**TECHNICAL NOTE: MINIMUM REQUIREMENTS FOR THE SUPPLY OF:**

**Lot n. 2: Precision cut-off saw**

The minimum characteristics of the machine required by the Department must comply to the following:

a) Sample type processed by the machine:
   - Possibility of cut-off and trim of soil samples embedded in epoxy resin and mounted on glass slides sized 60x90 mm.
   - Possibility of cutting and trimming also rock specimens and/or soil material blocks impregnated in epoxy resin held in place by a specific sample locking system, with minimum size of at least 100x90 mm.

b) Functioning method:
   - Possibility to cut-off and trim in both manual and automatic modes.
   - Possibility to adjust the sample’s advancement speed.
   - Possibility to adjust the rotation speed of the cutting disc.
   - Diameter of the cutting disc not lower than 250 mm.
   - Micrometric precision of the system controlling the cut sample thickness.
   - Possibility to trim resin-embedded soil samples mounted on glass slides to less than 300 µm thickness.

c) Sample holder:
   - Capacity to hold at least two microscope glass slides sized 60x90 mm.
   - Glass slides held onto the sample holder by means of a vacuum system.

d) Power requirements: single phase 220/240 V.

e) Training: training course on the basics of functioning of the apparatus of the minimum duration of one day to be held at the Dipartimento di Geoscienze, Via Gradenigo 6 – Padova (Italy) once the machine has been installed and tested by skilled personnel.

f) Warranty: must cover all defective and/or malfunctioning parts arrived from the factory, lasting at least 18 months (eighteen months) from the date of installation of the machine.

g) Presence in Italy of an official distributor for the product.