

ENTRY NO. **CU38** Date 09 October 1995  
 Cyclotron Model **NRCAM**  
 Institution Nuclear Research Centre for Agriculture &  
 Address Medicine, P.O. Box 31585-4395, Karadj - Iran  
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 In Charge: Dr. M. Haji-Saeid Reported by: Dr. M. Haji-Saeid

**HISTORY**  
 MILESTONE DATES:  
 Installation 1994 First Beam December 1994  
 DESIGN/CONSTRUCTION BY: IBA, Belgium  
 COST: Accelerator Facility  
 FUNDED BY: Atomic Energy Organisation of Iran

**STATUS**  
 STAFF: Operators 10 Technicians 5  
 BUDGET: Machine Funded by  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a) Isotope Production 70 %  
 (b) Applied Research 22 %  
 (c) Maintenance 8 %  
 (d) %  
 (e) %

**CHARACTERISTIC BEAMS**

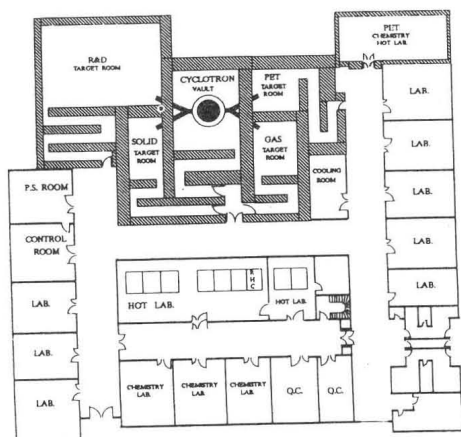
Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) $H^+$	15-30 MeV		500 $\mu$ A
(b) $d^+$	7-15 MeV		180 $\mu$ A

1994  $\mu$ A-hours on target:

**FACILITIES**  
 SHIELDED AREA: Fixed 600 m<sup>2</sup> Moveable m<sup>2</sup>  
 Target Stations: 4 No. Served At Same Time: 2  
 OTHER FACILITIES: Radioisotope production facilities, PET facilities, R&D facilities

**REFERENCES/NOTES**  
 (a)  
 (b)

**PLAN VIEW OF FACILITY, COMMENTS**



Entry: **CU39** Date: June 1998  
 Machine Name: Scanditronix  
 Cyclotron Model: MC-40  
 Institution: European Commission  
 Address: 21020 Ispra (VA) Italy  
 Tel: ++39-0332-789895  
 Fax: ++39-0332-789385 Web: www.jrc.org/iam/cyc  
 E-mail: rien.stroosnijder@jrc.it  
 In Charge: M.F. Stroosnijder

**HISTORY**  
 Installation: 1980 First Beam: 1982  
 Design/Construction by: Scanditronix  
 Funded by: European Commission

**USES**  
 Materials research 60 %  
 Biomedical isotope production 25 %  
 Fusion materials research 15 %

Total time: h/year

**CHARACTERISTIC BEAMS**  
 Ions/energy/current:  
 protons up to 39 MeV, 60  $\mu$ A external  
 deuterons up to 20 MeV, 60  $\mu$ A external  
 alphas up to 39 MeV, 30  $\mu$ A external

**EXPERIMENTAL FACILITIES**  
 accelerator cubicle, 3 irradiation bunkers, 7 beam lines, 7 hot laboratories, various irradiation rigs, I-123 production facility, gamma spectrometry laboratory, Thin layer Activation facilities for high temperature corrosion; electrochemical; laboratory wear testing; engine test facility

**REFERENCES**  
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**PLAN VIEW OF FACILITY**

**COMMENTS**  
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