

Name of Machine	ASC Scientific D2000 Alternating Field Demagnetizer
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Make: ASC Scientific, USA	Model: D2000 High-Performance Alternating Field Demagnetizer
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Specification

AF Peak Field:	0.2 T (2000 Gauss)
Minimum AF Field Step:	0.0001 T (1.0 Gauss)
ARM Peak Field:	0.0015 T (1.5 Gauss)
PARM Peak Field:	0.0015 T (1.5 Gauss)
AF Decay Rates:	Eight discrete rates available
Minimum PARM Step:	0.0001 T (1.0 Gauss)
Sampling Handling	Static - Holds 4 (D-2000) 1" cyl. or cube samples
Computer Interface:	Mobile Pentium-based computer
Operating System:	Microsoft Windows

Description

The D-2000 alternating field demagnetizer is designed for high-performance rock magnetic demagnetization of discrete samples of rock or sediment. Standard features include 2000 Gauss (0.2 T) peak demagnetization field intensity, built-in ARM and partial ARM, and a computerized operator interface. The D-2000 unit consists of an AF demagnetizer coil and sample access tube and is enclosed within a mu-metal shield. The demagnetizer unit is connected to a D-2000 electronics controller and a Crest CA-9 power amplifier. The unit can demagnetize four to five samples simultaneously.

The D-2000 offer all the features of high-quality manually controlled demagnetizers plus a graphical operator interface which facilitates system setup and operation. Operator programmable settings are available for peak demagnetizing field intensity, decay rate, ARM intensity, pARM intensity, and pARM start and end points. Stepped demagnetizations and stepped ARMs and pARMs can be performed with a mouse click. Operators can even choose to work in either the S.I. or c.g.s. system of units.

User Instructions

1. Each requisition should be addressed to XXXXXX for allotment of analysis date
2. Payment is to be made in advance through bank draft in favor of “**Director, BSIP, Lucknow**”. Kindly visit our website for the updated rate-list
3. Data generated will be provided on CD or DVD
4. Sediment/Soil samples should be fully packed in 10 cc plastic bottles

MEASUREMENT/ANALYSIS

I. Rock, Mineral and Environmental Magnetism Measurements

Anhyseretic Remanent Magnetization (ARM)/ Partial ARM

II. Palaeomagnetic Measurements

Alternating Field Demagnetization - Performed in progressive AF steps of 2.5, 5, 7.5, 10, 12.5, 15, 20, 30, 40, 60, 80 100 mT respectively

Contact Person

In-Charge Dr. Binita Phartiyal: Mob. 9411856391
binita_phartiyal@bsip.res.in

Staff: Dr. Md. Arif: Mob. 9559096764
arif@bsip.res.in

Charges

S. No.	Measurements and Analysis	Instruments Used	Rates		
			Students @25% Discount	Govt. Organizations (University/ Institute)	Private Sector/Industry
1	Anhyseretic Remanent Magnetization (ARM)	AGICO JR-6 Spinner Magnetometer, ASC AF Demagnetizer	Rs. 38/- each specimen	Rs. 50/- each specimen	Rs. 100/- each specimen
2	Alternating Field Demagnetization (AF Demag.)	AGICO JR-6 Spinner Magnetometer, ASC AF Demagnetizer	Rs1500/-each specimen (includes all AF steps (max eight))	Rs. 2000/-each specimen (includes all AF steps (max eight))	Rs. 4000/- each specimen (includes all AF steps (max eight)).
3	Sample Preparation	10cc Sample Bottles, Rock Saw Cutting Unit	Rs. 38/- each specimen	Rs. 50/- for each specimen	Rs. 100/- for each specimen

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

(Sample Information Form)

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (In-house/sponsored/Govt. organization/private): _____

Number of samples: _____

Sl. No.	Sample ID	Type/Nature of Sample	Quantity	Year of collection	Lat./Long.	Remarks, if any
1						
2						
3						
4						
5						

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

SAMPLE REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (Inhouse/inhouse sponsored/Govt. organization/private): _____

Number of samples: _____

Nature of samples (with details): _____

Scientific Objective of this study: _____

Additional information, if any: _____

Location (Lat & Long): _____

Exposed Section/Trench/Core/Others: _____

(For office use only)

Lab Reference No.:

R.P.C.C./ Registrar : Kindly raise the bill for the above

Total Charges:

Taxes:

Grand Total: