Name of Machine	Isotope ra	sotope ratio mass spectrometer (IRMS) with peripheral	
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Finnegan, Germany		 a. Isotope Ratio Mass Spectrometer (IRMS): MAT 253 b. Peripheral parts: Elemental analyzer- Flash 2000HT; 	
		Gas Bench II.	
Specification			
EI source, mass range m/z 1-150, Mass resolution 200 (C, N, O, S), Estimation of C, O, H, N and S isotopes and percentage.			
Working principle:			
A the ab an ele	mass spectrome em according to undance of each d S isotopic ration emental analyser	ter generates multiples ions from the samples and then separates their specific mass-to-charge ratio (m/z) and records the relative ion type. Stable isotope facility at BSIP provides stable C, O, N, H o measurement of various natural and artificial substance using and gas bench interfaced to a continuous flow IRMS.	
Application			
In the field of oceanography, atmospheric sciences, biology, paleoclimatology, geology, environmental sciences, food and drug authentication, and forensic.			
User Instruction			
	• Send samp	les using courier or registered post. Trackable courier dispatch or	
	registered j	post is recommended.	
	o All sample	s must be accompanied with a copy of the Submission Form you	
	have filled	in and emailed to the lab (available for download above) to identify	
	each indivi	dual sample, identify the material and also give the full name and	
	contact add	dress of the submitter, with telephone and fax numbers and email	
	address.		
• Provide details o		tails of any prior treatment of the sample, such as cleaning, drying,	
	and treatme	ent with solvents or preservatives.	
	o Contact t	he concerned authorities at the institute to enquire about the	

minimum sample size requirements for each isotope. o Please contact us to ensure your samples are in a suitable format for processing. o Send samples in small, labeled vials. Unused portions of samples after analyses shall be returned at your cost provided informed well in advance. o Indicate if any samples are likely to be toxic or corrosive. • Reporting time may be longer if large batches of samples are submitted or if the nature of the material is such that special processing methods are required. We may be able to process urgent samples within several days at a priority rate, subject to current laboratory workloads. **Contact Person** Dr.Anupam Sharma (0522-2742974); In-Charge *Email <u>anupam110367@gmial.com</u>; anupam.sharma@bsip.res.in* Dr. Shailesh Agrawal (0522-2742969); Staff: Mr. Sandeep Kohri (0522-2742969)