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[Despatch Abstract.]

Govt. Museum

Forwarding with remarks, the report on the working of the ——— & the Commercial Public Library during the year 1899-1900; & forwarding Copy of the Report &c.

G.O.	No.	Department.	Date.

FURTHER

G.O.	No.	Department.	Date.

பாதுகாப்பு பிரிவு

செப்பனிடுபவர் பெயர்:

செப்பனிடுவதற்காக எடுத்துக் கொள்ளப்பட்ட நாள்: 1/12

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சரிபார்க்கும் முதல் முநிபாள கையொப்பம்

சரிபார்க்கும் 2ம் முநிபாள கையொப்பம்

ஆராய்ச்சி உதவியாளர் கையொப்பம்

Government {1900} of Madras.

EDUCATIONAL.

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Recd. — *Enclosures*

1900.

Regd. — *Spare copies*

G.O., &c., Nos. 313, 314, 26th July 1900.

JULY.

Government Museum.

Recording, with remarks, the report on the working of the — and the Connemara Public Library during the year 1899–1900 and forwarding copy to the Government of India.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper :—

From EDGAR THURSTON, Esq., Superintendent, Government Museum, Madras, to the Secretary to Government, Local and Municipal Department, dated 7th July 1900, No. 26.

I have the honour to forward, for submission to His Excellency the Governor in Council, my report on the working of the Government Museum during 1899–1900, and to request that I may be supplied with 160 copies for distribution to other museums, etc.

Enclosure.

ADMINISTRATION REPORT OF THE MADRAS GOVERNMENT MUSEUM FOR THE YEAR 1899–1900.

1. Visitors.—The total number of visitors to the museum old building was 415,558 and to the new building 415,749 against 333,895 and 351,942 in the previous year.

	Old building.	New building.
Smallest number of visitors on any day, not a holiday ..	108	230
Largest " " " ..	1,603	1,540
Smallest number of visitors on Sunday	133	165
Largest " "	1,589	1,573

The largest number of visitors on a single day was 80,013 to the old, and 77,530 to the new building, at the feast of Pongal (15th January). The number of visitors on Sundays was 43,737 to the old, and 42,529 to the new building, giving averages of 841 and 818 per Sunday.

The number of gosha females on the days set apart for them was 4,783 against 3,627 in the previous year. The increase is mainly due to the fact that the Muhammadan festival Kuthba fell on a gosha day, when a large number of Muhammadan females visited the museum.

The museum was visited by the Ranee of Bobbili, for whom arrangements were made, similar to those on gosha days.

The Madras Teachers' Guild, and the ladies belonging to the Hindu Social Reform Association, were personally conducted round the museum by myself.

The visitors' book was used, in an attempt to prove an *alibi*, by one of the ring-leaders in the Sivakási riot. This is not the first occasion on which the book has been used for a similar purpose.

2. Theatre.—The theatre was used on 22 occasions, as follows :—

Amateur Dramatic Society	9
Madras Musical Association (one concert in aid of the Transvaal War Fund)	5
Southern India Brahmo Samáj—Lectures on Shakespeare, by the Rev. F. Williams.	4
Teachers' Guild Educational Conference	2
Educational lecture, by Mr. G. Barlow	1
Madras School of Music Prize Distribution and Concert	1

3. Grounds.—The grounds remained under the management of the Agri-Horticultural Society. All the young trees, which have been planted in recent years, were attacked by a land mollusc (*Rhachis punctata*), whose eggs were deposited thereon, and hatched out in vast numbers in situations well shaded and close to the sap.

As an adaptation to modern requirements, bicycle stands were set up round the main entrances to the buildings.

4. Establishment.—The head taxidermist was dismissed from the service for insolvency, and involving several members of the museum staff in his financial difficulties. The taxidermist's department is, in consequence, in a state of absolute disorganisation. Two additional gallery attendants were entertained for the custody of the botanical and pre-historic collections.

5. Anthropology.—The examination of the Pathan, Sheik and Saiyad Muhammadans of Madras City was concluded. An enquiry was commenced in connection with the investigation of Eurasian school-boy physique, and the more important physical measurements of a number of boys at the Civil Orphan Asylum, and various schools in the City of Madras were recorded. At the request of the Medical officer, I visited the Chingleput Reformatory, with a view to the examination of the physique of the youthful offenders who have been sent there to be educated.

Mr. R. Bruce Foote was engaged, towards the close of the year, in supervising the reproduction, by the Survey department, of various articles in the pre-historic gallery, in connection with his forthcoming catalogue of the museum pre-historic collection.

Among additions to the ethnological collection may be mentioned—

(*a*) A fragment of a large earthen pot, with snake device, discovered during excavations for building purposes at Tándagudi on the Pulney hills;

(*b*) A collection of pottery found in the Kurumbranád taluk of Malabar;

(*c*) Skull and photographs of the Yanádis of the Nellore district;

(*d*) A series of photographs illustrating various incidents at a Toda funeral;

(*e*) A series of transparencies on glass (enlargements) of Todas, Irulas, Kádirs, Badagas, and Pariahs;

(*f*) Ceremonial bow, with mythical figures painted on it, from Travancore; and a musical instrument (villu) used by the Nairs of Malabar, especially during the Onam festival;

(*g*) Areca-palm caps worn by the lower classes in South Canara;

(*h*) Clothing, peasant jewellery, and photographs of the Gadabas of Vizagapatam, of whom the women wear very large rings in the ears, and a bustle made of some fibre collected in the jungle;

(*i*) Personal adornment of the Koragars of South Canara, who, until recent years, used to be dressed in a garment of leaves, now replaced by cotton cloth. The collection includes bracelets of bone and seeds of *Elæocarpus*; necklets of seeds of *Coix Lachryma*; waist belt decorated with bones and police and soldiers' buttons; and bead necklets with metal ear-scoop and tooth-pick pendant;

(*j*) Tomb-stones from the Laccadive islands, made of coral sandstone painted blue;

(*k*) Steel spurs, cunningly devised in various shapes, used in the popular sport of cock-fighting in South Canara.

A report was received from the Madura district, relating to a find of large earthen pots, which, the local natives believed, were used for the burial of "very old people, who refused to die."

In the village of Kondavedu, in the Kistna district, two idols, carved out of "hornblende granite," and representing Virabhadraswami and his consort, were unearthed, set up in a public place, and worshipped by pilgrims, the collections from whom amounted to Rs. 50 a week. Several claimants wished to acquire possession of the lucrative images, and a quarrel and filing of a criminal complaint ensued. My proposal that the idols should be acquired for the museum under the Treasure Trove Act had to be abandoned, on it being pointed out that the faith in the idols was very great, and their removal would be distasteful to the Hindu community. On the occasion of a visit of the Deputy Collector to the village, more than a thousand people came in to worship them, and the pilgrims in a body asked him to recommend their retention on the spot.

From the Kistna district were received some old gold ornaments (necklet ?) of excellent design and workmanship, which were found, in a fragmentary condition, together with coins, in a small iron pot enclosed within an earthen pot. The treasure was discovered by coolies, while excavating near the surface for building purposes.

The proof-sheets of one of the Bulletin series, containing a detailed account of the Nambutiris of Malabar, by Mr. F. Fawcett, and a note on the Mala Védars of Travancore, by Mrs. J. W. Evans, were in an advanced stage at the end of the year. The latter are an interesting tribe, inasmuch as, like the Kádirs of the Anaimalai hills, they practise chipping of the incisor teeth.

6. Numismatics.—A forgery of a gold Roman aureus, found in the Kistna district, was acquired under the Treasure Trove Act. Concerning this coin Mr. Rapson, of the British Museum, writes as follows: "It is interesting in many respects. It is a copy of an aureus of Faustina, the elder, wife of Antoninus Pius (A.D. 138—161), undoubtedly, so far as the obverse goes. With regard to the reverse type—the three standing figures—it is something like that of a coin of Faustina I, with the inscription Vota Publica, which has three standing figures; but two of these are females, and one only is male. Moreover, your coin has on the reverse a mint-mark (perhaps a corruption of Conob), which belongs to a period later than that of Faustina I. All one can say is that the coin is undoubtedly an Indian imitation of a Roman aureus of Faustina I, influenced probably by other Roman coins of a later date. Whether the imitation is ancient or modern, is a question not so easy to answer. There seems no reason why it should not be ancient, except, perhaps, that the colour of the gold is somewhat lighter than is usually the case with ancient Indian gold." From the Kistna district were also received rupees of the Moghul Emperors Aurangzib, Bahádur, and Kám Bakhsh (Hyderabad mint).

To Dr. T. Bloch, Honorary Philological Secretary, Asiatic Society of Bengal, I was greatly indebted for the identification of a large number of Moghul coins, the arrangement of which series was completed. While going through the mass of silver coins, I came across a considerable number of rupees of the Imtiyázgarh (Adóni) mint, struck during the reigns of Muhammad, Alamgír, and Sháh Alam, and a series of rupees bearing the name of the mint town Qamarnagar, struck by Muhammad Sháh. This, Dr. Bloch writes, "is a new mint, and appears to be a place in the district of Meerut, North-Western Provinces, which is now called Kamaruddinnagar or Kumruddinnagar. It is a small place situated on the Ganges, with a ghat and famous ferry (*vide* Hunter, 'Imperial Gazetteer' and 'North-Western Provinces Gazetteer'). The name seems to be derived from Qamar-ud-din Khán, the famous Vazir of Muhammad Sháh."

A series of four-anna pieces (bákiri) of Tipu Sultán, of Seringapatam mint, found together with a number of French and English Arkát rupees in the Erode taluk of the Coimbatore district, was added to the collection and distributed to other museums. From the Cuddapah district a number of gold rupees of Ahmad Sháh were received.

To Mr. A. Rea, of the Archæological Survey, and Mr. L. Vibert, my thanks are due for placing at my disposal a number of miscellaneous South Indian coins (mostly copper), which will be of great use in connection with the catalogue of South

Indian coins, which is now under preparation. The manuscript thereof is in an advanced stage, and a large number of plaster casts of the coins have been prepared in connection with the full illustration of the catalogue.

The following series have been arranged in the new coin safes, where they are available for study by those interested in numismatics:—

Alwar.	Indo-Portuguese.
Andaman token.	Indo Sassanian.
Andhra.	Indore.
Arakan.	Jaipur.
Assam.	Jodhpur.
Boondee.	Kadamba.
Buddhist, South India.	Kalachuri.
Carnatic Nawábs.	Kanauj.
Ceylon.	Kusans.
Delhi Sultáns.	Moghul.
English East India Company.	Mysore.
Gadiya.	Oudh.
Ganga.	Pudukota.
Gupta.	Punch coins, or puránas.
Hyderabad.	Roman imperial (found in South India).
Indo-Danish.	Taxila.
Indo-Dutch.	Travancore.
Indo-French.	Venetian sequins (found in South India).
Indo-Greek and Scythic.	Western Satraps.

7. Art Gallery.—A new departure was made by the exhibition of paintings (some the property of the Fine Arts Society) by Native artists in Southern India, which are of interest as showing the great progress which has been made in recent years, and the advance over the old style of portrait-painting with abundant introduction of gold-leaf. An excellent landscape, by Mr. C. Raja Raja Varma entitled "The Lohagad, one of Sivaji's mountain fastnesses", was acquired by purchase.

Among the additions may be noted: (*a*) cocoanut carvings from Karkal in South Canara; (*b*) a damascened (koft) casket made at the School of Arts, Trivandrum; (*c*) a selection from the dress-service (Worcester china) of the former Governors of Fort St. George; (*d*) pith (*Æschynomene aspera*) model of a Hindu temple, by C. T. Sunkaram Pillai of Tanjore, (*e*) ivory carvings by the artisans of His Highness the Eliya Raja of Travancore, representing Vishnu at the deluge, Venugopál Krishna, deer, &c. As curiosities of Native art work, resulting from European influence, may be mentioned the Lion of Lucerne, carved in ivory, and the Laocoon in sandalwood.

8. Economic and Botanical.—Larvæ of a moth (probably *Heliothis armigera*), which were destroying the paddy (rice) seedlings, were received from the Chingleput and Tanjore districts. As a means of destroying them, the villagers dried up some of the seed-beds, without allowing water into them, and this, owing to the heat of the sun, destroyed them effectually. The villagers were, it was reported, "joyful with the belief that the insects have been found by long experience to be the forerunners of heavy flood, and that they made their appearance some twenty years ago, and were followed by heavy flood." From the Coimbatore district were received larvæ which were damaging the tender sugar-cane plants. The pest was identified at the Indian Museum, Calcutta, as being probably *Diatræa saccharalis*, the sugar-cane borer moth, which also attacks cholam (*Sorghum vulgare*) and maize (*Zea Mays*). From the South Arcot district were received the larvæ of a moth belonging to the family *Arctiidæ*, which were destroying the ground-nut crop round Panruti. Insects which were destroying the sugar-cane crop in the Chandragiri taluk of the North Arcot district were identified at the Indian Museum as *Dictyophora pallida* (lantern-flies).

Specimens of the cochineal insect, which is found living on the "prickly-pear" (*Opuntia Dillenii*) in Southern India, were sent for examination to Mr. E. E. Green, of Ceylon, who writes that they agree in every particular with his *Coccus cacti* var. *ceylonicus*, and differ from the type in the form and disposition of the tubular spines on the surface of the body.

Three dados of Indian timbers, made at the College of Engineering, Madras, and exhibited at the Fine Arts Society Exhibition, were added to the Economic section. The timbers used in their construction were—

Ebony (*Diospyros Ebenum.*)	Trincomallee wood (*Berrya ammonilla.*)
Red cedar (*Cedrela Toona.*)	Teak (*Tectona grandis.*)
White cedar (*Chickrassia tabularis.*)	Padauk (*Pterocarpus indicus.*)
Rosewood (*Dalbergia latifolia.*)	Irul (*Xylia dolabriformis.*)

A series of specimens were received from the Kistna district, illustrating the evolution of a Kondapille toy from the seasoned wood (ponuku) to the completed doll. After the wooden figure has been roughly shaped, it is held over the fire in a goldsmith's chatty with bamboo splits spread over it, in order to dry up the moisture in the wood, which is worked a few days after it has been cut. The head-dress (turban) and feet are made of tamarind seed mixed with resin and fine teak saw-dust.

On behalf of Mr. G. P. Rouffaer, of the Hague, an enquiry was set on foot concerning the "South Dekhan (Tamil) art of wax and colour drawing, especially in connection with and compared with that in use in Java." The fundamental idea, practised in Java, as well as on the coast of Kling, is, as Mr. Rouffaer points out, "to prevent, by means of local application of wax in a molten state, calicoes from taking the dye in those places whilst in the subsequent dyeing bath. When the dyeing in the dyeing tub is finished, the wax is removed by simply dipping the calico in boiling water, and the spots previously covered with wax will be found to be white; or, if they were coloured already before being covered with the wax, they will be found to be in the same unaltered colour."

The name Kling (or Kaling), it may be noted, is applied, in the Malay countries, including the Straits Settlements, to the people of Peninsular India who trade thither or are settled in those regions.

Great progress was made with the preparation of the botanical index series, which is now systematically arranged, and ready for the purpose of study by students and others.

Its main object is to act as a supplement to the text-books in illustrating the general morphology of both Phanerogams and Cryptogams. The collection, which commences with the germination of the seed, and ends with the lichens, algæ, and fungi, is largely made up of carefully selected dried specimens, mounted on herbarium sheets and framed, with full descriptive notes drawing attention to the points which they are intended to illustrate. The frames are so arranged that they can be readily unhooked, and lent for the purpose of object lessons in elementary schools. The specimens collected locally in the City of Madras were largely supplemented by additions made in the temperate climate of the Palni hills, which were explored at various elevations from 7,000 to 4,000 feet during a prolonged tour, with Kodaikánal as the centre. In addition to the work in collection with the index series, the herbarium-keeper, Mr. K. Rangachari, was engaged in the collection of a series of herbarium specimens, illustrating the flora of Madras City and its environs. An account thereof has been drawn up, and will be published hereafter.

The North Indian plants, belonging to the museum herbarium, which were returned to the museum on the death of Mr. M. A. Lawson, were again sent on loan to the Government Botanist at Ootacamund.

9. Mineralogy.—Among the additions to the mineral gallery may be noted :—

(*a*) A series of building stones, used for architectural purposes in the Mysore province;

(*b*) Variegated clays from Oopookundur, near Amanabrolu on the East Coast Railway, used for building purposes, and in the construction of the railway staff quarters and stations;

(*c*) Specimens of French and Irish bauxite, for comparison with the series of corundum from the Madras Presidency; and of corundum from the Chittoor taluk of the North Arcot district, which is said to be exported to Singapore and China.

(*d*) A series of rocks from the Coorg province and Nellore district, presented by the Geological Survey of India.

(*e*) A series of framed maps, illustrating Indian geology, mineral products, and meteorological conditions.

(*f*) Asbestos from the Mysore province.

(*g*) Polished specimens of green quartzite with fuchsite scales, from the hills near Namakallu in the Bellary district. It is said to occur in fairly large masses, but is difficult to work up except in small slabs.

From Messrs. Cameron & Co. a specimen was received from an upheaval which had recently (August 1899) appeared out at sea about 2 miles from Tangáchéri near Quilon on the Travancore coast, and had risen to about 3 feet above sea level. Concerning this Mr. T. H. Holland writes to me: "It comes presumably from a mud-bank, similar to those described by Lake (Rec. Geo. Surv. Ind., XXIII, 41, 1890), and which are known in that locality to rise occasionally and temporarily above sea level to a height of 3 or 4 feet. The sample is a sand composed of minute quartz and other mineral grains, mixed with fragments of shells and an abundance of foraminiferal tests, plastered into marine worm-tubes. There is nothing unexpected in the appearance of such an 'upheaval' off the Quilon coast."

10. Industrial Monograph.—As a companion to my monographs on the cotton fabric and woollen industries, a monograph on the silk industry of the Madras Presidency was, under instructions from the Government of India, prepared and issued. The main points dealt with therein are—

(*a*) The castes to which the weaving community belong.

(*b*) The localities at which the industry is carried on.

(*c*) The number of looms and weavers at different centres.

(*d*) The condition of the industry, whether flourishing or declining; and, if the latter, the causes—European competition, plague, famine, &c.—to which the artisans attribute the decline.

(*e*) The nature of the fabrics made.

(*f*) The market in which the fabrics are sold, *e.g.*, whether the trade is local within the district, or spreads beyond its limits.

(*g*) From what place the silk is obtained.

(*h*) The method of weaving (always on hand looms).

(*i*) The reason why aniline and alizarine dyes, if used, are preferred to indigenous vegetable colours.

The greatest exports of silk piece-goods from the Madras Presidency are shown by the returns to be to Rangoon, the trade with which place is fitful and oscillating, though it has increased appreciably during the last six years. The trade names, by which the exported silk goods are known in the market, are: comboyem, cuthney, dhootee, handkerchiefs, kylee, loongey (or lungi), narmady, sari, soosi, sylass, thavany, and women's cloths. The imports of silk piece-goods from Great Britain have increased to a marked extent in recent years, the value thereof from 1894–98 being Rs. 2,48,246 against Rs. 1,34,493 from 1889–1893.

In an address presented to His Excellency the Governor of Madras in 1897, the Saurashtra weavers of Madura stated that "the masses who eke out their livelihood by weaving and dyeing have not a scientific knowledge of the industries which they practise. We, therefore, deem it necessary to suggest that the establishment of textile schools and technical dye-houses for imparting instruction in the said industries will be an effective means of encouraging them, and the means of ameliorating the condition of the industrial classes." The same community recently submitted to the Government a memorial to the effect that "as the backward Saurashtra community have not the requisite capital of half a lakh of rupees for imparting to their members both general and technical education, the Saurashtra Sabha, Madura, suggests that a lottery office may be kept for collecting shares at one rupee each from the general public," on the understanding that after deducting working expenses, two-thirds be set apart for educational purposes, and one-third for prizes. In passing orders on this sporting scheme, the Government stated that it is not prepared to authorise the lottery.

11. Sea-fisheries Investigation.—In connection with this investigation, which is controlled by me on behalf of the Board of Revenue, a systematic inspection of all the more important and many of the minor fish-curing yards of Malabar and South Canara, from Tanur to Malpe, was made in November, in which month fishing operations are actively carried on. A full account thereof will be published in the Bulletin series and it will suffice, for the moment, to note that the main cry, all along the coast, was for "sardines," more especially the nallamathi (*Clupea longiceps*), large shoals of which have ceased to appear during the last few years with a resultant dearth of fish manure for planters, and fish-oil. Many deputations were received in connection with the employment, by the minority of fishermen, of what is known locally as the thattu vala (tapping net), the use of which is accompanied by shouting and beating the sides of the boats with sticks, with the result that "the tremendous noise which is the sequel of the innovation, is just sufficient to scatter the shoals of all the kinds of fishes that are near the shore, and to scare them away to the depths, where we do not venture in our small boats." The fact that, in spite of the use of the offending thattu vala, very large catches of shoaling mackerel (*Scomber microlepidotus*) were being secured was attributed to the fact that the mackerel is a bold fish, not easily frightened. The most extensive fishing operations which I witnessed were being carried on at Malpe in South Canara, where the Ratnagiri boats from the Bombay Presidency were daily securing large hauls of seir (*Cybium guttatum* and *Cybium commersonii*) in the "deep sea," while the smaller local boats were engaged in securing very heavy catches of mackerel in the shallow water near the shore. The best catches, as recorded in the Malpe yard returns, were as follows:—

Date.		Big.	Small.
		Mds.	Mds.
October	30	159	593
November	4	224	2,154
"	5	404	1,346
"	6	269	922
"	7	233	430
"	9	468	444
"	12	162	1,025
"	14	732	532
"	17	162	1,235
"	18	61	1,144
"	19	4	1,945

The big fishes were nearly all seir, and the small mackerel. On November 19th the Ratnagiri fishermen were not out, as they ceased operations on account of the moonlight, and beached their boats, so as to give them a coating of fish-oil. A maund, it may be noted, is equivalent to 82 $\frac{2}{7}$ lbs. avoirdupois.

12. Natural History (Animal).—A large number of game birds brought to the Madras market were added to the existing collection. Since the opening of the East Coast Railway, birds killed or caught at a distance of 40 or 50 miles from Madras are brought in by train and sold in the market, and it is not unusual to see birds previously rarely seen therein offered for sale. Among these may be mentioned—

Anthropoides virgo—demoiselle crane.
Platalea leucorodia—spoonbill.
Ardea manillensis—eastern purple heron.
Mareca penelope—wigeon.
Myroca ferina—pochard or dun-bird.
" ferruginea—white-eyed duck.

A skin of the Malay Bittern (*Gorsachius melanolophus*) was received from Malabar. This bird is recorded (Faun. Brit. Ind.) as being "a rare bird in Ceylon, as well as in the hill forests near the Malabar Coast of India."

During my tour on the Palni hills a large number of birds and reptiles, as well as mammals and lepidoptera, were obtained. The mammals included the large brown flying squirrel (*Pteromys oral*), which abounds among the shola trees in certain localities on the higher ranges of the Palnis, the striped-necked mungoose (*Herpestes vitticollis*) and the little leopard cat (*Felis bengalensis*).

During the tour on the western coast a collection of the more important edible fishes, and sharks' fins and fish-maws as prepared for export, was made, and a large collection of shallow water mollusca was made with the assistance of the dredge. A very large ray (*Trygon sp.*), harpooned off Malpe in South Canara, was preserved. As she lay dying on shore, she gave birth to twelve young ones, which were promptly removed to the fish-curing yard and salted.

In connection with the study of the embryology of the elasmobranchs, a number of shark embryoes were obtained *in utero* and preserved in spirit.

Interesting collections of the land-shells of the Anaimalai hills and Ceylon were acquired as donations.

A series of skeletons, illustrating the various orders of the birds of Southern India, was prepared and set up.

A series of photographs, illustrating the elephant keddah operations in Mysore, and reproductions of photographs from Muybridge's "Animals in motion," were exhibited.

Among the additions to the reptilian series were a model of the head of a poisonous snake, illustrating the mechanism of the poison apparatus; lizards with eggs *in situ*; skulls of crocodiles labelled to illustrate the osteology; and a variety of framed pictures illustrating structure and osteology. The exhibited pictures and photographs in the various galleries are, I notice, very popular with the visitors, both educated and uneducated.

13. Live Animals.—The small collection of live animals in the main hall continued to be a source of great attraction. The large-spotted eagle (*Aquila maculata*) died as the result of an abscess in the throat. For several months a pseud-albino sparrow (*Passer domesticus*) was exhibited. Among the additions which were alive at the end of the year were:

Gallus sonnerattii—grey jungle-fowl.
Excalfactoria chinensis—blue-breasted quail.
Palæornis torquatus—rose-ringed paroquet.
" cyanocephalus—blossom-headed paroquet.
Emberiza luteola—red-headed bunting.
Gongylophis conicus—sand-snake.
Helicops schistosus-fresh-water snake.

14. Connemara Public Library.—The total number of readers during the year was 14,105 against 13,345 in the previous year—

Smallest number of readers on any day		10
Largest	"	149
Smallest	" Sunday	24
Largest	"	112

The number of books given out was 17,236 against 16,677 in 1898–99. The following tabular statement shows the number of applicants for books and of the volumes given out during the last two years:—

Months.	1898–99.		1899–1900.	
	Number of applicants for books.	Number of volumes given out.	Number of applicants for books.	Number of volumes given out.
April	815	1,307	1,330	1,886
May	736	1,151	916	1,420
June	655	1,115	1,126	1,583
July	836	1,405	992	1,444
August	890	1,295	910	1,257
September	926	1,322	981	1,347
October	930	1,375	833	1,185
November	844	1,277	795	1,172
December	1,127	1,828	1,112	1,892
January	1,102	1,496	1,079	1,484
February	1,134	1,682	813	1,312
March	1,078	1,424	901	1,254
Total	11,073	16,677	11,788	17,236

The total number of standard works added to the library was 278, of which 239 were acquired by purchase and 39 presented (*vide* Appendix D).

As a rough indication of the class of literature resorted to by readers, I append a list of books issued during the year under each of the subject-catalogue heads:—

Dictionaries; encyclopædias, etc.	1,863
Anatomy; biology; natural history; zoology	579
Anthropology; folk-lore	621
Archæology; architecture	174
Arts; industries	245
Atlases and maps	120
Botany; arboriculture; horticulture	279
Belles lettres	547
Chemistry; chemical industries; agriculture	191
Classics	256
Economic products and economic entomology	57
Education; ethics; logic; metaphysics; philosophy; political economy.	1,180
Exhibitions	84
Forestry; timbers	35
Geography; physical geography; physiography	100
Geology; palæontology	63
History	769
Jurisprudence	150
Microscopy	25
Medicine; medical jurisprudence; pathology; pharmaceutics; surgery; veterinary	283
Mineralogy; metallurgy; petrology	86
Natural philosophy	664
Numismatics; heraldry; medals	248
Philology; epigraphy	194
Photographs	45
Physiology	117
Public health	339
Religion	592
Sports and games	342
Travels and foreign countries; voyages	371
Fort St. George Gazette (other than current issues)	690

In Appendix C is given a statement showing the number of readers in ever month during each hour of the working day.

15. Valuable Stock.—The necessary inventory of stock was maintained, an duly checked. The collections were all in good order at the end of the year.

APPENDIX A.

Museum Old Buildings.

Visitors from 1st April 1899 to 31st March 1900 on week days.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Singalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	1,416	432	551	1,421	15	..	16	19	1	..	17	15
May	1,779	752	280	1,726	16	..	36	60	..	1	23	10
June	1,630	685	197	2,084	7	..	11	15	..	..	12	..
July	1,761	575	373	1,760	6	..	42	15	..	..	19	2
August	1,802	559	246	2,026	4	..	49	11	..	..	26	9
September	1,678	491	196	1,791	10	..	13	17	..	..	25	3
October	1,180	400	194	1,252	3	..	9	18	..	..	28	2
November	1,515	529	200	1,390	7	..	14	16	..	..	31	2
December	2,563	606	364	1,925	11	..	32	26	..	..	37	9
January	2,794	1,042	351	2,375	23	3	47	46	..	..	44	2
February	1,435	424	284	1,368	13	2	18	18	..	..	22	2
March	1,240	398	198	1,343	6	..	17	14	..	..	16	..
Total	20,793	6,893	3,434	20,461	121	5	304	275	1	1	300	56

1899–1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	3,903	14,486	18,389	10,480	7,909	18,389
May	4,683	17,545	22,228	13,305	8,923	22,228
June	4,641	18,767	23,408	12,861	10,547	23,408
July	4,553	19,743	24,296	13,634	10,662	24,296
August	4,732	20,790	25,522	14,501	11,021	25,522
September	4,224	15,635	19,859	10,951	8,908	19,859
October	3,086	14,724	17,810	9,869	7,941	17,810
November	3,704	17,005	20,709	12,557	8,152	20,709
December	5,573	17,019	22,592	14,498	8,094	22,592
January	6,727	128,323	135,050	59,917	75,133	135,050
February	3,586	17,281	20,867	11,828	9,039	20,867
March	3,232	17,859	21,091	11,626	9,465	21,091
Total	52,644	319,177	371,821	196,027	175,794	371,821

Museum Old Buildings.

Visitors from 1st April 1899 to 31st March 1900 on Sundays.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	324	115	113	246	2	..	..	2	..	..	7	..
May	381	86	33	259	..	..	..	3	..	..	2	..
June	455	132	53	408	..	..	4	..	..	..	6	1
July	486	132	47	508	3	..	6	4	..	..	8	..
August	495	126	66	433	2	..	11	..	..	..	7	..
September	337	109	52	336	..	..	3	6	..	..	7	..
October	326	99	47	294	..	..	..	7	..	..	7	..
November	399	112	49	535	2	..	2	..	..	..	7	..
December	626	132	56	552	2	..	16	9	..	..	15	2
January	397	94	66	388	..	1	7	8	..	..	6	..
February	409	94	70	300	4	..	7	4	..	..	5	..
March	334	94	39	263	2	..	1	3	..	..	6	..
Total ..	4,969	1,325	691	4,522	17	1	57	46	..	..	83	3

1899–1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	809	1,991	2,800	1,870	930	2,800
May	764	2,460	3,224	1,949	1,275	3,224
June	1,059	3,232	4,291	2,558	1,733	4,291
July	1,194	4,035	5,229	3,097	2,132	5,229
August	1,140	3,246	4,386	2,789	1,597	4,386
September	850	3,004	3,854	2,317	1,537	3,854
October	780	2,026	2,806	1,761	1,045	2,806
November	1,106	2,493	3,599	2,278	1,321	3,599
December	1,410	3,310	4,720	3,251	1,469	4,720
January	967	2,329	3,296	2,232	1,064	3,296
February	893	2,171	3,064	2,083	981	3,064
March	742	1,726	2,468	1,548	920	2,468
Total ..	11,714	32,023	43,737	27,733	16,004	43,737

Museum New Buildings.

Visitors from 1st April 1899 to 31st March 1900 on week days.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	1,365	267	179	1,618	7	2	12	67	1	5	32	5
May	1,540	366	114	1,690	2	3	19	89	..	5	33	5
June	1,881	369	122	1,952	13	7	38	88	2	6	44	14
July	1,931	380	216	1,950	11	3	35	90	1	7	45	15
August	1,815	385	167	2,059	13	8	25	108	..	7	53	15
September	1,645	330	159	1,796	7	..	15	76	..	6	48	13
October	1,173	249	120	1,332	8	2	15	68	..	2	28	9
November	1,325	305	119	1,590	8	1	6	83	..	2	53	8
December	2,092	502	206	2,140	19	14	37	119	..	10	43	18
January	2,340	909	234	3,220	26	9	67	198	..	19	62	29
February	1,255	260	202	1,548	5	5	39	84	..	14	33	15
March	908	328	157	1,523	4	2	18	105	..	2	25	8
Total ..	19,270	4,641	1,995	22,418	123	56	326	1,175	4	85	499	154

1899–1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	2,560	18,148	16,708	9,917	6,791	16,708
May	3,856	17,503	21,459	12,606	8,853	21,459
June	4,536	19,733	24,269	14,280	9,989	24,269
July	4,684	21,315	25,999	15,038	10,961	25,999
August	4,655	21,872	26,527	15,335	11,192	26,527
September	4,095	19,255	23,350	13,520	9,830	23,350
October	2,997	13,960	16,957	9,730	7,227	16,957
November	3,500	15,420	18,920	10,961	7,959	18,920
December	5,200	22,243	27,443	16,200	11,243	27,443
January	7,116	125,168	132,281	61,565	70,716	132,281
February	3,460	17,210	20,670	11,500	9,170	20,670
March	3,080	15,557	18,637	10,480	8,157	18,637
Total ..	50,746	322,474	373,220	201,132	172,088	373,220

Museum New Buildings.

Visitors from 1st April 1899 to 31st March 1900 on Sundays.

1899-1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Gujerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	360	58	63	286	1	1	2	13	..	..	5	..
May	281	70	18	277	..	..	..	14	..	..	5	..
June	310	75	43	341	1	1	2	18	..	..	7	3
July	520	95	26	565	3	13	9	19	..	2	11	1
August	390	120	48	465	2	..	6	16	..	1	8	2
September	370	70	51	368	..	1	2	20	..	2	8	3
October	263	48	23	296	..	..	..	10	..	..	4	1
November	370	120	46	435	2	..	7	19	..	3	7	3
December	575	100	41	554	5	5	16	22	..	2	10	5
January	371	95	33	357	3	6	3	6	..	..	4	2
February	275	50	104	416	2	..	1	16	..	6	8	6
March	260	40	20	339	1	1	7	22	..	..	3	1
Total ..	4,345	941	516	4,699	20	28	55	195	..	16	80	27

1899-1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	789	1,978	2,767	1,778	989	2,767
May	665	2,443	3,108	1,948	1,160	3,108
June	801	2,942	3,743	2,185	1,558	3,743
July	1,264	3,851	5,115	3,050	2,065	5,115
August	1,058	3,214	4,272	2,651	1,621	4,272
September	895	2,972	3,867	2,342	1,525	3,867
October	645	2,115	2,760	1,769	991	2,760
November	1,012	2,527	3,539	2,263	1,276	3,539
December	1,335	3,358	4,693	3,206	1,487	4,693
January	880	2,369	3,249	2,171	1,078	3,249
February	884	2,106	2,990	2,160	830	2,990
March	694	1,732	2,426	1,530	896	2,426
Total ..	10,922	31,607	42,529	27,053	15,476	42,529

APPENDIX B.

Donations, 1899-1900.

Appu Menon, Mr. K.—
Musical instrument (villu) used by Nairs, especially during the Onam festival.

Austin, Mr. R. F.—
Laccadive tomb stones.

Best & Co., Messrs.—
Samples of Irish and French bauxite.

Bobbili, Kumara Raja—
Collection of clothing and ornaments of the Gadabas of Vizagapatam.

Bull, Mr. H. N.—
Tourmaline and mica, Gódávari district.

Burns, Mr. C. H.—
Insect (Rhynchota).

Chatterton, Mr. A.—
Dados of Indian timbers.

Clifford, Mr. W. J.—
Crested serpent-eagle (Spilornis cheela).

Duncan, Mr. P.—
Clay used for building Stone from Oopookundur, Kistna district.

Editor, Times of Malabar—
Abnormal cocoanut.

Ettiyapuram, Raja—
Twin eggs laid by a fowl.

Geological Survey of India—
Collection of rock specimens from Nellore district.

Gill, Mr. A. E.—
Swimming crab (Matuta victrix).

Gillman, Mr. H. W.—
Photographs of Khonds.

Govinda Menon, Mr. P.—
Saw of saw-fish.

Higgens, Mr. A. W. B.—
Palm-leaf caps, South Canara.

Irwin, Mr. H. A.—
Polished slabs of ornamental stones used for building purposes, Mysore.

Joseph, Mr. J.—
Scorpion, with young.

Kurumbranát, Tahsildar—
Earthen pots discovered underground in Kurumbranát taluk, Malabar.

Levaux, Revd. J. W.—
Skin of Python molurus (rock-snake).

Moir, Mr. T. E.—
Steel spurs for cock-fighting, South Canara.

Mulumudy Pitchi Reddy—
Mica with triangular markings.

Municipal Commission, Madras—
Malayan Bear.
Lion cubs.
Leopard (Felis pardus).
Orang-utan (young).
Indian Ratel (Mellivora indica).
Cockatoo.

North-Western Provinces and Oudh Government—
Gold coin (Jajalla Deva).
Rupees of Muhammad Shah, (Benares Mint).
Moghul coins (Akbar and Jahangir).
Silver coins (Moghul).

Pana, Mr. J. G.—
Insect (Nepa).

Porter, Mrs.—
Collection of land shells from the Anaimalai hills.

Price, Sir F.—
Kauri gum and charcoal from New Zealand.

Pudukkóttai, Dorai Raja—
Squirrel (Sciurus maximus).

Rajagopalachariar, Mr. K.—
Travancore ceremonial bow.

Raman, Mr. M.—
Malabar knife.

Ranga Row, Mr. T.—
Skull and photographs of Yanádis.

Rea, Mr. A.—
Miscellaneous South Indian coins.

Royal Asiatic Society (Bombay Branch)—
Mogul coins.
Silver; Akbar, Shah Jahan, Aurangzib.

Copper: Aurangzib, found in the village of Jafrabad, Godhra taluka, Punch Mahals district.
Silver Hindu punch-marked coin found in the Kalwan taluka, Nassik district.

Royal Botanical Gardens, Calcutta—
97 sheets of herbarium specimens of flowering plants.

Saldhana, Mr.—
Prehistoric pottery.
Fragment of urn with snake device, found while excavating at Tandagudi, Palni hills.

Schmidt, Mr. T. W.—
Malay bittern (Gorsachius melanolophus).

Scott, Mrs. S. P. C.—
Saw of saw-fish.

Sherman, Mr. C. M.—
Fish (Antennarius sp.), Malabar.

Turner, Mr. H. G.—
Magnesite from "Chalk Hills," Salem.

Vibert, Mr. L.—
Miscellaneous copper coins of South India.

Wood, Mr. C.—
Snakes—
Trimeresurus anamallensis, Do. macrolepis } Anamalai hills.

Young, Mr. J.—
Mica from the Nellore district.

APPENDIX C.

Statement showing the total number of readers in Library in every month during each hour of the day, 1899–1900.

	7–8	8–9	9–10	10–11	11–12	12–1	1–2	2–3	3–4	4–5	5–6	Total.
April	110	135	130	130	128	90	126	108	170	156	47	..
May	118	82	106	85	87	70	61	89	98	124	55	..
June	125	109	118	91	111	75	89	84	133	124	53	..
July	96	120	134	101	85	98	75	126	107	121	47	..
August	79	104	115	113	102	99	84	146	125	142	57	..
September	81	68	90	111	93	77	65	99	103	103	42	..
October	57	83	79	63	75	57	57	97	114	73	26	..
November	55	99	115	83	117	84	80	114	123	61	20	..
December	75	103	126	153	110	118	192	185	215	179	20	..
January	99	135	187	221	160	122	167	201	276	232	54	..
February	74	120	157	123	119	107	97	125	115	125	30	..
March	118	104	115	119	103	78	91	109	176	148	25	..
Total ..	1,087	1,262	1,472	1,393	1,290	1,105	1,194	1,483	1,755	1,588	476	14,105

APPENDIX D.

List of Books added to the Library.

Donations.

Addis, W. E.—Christianity and the Roman Empire, 1893, 8vo.
Bather, F. A.—Some Colonial Museums. Reprint, 1894, 8vo.
Cameron, P.—Hymenoptera Orientalia, or Contributions to a Knowledge of the Hymenoptera of the Oriental Zoological Region. Reprint. *Manchester*, 1899, 8vo.
Castle, F.—Elementary practical Mathematics, 1899, 8vo.
Edser, E.—Heat: for advanced Students. *Illust.*, 1899, 8vo.
Fay, E. A.—Marriages of the Deaf in America. *Washington*, 1898, 8vo.
Friedlaender, B.—Nochmals der Palolo und die Frage nach unbekannten Kosmischen Einflüssen auf Physiologische Vorgänge. Reprint. *Leipzig*, 1899, 8vo.

Friedlaender, B.—Ueber den sogenannten Palolowurm. Reprint. *Leipzig*, 1899, 8vo.
——— Verbesserungen und Zutsätze zu meinen Notizen über den Palolo. Reprint. *Leipzig*, 1899, 8vo.
Furness, W. H.—Folk-lore in Borneo. A sketch. *Illust.*, *Wallingford, Pennsylvania.*, 1899, 8vo.
——— Glimpses of Borneo. Reprint, 1896, 8vo.
——— Life in the Luchu Islands. *Illust.*, Reprint, *Philadelphia*, 1899, 8vo.
Gannet, W. C.—Three Stages of a Bible Life, 1892, 12mo.
Gleeson, J. M.—Catalogue of Trees, Shrubs, and Herbaceous Plants in the Gardens of the Agri-Horticultural Society of Madras and in the Neighbourhood, 1898, 8vo.
Godwin-Austin, H. H.—Land and freshwater Mollusca of India. Part 9. Text and Plates, 1899.
Hadley, H. E.—Magnetism and Electricity for Beginners. *Illust.*, 1899, 8vo.
Hajee Sullaiman Shah Mahomed.—Journal of Tours round the World. *Illust.*, *Bombay*, 1895, 8vo.
Hall, H. S and F. H. Stevens.—Elementary Course of Mathematics, 1899, 8vo.
Havell, E. B.—Art Education in India, and the best Means of arresting the Decay of Indian Art. *Calcutta*, 1899, 8vo.
Heiuig, R. L.—Glossary of Botanic Terms used in describing Flowering Plants. *Calcutta*, 1899, 8vo.
Hirst, J. C.—Is Nature cruel? Experiences of Big Game Hunters and others while under the Attack of Wild Beasts, 1899, 8vo.
Hooker—Icones Plantarum.—Fourth ser. vol. 7, Part I, 1899, 8vo.
Hultzsch, E.—South Indian Inscriptions, Vol. II, Parts 1–3 and Vol. III, Part 1.
LeBon, G.—Civilisation des Arabes. Translated into Urdu by Shamsul Ulama Syed Ali Bilgrami with Preface in English. *Illust. Madras*, 1898, 8vo.
MacCord, C. W.—Mechanical Drawing: Progressive Exercises and Practical Hints. *Illust. New York*, 1893, 4to.
Madugalle Siddhattha Théra.—Kawsilumina with a Paraphrase. By H. M. Parákrama Báhu, King of Ceylon. In Sinhalese. *Colombo*, 1899, 8vo.
Moore, F.—Lepidoptera Indica. *Illust.* Parts, 29 and 37—41.
Müller, F. Max.—Origin and Growth of Religion as illustrated by the Religions of India. Tamil Translation. *Madras*, 1898, 8vo.
Murdock, J.—Agricultural Reform in India by A. O. Hume, 1899, 8vo.
Santappa Chetty, B.—Handbook on the Uses of the Country and Bazaar Medicines of India, 2nd Edition. *Bangalore*, 1900, 8vo.
Seton-Karr, W. S.—Grant of Rothiemurchus: Memoirs of the Services of Sir John Peter Grant, G.C.M.G., K.C.B., 1899, 8vo.
Simmons, A. T. and L. M. Jones.—Elementary general Science. *Illust.*, 1898, 8vo.
Smith, C. and S. Bryant.—Euclid's Elements of Geometry, Books I and IV, 1899, 8vo.
Stein, M. A.—Notes on the Monetary System of Ancient Kásmir. *Illust.*, Reprint, 1899, 8vo.
Thieullen, A.—Les véritables instruments usuels de l'age de la pierre. *Illust.*, *Paris*, 1897, 8vo.
Todhunter, J.—Elements of Euclid. Revised by S. L. Loney, 1899, 8vo.
Turner, Sir W.—Contributions to the Craniology of the People of the Empire of India, Part I. Hill Tribes of North-East Frontier and the people of Burma, Reprint. *Illust.*, 1899, 4to.
Walch, G. T.—Engineering Works of the Kistna Delta: Descriptive and Historical Account. *Illust.*, 2 vols., *Madras*, 1899, 8vo.
Williams, F. W.—Life and Letters of Samuel Wells Williams, Missionary and Diplomatist, Sinologue. *New York*, 1889, 8vo.

Purchases.

Abbott, E. A.—Shakespearian Grammar, 1891, 8vo.
Abul Fazl 'Allami.—Ain-in-Akbari, Vol. I. Translation by H. Blockmann, *Calcutta*, 1873, 8vo.
Arnold, T. W.—The Preaching of Islam: History of the Propagation of the Muslim Faith, 1896, 8vo.
Asylum Press Almanac, 1900.
Atkinson, G. F.—Study of the Biology of Ferns by the Collodion Method. *Illust.*, *New York*, 1894, 8vo.
Awdry, Mrs. W.—Early Chapters in Science: Natural History, Botany, Physiology, Physics and Chemistry. *Illust.*, 1899, 8vo.
Baker, J. G.—Handbook of the Fern Allies: Synopsis of the Genera and Species of Equisetaceæ, Lycopodiaceæ, Selaginellaceæ and Rhizocarpeæ, 1887, 8vo.
Ball, Sir R.—Story of the Sun. *Illust.*, 1893, 8vo.
Barnett, P. A.—Teaching and Organisation with special reference to Secondary Schools, 1897, 8vo.
Barrarde, J.—Système silurien du centre de la Bohême, *Text and Atlas*, Vol. VII, Part 2.
Bateman, G. C.—Vivarium: Guide to the Construction, Arrangement and Management of Vivaria. *Illust.*, 8vo.
Beddard, F. E.—Book of Whales. *Illust.* [*Progressive Science Series.*] 1900, 8vo.
Berkeley, M. J.—Handbook of British Mosses. *Illust.*, 1863, 8vo.

Bertillon, A.—Races sauvages. *Illust.* [*Bibliothèque de la Nature.*] *Paris*, 8vo.
Bhagvat Sinh Jee (Thakore Saheb of Gondal).—Short History of Aryan Medical Science. *Illust.*, 1896, 8vo.
Bonarjee, P. D.—Handbook of the Fighting Races of India. *Calcutta*, 1899, 8vo.
Bonney, T. G.—Volcanoes: their Structure and Significance. *Illust.* [*Progressive Science Series*] 1899, 8vo.
Bonvalot, G.—Across Thibet (De Paris au Tonkin à travers le Tibet inconnu.) Translation. *Illust.*, 2 vols., 1891, 8vo.
Bowhill, T.—Manual of Bacteriological Technique and special Bacteriology. *Illust., Edinburgh*, 1899, 8vo.
Building Construction. Notes. *Illust.*, 4 vols., 1899, 8vo.
Burton, R.—Anatomy of Melancholy, 2 vols., 1806, 8vo.
Calverley, C. S.—Verses and Fly Leaves, 1891, 8vo.
Cambridge Natural History.—Vol. VI, Insects, Part II, by D. Sharp, and Vol. IX, Birds by Evans, 8vo.
Campbell, D. H.—Lectures on the Evolution of Plants. *Illust.*, 1899, 8vo.
——— Structure and Development of Mosses and Ferns (Archegoniatæ.) *Illust.*, 1895, 8vo.
Carrington, B.—British Hepaticæ: Jungermannia, Marchantia, and Anthoceros. *Illust.*, Parts I—IV, 8vo.
Chisholm, G. G.—Handbook of Commercial Geography. *Illust.*, 1899, 8vo.
Cobbett, W.—Advice to Young Men, 1887, 8vo.
Collier, Hon. J.—Manual of Oil Painting, 1897, 8vo.
Copleston, R. S.—Buddhism, primitive and present, in Magadha and Ceylon, 1892, 8vo.
Cowper, W.—Works, edited by R. Southey, 15 vols., 1836–37, 8vo.
Curle, J. H.—Gold Mines of the World. *Illust.*, 1899, 8vo.
Davids, T. W. R.—Dialogues of the Buddha. [*Sacred books of the Buddha.*] 1899, 8vo.
Davis, J. and W.—Bird Stuffing and Mounting. *Illust.*, 8vo.
Demoor, J. J. Massart, and E. Vandervelde.—Evolution by Atrophy in Biology and Sociology. Translation. [*International Scientific Series.*] 1889, 8vo.
Deniker, J.—The Races of Man: Outline of Anthropology and Ethnography. *Illust.* [*Contemporary Science Series.*] 1900, 8vo.
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Duff, Sir M. E. G.—Notes from a Diary kept chiefly in Southern India, 1881–86, 2 vols. 1899, 8vo.
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APPENDIX E.

Classified List of Expenditure of the Government Museum during the year 1899–1900.

	Actuals, 1899-1900.	Revised estimate, 1899-1900.
	Rs.	Rs.
Salaries—		
Superintendent	9,600	9,600
Exchange compensation allowance	587	597
Local allowance	2,400	2,400
Total ..	12,587	12,597
Permanent establishment—Government Museum—		
First Assistant, Second Assistant, first, second and third taxidermists, herbarium-keeper, artist, writer, assistant writer, fifteen hamals *, six gallery attendants, Superintendent's peon, door-keeper, chickledar and two peons—35 persons	6,820	7,099
Temporary establishment—Government Museum—		
Collecting taxidermist, three gardeners, three sweepers, five watchmen, water-pandal Brahmin, punkah-puller, and chookra—15 persons	1,041	1,059
Permanent Establishment, Connemara Public Library—		
Sub-Librarian, three attendants and two peons—six persons	2,347	2,354
Temporary Establishment—Connemara Public Library—		
Servant (sweeper)—1 person	48	48
Total, Establishment ..	10,256	10,560
Allowance—		
Travelling allowance	1,248	1,200
Supplies and Services—		
Cost of specimens purchased on tour	861	900
Objects of interest and coins purchased at head-quarters.	519	486
Fittings, furniture, &c., for the collections	2,417	2,317
Cost of books and publications	907	900
Library	1,777	2,000
Lithographic plates	479	500
Ammunitions	15	15
Charges for feeding live animals	211	200
Expenses—		
Reading coins	37	10
Measurement	37	50
Total, Supplies and Services ..	7,260	7,378
Contingencies—		
Purchase of furniture	82	437
Freight charges	25	..
Repairs to furniture	110	100
Cleaning charges	70	95
Postage „	212	180
Telegraph „	16	20
Rents, rates and taxes	3,843	3,843
Liveries and clothing of servants	54	100
Miscellaneous (cost of Europe stores)	344	..
Office expenses, including such articles as gum-pots, rat-traps, mixture to prevent destruction of records, brooms, nails, firewood, umbrellas for peons, mats, chalk, food for cats, soap, vinegar, water-pots, ropes, match-boxes	620	645
Tour charges	296	345
Petty repairs to buildings	..	1,000
Total, Contingencies ..	5,672	6,765
Grand Total ..	37,023	38,500

* Two hamals have been newly entertained from 1st January 1900.

Order—No. 313, Educational, dated 26th July 1900.

Recorded. The report is full of interest.

2. The thanks of Government are due to the ladies and gentlemen who contributed books and other articles to the Connemara Public Library and the Museum during the year.

3. The number of copies of the report asked for by Mr. Thurston will be furnished to him by the Superintendent, Government Press.

(True Extract.)

M. HAMMICK,
Ag. Secretary to Government.

To the Superintendent, Government Museum.
„ the Director of Public Instruction.
„ the Accountant-General.
„ the Public Department.
„ the Revenue Department.
„ the Superintendent, Government Press.
„ Collectors of Districts.
Editors' Table.

Endorsement—No. 314, Educational, dated 26th July 1900.

Copy to the Government of India, Department of Revenue and Agriculture.

M. HAMMICK,
Ag. Secretary to Government.

Ed. W. D'Moss.

[Edl. 6]

600—[illegible]00.

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Educational (~~189~~ 1900) Department.

CURRENT No. 904

To 4623 dt 6/7/00
1917/99 Letter

From The Supdt. Govt Museum
Madras

Order.

No. 26

Dated 7—7—00

Received

Registered 9—7—00

Enclosures

Spare copies

SUBJECT.

Subng his report on the working of the Museum during 1899-1900, & requesting that he may be supplied with 150 Copies of the report for distribution to other museums

BACK PAPERS

G.O.	No.	Department.	Date.

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Government {1900} of Madras.

EDUCATIONAL.

Recd. } 1900. *Enclosures*

Regd. *Spare copies*

G.O., &c., Nos. 313, 314, 26th **July 1900.**

JULY.

W.O. original

Govt Museum

Reading with remarks

~~Reviewing~~ the report on the working of the ——— and the Connemara Public Library during the year 1899-1900 and forwarding copy to the Govt of India.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper :—

From EDGAR THURSTON, Esq., Superintendent, Government Museum, Madras, to the Secretary to Government, Local and Municipal Department, dated 7th July 1900, No. 26.

I have the honour to forward, for submission to His Excellency the Governor in Council, my report on the working of the Government Museum during 1899–1900, and to request that I may be supplied with 160 copies for distribution to other museums, etc.

Enclosure.

ADMINISTRATION REPORT OF THE MADRAS GOVERNMENT MUSEUM FOR THE YEAR 1899–1900.

1. Visitors.—The total number of visitors to the museum old building was 415,558 and to the new building 415,749 against 333,895 and 351,942 in the previous year.

	Old building.	New building.
Smallest number of visitors on any day, not a holiday ..	108	230
Largest „ „ „ ..	1,603	1,540
Smallest number of visitors on Sunday	133	165
Largest „ „	1,589	1,573

The largest number of visitors on a single day was 80,013 to the old, and 77,530 to the new building, at the feast of Pongal (15th January). The number of visitors on Sundays was 43,737 to the old, and 42,529 to the new building, giving averages of 841 and 818 per Sunday.

The number of gosha females on the days set apart for them was 4,783 against 3,627 in the previous year. The increase is mainly due to the fact that the Muhammadan festival Kuthba fell on a gosha day, when a large number of Muhammadan females visited the museum.

The museum was visited by the Ranee of Bobbili, for whom arrangements were made, similar to those on gosha days.

The Madras Teachers' Guild, and the ladies belonging to the Hindu Social Reform Association, were personally conducted round the museum by myself.

The visitors' book was used, in an attempt to prove an *alibi*, by one of the ring-leaders in the Sivakási riot. This is not the first occasion on which the book has been used for a similar purpose.

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2. Theatre.—The theatre was used on 22 occasions, as follows :—

Amateur Dramatic Society	9
Madras Musical Association (one concert in aid of the Transvaal War Fund)	5
Southern India Brahmo Samáj—Lectures on Shakespeare, by the Rev. F. Williams.	4
Teachers' Guild Educational Conference	2
Educational lecture, by Mr. G. Barlow	1
Madras School of Music Prize Distribution and Concert	1

3. Grounds.—The grounds remained under the management of the Agri-Horticultural Society. All the young trees, which have been planted in recent years, were attacked by a land mollusc (*Rhachis punctata*), whose eggs were deposited thereon, and hatched out in vast numbers in situations well shaded and close to the sap.

As an adaptation to modern requirements, bicycle stands were set up round the main entrances to the buildings.

4. Establishment.—The head taxidermist was dismissed from the service for insolvency, and involving several members of the museum staff in his financial difficulties. The taxidermist's department is, in consequence, in a state of absolute disorganisation. Two additional gallery attendants were entertained for the custody of the botanical and pre-historic collections.

5. Anthropology.—The examination of the Pathan, Sheik and Saiyad Muhammadans of Madras City was concluded. An enquiry was commenced in connection with the investigation of Eurasian school-boy physique, and the more important physical measurements of a number of boys at the Civil Orphan Asylum, and various schools in the City of Madras were recorded. At the request of the Medical officer, I visited the Chingleput Reformatory, with a view to the examination of the physique of the youthful offenders who have been sent there to be educated.

Mr. R. Bruce Foote was engaged, towards the close of the year, in supervising the reproduction, by the Survey department, of various articles in the pre-historic gallery, in connection with his forthcoming catalogue of the museum pre-historic collection.

Among additions to the ethnological collection may be mentioned—

(*a*) A fragment of a large earthen pot, with snake device, discovered during excavations for building purposes at Tándagudi on the Pulney hills ;

(*b*) A collection of pottery found in the Kurumbranád taluk of Malabar ;

(*c*) Skull and photographs of the Yanádis of the Nellore district ;

(*d*) A series of photographs illustrating various incidents at a Toda funeral ;

(*e*) A series of transparencies on glass (enlargements) of Todas, Irulas, Kádirs, Badagas, and Pariahs ;

(*f*) Ceremonial bow, with mythical figures painted on it, from Travancore ; and a musical instrument (villu) used by the Nairs of Malabar, especially during the Onam festival ;

(*g*) Areca-palm caps worn by the lower classes in South Canara ;

(*h*) Clothing, peasant jewellery, and photographs of the Gadabas of Vizagapatam, of whom the women wear very large rings in the ears, and a bustle made of some fibre collected in the jungle ;

(*i*) Personal adornment of the Koragars of South Canara, who, until recent years, used to be dressed in a garment of leaves, now replaced by cotton cloth. The collection includes bracelets of bone and seeds of *Elæocarpus* ; necklets of seeds of *Coix Lachryma* ; waist belt decorated with bones and police and soldiers' buttons ; and bead necklets with metal ear-scoop and tooth-pick pendant ;

(*j*) Tomb-stones from the Laccadive islands, made of coral sandstone painted blue ;

(*k*) Steel spurs, cunningly devised in various shapes, used in the popular sport of cock-fighting in South Canara.

A report was received from the Madura district, relating to a find of large earthen pots, which, the local natives believed, were used for the burial of "very old people, who refused to die."

In the village of Kondavedu, in the Kistna district, two idols, carved out of "hornblende granite," and representing Virabhadraswami and his consort, were unearthed, set up in a public place, and worshipped by pilgrims, the collections from whom amounted to Rs. 50 a week. Several claimants wished to acquire possession of the lucrative images, and a quarrel and filing of a criminal complaint ensued. My proposal that the idols should be acquired for the museum under the Treasure Trove Act had to be abandoned, on it being pointed out that the faith in the idols was very great, and their removal would be distasteful to the Hindu community. On the occasion of a visit of the Deputy Collector to the village, more than a thousand people came in to worship them, and the pilgrims in a body asked him to recommend their retention on the spot.

From the Kistna district were received some old gold ornaments (necklet?) of excellent design and workmanship, which were found, in a fragmentary condition, together with coins, in a small iron pot enclosed within an earthen pot. The treasure was discovered by coolies, while excavating near the surface for building purposes.

The proof-sheets of one of the Bulletin series, containing a detailed account of the Nambutiris of Malabar, by Mr. F. Fawcett, and a note on the Mala Védars of Travancore, by Mrs. J. W. Evans, were in an advanced stage at the end of the year. The latter are an interesting tribe, inasmuch as, like the Kádirs of the Anaimalai hills, they practise chipping of the incisor teeth.

6. Numismatics.—A forgery of a gold Roman aureus, found in the Kistna district, was acquired under the Treasure Trove Act. Concerning this coin Mr. Rapson, of the British Museum, writes as follows: "It is interesting in many respects. It is a copy of an aureus of Faustina, the elder, wife of Antoninus Pius (A.D. 138—161), undoubtedly, so far as the obverse goes. With regard to the reverse type—the three standing figures—it is something like that of a coin of Faustina I, with the inscription Vota Publica, which has three standing figures; but two of these are females, and one only is male. Moreover, your coin has on the reverse a mint-mark (perhaps a corruption of Conob), which belongs to a period later than that of Faustina I. All one can say is that the coin is undoubtedly an Indian imitation of a Roman aureus of Faustina I, influenced probably by other Roman coins of a later date. Whether the imitation is ancient or modern, is a question not so easy to answer. There seems no reason why it should not be ancient, except, perhaps, that the colour of the gold is somewhat lighter than is usually the case with ancient Indian gold." From the Kistna district were also received rupees of the Moghul Emperors Aurangzib, Bahádur, and Kám Bakhsh (Hyderabad mint).

To Dr. T. Bloch, Honorary Philological Secretary, Asiatic Society of Bengal, I was greatly indebted for the identification of a large number of Moghul coins, the arrangement of which series was completed. While going through the mass of silver coins, I came across a considerable number of rupees of the Imtiyázgarh (Adóni) mint, struck during the reigns of Muhammad, Alamgír, and Sháh Alam, and a series of rupees bearing the name of the mint town Quamarnagar, struck by Muhammad Sháh. This, Dr. Bloch writes, "is a new mint, and appears to be a place in the district of Meerut, North-Western Provinces, which is now called Kamaruddinnagar or Kumruddinnagar. It is a small place situated on the Ganges, with a ghat and famous ferry (*vide* Hunter, 'Imperial Gazetteer' and 'North-Western Provinces Gazetteer'). The name seems to be derived from Quamar-ud-din Khán, the famous Vazir of Muhammad Sháh."

A series of four-anna pieces (bákiri) of Tipu Sultán, of Seringapatam mint, found together with a number of French and English Arkát rupees in the Erode taluk of the Coimbatore district, was added to the collection and distributed to other museums. From the Cuddapah district a number of gold rupees of Ahmad Sháh were received.

To Mr. A. Rea, of the Archæological Survey, and Mr. L. Vibert, my thanks are due for placing at my disposal a number of miscellaneous South Indian coins (mostly copper), which will be of great use in connection with the catalogue of South

Indian coins, which is now under preparation. The manuscript thereof is in an advanced stage, and a large number of plaster casts of the coins have been prepared in connection with the full illustration of the catalogue.

The following series have been arranged in the new coin safes, where they are available for study by those interested in numismatics:—

Alwar.
Andaman token.
Andhra.
Arakan.
Assam.
Boondee.
Buddhist, South India.
Carnatic Nawábs.
Ceylon.
Delhi Sultáns.
English East India Company.
Gadiya.
Ganga.
Gupta.
Hyderabad.
Indo-Danish.
Indo-Dutch.
Indo-French.
Indo-Greek and Scythic.
Indo-Portuguese.
Indo-Sassanian.
Indore.
Jaipur.
Jodhpur.
Kadamba.
Kalachuri.
Kanauj.
Kusans.
Moghul.
Mysore.
Oudh.
Pudukota.
Punch coins, or puránas.
Roman imperial (found in South India).
Taxila.
Travancore.
Venetian sequins (found in South India).
Western Satraps.

7. Art Gallery.—A new departure was made by the exhibition of paintings (some the property of the Fine Arts Society) by Native artists in Southern India, which are of interest as showing the great progress which has been made in recent years, and the advance over the old style of portrait-painting with abundant introduction of gold-leaf. An excellent landscape, by Mr. C. Raja Raja Varma entitled "The Lohagád, one of Sivaji's mountain fastnesses", was acquired by purchase.

Among the additions may be noted: (*a*) coconut carvings from Karkal in South Ca[illegible], (*b*) a damascened (koft) casket made at the School of Arts, Trivandrum; (*c*) a selection from the dress-service (Worcester china) of the former Governors of Fort St. George; (*d*) pith (*Æschynomene aspera*) model of a Hindu temple, by C. T. Sunkaram Pillai of Tanjore, (*e*) ivory carvings by the artisans of His Highness the Eliya Raja of Travancore, representing Vishnu at the deluge, Venugopál Krishna, deer, &c. As curiosities of Native art work, resulting from European influence, may be mentioned the Lion of Lucerne, carved in ivory, and the Laocoon in sandalwood.

8. Economic and Botanical.—Larvæ of a moth (probably *Heliothis armigera*), which were destroying the paddy (rice) seedlings, were received from the Chingleput and Tanjore districts. As a means of destroying them, the villagers dried up some of the seed-beds, without allowing water into them, and this, owing to the heat of the sun, destroyed them effectually. The villagers were, it was reported, "joyful with the belief that the insects have been found by long experience to be the forerunners of heavy flood, and that they made their appearance some twenty years ago, and were followed by heavy flood" From the Coimbatore district were received larvæ which were damaging the tender sugar-cane plants. The pest was identified at the Indian Museum, Calcutta, as being probably *Diatræa saccharalis*, the sugar-cane borer moth, which also attacks cholam (*Sorghum vulgare*) and maize (*Zea Mays*). From the South Arcot district were received the larvæ of a moth belonging to the family *Arctiidæ*, which were destroying the ground-nut crop round Panruti. Insects which were destroying the sugar-cane crop in the Chandragiri taluk of the North Arcot district were identified at the Indian Museum as *Dictyophora pallida* (lantern-flies).

Specimens of the cochineal insect, which is found living on the "prickly-pear" (*Opuntia Dillenii*) in Southern India, were sent for examination to Mr. E. E. Green, of Ceylon, who writes that they agree in every particular with his *Coccus cacti* var. *ceylonicus*, and differ from the type in the form and disposition of the tubular spines on the surface of the body.

Three dados of Indian timbers, made at the College of Engineering, Madras, and exhibited at the Fine Arts Society Exhibition, were added to the Economic section. The timbers used in their construction were—

Ebony (*Diospyros Ebenum.*)	Trincomallee wood (*Berrya ammonilla.*)
Red cedar (*Cedrela Toona.*)	Teak (*Tectona grandis.*)
White cedar (*Chickrassia tabularis.*)	Padauk (*Pterocarpus indicus.*)
Rosewood (*Dalbergia latifolia.*)	Irul (*Xylia dolabriformis.*)

A series of specimens were received from the Kistna district, illustrating the evolution of a Kondapille toy from the seasoned wood (ponuku) to the completed doll. After the wooden figure has been roughly shaped, it is held over the fire in a goldsmith's chatty with bamboo splits spread over it, in order to dry up the moisture in the wood, which is worked a few days after it has been cut. The head-dress (turban) and feet are made of tamarind seed mixed with resin and fine teak saw-dust.

On behalf of Mr. G. P. Rouffaer, of the Hague, an enquiry was set on foot concerning the "South Dekhan (Tamil) art of wax and colour drawing, especially in connection with and compared with that in use in Java." The fundamental idea, practised in Java, as well as on the coast of Kling, is, as Mr. Rouffaer points out, "to prevent, by means of local application of wax in a molten state, calicoes from taking the dye in those places whilst in the subsequent dyeing bath. When the dyeing in the dyeing tub is finished, the wax is removed by simply dipping the calico in boiling water, and the spots previously covered with wax will be found to be white; or, if they were coloured already before being covered with the wax, they will be found to be in the same unaltered colour."

The name Kling (or Kaling), it may be noted, is applied, in the Malay countries, including the Straits Settlements, to the people of Peninsular India who trade thither or are settled in those regions.

Great progress was made with the preparation of the botanical index series, which is now systematically arranged, and ready for the purpose of study by students and others.

Its main object is to act as a supplement to the text-books in illustrating the general morphology of both Phanerogams and Cryptogams. The collection, which commences with the germination of the seed, and ends with the lichens, algæ, and fungi, is largely made up of carefully selected dried specimens, mounted on herbarium sheets and framed, with full descriptive notes drawing attention to the points which they are intended to illustrate. The frames are so arranged that they can be readily unhooked, and lent for the purpose of object lessons in elementary schools. The specimens collected locally in the City of Madras were largely supplemented by additions made in the temperate climate of the Palni hills, which were explored at various elevations from 7,000 to 4,000 feet during a prolonged tour, with Kodaikánal as the centre. In addition to the work in collection with the index series, the herbarium-keeper, Mr. K. Rangachari, was engaged in the collection of a series of herbarium specimens, illustrating the flora of Madras City and its environs. An account thereof has been drawn up, and will be published hereafter.

The North Indian plants, belonging to the museum herbarium, which were returned to the museum on the death of Mr. M. A. Lawson, were again sent on loan to the Government Botanist at Ootacamund.

9. Mineralogy.—Among the additions to the mineral gallery may be noted :—

(*a*) A series of building stones, used for architectural purposes in the Mysore province;

(*b*) Variegated clays from Oopookundur, near Amanabrolu on the East Coast Railway, used for building purposes, and in the construction of the railway staff quarters and stations;

(*c*) Specimens of French and Irish bauxite, for comparison with the series of corundum from the Madras Presidency; and of corundum from the Chittoor taluk of the North Arcot district, which is said to be exported to Singapore and China.

(*d*) A series of rocks from the Coorg province and Nellore district, presented by the Geological Survey of India.

(*e*) A series of framed maps, illustrating Indian geology, mineral products, and meteorological conditions.

(*f*) Asbestos from the Mysore province.

(*g*) Polished specimens of green quartzite with fuchsite scales, from the hills near Namakallu in the Bellary district. It is said to occur in fairly large masses, but is difficult to work up except in small slabs.

From Messrs. Cameron & Co. a specimen was received from an upheaval which had recently (August 1899) appeared out at sea about 2 miles from Tangáchéri near Quilon on the Travancore coast, and had risen to about 3 feet above sea level. Concerning this Mr. T. H. Holland writes to me: "It comes presumably from a mud-bank, similar to those described by Lake (Rec. Geo. Surv. Ind., XXIII, 41, 1890), and which are known in that locality to rise occasionally and temporarily above sea level to a height of 3 or 4 feet. The sample is a sand composed of minute quartz and other mineral grains, mixed with fragments of shells and an abundance of foraminiferal tests, plastered into marine worm-tubes. There is nothing unexpected in the appearance of such an 'upheaval' off the Quilon coast."

10. Industrial Monograph.—As a companion to my monographs on the cotton fabric and woollen industries, a monograph on the silk industry of the Madras Presidency was, under instructions from the Government of India, prepared and issued. The main points dealt with therein are—

(*a*) The castes to which the weaving community belong.

(*b*) The localities at which the industry is carried on.

(*c*) The number of looms and weavers at different centres.

(*d*) The condition of the industry, whether flourishing or declining; and, if the latter, the causes—European competition, plague, famine, &c.—to which the artisans attribute the decline.

(*e*) The nature of the fabrics made.

(*f*) The market in which the fabrics are sold, *e.g.*, whether the trade is local within the district, or spreads beyond its limits.

(*g*) From what place the silk is obtained.

(*h*) The method of weaving (always on hand looms).

(*i*) The reason why aniline and alizarine dyes, if used, are preferred to indigenous vegetable colours.

The greatest exports of silk piece-goods from the Madras Presidency are shown by the returns to be to Rangoon, the trade with which place is fitful and oscillating, though it has increased appreciably during the last six years. The trade names, by which the exported silk goods are known in the market, are: comboyem, cuthney, dhootee, handkerchiefs, kylee, loongey (or lungi), narmady, sari, soosi, sylass, thavany, and women's cloths. The imports of silk piece-goods from Great Britain have increased to a marked extent in recent years, the value thereof from 1894–98 being Rs. 2,48,246 against Rs. 1,34,493 from 1889–1893.

In an address presented to His Excellency the Governor of Madras in 1897, the Saurashtra weavers of Madura stated that "the masses who eke out their livelihood by weaving and dyeing have not a scientific knowledge of the industries which they practise. We, therefore, deem it necessary to suggest that the establishment of textile schools and technical dye-houses for imparting instruction in the said industries will be an effective means of encouraging them, and the means of ameliorating the condition of the industrial classes." The same community recently submitted to the Government a memorial to the effect that "as the backward Saurashtra community have not the requisite capital of half a lakh of rupees for imparting to their members both general and technical education, the Saurashtra Sabha, Madura, suggests that a lottery office may be kept for collecting shares at one rupee each from the general public," on the understanding that after deducting working expenses, two-thirds be set apart for educational purposes, and one-third for prizes. In passing orders on this sporting scheme, the Government stated that it is not prepared to authorise the lottery.

11. Sea-fisheries Investigation.—In connection with this investigation, which is controlled by me on behalf of the Board of Revenue, a systematic inspection of all the more important and many of the minor fish-curing yards of Malabar and South Canara, from Tanur to Malpe, was made in November, in which month fishing operations are actively carried on. A full account thereof will be published in the Bulletin series and it will suffice, for the moment, to note that the main cry, all along the coast, was for "sardines," more especially the nallamathi (*Clupea longiceps*), large shoals of which have ceased to appear during the last few years with a resultant dearth of fish manure for planters, and fish-oil. Many deputations were received in connection with the employment, by the minority of fishermen, of what is known locally as the thattu vala (tapping net), the use of which is accompanied by shouting and beating the sides of the boats with sticks, with the result that "the tremendous noise which is the sequel of the innovation, is just sufficient to scatter the shoals of all the kinds of fishes that are near the shore, and to scare them away to the depths, where we do not venture in our small boats." The fact that, in spite of the use of the offending thattu vala, very large catches of shoaling mackerel (*Scomber microlepidotus*) were being secured was attributed to the fact that the mackerel is a bold fish, not easily frightened. The most extensive fishing operations which I witnessed were being carried on at Malpe in South Canara, where the Ratnagiri boats from the Bombay Presidency were daily securing large hauls of seir (*Cybium guttatum* and *Cybium commersonii*) in the "deep sea," while the smaller local boats were engaged in securing very heavy catches of mackerel in the shallow water near the shore. The best catches, as recorded in the Malpe yard returns, were as follows:—

Date.		Big.	Small.
		Mds.	Mds.
October	30	159	593
November	4	224	2,154
"	5	404	1,316
"	6	269	922
"	7	283	430
"	9	468	444
"	12	162	1,025
"	14	732	532
"	17	162	1,200
"	18	61	1,144
"	19	4	1,945

The big fishes were nearly all seir, and the small mackerel. On November 19th the Ratnagiri fishermen were not out, as they ceased operations on account of the moonlight, and beached their boats, so as to give them a coating of fish oil. A maund, it may be noted, is equivalent to 82 $\frac{2}{7}$ lbs. avoirdupois.

12. Natural History (Animal).—A large number of game birds brought to the Madras market were added to the existing collection. Since the opening of the East Coast Railway, birds killed or caught at a distance of 40 or 50 miles from Madras are brought in by train and sold in the market, and it is not unusual to see birds previously rarely seen therein offered for sale. Among these may be mentioned—

Anthropoides virgo—demoiselle crane.
Platalea leucorodia—spoonbill.
Ardea manillensis—eastern purple heron.
Mareca penelope—wigeon.
Myroca ferina—pochard or dun-bird.
" ferruginea—white-eyed duck.

A skin of the Malay Bittern (*Gorsachius melanolophus*) was received from Malabar. This bird is recorded (Faun. Brit. Ind.) as being "a rare bird in Ceylon, as well as in the hill forests near the Malabar Coast of India."

During my tour on the Palni hills a large number of birds and reptiles, as well as mammals and lepidoptera, were obtained. The mammals included the large brown flying squirrel (*Pteromys oral*), which abounds among the shola trees in certain localities on the higher ranges of the Palnis, the striped-necked mungoose (*Herpestes vitticollis*) and the little leopard cat (*Felis bengalensis*).

During the tour on the western coast a collection of the more important edible fishes, and sharks' fins and fish-maws as prepared for export, was made, and a large collection of shallow water mollusca was made with the assistance of the dredge. A very large ray (*Trygon sp.*), harpooned off Malpe in South Canara, was preserved. As she lay dying on shore, she gave birth to twelve young ones, which were promptly removed to the fish-curing yard and salted.

In connection with the study of the embryology of the elasmobranchs, a number of shark embryoes were obtained *in utero* and preserved in spirit.

Interesting collections of the land-shells of the Anaimalai hills and Ceylon were acquired as donations.

A series of skeletons, illustrating the various orders of the birds of Southern India, was prepared and set up.

A series of photographs, illustrating the elephant keddah operations in Mysore, and reproductions of photographs from Muybridge's "Animals in motion," were exhibited.

Among the additions to the reptilian series were a model of the head of a poisonous snake, illustrating the mechanism of the poison apparatus; lizards with eggs *in situ*; skulls of crocodiles labelled to illustrate the osteology; and a variety of framed pictures illustrating structure and osteology. The exhibited pictures and photographs in the various galleries are, I notice, very popular with the visitors, both educated and uneducated.

13. Live Animals.—The small collection of live animals in the main hall continued to be a source of great attraction. The large-spotted eagle (*Aquila maculata*) died as the result of an abscess in the throat. For several months a pseud-albino sparrow (*Passer domesticus*) was exhibited. Among the additions which were alive at the end of the year were:

Gallus sonnerattii—grey jungle-fowl.
Excalfactoria chinensis—blue-breasted quail.
Palæornis torquatus—rose-ringed paroquet.
" cyanocephalus—blossom-headed paroquet.
Emberiza luteola—red-headed bunting.
Gongylophis conicus—sand-snake.
Helicops schistosus-fresh-water snake.

14. Connemara Public Library.—The total number of readers during the year was 14,105 against 13,345 in the previous year—

Smallest number of readers on any day			10
Largest	"	"	149
Smallest	"	Sunday	24
Largest	"	"	112

The number of books given out was 17,236 against 16,677 in 1898–99. The following tabular statement shows the number of applicants for books and of the volumes given out during the last two years:—

Months.	1898–99.		1899–1900.	
	Number of applicants for books.	Number of volumes given out.	Number of applicants for books.	Number of volumes given out.
April	815	1,307	1,330	1,886
May	736	1,151	916	1,420
June	655	1,115	1,126	1,583
July	836	1,405	992	1,444
August	890	1,295	910	1,257
September	926	1,322	981	1,347
October	930	1,375	833	1,185
November	844	1,277	795	1,172
December	1,127	1,828	1,112	1,892
January	1,102	1,496	1,079	1,484
February	1,134	1,682	813	1,312
March	1,078	1,424	901	1,254
Total	11,073	16,677	11,788	17,236

The total number of standard works added to the library was 278, of which 239 were acquired by purchase and 39 presented (*vide* Appendix D).

As a rough indication of the class of literature resorted to by readers, I append a list of books issued during the year under each of the subject-catalogue heads:—

Dictionaries; encyclopædias, etc.	1,863
Anatomy; biology; natural history; zoology	579
Anthropology; folk-lore	621
Archæology; architecture	174
Arts; industries	245
Atlases and maps	120
Botany; arboriculture; horticulture	279
Belles lettres	547
Chemistry; chemical industries; agriculture	191
Classics	256
Economic products and economic entomology	57
Education; ethics; logic; metaphysics; philosophy; political economy.	1,180
Exhibitions	84
Forestry; timbers	35
Geography; physical geography; physiography	100
Geology; palæontology	63
History	769
Jurisprudence	150
Microscopy	25
Medicine; medical jurisprudence; pathology; pharmaceutics; surgery; veterinary	283
Mineralogy; metallurgy; petrology	86
Natural philosophy	664
Numismatics; heraldry; medals	248
Philology; epigraphy	194
Photographs	45
Physiology	117
Public health	339
Religion	592
Sports and games	342
Travels and foreign countries; voyages	371
Fort St. George Gazette (other than current issues)	690

In Appendix C is given a statement showing the number of readers in every month during each hour of the working day.

15. Valuable Stock.—The necessary inventory of stock was maintained, and duly checked. The collections were all in good order at the end of the year.

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APPENDIX A.

Museum Old Buildings.

Visitors from 1st April 1899 to 31st March 1900 on week days.

1899-1900.	Signatures made in											
	English.	Telegu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Singhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	1,416	432	551	1,421	15	..	16	19	1	..	17	15
May	1,779	752	280	1,726	16	..	36	60	..	1	23	10
June	1,630	685	197	2,084	7	..	11	15	..	..	12	..
July	1,761	575	373	1,760	6	..	42	15	..	..	19	2
August	1,802	559	246	2,026	4	..	49	11	..	..	26	9
September	1,678	491	196	1,791	10	..	13	17	..	..	25	3
October	1,180	400	194	1,252	3	..	9	18	..	..	28	2
November	1,515	529	200	1,390	7	..	14	16	..	..	31	2
December	2,563	606	364	1,925	11	..	32	26	..	..	37	9
January	2,794	1,042	351	2,375	23	3	47	46	..	..	44	2
February	1,435	424	284	1,368	13	2	18	18	..	..	22	2
March	1,240	398	198	1,343	6	..	17	14	..	..	16	..
Total	20,793	6,893	3,434	20,461	121	5	304	275	1	1	300	56

1899-1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	3,903	14,486	18,389	10,480	7,909	18,389
May	4,683	17,545	22,228	13,305	8,923	22,228
June	4,641	18,767	23,408	12,861	10,547	23,408
July	4,553	19,743	24,296	13,634	10,662	24,296
August	4,732	20,790	25,522	14,501	11,021	25,522
September	4,224	15,635	19,859	10,951	8,908	19,859
October	3,086	14,724	17,810	9,869	7,941	17,810
November	3,704	17,005	20,709	12,557	8,152	20,709
December	5,573	17,019	22,592	14,498	8,094	22,592
January	6,727	128,323	135,050	53,917	75,133	135,050
February	3,586	17,281	20,867	11,828	9,039	20,867
March	3,232	17,859	21,091	11,626	9,465	21,091
Total	52,644	319,177	371,821	196,027	175,794	371,821

Museum Old Buildings.

Visitors from 1st April 1899 to 31st March 1900 on Sundays.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	324	115	113	246	2	..	..	2	..	..	7	..
May	381	86	33	259	..	..	..	3	..	..	2	..
June	455	132	53	408	..	..	4	..	..	..	6	1
July	486	132	47	508	3	..	6	4	..	..	8	..
August	495	126	66	433	2	..	11	..	..	..	7	..
September	337	109	52	336	..	..	3	6	..	..	7	..
October	326	99	47	294	..	..	..	7	..	..	7	..
November	399	112	49	535	2	..	2	..	..	..	7	..
December	626	132	56	552	2	..	16	9	..	..	15	2
January	397	94	66	388	..	1	7	8	..	..	6	..
February	409	94	70	300	4	..	7	4	..	..	5	..
March	334	94	39	263	2	..	1	3	..	..	6	..
Total ..	4,969	1,325	691	4,522	17	1	57	46	..	..	83	3

1899–1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	809	1,991	2,800	1,870	930	2,800
May	764	2,460	3,224	1,949	1,275	3,224
June	1,059	3,232	4,291	2,558	1,733	4,291
July	1,194	4,035	5,229	3,097	2,132	5,229
August	1,140	3,246	4,386	2,789	1,597	4,386
September	850	3,004	3,854	2,317	1,537	3,854
October	780	2,026	2,806	1,761	1,045	2,806
November	1,106	2,493	3,599	2,278	1,321	3,599
December	1,410	3,310	4,720	3,251	1,469	4,720
January	967	2,329	3,296	2,232	1,064	3,296
February	893	2,171	3,064	2,083	981	3,064
March	742	1,726	2,468	1,548	920	2,468
Total ..	11,714	32,023	43,737	27,733	16,004	43,737

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Museum New Buildings.

Visitors from 1st April 1899 to 31st March 1900 on week days.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	1,365	267	179	1,618	7	2	12	67	1	5	32	5
May	1,540	366	114	1,690	2	3	19	89	..	5	33	5
June	1,881	369	122	1,952	13	7	38	88	2	6	44	14
July	1,931	380	216	1,950	11	3	35	90	1	7	45	15
August	1,815	385	167	2,059	13	8	25	108	..	7	53	15
September	1,645	330	159	1,796	7	..	15	76	..	6	48	13
October	1,173	240	120	1,332	8	2	15	68	..	2	28	9
November	1,325	305	119	1,590	8	1	6	83	..	2	53	8
December	2,092	502	206	2,140	19	14	37	119	..	10	43	18
January	2,340	909	234	3,220	26	9	67	198	..	19	62	29
February	1,255	260	202	1,548	5	5	39	84	..	14	33	15
March	908	328	157	1,523	4	2	18	105	..	2	25	8
Total ..	19,270	4,641	1,995	22,418	123	56	326	1,175	4	85	499	154

1899–1900.	Total number of signatures.	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	3,560	13,148	16,708	9,917	6,791	16,708
May	3,866	17,593	21,459	12,606	8,853	21,459
June	4,536	19,733	24,269	14,280	9,989	24,269
July	4,684	21,315	25,999	15,038	10,961	25,999
August	4,655	21,872	26,527	15,335	11,192	26,527
September	4,095	19,255	23,350	13,520	9,830	23,350
October	2,097	13,960	16,957	9,730	7,227	16,957
November	3,500	15,420	18,920	10,961	7,959	18,920
December	5,200	22,243	27,443	16,200	11,243	27,443
January	7,113	125,168	132,281	61,565	70,716	132,281
February	3,460	17,210	20,670	11,500	9,170	20,670
March	3,080	15,557	18,637	10,480	8,157	18,637
Total ..	50,746	322,474	373,220	201,132	172,088	373,220

4

Museum New Buildings.

Visitors from 1st April 1899 to 31st March 1900 on Sundays.

1899–1900.	Signatures made in											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagari.	Guzerati.	Canarese.	Chinese.	Sinhalese.	Malayalam.	Bengali.
1	2	3	4	5	6	7	8	9	10	11	12	13
April	360	58	63	286	1	1	2	13	..	..	5	..
May	281	70	18	277	..	..	..	14	..	..	5	..
June	310	75	43	341	1	1	2	18	..	..	7	3
July	520	95	26	565	3	13	9	19	..	2	11	1
August	390	120	48	465	2	..	6	16	..	1	8	2
September	370	70	51	368	..	1	2	20	..	2	8	3
October	263	48	23	296	..	..	..	10	..	..	4	1
November	370	120	46	435	2	..	7	19	..	3	7	3
December	575	100	41	554	5	5	16	22	..	2	10	5
January	371	95	33	357	3	6	3	6	..	..	4	2
February	275	50	104	416	2	..	1	16	..	6	8	6
March	260	40	20	339	1	1	7	22	..	..	3	1
Total ..	4,345	941	516	4,699	20	28	55	195	..	16	80	27

1899–1900.	Total number of signatures	Unable to sign.	Total number of visitors.	Number of		Total number of visitors.
				Males.	Females.	
	14	15	16	17	18	19
April	789	1,978	2,767	1,778	989	2,767
May	665	2,443	3,108	1,948	1,160	3,108
June	801	2,942	3,743	2,185	1,558	3,743
July	1,264	3,851	5,115	3,050	2,065	5,115
August	1,058	3,214	4,272	2,651	1,621	4,272
September	895	2,972	3,867	2,342	1,525	3,867
October	645	2,115	2,760	1,769	991	2,760
November	1,012	2,527	3,539	2,263	1,276	3,539
December	1,335	3,358	4,693	3,206	1,487	4,693
January	880	2,369	3,249	2,171	1,078	3,249
February	884	2,106	2,990	2,160	830	2,990
March	694	1,732	2,426	1,530	896	2,426
Total ..	10,922	31,607	42,529	27,053	15,476	42,529

APPENDIX B.

Donations, 1899–1900.

Appu Menon, Mr. K.—
Musical instrument (villu) used by Nairs, especially during the Onam festival.

Austin, Mr. R. F.—
Laccadive tomb stones.

Best & Co., Messrs.—
Samples of Irish and French bauxite.

Bobbili, Kumara Raja—
Collection of clothing and ornaments of the Gadabas of Vizagapatam.

Bull, Mr. H. N.—
Tourmaline and mica, Gódávari district.

Burns, Mr. C. H.—
Insect (Rhynchota).

Chatterton, Mr. A.—
Dados of Indian timbers.

Clifford, Mr. W. J.—
Crested serpent-eagle (Spilornis cheela).

Duncan, Mr. P.—
Clay used for building Stone from Oopookundur, Kistna district.

Editor, Times of Malabar—
Abnormal cocoanut.

Ettiyapuram, Raja—
Twin eggs laid by a fowl.

Geological Survey of India—
Collection of rock specimens from Nellore district.

Gill, Mr. A. E.—
Swimming crab (Matuta victrix).

Gillman, Mr. H. W.—
Photographs of Khonds.

Govinda Menon, Mr. P.—
Saw of saw-fish.

Higgens, Mr. A. W. B.—
Palm-leaf caps, South Canara.

Irwin, Mr. H. A.—
Polished slabs of ornamental stones used for building purposes, Mysore.

Joseph, Mr. J.—
Scorpion, with young.

Kurumbranát, Tahsildar—
Earthen pots discovered underground in Kurumbranád taluk, Malabar.

Levaux, Revd. J. W.—
Skin of Python molurus (rock-snake).

Moir, Mr. T. E.—
Steel spurs for cock-fighting, South Canara.

Mulumudy Pitchi Reddy—
Mica with triangular markings.

Municipal Commission, Madras—
Malayan Bear.
Lion cubs.
Leopard (Felis pardus).
Orang-utan (young).
Indian Ratel (Mellivora indica).
Cockatoo.

North-Western Provinces and Oudh Government—
Gold coin (Jajalla Deva).
Rupees of Muhammad Shah, (Benares Mint).
Moghul coins (Akbar and Jahangir).
Silver coins (Moghul).

Pana, Mr. J. G.—
Insect (Nepa).

Porter, Mrs.—
Collection of land shells from the Anaimalai hills.

Price, Sir F.—
Kauri gum and charcoal from New Zealand.

Pudukkóttai, Dorai Raja—
Squirrel (Sciurus maximus).

Rajagopalachariar, Mr. K.—
Travancore ceremonial bow.

Raman, Mr. M.—
Malabar knife.

Ranga Row, Mr. T.—
Skull and photographs of Yanádis.

Rea, Mr. A.—
Miscellaneous South Indian coins.

Royal Asiatic Society (Bombay Branch)—
Mogul coins.
Silver; Akbar, Shah Jahan, Aurangzib.

Copper: Aurangzib, found in the village of Jafrabad, Godhra taluka, Punch Mahals district.
Silver Hindu punch-marked coin found in the Kalwan taluka, Nassik district.

Royal Botanical Gardens, Calcutta—
97 sheets of herbarium specimens of flowering plants.

Saldhana, Mr.—
Prehistoric pottery.
Fragment of urn with snake device, found while excavating at Tandagudi, Palni hills.

Schmidt, Mr. T. W.—
Malay bittern (Gorsachius melanolophus).

Scott, Mrs. S. P. C.—
Saw of saw-fish.

Sherman, Mr. C. M.—
Fish (Antennarius sp.), Malabar.

Turner, Mr. H. G.—
Magnesite from "Chalk Hills," Salem.

Vibert, Mr. L.—
Miscellaneous copper coins of South India.

Wood, Mr. C.—
Snakes—
Trimeresurus anamallensis } Anamalai hills.
Do. macrolepis }

Young, Mr. J.—
Mica from the Nellore district.

APPENDIX C.

Statement showing the total number of readers in Library in every month during each hour of the day, 1899–1900.

	7—8	8—9	9—10	10—11	11—12	12—1	1—2	2—3	3—4	4—5	5—6	Total.
April	110	135	130	130	128	90	126	108	170	156	47	..
May	118	82	106	85	87	70	61	89	98	124	55	..
June	125	109	118	91	111	75	89	84	153	124	53	..
July	96	120	134	101	85	98	75	126	107	121	47	..
August	79	104	115	113	102	99	84	146	125	142	57	..
September	81	68	90	111	93	77	65	99	103	103	42	..
October	57	83	79	63	75	87	67	97	114	73	26	..
November	55	99	115	83	117	84	80	114	123	61	20	..
December	75	103	126	163	110	118	192	185	215	179	20	..
January	99	135	187	221	160	122	167	201	276	232	54	..
February	74	120	157	123	119	107	97	125	115	125	30	..
March	118	104	115	119	103	78	91	109	176	148	25	..
Total ..	1,087	1,262	1,472	1,393	1,290	1,105	1,194	1,483	1,755	1,588	476	14,105

APPENDIX D.

List of Books added to the Library.

Donations.

Addis, W. E.—Christianity and the Roman Empire, 1893, 8vo.
Bather, F. A.—Some Colonial Museums. Reprint, 1894, 8vo.
Cameron, P.—Hymenoptera Orientalia, or Contributions to a Knowledge of the Hymenoptera of the Oriental Zoological Region. Reprint. *Manchester*, 1899, 8vo.
Castle, F.—Elementary practical Mathematics, 1899, 8vo.
Edser, E.—Heat: for advanced Students. *Illust.*, 1899, 8vo.
Fay, E. A.—Marriages of the Deaf in America. *Washington*, 1898, 8vo.
Friedlaender, B.—Nochmals der Palolo und die Frage nach unbekannten Kosmischen Einflüssen auf Physiologische Vorgänge. Reprint. *Leipzig*, 1899, 8vo.
——— Ueber den sogenannten Palolowurm. Reprint. *Leipzig*, 1899, 8vo.
——— Verbesserungen und Zutsätze zu meinen Notizen über den Palolo. Reprint. *Leipzig*, 1899, 8vo.

Furness, W. H.—Folk-lore in Borneo. A sketch. *Illust.*, *Wallingford, Pennsylvania.*, 1899, 8vo.
——— Glimpses of Borneo. Reprint, 1896, 8vo.
——— Life in the Luchu Islands. *Illust.*, Reprint, *Philadelphia*, 1899, 8vo.
Gannet, W. C.—Three Stages of a Bible Life, 1892, 12mo.
Gleeson, J. M.—Catalogue of Trees, Shrubs, and Herbaceous Plants in the Gardens of the Agri-Horticultural Society of Madras and in the Neighbourhood, 1898, 8vo.
Godwin-Austin, H. H.—Land and freshwater Mollusca of India. Part 9. Text and Plates, 1899.
Hadley, H. E.—Magnetism and Electricity for Beginners. *Illust.*, 1899, 8vo.
Hajee Sullaiman Shah Mahomed.—Journal of Tours round the World. *Illust.*, *Bombay*, 1895, 8vo.
Hall, H. S and F. H. Stevens.—Elementary Course of Mathematics, 1899, 8vo.
Havell, E. B.—Art Education in India, and the best Means of arresting the Decay of Indian Art. *Calcutta*, 1899, 8vo.
Heinig, R. L.—Glossary of Botanic Terms used in describing Flowering Plants. *Calcutta*, 1899, 8vo.
Hirst, J. C.—Is Nature cruel? Experiences of Big Game Hunters and others while under the Attack of Wild Beasts, 1899, 8vo.
Hooker—Icones Plantarum.—Fourth ser. vol. 7, Part I, 1899, 8vo.
Hultzsch, E.—South Indian Inscriptions, Vol. II, Parts 1–3 and Vol. III, Part 1.
LeBon, G.—Civilisation des Arabes. Translated into Urdu by Shamsul Ulama Syed Ali Bilgrami with Preface in English. *Illust.* *Madras*, 1898, 8vo.
MacCord, C. W.—Mechanical Drawing: Progressive Exercises and Practical Hints. *Illust.* *New York*, 1893, 4to.
Madugalle Siddhattha Théra.—Kawsilumina with a Paraphrase. By H. M. Parákrama Báhu, King of Ceylon. In Sinhalese. *Colombo*, 1899, 8vo.
Moore, F.—Lepidoptera Indica. *Illust.* Parts, 29 and 37—41.
Müller, F. Max.—Origin and Growth of Religion as illustrated by the Religions of India. Tamil Translation. *Madras*, 1898, 8vo.
Murdock, J.—Agricultural Reform in India by A. O. Hume, 1899, 8vo.
Santappa Chetty, B.—Handbook on the Uses of the Country and Bazaar Medicines of India, 2nd Edition. *Bangalore*, 1900, 8vo.
Seton-Karr, W. S.—Grant of Rothiemurchus: Memoirs of the Services of Sir John Peter Grant, G.C.S.I., K.C.B., 1899, 8vo.
Simmons, A. T. and L. M. Jones.—Elementary general Science. *Illust.*, 1898, 8vo.
Smith, C. and S. Bryant.—Euclid's Elements of Geometry, Books I and IV, 1899, 8vo.
Stein, M. A.—Notes on the Monetary System of Ancient Kásmir. *Illust.*, Reprint, 1899, 8vo.
Thieullen, A.—Les véritables Instruments Usuels de l'Age de la Pierre. *Illust.*, *Paris*, 1897, 8vo.
Todhunter, I.—Elements of Euclid. Revised by S. L. Loney, 1899, 8vo.
Turner, Sir W.—Contributions to the Craniology of the People of the Empire of India, Part I. Hill Tribes of North-East Frontier and the people of Burma, Reprint. *Illust.*, 1899, 4to.
Walch, G. T.—Engineering Works of the Kistna Delta: Descriptive and Historical Account. *Illust.*, 2 vols., *Madras*, 1899, 8vo.
Williams, F. W.—Life and Letters of Samuel Wells Williams, Missionary and Diplomatist, Sinologue. *New York*, 1889, 8vo.

Purchases.

Abbott, E. A.—Shakespearian Grammar, 1891, 8vo.
Abul Fazl 'Allami.—Ain-in-Akbari, Vol. I. Translation by H. Blockmann, *Calcutta*, 1873, 8vo.
Arnold, T. W.—The Preaching of Islam: History of the Propagation of the Muslim Faith, 1896, 8vo.
Asylum Press Almanac, 1900.
Atkinson, G. F.—Study of the Biology of Ferns by the Collodion Method. *Illust.*, *New York*, 1894, 8vo.
Awdry, Mrs. W.—Early Chapters in Science: Natural History, Botany, Physiology, Physics and Chemistry. *Illust.*, 1899, 8vo.
Baker, J. G.—Handbook of the Fern Allies: Synopsis of the Genera and Species of Equisetaceæ, Lycopodiaceæ, Selaginellaceæ and Rhizocarpeæ, 1887, 8vo.
Ball, Sir R.—Story of the Sun. *Illust.*, 1893, 8vo.
Barnett, P. A.—Teaching and Organisation with special reference to Secondary Schools, 1897, 8vo.
Barrande, J.—Système Silurien du Centre de la Bohême, *Text and Atlas*, Vol. VII, Part 2.
Bateman, G. C.—Vivarium: Guide to the Construction, Arrangement and Management of Vivaria. *Illust.*, 8vo.
Beddard, F. E.—Book of Whales. *Illust.* [*Progressive Science Series.*] 1900, 8vo.
Berkeley, M. J.—Handbook of British Mosses. *Illust.*, 1863, 8vo.
Bertillon, A.—Races Sauvages. *Illust.* [*Bibliothèque de la Nature.*] *Paris*, 8vo.
Bhagvat Sinh Jee (Thakore Saheb of Gondal).—Short History of Aryan Medical Science. *Illust.*, 1896, 8vo.

Bonarjee, P. D.—Handbook of the Fighting Races of India. *Calcutta*, 1899, 8vo.
Bonney, T. G.—Volcanoes: their Structure and Significance. *Illust.* [*Progressive Science Series*] 1899, 8vo.
Bonvalot, G.—Across Thibet (De Paris au Tonkin à travers le Tibet inconnu.) Translation. *Illust.*, 2 vols., 1891, 8vo.
Bowhill, T.—Manual of Bacteriological Technique and special Bacteriology. *Illust.*, *Edinburgh*, 1899, 8vo.
Building Construction. Notes. *Illust.*, 4 vols., 1899, 8vo.
Burton, R.—Anatomy of Melancholy, 2 vols., 1806, 8vo.
Calverley, C. S.—Verses and Fly Leaves, 1891, 8vo.
Cambridge Natural History.—Vol. VI, Insects, Part II, by D. Sharp, and Vol. IX, Birds by Evans, 8vo.
Campbell, D. H.—Lectures on the Evolution of Plants. *Illust.*, 1899, 8vo.
——— Structure and Development of Mosses and Ferns (Archegoniatæ.) *Illust.*, 1895, 8vo.
Carrington, B.—British Hepaticæ: Jungermannia, Marchantia, and Anthoceros. *Illust.*, Parts I—IV, 8vo.
Chisholm, G. G.—Handbook of Commercial Geography. *Illust.*, 1899, 8vo.
Cobbett, W.—Advice to Young Men, 1887, 8vo.
Collier, Hon. J.—Manual of Oil Painting, 1897, 8vo.
Copleston, R. S.—Buddhism, primitive and present, in Magadha and Ceylon, 1892, 8vo.
Cowper, W.—Works, edited by R. Southey, 15 vols., 1836–37, 8vo.
Curle, J. H.—Gold Mines of the World. *Illust.*, 1899, 8vo.
Davids, T. W. R.—Dialogues of the Buddha. [*Sacred books of the Buddha.*] 1899, 8vo.
Davis, J. and W.—Bird Stuffing and Mounting. *Illust.*, 8vo.
Demoor, J. J. Massart, and E. Vandervelde.—Evolution by Atrophy in Biology and Sociology. Translation. [*International Scientific Series.*] 1889, 8vo.
Denniker, J.—The Races of Man: Outline of Anthropology and Ethnography. *Illust.* [*Contemporary Science Series.*] 1900, 8vo.
Duff, C. Mabel.—Chronology of India, 1899, 8vo.
Duff, Sir M. E. G.—Notes from a Diary kept chiefly in Southern India, 1881–86, 2 vols. 1899, 8vo.
Ellis, H.—The Criminal. *Illust.* [*Contemporary Science Series.*] 2nd edition, 1895, 8vo.
Fauna und Flora des Golfes von Neapel.—Asterocheriden by W. Giesbrecht, Monographie 25. *Illust.*, 1899, 4to.
Ferrier, D.—Localisation of Cerebral Disease. *Illust.* [*Gulstonian Lectures.*] 1878, 8vo.
Fielding, H.—The Soul of a People, 1898, 8vo.
——— Works: with Essay on his Life and Genius, 10 vol., 1821, 8vo.
Foster, W.—Letters received by the East India Company from its Servants in the East Vol. III, 1615, 8vo.
Fry, C. B.—Book of Cricket: Gallery of Famous Players. *Illust.*, 4to.
Geikie, J.—Earth Sculpture, or the Origin of Land-forms. *Illust.* [*Progressive Science Series.*] 1898, 8vo.
Glazebrook, R. T.—Heat and Light: elementary Text-book. *Illust.* [*Cambridge Natural Science Manuals.*] 1897, 8vo.
——— Mechanics: elementary Text-book. [*Cambridge Natural Science Manuals.*] *Illust.*, 1897, 8vo.
Grace, W. G.—Cricketing Reminiscences and Personal Recollections. *Illust.*, 1899, 8vo.
Grant, J.—Cassell's Illustrated History of India. *Illust.*, 2 vols., 1890–91, 8vo.
Green, E. E.—Coccidæ of Ceylon. *Illust.*, Part II, 1899, 8vo.
Grundriss der Indo-Arischen Philologie:—
Astronomie, Astrologie and Mathematik by G. Thibaut, 1899, 8vo.
The Atharvaveda by M. Bloomfield, 1899, 8vo.
Gubernatis, A de.—Mythologie des Plantes, 2 vols. 1878, 8vo.
Guillemin, A.—Application of Physical Forces. *Illust.* Translation, 1877, 8vo.
Haddon, A. C.—Evolution in Art: as illustrated by the Life-histories of Designs. *Illust.* [*Contemporary Science Series.*] 1895, 8vo.
Harting, J. E.—British Animals extinct within Historic Times: with some Account of British Wild Cattle, 1880, 8vo.
Heathcote, J. M. and G., *&c.*—Tennis, Lawn Tennis, Rackets, Fives. *Illust.* [*Badminton Series.*] 1897, 8vo.
Herbart, J. F.—Letters and Lectures on Education. Translation, 1898, 8vo.
Hodgson, B. H.—Essays on the Languages, Literature and Religion of Nepál and Tibet, 1874 8vo.
Hoffmann, L.—Every Boy's Book of Sport and Pastime. *Illust.*, 1897, 8vo.
Hueppe, F.—Principles of Bacteriology. Translation. *Chicago*, 1899, 8vo.
Hughes, T.—Tom Brown's School Days. *Illust.*, 1899, 8vo.
Hutchinson, H. N.—Creatures of other Days: Popular Studies in Palæontology. *Illust.*, 189 8vo.

Hutchinson, H. N.—Extinct Monsters: Popular Account of some of the larger Forms of Ancient Animal Life. *Illust.*, 1897, 8vo.
Huxley, T. H.—Darwiniana Essays, 1899, 8vo.
——— Hume: with Helps to the Study of Berkeley, 1897, 8vo.
——— Man's Place in Nature and other Essays, 1897, 8vo.
——— Method and Results, 1898, 8vo.
——— Science and Christian Tradition, 1897, 8vo.
——— Science and Hebrew Tradition, 1898, 8vo.
——— Scientific Memoirs. Edited by Michael Foster and E. Ray Lankester, vol. II, 1899.
Ilbert, Sir C.—The Government of India: being a Digest of the Statute Law relating thereto. *Oxford*, 1898, 8vo.
India, Ceylon, Straits Settlements, British North Borneo, Kong Kong. [*British Empire Series.*] 1899, 8vo.
International Congress of Technical Education. Report of Proceedings, 1897, 8vo.
Jackson, F. G.—Lessons on Decorative Design, *Illust.*, 1897, 8vo.
Jevons, F. B.—Introduction to the History of Religion, 1896, 8vo.
Keane, A. H.—Man, past and present. *Illust.* [*Cambridge Geographical Series.*] 1899, 8vo.
Keene, H. G.—A Servant of John Company: Recollections of an Indian Official, 1897, 8vo.
——— History of India: for the Use of Students and Colleges, 2 vols., 1893, 8vo.
King, W. G.—The Plague Inspector, *Madras*, 1899, 8vo.
Koch, R.—Investigation into the Etiology of Traumatic Infective Diseases, Translation. *Illust.*, [*New Sydenham Society.*] 1880, 8vo.
Küchenmeister, F.—Animal and Vegetable Parasites of the Human Body, Translation. *Illust.*, [*Sydenham Society.*] 2 vols., 1857, 8vo.
Lamb, C.—Essays of Elia, 1896, 8vo.
——— Mrs. Leicester's School, &c., 1890, 8vo.
——— Poems, Plays and Essays, 1895, 8vo.
——— Tales from Shakespeare, 1895, 8vo.
Lang, A.—Myth, Ritual, and Religion, 2 vols., 1899, 8vo.
——— Text-book of Comparative Anatomy. Translation. *Illust.*, 2 vols., 1891–96, 8vo.
Lee-Warner, W.—Citizen of India. *Illust.*, 1899, 8vo.
Lehmann, K. B. and R. Neumann.—Atlas and Essentials of Bacteriology. *Illust.*, 1897, 8vo.
Letourneau, C.—Evolution of Marriage, and of the Family. [*Contemporary Science Series.*] 8vo.
Low, S. J. and F. S. Pulling.—Dictionary of English History, 1897, 8vo.
Lubbock, Sir J.—Buds and Stipules. *Illust.* [*International Scientific Series*, 1899,] 8vo.
——— Hundred Books:—
Lewes—Biographical History of Philosophy.
Boswell—Life of Johnson.
Dickens—David Copperfield.
Lytton—Last Days of Pompeii.
Aristotle—Ethics.
Moliére—Plays.
Horace—Odes and Epodes.
Locke—Human Understanding.
Taylor—Rule and Exercises of Holy Living and Dying.
Voltaire—Zadig et Micromégas.
Lyall, Sir A. C.—Asiatic Studies, religious and social. First and Second Series, 2 vols., 1899, 8vo.
McIntosh, W. C. and A. T. Masterman.—Life Histories of British Marine Food Fishes. *Illust.*, 1897, 8vo.
——— Resources of the Sea. *Illust.*, 1899. 8vo.
Mahabharata.—In English Verse by Romesh Dutt. *Illust.*, 1899, 8vo.
Mahaffy.—History of Egypt under the Ptolemies, 8vo.
Mahámahopadhyaya Sámanta Sri Chandrasèkhara Simha.—Siddhanta Darpana. Treatise on Astronomy. In Sanskrit with Introduction by J. Chandra Ráy. *Calcutta*, 1897, 8vo.
Maine, Sir H. S.—Popular Government. Four Essays, 5th edition, 1897, 8vo.
Mainwaring, G. B.—Dictionary of the Lepcha language. Revised and completed by A. Grünwedel. *Berlin*, 1898, 8vo.
Marryat, Captain F.—Novels, 21 vols., 1896, 8vo.
Marshall, A.—Principles of Economics, 1898, 8vo.
Marshman, J. C.—Abridgement of the History of India, 1893, 8vo.
Mason, O. T.—Woman's Share in Primitive Culture. *Illust.*, 1895, 8vo.
Massee, G.—Text-book of Plant Diseases caused by Cryptogamic Parasites. *Illust*, 1899, 8vo.
Mathew, J.—Eaglehawk and Crow: Study of the Australian Aborigines. *Illust.*, 1899, 8vo.
Maudsley, H.—Body and Mind: their Connection and Mutual Influence, specially in reference to Mental disorders. [*Gulstonian Lectures.*] 1870, 8vo.
——— Body and Will; an Essay concerning Will in its Metaphysical, Physiological, and Pathological Aspects, 1883, 8vo.
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APPENDIX E.

Classified List of Expenditure of the Government Museum during the year 1899–1900.

	Actuals, 1899–1900. Rs.	Revised estimate, 1899–1900. Rs.
Salaries—		
Superintendent	9,600	9,600
Exchange compensation allowance	587	597
Local allowance	2,400	2,400
Total ..	12,587	12,597

Classified List of Expenditure of the Government Museum during the year 1899-1900—*cont.*

	Actuals, 1899-1900.	Revised estimate 1899-1900.
	Rs.	Rs.
Permanent establishment– Government Museum—		
First Assistant, Second Assistant, first, second and third taxidermists, herbarium-keeper, artist, writer, assistant writer, fifteen hamals *, six gallery attendants, Superintendent's peon, door-keeper, chickledar and two peons—35 persons	6,820	7,099
Temporary establishment—Government Museum—		
Collecting taxidermist, three gardeners, three sweepers, five watchmen, water-pandal Brahmin, punkah-puller, and chockra—15 persons	1,041	1,059
Permanent Establishment, Connemara Public Library—		
Sub-Librarian, three attendants and two peons—six persons	2,347	2,354
Temporary Establishment—Connemara Public Library—		
Servant (sweeper)—1 person	48	48
Total, Establishment ..	10,256	10,560
Allowance—		
Travelling allowance	1,248	1,200
Supplies and Services—		
Cost of specimens purchased on tour	861	900
Objects of interest and coins purchased a' quarters.	519	486
Fittings, furniture, &c., for the collectio	2,417	2,317
Cost of books and publications	907	900
Library	1,777	2,000
Lithographic plates	479	500
Ammunitions	15	15
Charges for feeding live animals	211	200
Expenses—		
Reading coins	37	10
Measurement	37	50
Total, Supplies and Services .	7,260	7,378
Contingencies—		
Purchase of furniture	82	437
Freight charges	25	..
Repairs to furniture	110	100
Cleaning charges	70	95
Postage „	212	180
Telegraph „	16	20
Rents, rates and taxes	3,843	3,843
Liveries and clothing of servants	54	100
Miscellaneous (cost of Europe stores)	344	..
Office expenses, including such articles as gum-pots, rat-traps, mixture to prevent destruction of records, brooms, nails, firewood, umbrellas for peons, mats, chalk, food for cats, soap, vinegar, water-pots, ropes, match-boxes	620	645
Tour charges	296	345
Petty repairs to buildings	..	1,000
Total, Contingencies ..	5,672	6,765
Grand Total ..	37,023	38,500

* Two hamals have been newly entertained from 1st January 1900.

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~~Secretary to Government.~~

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