PROCUREMENT PROCEDURE OF CPRI (NON WORKS)								
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		Section IV T - Technical Specification						
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	ry No : CPRIBLR20DMD03S642							
-		: Supply installation and commissioning of Fourier-transform	infrare	d (FT-IR) spectroscopy w	ith Attenuated Tota	Reflection (ATR)		
,		han this format is liable to be rejected.						
2) All blue fie	lds are mandatorily to be filled in							
		d address of the bidder						
		ion Number and Date						
	Tec	hnical Specifications/Parameters		To be	completed by the Bi			
Sl.No.	Parameters	CPRI Specification/Requirements		Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP		
1	Place where equipment to be supplied	DMD, CPRI, Bengaluru						
2	Scope (Supply / Supply & Installation / Supply, Installation & Training)	Supply, Installation, Commissioning & Training of Fourier-transform infrared (FT-IR) spectroscopy with Attenuated Total Reflection (ATR) Wave length range of 4000-400 cm-1	1 No.					
	(a) Interferometer	interferometer for fast scanning, self-compensating for dynamic alignment changes, sealed and desiccated incorporating high reflectivity optical System with KBr/Ge coated beamsplitter.						
	(b) Beam Splitter	Completely sealed Ge coated KBr						
	(c) Wavenumber Range	4000-400 cm-1 or Better						
	(d) Wavenumber accuracy	Wavenumber accuracy $\pm 0.1 \text{ cm}^{-1}$ or better						

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	lec	hnical Specifications/ Parameters		10 De	Guaranteed	Deviations from			
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	(e) Wavenumber Precision	Wavenumber precision better than 0.01 cm-1 or better at 2000cm-1							
	(f) Spectral Resolution	Spectral resolution 1.0 cm-1 or better.							
	(g) Source	High intensity, Long life ceramic source covering entire 4000-400 cm-1 range or better.							
	(h) Singal to noise ratio (SNR)	30000:1 peak to peak or better.							
	(i) Laser	Solid-state, temperature controlled diode with long life and lower maintenance or better.							
	(j) interferometer protection	Assured interferometer protection from high humidity through in-built Desiccators for long instrument life.							
	(k) Window	KBr window							
	(l) Licensed Library	Inbuilt Licensed Library available for Minimum 10,000 spectra (polymer, mineral oil, etc)							
	(m) Detector	Temperature-controlled High-Performance - Deuterated Triglycine Sulfate (DTGS) detector, high stability against external temperature changes or better.							
3	Polystyrene film	NIST-traceable 1.5 MIL (32 MICRON) polystyrene film supplied with certificate. Performance Verification based on ASTM E1421.	1 No.						
4	ATR	Monolithic Diamond ATR for complete range from 4000 400 cm-1 or better shall be offered.	1 No.						

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5	CELL	Fixed liquid thickness cell - 0.1 mm KBr window & Assorted PTFE Spacers for Liquid Samples	2 No.						
6	Desiccant	Rechargeable desiccant.	1 No.						
7	Software	The Software should have below features:							
		(a) Atmospher Vapour Compensation - vibration isolated							
		base plate and must have automatic							
		Compensation for Vapor & CO2.							
		(b) Spectral Comparison							
		(c) It should have desiccant built-in to compensate							
		atmospheric pressure.							
		(d) Multiple spectra Handling,							
		(e) Data acquisition, control, evaluation and reporting							
		using all-in-one software							
		(f) Spectral History							
		(g) Automatic accessory detection and performance							
		verification, The operator must be immediately notified							
		by system software if any of the factory specifications are							
		not met.							
		(h) The software must offer detailed information about							
		the nature of the failure and suggest possible remedy.							
		(i) Step-by-step analysis program for quality control							
		applications, Spectra comparison method for material							
		verification, Library search capability for material							
		identification,. User specific data integrate features.							

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8	Features	(a) Change between different modules must be easy.							
		ATR should be capable of doing all samples like Solids,							
		Liquid, Paste, gel, plastics analysis & it should even							
		support the analysis of Hygroscopic samples.							
		(b) Sampling modules must be automatically identified							
		and spectral test routines must automatically start to							
		verify accessory performance.							
9	communication	controlling PC must be performed using an Ethernet							
		anoto - 1/ LICD							
10		Indigineous items	4 11-						
	(a) Desktop computer	The instrument shall be provided with branded Desktop	1 No.						
		i7 PC (DELL/HP/SONY/LENOVO) Licensed Windows							
		10 Professional operating system compatible with FTIR							
		software. The detailed technical configuration of the							
		computer shall be indicated clearly in the quotation.							
	(b) B/W Laser Jet printer	The instrument shall be provided with suitable B/W	1 No.						
		Laser Jet printer. The detailed configuration of the							
		printer shall be provided in the quotation							
	(c)UPS	Suitable UPS (3 kVA) with 30 minutes back up for	1 No.						
		instrument and PC. The detailed technical configuration							
		of the UPS shall be indicated clearly in the quotation.							
	(d) Dry box	digital Dry box for preserving KBr cells	1 No.						
		General requirement	1						
		The vender shall demonstrate the total set up for							
11	Demonstration	functional suitability at CPRI, Benglauru prior to the							
		technical evaluation							
12	Power supply	Power supply requirement: 230 ± 10 % V AC , 50 ± 5 % Hz							
13	Operating condition	The equipment should effectively function from ambient							
		temperature to 40°C & RH between 10 - 80 % Non							
		Condensing	1						
		Warranty for 1 year from the date of successful	1						
14	Warranty	installation & commissioning of equipment							
		Instruction manual should be provided with each	1						
15	Instruction Manual	equipment	2 Nos.						

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Sl.No.	Parameters	CPRI Specification/Requirements	Qty	Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	GTP		
16	Training	Training for 2 Officers of CPRI on operation & maintenance of equipment	2 Nos.					
17	Pre installation requirement	Pre-installation requirements have to be mentioned with the offer.						
18	Compliance of specification	Compliance of the specification shall be indicated unambiguously in the column provided above and shall be supported by documentary evidence such as product catalogues (Original)/ application notes.						
19	Deviations	Deviations if any from the specifications given above which provides improvement in the functioning of the above item/equipment shall be clearly brought out with their advantages.						
20	Additional features	Any additional features other than the above may be brought out clearly.						
21	Customer list	A list of customers (with details like name of contact person, address, phone No.) to whom similar systems were supplied shall be furnished.						
22	Presentation	The vendor shall make detailed presentation of the system offered at CPRI Bangalore, during tender evaluation, if required.						

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	Technical Specifications/Parameters			To be	completed by the Bi	dder		
Sl.No.	Parameters	CPRI Specification/Requirements	Qty	Detials of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Deviations from GTP		
23	Supply of spares	The Vendor shall ensure supply of spares for at least 7 years.						
24	Safety	Shock proof & safety measurements as per relevant national / international standards						
25	Company Status	Original Equipment Manufacturing Company should have ISO 9001 certification.						
PN: 1) Mere statement of "Complied" do not suffice the requirement. The details of technical parameters in proof of CPRI requirements shall be furnished along with technical write-up, catalogues, brouchers, literatures, phamplates, or any other documents shall be submitted in hard copy along with technical bid.								

2) Calibration reports/certificates, factory test reports/certificates from an accreditated agencies/facilities shall be submitted wherever applicable.
3) CPRI reserves the right to conduct "predispatch inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinary for the PDI shall be communicated in writing at lease 70 days in advance.