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CENTRAL RESEARCH INSTITUTE
KASALI.

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The Institute consists of a series of substantial stone buildings, situated on a rocky spur which projects towards the plains in a South Westerly direction, and well isolated from other buildings in cantonment.

The main building has been in existence for some 7 or 8 years, and was intended as a residence for officials of the Patiala State. In order to adopt it for scientific purposes, a great many alterations, and considerable extensions had to be carried out, and in addition several blocks of new buildings had to be added on.

In July 1905 plans for the necessary alterations and extensions were drawn up and approved of, and after some delay building operations were commenced in December. In the meantime suitable apparatus was obtained from England and the Continent, ready for use on completion of the buildings. With the exception of a few details the work has now (1st October) been completed and laboratories are fitted up and ready for the accomodation of from 6 to 8 workers.

At present the Institute comprises the following buildings.

No.1 Block or main building, consisting of some 21 rooms, allotted for various purposes, such as microscopic work; incubating rooms; rooms for the preparation of media; a dark room for micro-photography; a centrifuging room; balance room; library; offices &c. A large hall runs through the middle of the building, and an extensive verandah surrounds it. Most of the floors are covered with glazed tiles, and all the rooms have gas laid on, and some of them electric light.

No. 2 Block. - Consists of a series of 4 rooms for the preparation and bottling of curative sera, and the sterilization of apparatus used for this purpose; also 2 store rooms for spare apparatus.

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No. 3 Block. - A building containing 3 rooms, viz. an Engine room fitted up with a $10\frac{1}{2}$ H.P. oil engine, a freezing machine and a dynamo; a room fitted up with an electric storage battery of 56 cells, and a cold storage room.

No. 4 Block. - A row of houses for the accomodation of small animals.

No. 5 Block. - Mansfield's patent gas installation.
Capacity of cylinder 2000 cubic feet.

No. 6 Block. - To consist of 2 rooms for the storage of oil, acids, ether and other chemicals, *It* at present in process of construction.

No. 7 Block. - An animal house.

Nos. 8, 9 and 10 Blocks. - quarters for 12 servants; 4 quarters in each block.

A piped water supply is being laid on to blocks 1, 2, 3 and 5 and a stand pipe in the grounds close to the animal houses.

In December 1905 the preparation of curative sera was taken over from the Pasteur Institute, Kasauli and since then this branch of the work has been carried on by the Central Institute. Some 14 horses and ponies in various stages of immunity against snake venoms and diphtheria toxin were taken over; also stalls for 16 horses and quarters for 8 Syces. The stables and Syces' quarters are in the vicinity of the Pasteur Institute and at a distance of about $\frac{3}{4}$ mile from the the Central Institute.

The average monthly supply of antivenene and anti diph-
theritic serum sent out to Government Institutions since the 1st December (the date on which this branch of work was taken over from the Pasteur Institute) amounts to

210 bottles of antivenene, each contains 20 c.c.

140 bottles of Anti diphtheritic serum, each containing
10 c.c.

Or a total of 2110 bottles of Antivenene each containing 20 c.c. and 1400 bottles Anti diphtheritic serum each containing 10 c.c. were sent out during the past 10 months.

The Antivenene at present supplied is a polyvalent serum,

and is prepared by immunising horses with a mixture of Cobra and Daboia Russelli venoms. It has been proved to be an antidote against these two kinds of venoms only.

In March last investigations in connection with the Etiology and spread of enteric fever in India were commenced, and are still in progress.

For the purpose of this investigation advantage was taken of material in Kasauli and its vicinity, and the Director of the Pasteur Institute very kindly allowed accommodation and facilities for the work to be carried on there until the 1st August pending completion of the Central Research Institute laboratories.

A considerable amount of work has also been done in the subject of curative bacterial vaccines, and their application to some of the diseases met with in India.

Until the 1st August the unfinished condition of the Institute did not allow of any teaching work being done, but since then 2 officers of the I.M.S. have undergone a 2 months' course in technique suited to qualify them for investigations connected with malaria, Kala Azar and blood diseases generally.

Oct 2nd/1906

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