

**Clarifications issued against Tender No.57(91)2015-PUR/T-85 dated 08/01/2016
for Supply, Installation and Commissioning of X-Ray Diffractormeter (XRD)**

S. No		Clarification sought	CSIR-NGRI Reply
1		In your tender solid state technology based detector for diffraction and scattering application with capability of working in OD, 1D and 2D modes has been asked. Additionally it has also been mentioned that data collection should be 300 to 350 times faster than conventional point detector	Yes, the detector requested to be offered in the tender stands firm performing OD,1D,2D mode. The data collection speed may be considered for 1D operation or 2d operation as per the design of the detector being offered by vendor/ manufacturer. Yes, we are aware of various kinds of XRPD detectors being manufactured or brought out by XRD manufacturers. We are also aware of the range of detectors matching/ exceeding our requirements available with organisation. Our tendered detector specification is of latest design criteria and capabilities and same should be quoted meeting our requirements
2		Under sample holder section number of sample holder for PMMa/Steel type / equivalent is mentioned 910 reflection. We are unclear if you want a holder which has reflection along with 910 plane? Please advise actually how many such sample holders are required?	Point b under section '6' of the tender specification may be read as 9-10 No's of sample holder.
3		Under software section dedicated SAXS application software has been asked to be offered in the basic scope of supply. We would like to bring to your attention that no optics have been requested for the same in tender.	Suitable optics may be quoted and should include in main scope of supply.
4		Regarding training at manufacturer's site (foreign training) we would like to reconfirm that supplier has to bear all cost for training fee, to and fro air charges, VISA processing charges, Local conveyance, lodging and boarding in the foreign country. This will not include passport making charges.	OK
5		We would like to bring into notice that PDF4+	Acceptable

		database which has been asked in your technical specification. It comes with only 1 year license validity and CSIR-NGRI will have to renew the license every year by paying directly to ICDD. Please confirm whether this is acceptable to CSIR-NGRI.	As such we are not changing any specifications and will remain same and accordingly you may offer your quote
6	Tender Specifications Sl. No. 4 Goniometer	Under S.No. 5 : Sub Heading ; Detector specification states that Detector should have high angular coverage (2.5 degree or better) at radius 200 mm and more	Goniometer radius Minimum 250 mm
7	6.b) Sample Holder of PMMA/steel type/equivalent of 910 nos for reflection	Please clarify whether the quantity of sample holders requested is 910 No.'s or it is to be read as 9 – 10 No's. (i.e. a set of 9 to 10 No's of sample holders for Reflection XRPD measurement.	It is to be read as 9-10 Nos.
8	6.d) Sample Stage & Sample Holder Silicon zero background sample holders to hold small sample size (150mg) – flat and/cavity type or equivalent, 2 No's each	Silicon Zero back ground sample holders are primarily used to handle low sample quantity measurements. We consider 150 mg. to be a very large quantity. Please clarify whether the mentioned the sample quantity is 150 mg. or it is 1- 50 mg.	It is 1-50mg.
9	7.0 Software (partial description) Software should have facility for remote operation and diagnostics of the instrument. Diffraction data are processed by automated 'search-match' software which makes use of the International Centre for Diffraction Data PDF-4+ database.	The description under software signifies the Search Match Software to be provided to use the ICDD PDF 4 data base but it does not mention offering / quoting of PDF- 4 ICDD data base. Please clarify and suggest whether this needs to be quoted in the main scope of supply or separately. Note : 1 No. ICDD PDF 4 / 4+ has a standard license period validity of 1 Year and needs to be renewed every year.	We prefer ICDD PDF 4/4+ to be quoted in main scope of supply with one year warranty and later NGRI do renew.
10	8. Data Processing systems with Color Printer	Please confirm whether we are required to quote for SAXS Software either in the mains scope of supply or separately.	Suitable optics may be quoted and should include in main scope of supply.

	XRD instrument control, system diagnosis software, data collection , data evaluation ,qualitative and semi quantitative software , search match, dedicated SAXS application software has to be offered in the basic scope of supply.	SAXS data collection on a Vertical Goniometer Th-Th set up requires Spinning Capillary transmission sample stage, set of capillaries, capillary filling device and special multi graded layer focussing elliptical mirror / a multi graded parabolic mirror optics . Kindly advise , whether we are required to quote the hard ware and related accessories , special items for carrying out SAXS application separately.	
11	14. Warranty The entire spectrometer along with the X-ray tube, X-ray generator, electronics etc. should carry a manufacturer's on-site warranty of one year and annual maintenance contract (AMC) for trouble free running of 2 years is to be quoted.	Our understanding of your quoted statement on warranty term is : One Year Warranty (parts & labour) for the complete XRD system and Labour (Service) Annual maintenance contract (AMC) for 2 years after the completion of the 12 months warranty period should be quoted which is also known as non-comprehensive AMC. Please confirm / clarify for our better understanding and to be in Sync. With your requirement.	One Year warranty (parts & labour) for the complete XRD System and labour (Service) plus 2 years free service and 2 years of Annual maintenance contract (AMC)
12	15. Spare Parts & Consumables At least five years operation of the spectrometer has to be ensured with the suitable spares and consumables. The list of the spares is to be quoted separately, as an optional.	Is the vendor required to quote for suitable spares & consumables which will vary from one manufacturer over the no .of items and its package price for a period of 5 years of operation of the XRD system under options !! Please advise / clarify	This is optional and for safety reasons that company need to provide backup and because of non availability spares, it should not hamper our R&D activities.

Further last date for submission of tender is also extended upto 15.02.2016 - 02.30 p.m and now the tenders will be opened on the same day at 03.00 p.m.