

## SCIENCE NOTES.

**Vacuum Production.**—The exacting demands of high vacuum technique in research and in laboratory practices are, to a large extent, met by the rotary pumps manufactured by the Central Scientific Company (Agents for India: The Scientific Instruments Co., Ltd., Allahabad). The latest and largest of these, the "Cenco Hypervac 100" represents a great achievement in the design and construction of pumps for high vacuum production. It is a completely self-contained 3-stage pump, with a displacement of 16 litres per second. It dispenses with the need for water cooling; and for working a pump of its size, has a small power requirement—1.5 H.P. Even at low pressure (1 micron and below), the pump is unusually rapid for an oil-sealed pump. It is already finding application in commercial practice for exhausting large vacuum chambers and in the research laboratory it will find numerous uses. The manufacturers cordially invite correspondence regarding the "Cenco Hypervac 100".

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We acknowledge with thanks receipt of the following:—

"Bulletin of the National Academy of Sciences," Vol. 6, Part III, August 1936.

"The Agricultural Gazette of New South Wales," Vol. XLVII, No. 10, October 1936.

"Journal of Agricultural Research," Vol. 53, Nos. 2-3, 4.

"Monthly Bulletin of Agricultural Science and Practice," Vol. 27, No. 9, September 1936.

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"The Philippine Agriculturist," Vol. XXV, No. 5, October 1936.

"Journal of the Royal Society of Arts," Vol. LXXXIV, Nos. 4375-4378.

"Biochemical Journal," Vol. 30, No. 9, September 1936.

"Communications from the Boyce Thomson Institute," Vol. 8, No. 3, July-September 1936.

"The Calcutta Review," Vol. 61, No. 1, October 1936.

"Chemical Age," Vol. 35, Nos. 900-903.

"Journal of Chemical Physics," Vol. 4, No. 10, October 1936.

"Berichte der Deutschen Chemischen Gesellschaft," Vol. 69, No. 10.

"Russian Journal of General Chemistry," Vol. VI, Nos. 7 and 8.

"Experiment Station Record," Vol. 75, No. 3, September 1936.

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"Transactions of the Faraday Society," Vol. XXXII, Part 10, October 1936.

"Indian Forester," Vol. LXII, No. 11, November 1936.

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"Forschungen und Fortschritte," Vol. 12, Nos. 28-30.

"Transactions of the Mining and Geological Institute of India," Vol. XXXI, Part 2, September 1936.

"The Quarterly Journal of the Geological, Mining and Metallurgical Society of India," Vol. VIII, Nos. 1 and II, March and June 1936.

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"Indian Trade Journal," Vol. CXXXIII, Nos. 1582-1585.

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"Communications from Kammerlingh's Onnes Laboratory (University of Leiden)," Nos. 229-240. Supplement 78.

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"Mathematics Student," Vol. IV, No. 2.

"Review of Applied Mycology," Vol. 15, Nos. 8 and 9, August and September 1936.

"Bulletin of the Madras Government Museum," 1936," Vol. III, Part 2.

Department of Industries, Bombay Presidency, Bull. No. 10.—'Possibility of Production of Aluminium in Bombay,' by Dr. M. S. Patel. "Industrial Research Bureau, India, 1936, Bulletin No. 3."

"Journal of the American Museum of Natural History," Vol. 38, No. 3, October 1936.

"Nature," Vol. 138, Nos. 3491-3494.

"Indian Journal of Physics," Vol. X, Part V.

"Research and Progress," Vol. II, No. 4, October 1936.

"Canadian Journal of Research," Vol. 14, No. 9.

"Science and Culture," Vol. II, No. 4, October 1936.

"Science Progress," Vol. 32, No. 122, October 1936.

"Scientific American," Vol. 155, No. 5, Nov. 1936.

"Indian Journal of Venereal Diseases," Vol. 2, No. 3, September 1936.

"Indian Journal of Veterinary Science and Animal Husbandry," Vol. VI, Part III, September 1936.

## Catalogues:

"New Books, Autumn, 1936" (Messrs. Edward Arnold & Co., London).

"Monthly List of Books, on Natural History and Science," October 1936 (Messrs. Wheldon and Wesley, Ltd., London).

"Aids for Modern Visual Education," (Messrs. Bausch and Lomb, Rochester, New York).

## Erratum.

Page 231, L.H. Column, Line 8, for 20 lakhs read 2 lakhs.