Tender No. CIE/TPRA/002/2019

Name of the Equipment: Atomic Absorption Spectroscopy

Minutes of Pre-bid meeting held on 1-2-2019 for above is appended below:

Item No.`	Section No	Points raised by Vendor	IITM clarifications	
Required	2	How many lamps to quote?	Committee has approved following quantity of lamps, Please include all the necessary lamps (EDL) for the	
specifications			contaminants mentioned in the Table 1. Instrument with eight or more lamp positions will be preferred.	
Required specifications	3	Whether automated dosing and dilution is required for both automizers?	Committee has decided following specifications, Automated dosing and dilution accessory for both flame and furnace atomizer.	
Required specifications	4	FIAS is a vender name and it must be removed.	Committee has accepted the suggestion and specifications are decided as given below, Facility to use computer controlled continuous flow hydride generator for the analysis of hydride forming elements, should be capable to connect with flame as well as furnace to achieve very low level detection.	
Required specifications	5	Whether transversally heated graphite furnace is necessary?	Committee has retained specifications, Transversally heated graphite furnace with software- controlled change between flame and furnace.	
Optional specifications	1	Whether longitudinal Zeeman correction is required?	Committee has accepted the suggestion and required specifications are decided as given below, Background correction facility with Deuterium lamp for flame automizer and longitudinal Zeeman correction for furnace automizer.	
Required specifications	9	Whether autosampler is required for both automizers?	Committee has approved following specifications, Fully automated system with autosampler for automatic loading of samples for flame and furnace automizers.	
Optional specifications	2	Whether PMT detector can be also quoted?	Committee has accepted the suggestion and required specifications are decided as given below, High resolution monochromator and solid state detector/PMT with high quantum efficiency with	

			maximum possible wavelength range.	
	11	Accessories to quote?	Committee has described accessories requirement as	
Required specifications			given below,	
			Please quote essential accessories required for smooth	
			operation of AAS with aforementioned requirements.	
			Committee has approved following quantity of lamps,	
Optional specifications	3	Whether all lamps for all the optional elements need to be quoted?	Please include all the necessary lamps (EDL) for the	
			contaminants mentioned in the Table 1. Instrument	
			with eight or more lamp positions will be preferred.	

Table 1

Sr.	Element	Detection	Unit	
No.				
		Lower limit	Upper limit	
		(must be	(must be	
		equal to or	equal to or	
		less than)	more than)	
1	Calcium	10	1000	mg/l
2	Magnesium	10	1000	mg/l
3	Chromium	5	100	ug/l
4	Barium	10	100	ug/l
5	Copper	5	100	ug/l
6	Mercury	0.1	100	ug/l
7	Cadmium	0.4	40	ug/l
8	Selenium	5	50	ug/l
9	Arsenic	1	100	ug/l
10	Iron	10	100	ug/l
11	Lead	4	100	ug/l
12	Beryllium	0.4	50	ug/l
13	Thallium	5	100	ug/l

14	Antimony	5	100	ug/l
15	Aluminum	0.1	0.2	mg/
16	Silver	5	100	ug/l
17	Nickel	70	1000	ug/l
18	Zinc	1	15	mg/l
19	Bismuth	1	100	mg/l
20	Boron	0.5	50	mg/l
21	Manganese	0.4	40	mg/l

TENDER NOTICE

Item No.`	Section No	Points raised by Vendor	IITM clarifications
Tender Notice	Schedule	Vendors requested for 100%	ICSR decided to retain the
Instructions to the Bidder	Payment	LC advance payment against	original Terms and Conditions
		Performance guarantee	-
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GENERAL TERMS AND CONDITIONS

Item No.`	Section No	Points raised by Vendor	IITM clarifications	
General Terms and Conditions Warranty		The cost should include 24 months warranty of the overall	The cost should include for 5 years warranty of the overall	
		system and CIP upto Chennai	system and CIP upto Chennai	
General Terms and Conditions	Technical Bid should comprise of the following:	EMD should not be enclosed in the Technical Bid	The EMD should be sent in a sealed cover	