıs		

I	17	Power Supply UPS (The system should have UPS	
ı		(minimum 20 KVA) of suitable rating with voltage	
ı		regulation, spike protection and minimum 60 minutes	
l		back up for the supplied equipment.)	
	18	Accessories	
I		The following items,but not limited to, has to be	Ammonia &
ı		supplied along with the equipment:	Oxygen
ı		-Perisaltic pump tubing-sample intake -100 No's	Cylinder not
ı		-Perisaltic pump tubing-DraIN - 100 No's	required
ı		-Tubing-Auto Sampler Perisaltic pump - 25 No's	in our case
ı		-Micro mist nebulizer - 5 No's	
ı		-Plasma Torch - 5 No's	
I		-Ni Sampling Cone - 4 No's and Pt Sampling Cone - 2 No's	
ı		-Ni Skimmer Cone - 4 No's and Pt Skimmer Cone - 2 No's	
ı		- Hyper Skimmer cones/extraction system for HF	
ı		digested sample	
ı		-Vacuum pump oils - 5 Litres	
I		-Argon Gas Cylinders-6	
ı		-Gas Cylinder for Colliston cell gases-Helium-1	
ı		-Gas Cylinder for Reaction cell gases-Oxygen,Hydrozen &	
ı		Ammonia(>99.99%	
ı		mixed or pure as per system requirement), whichever is	
ı		applicable for	
ı		individual system for elimination of interference species	
ı		alongwith 3 stage	
ı		Gas pressure regulators for each Cylinder.	
		-Gas purification panel for Argon, Oxygen, Helium &	
		Hydrogen with appropriate plumbing.	
		-Optional: Any other sccessory as felt required for the	
١		proper functioning of the equipment.	
I			

19	Additional items	
	• Consumables for Five years operation of the system for	
	main ICP unit, spare torches, nebulizer, tunings, and	
	moisture trap are required to be quoted.	
	Bidders should quote a startup package for 100	
	samples. In addition, the bidders should give a list of	
	recommended consumables along with their source and	
	budgetary prices.	
	Operation kit comprising all required items pump	
	tubings, transfer tubings, work coils etc. for	
	startup/regular operation of instrument.	
	• Firm should also quote all essential pre-installation	
	requirements and utility requirement for ICP-MS.	
	• Give the Detection limits (DL) chart for Sn, Ni, Cu, Zn,	
	Ba, Sb, Ni, B, Ag, Mg, Ca, Na, As, Cd, Cr, Hg, Pb, Se, Fe (but	
	not limited to these elements. Provide for as many	
	elements as vendor can) and give the conditions at	
	which the DLs are measured.	
	Operation and maintenance manual for each unit in	
	both hard copy and soft copy.	
	Service manual with set of required tools for each	
	system/unit.	
	The system should have Server connectivity and	
	should be capable of 21 CFR Part 11 and food safety	
	compliance. The necessary validations will have to be	
	carried out by the equipment suppliers.	
	Methods library for all food matrixes, related	
	software's and user manuals to be provided.	
20	Operation and maintenance	
	& Training Component	
21	IQ/QQ/PQ	
22	Warranty	