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MADRAS RECORD OFFICE.

Government of Madras.

Revenue **DEPARTMENT.**

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GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following paper :—

From EDGAR THURSTON, Esq., Superintendent, Government Central Museum, to the Secretary to Government, Revenue Department, dated Madras, 10th July 1890, No. 502 :—

I have the honor to submit to the Right Honorable the Governor in Council my report on the working of the Government Central Museum during 1889-90, and, as it contains a large number of technical terms, I shall be glad to be furnished with a proof of the same together with the original manuscript before striking off. I also request that I may be supplied with 200 copies for distribution to other museums, &c.

ADMINISTRATION REPORT OF THE GOVERNMENT CENTRAL MUSEUM FOR THE YEAR 1889-90.

1. VISITORS TO THE MUSEUM.—The usual statistical returns of the number of visitors to the Museum during the year is given in Appendix C. The total number was 378,234 against 337,801 in 1888-89, being an increase of 40,433.

The number of Gosha visitors was 2,186 against 1,779 in 1888-89, being an increase of 407.

The following statement shows the number of visitors to the Museum during the last five years :—

1885-86	311,462
1886-87	233,028
1887-88	264,182
1888-89	337,801
1889-90	378,234

The Museum was visited by His Royal Highness Prince Albert Victor during his stay in Madras.

2. BUILDINGS.—The cement floors, which were laid down in the two large galleries on the ground-floor and did not meet with my approval, were being taken up and replaced by slates of Cuddapah slate at the end of the year. The pillars in the main hall were attended to, with a view to preventing the oozing and crumbling to which I referred in my last annual report. The roofs of the mineral gallery and Curator's office were repaired, and lightning conductors were fixed in various places.

3. ESTABLISHMENT.—The only change in the establishment was caused by the death of the door-keeper, who had served Government for more than 30 years. One of the Humáls, A. Ramasawmy, was appointed to fill the vacancy. An Insect-collector was temporarily engaged to collect Insects in Madras and on the Nílgiris. The third taxidermist accompanied me on all my tours, during which he did his work in a very creditable manner.

4. PUBLICATIONS.—The following publications were issued during the year :—

(1) History of the coinage of the territories of the East India Company in the Indian Peninsula, and catalogue of the coins in the Madras Museum.

(2) Catalogue of the coins of the Sultáns of Delhí in the Madras Museum.
(3) Notes on the pearl and chank fisheries, and the marine fauna of the Gulf of Manaar.

Photographs, with a descriptive note, of some brass figures from Vizagapatam and brass toys from Ganjam were sent to the *Journal of Indian Art* in accordance with the orders of Government.

5. TOURS.—During the year I made three official tours, viz., (1) to Pámban, where I was mainly engaged in examining the upraised sub-fossil reef; (2) to Ceylon, where I accompanied Captain Donnan on his inspection of the pearl banks; (3) to the Nílgiris, where a large collection of birds, &c., was made. The results of the two first tours have been published in my 'Notes on pearl and chank fisheries, &c.'

6. BOTANICAL DEPARTMENT.—The Herbarium-keeper re-arranged the specimens of Natural Orders *Urticaceæ—Orchideæ*, according to the 'Flora of British India,' and prepared manuscript catalogues of South Indian pulses, spices and condiments. A collection of plants, ferns and grasses was presented to the Museum by Dr. G. King, Superintendent of the Botanical Gardens, Calcutta; and a collection of woods, seeds, fibres and articles made out of bamboo was presented by J. S. Gamble, Esq., Conservator of Forests. Specimens of Vanilla pods from plants raised in Pondicherry were received from Monsieur Achart; and a collection of brush-making materials from the Board of Revenue.

7. ART GALLERY.—Considerable progress was made with the arrangement of this section. Photographs of South Indian art-ware were framed and hung on the walls of the staircase leading to the gallery, the unsightly windows of which were hidden by palempores. At the top of the staircase some of the arms from the Tanjore armoury were exhibited in wall-cases. Inside the gallery other specimens of arms from Tanjore were exhibited in window recesses. A branched lamp, collections of carved sandal-wood and inlaid ebony and ivory from Mysore, lacquer-ware from Burma, Cashmere and Kurnool, brass toys from Ganjam, and Trichinopoly filigree silver-ware were exhibited in table-cases. The collection of Burmese images, &c., was transferred to the gallery.

8. NUMISMATICS.—The most important additions to the coin collection were—

(1) fifteen *Aurei* of Tiberius, Vespasian, Domitian, Hadrian, Antoninus Pius, Faustina Sen, Marcus Aurelius, Commodus, and Caracalla, found by a native when digging in the old fort at Vinukonda in the Kistna district. A description of these coins has been published in the Journal of the Numismatic Society, 1889. part IV.
(2) coins of the East India Company forming part of treasure found in the Kallikót Zemindar's estate, which were sent to me for examination.
(3) a small copper coin of Charles II, bearing on one side the figure of a Hindu deity and on the other linked C's.
(4) a collection of Chola, Pándyan, Setupati and Walajah coins.
(5) a gold Chola fanam.
(6) the gold Nonambavádi coin, of which there was previously only an electrotype copy in the Museum.

To the Asiatic Society of Bengal, and Bombay Branch of the Royal Asiatic Society the Museum is indebted for many coins presented. A list of the coins acquired during the year will be found in Appendix A.

9. MINERALOGY.—The collection of minerals was labelled throughout; and, as it is arranged according to official districts, it serves as a general index to the mineral resources of the different parts of Southern India, including the Madras Presidency, Mysore and Hyderabad.

A set of cubes of soapstone (steatite) from the North Arcot, Salem, Kurnool, Coimbatore and Bellary districts, and Malabar was received from Government in illustration of a report by Mr. Bosworth Smith, late Government Mineralogist.

A collection of household articles made of soapstone in the Salem and North Arcot districts was acquired by purchase and exhibited; and a series of specimens of

mica and micaceous quartz from the Nizam's dominions, presented by E. H. Sargent, Esq., were exhibited.

10. ETHNOLOGY AND ANTIQUITIES.—A collection of pieces of pottery and bones found in dolmens near Davanur in the Tirukoilúr taluk of the South Arcot district was forwarded to the Museum by the Sub-Collector, with a note to the effect that pottery and bones have been also found in a few other places near Davanur and in villages in the Tiruvannámalai taluk. A carved granite slab with the old Danish arms, which apparently was at one time placed over a gateway, was received from Tranquebar through the Collector of Tanjore. From the Archæological Department were received some Buddhist marble statues and slabs and a large cylindrical stone relic casket from the stupas of Guntupalle, a number of objects from Amrávati, and three carved wooden door-posts and lintel from the temple at Lepakshi in the Anantapur district.

A Pallava grant, bought for Government by Dr. Hultzsch from the Dharmakarta of Kuram, a village near Kanchipuram, was deposited in the Museum. It is engraved on seven thin copper-plates in a bad state of preservation. A translation of it will be published in Dr. Hultzsch's forthcoming 'South Indian Inscriptions.'

11. INDEX COLLECTION.—The commencement was made of an index collection based on that of the British Museum (Natural History), which, in its complete state, should teach the most important points in the structure of the principal types of animal and plant life, and the terms used in describing them.* The series exhibited during the year illustrates, by means of specimens with descriptive labels, arranged in wall and table cases, the outer covering or integument of mammals and its modification into hair, nails, claws, hoofs, horns, antlers, &c. Other series are in course of preparation illustrating the dentition and osteology of mammals, the external characters and osteology of birds, the structure and forms of shells, mimicry, &c. The exhibition of these series will, it is hoped, be of use both to those who are engaged in teaching and to students in Madras, and bring the Museum more into touch with the Educational Department than it has been hitherto.

12. NATURAL HISTORY—(*a*) *Crustacea.*—The collections of Crustacea (Decapoda and Stomatopoda) made by me in the Gulf of Manaar were named by J. R. Henderson, Esq., whose report thereon is published in my 'Notes on Pearl-fisheries, &c.

(*b*) *Insecta.*—The following Lepidoptera (Rhopalocera) from the Nílgiris, Mysore, Ganjam and Madras were added to the collection. The specimens caught within the limits of the city of Madras were arranged in a separate case. For many of the specimens the Museum is indebted to Lieutenant E. Y. Watson.

Family Nymphalidæ.

Danais limniace, *Cramer*	Mysore, Madras.
Do. septentrionis, *Butler*	Do.
Do. chrysippus, *Linné*	Do.
Do. genutia, *Cramer*	Do.
Euplæa core, *Cramer*	Do.
Do. coreoides, *Moore*	Do.
Mycalesis mandosa, *Butler*	Mysore.
Do. mineus, *Linné*	Mysore, Madras.
Do. junonia, *Butler*	Mysore.
Mycalesis runeka, *Moore*	Ganjam.
Yphthima asterope, *Klüg*	Mysore.
Do. huebneri, *Kirby*	Ganjam.
Do. tabella, *Marshall*	Nílgiris.
Melanitis leda, *Linné*	Mysore, Madras.
Elymnias undularis, *Drury*	Ganjam.
Telchinia violæ, *Fabr.*	Mysore, Madras.
Ergolis ariadne, *Linné*	Do.
Atella phalanta, *Drury*	Do.
Precis iphita, *Cramer*	Do.
Junonia asterie, *Linné*	Do.
Do. lemonias, *Linné*	Mysore.
Do. hiertæ, *Fabr.*	Mysore, Madras.
Do. orithyia, *Linné*	Do.

* General Guide to the British Museum (Natural History).

Neptis varmona, *Moore*	Mysore, Madras.
Hypolimnas bolina, *Linné*	Do.
Do. misippus, *Linné*	Do.
Athyma mahesa, *Moore*	Nilgiris.
Sympædra nais, *Forster*	Mysore.
Euthalia garuda, *Moore*	Do.
Pyrameis cardui, *Linné*	Do.

Family Lycœnidæ.

Spalgis epius, *Westwood*	Nilgiris.
Curetis, sp.	Mysore.
Do. thetys, *Drury*	Madras.
Cyaniris puspa, *Horsfield*	Mysore.
Zizera sangra, *Moore*	Do.
Do. karsandra, *Moore*	Madras.
Do. gaika, *Trimen*	Do.
Chilades trochilus, *Freyer*	Nilgiris.
Tarucus plinius, *Fabricius*	Mysore.
Do. nara, *Kollar*	Nilgiris.
Castalius decidia, *Hewitson*	Do.
Do. rosimon, *Fabricius*	Madras.
Nacaduba macrophthalma, *Felder*	Nilgiris.
Do. ardates, *Moore*	Do.
Catochrysops strabo, *Fabricius*	Madras.
Do. cnejus, *Fabricius*	Ganjam.
Do. contracta, *Butler*	Ganjam, Madras.
Do. pandava, *Horsfield*	Madras.
Lampides ælianus, *Fabricius*	Mysore, Madras.
Do. do. (form *alexis*)	Madras.
Talicada nyseus, *Guérin*	Mysore.
Rathinda amor, *Fabricius*	Madras.
Deudorix epijarbas, *Moore*	Do.
Rapala melampus, *Cramer*	Do.
Virachola isocrates, *Fabricius*	Nilgiris, Ganjam, Madras.
Do. perse, *Hewitson*	Nilgiris.
Aphnæus trifurcata, *Moore*	Do.
Do. elima, *Moore*	Madras.
Tajuria longinus, *Fabricius*	Mysore.

Family Papilionidæ.

Leptosia xiphia, *Fabricius*	Madras.
Terias hecabe, *Linné*	Do.
Form hecabeoides	Mysore, Madras.
Do. excavata	Mysore.
Do. æsiope	Madras.
Catopsilia catilla, *Cramer*	Mysore, Madras.
Do. crocale, *Cramer*	Do.
Do. gnoma, *Fabricius*	Do.
Do. pyranthe, *Fabricius*	Do.
Ixias pyrene, *Linné*	Madras.
Do. meridionalis, *Swinhoe*	Mysore, Madras.
Hebomoia glaucippe, *Linné*	Do.
Callosune eucharis, *Fabricius*	Madras.
Form pseudevanthe, *Butler*	Do.
Do. danæ, *Fabricius*	Do.
Idmais amata, *Fabricius*	Mysore, Madras.
Catophaga lankapura, *Moore*	Madras.
Appias libythea, *Fabricius*	Do.
Huphina phryne, *Fabricius*	Mysore, Madras.
Belenois mesentina, *Cramer*	Do.
Nepheronia ceylonica, *Felder*	Madras.
Do. sp.	Mysore.
Delias eucharis, *Drury*	Mysore, Madras.
Do. ethire	Ganjam.
Papilio dissimilis, *Linné*	Madras.
Do. dravidarum, *W. Mason*	Nilgiris.

Papilio hector, *Linné*	Mysore, Madras.
Do. aristolochiæ, *Fabricius*	Do.
Do. erithonius, *Cramer*	Do.
Do. pammon, *Linné*	Do.
Do. polymnestor, *Cramer*	Do.
Do. nomius, *Esper*	Nilgiris.
Do. agamemnon, *Linné*	Mysore, Madras.

Family Hesperiidæ.

Badamia exclamationis, *Fabricius*	Madras.
Ismene helirius, *Cramer*	Nilgiris.
Parata chromus, *Cramer*	Madras.
Baracus septentrionis, *W. Mason*	Nilgiris.
Astictopterus sub-fasciatus, *Moore*	Do.
Parnara bada, *Moore*	Madras.
Suastus gremius, *Fabricius*	Nilgiris, Madras.
Telicota bambusæ, *Moore*	Do.
Padraona gola, *Moore*	Nilgiris.
Ampittia maro, *Fabricius*	Do.
Taractrocera ceramas, *Hewitson*	Do.
Thanaos indistincta, *Moore*	Mysore.
Halpe beturia, *Hewitson*	Nilgiris.
Pyrgus galba, *Fabricius*	Do.
Udaspes folus, *Cramer*	Madras.

(*c*) *Scorpions and Centipedes.*—A small collection of scorpions and centipedes from the Madras Presidency was worked out by R. J. Pocock, Esq., of the British Museum (Natural History), and a report published in the 'Annals and Magazine of Natural History,' March 1890, where the following species, five of which are new to science, are recorded:—

(*a*) *Scorpions.*

Isometrus maculatus, (*De Geer.*).	Scorpio swammerdami, (*Simon*).
Buthus martensii, *Karsch.*	Hormurus læviceps, *Pocock.*

(*b*) *Centipedes.*

Scutigera longicornis, *Fabr.*	Otostigma morsitans, *Pocock.*
Rhysida immarginata, *Porath.*	Do. ruficeps, *Pocock.*
Heterostoma spinosum, *Newport.*	Himantarium (?) striatum, *Pocock.*
Otostigma splendens, *Pocock.*	Mecistocephalus punctifrons, *Newport.*

(*d*) *Mollusca.*—The collection of South Indian mollusca, which I took to England for identification in 1888, was arranged and exhibited in the marine gallery. Many species collected during the year at Pámban, Kílakarai and the Ceylon pearl-banks await identification.

Table-cases were exhibited in the marine gallery, illustrating (1) pearl-and-nacre-producing shells, represented by specimens or sections of shells of *Avicula*, *Mytilus*, *Placuna*, *Haliotis and Nautilus*; (2) pearl-oyster shells from the Muttuwartu paar (Ceylon) encrusted by the corals of the genera *Porites*, *Pocillopora*, *Galaxea*, *Cyphastræa*, *Cæloria*, *Favia*, *Goniastræa*, *Madrepora*, *Montipora* and *Hydnophora*. An interesting note was published by Edgar A. Smith, Esq., in the 'Annals and Magazine of Natural History' on some shells with the animal, which I collected at Tuticorin and sent to the British Museum (Natural History) and were identified by Mr. Smith as *Lobiger viridis*, G. & H. Nevill, which has also been recorded from Ceylon.

(*e*) *Fishes.*—The following fishes, all, except *Pterois miles* from Pámban, obtained from the Madras fish market, were preserved during the year. The specimens of *Osphromenus olfax* (Gourami) were obtained from one of the tanks in the grounds of Government House, Madras, where this fish, introduced some years ago, abounds.

Galeocerdo rayneri, *McDonald and Barrow.*	Pagrus spinifer, (*Forsk.*).
Stegostoma tigrinum, (*Gmel.*).	Chrysophrys berda, (*Forsk.*).
Muræsox talabon, (*Cuv.*).	Scorpæna, sp.
Arius, sp.	Pterois miles, (*Bennett*).
Chirocentrus dorab, (*Forsk.*).	Teuthis java, *Linn.*
Clupea ilisha, (*Ham. Buch.*).	Acanthurus gahm, *Cuv. and Val.*
Serranus salmoides, (*Lacép.*).	Caranx gallus, *Linn.*
Lutjanus marginatus, (*Cuv. and Val.*).	Ophiocephalus striatus, *Bloch.*
Pristipoma furcatum, (*Bl. Schn.*).	Osphromenus olfax, *Comm.*
Diagramma griseum, (*Cuv. and Val.*).	Cynoglossus, sp.
Ephippus orbis, (*Bloch.*).	Ostracion cornutus, *Linn.*

In accordance with instructions received from Government I gave assistance to Mr. LeMesurier, of the Ceylon Civil Service, who was sent by the Ceylon Government to Madras to collect young living specimens of *Gourami* and *Labeo* for introduction into the fresh waters of Ceylon.

Numerous specimens of salted fishes were sent by the Salt Department to the Museum for identification.

(*f*) *Amphibians and Reptiles.*—A small collection of Amphibians and Reptiles from North Malabar was presented to the Museum by Rhodes Morgan, Esq., of the Forest Department, and included the following species :—

Amphibia.

Rana malabarica, (*Blgr.*).	Ichthyophis glutinosus, *Gray.*
Rhacophorus maculatus, *Blgr.*	Uræotyphlus oxyurus, *Peters.*

Reptilia.

Oligodon affinis, *Günth.*	Passerita purpurescens, *Günth.*
Cynophis malabaricus, *Jerd.*	Lycodon aulicus, *Linn.*
Tropidonotus quincunciatus, *Schl.*	Callophis cerasinus, *Bedd.*
Do. stolatus, *Linn.*	Do. sp.
Do. monticola, *Jerd.*	Daboia russellii, *Shaw.*
Dendrophis pictus, *Günth.*	Trimeresurus anamallensis, *Günth.*
Passerita mycterizans, *Linn.*	Hypnale nepa, *Laur.*

A small gallery between the main hall and bird gallery was utilised for the exhibition of some of the Crocodilia and Chelonia of Southern India, viz., a skeleton of *Crocodilus porosus* which was shot in the ditch of Fort St. George, where it had been living for many years; stuffed specimens of *Crocodilus porosus* from Cuddalore and *Crocodilus palustris* from Malabar; a skull of *Crocodilus porosus*; and a skeleton of the edible turtle, *Chelone mydas*.

(*g*) *Birds.*—During my tour on the Nílgiri hills, which lasted from February 25th to March 26th, shikarees were engaged in shooting birds in the neighbourhood of Ootacamund, Coonoor, Kótagiri and the lower slopes of the Coonoor ghât from Burliar to the base of the hills. The following list shows the species, which were collected and preserved * :—

(*a*) *Ootacamund.*

J.	83.	Hirundo domicola, *Jerd.*		Nílgiri house swallow.
„	119.	Merops swinhœi, *Hume*		Chestnut-headed bee-eater.
„	205.	Hierococcyx varius, *Vahl.*		Common hawk-cuckoo.
„	257.	Lanius erythronotus, *Vig.*		Rufous-backed shrike.

* The numbers refer to Jerdon's "Birds of India."

J.	268.	Campophaga sykesi, *Strick.*		Black-headed cuckoo shrike.
„	279.	Dicrurus annectens, *Hodgs.*		Crow-billed drongo.
„	302.	Stoporala ablicaudata, *Jerd.*		Nílgiri verditer fly-catcher.
„	342.	Myiophonus horsfieldi, *Vig.*		Malabar whistling thrush.
„	353.	Monticola cinclorhyncha, *Vig.*		Indian rock thrush.
„	360.	Merula simillima *Jerd.*		Nílgiri ouzel.
„	404.	Pomatorhinus horsfieldii, *Sykes*		Southern scimitar babbler.
„	423.	Trochalopterum cachinnans, *Jerd.*		Nílgiri laughing thrush.
„	464.	Chloropsis malabarica, *Gm.*		Malabar chloropsis.
„	467.	Ægithina tiphia, *Linn.*		Common iora.
„	473.	Oriolus melanocephalus, *Linn.*		Indian black-headed oriole.
„	481.	Pratincola caprata, *Linn.*		White-winged black-robin.
„	686.	Æthiopsar fuscus, *Wagl.*		Jungle myna.
„	701.	Munia striata, *Linn.*		White-backed munia.

(*b*) *Kótagiri.*

J.	6.	Neophron ginginianus, *Lath.*		Indian scavenger vulture.
„	57.	Pernis ptilorhynchus, *Tem.*		Crested honey buzzard.
„	234.	Cinnyris asiatica, *Lath.*		Purple honey-sucker.
„	272.	Pericrocotus flammeus, *Forst.*		Orange minivet.
„	645.	Parus atriceps, *Horsf.*		Indian grey tit.
„	768.	Alauda malabarica, *Scop.*		Crested Malabar lark.
„	786.	Palumbus elphinstonii, *Sykes*		Nílgiri wood pigeon.
„	798.	Chalcophaps indica, *Linn.*		Emerald ground dove.
„	813.	Gallus sonnerati, *Tem.*		Grey jungle fowl.

(*c*) *Coonoor and Upper Slopes of Coonoor Ghât.*

J.	23.	Astur badius, *Gm.*		Shikra.
„	54.	Circus æruginosus, *Linn.*		Marsh harrier.
„	78.	Glaucidium malabaricum, *Blyth.*		Malabar owlet.
„	85.	Hirundo erythropygia, *Sykes*		Red mosque swallow.
„	117.	Merops viridis, *Linn.*		Common Indian bee-eater.
„	119.	Do. swinhœi, *Hume*		Chestnut-headed bee-eater.
„	151	Palæornis columboides, *Vig.*		Blue-winged parakeet.
„	175.	Chrysophlegma chlorigaster, *Jerd.*		Southern yellow-naped woodpecker.
„	180.	Brachypternus aurantius, *Linn.*		Golden-backed woodpecker.
„	193.	Megalæma caniceps, *Frank*		Common green barbet.
„	197.	Xantholæma hæmacephala, *Müll.*		Crimson-breasted barbet.
„	214.	Eudynamys honorata, *Linn.*		Indian koel.
„	216.	Rhopodytes viridirostris, *Jerd.*		Small green-billed malkoha.
„	217.	Centrococcyx rufipennis, *Ill.*		Common coucal.
„	267.	Hemipus picatus, *Sykes*		Black-backed pied shrike.
„	268.	Campophaga sykesi, *Strick.*		Black-headed cuckoo shrike.
„	272.	Pericrocotus flammeus, *Forst.*		Orange minivet.
„	279.	Dicrurus annectens, *Hodgs.*		Crow-billed drongo.
„	282.	Chaptia ænea, *Vieill.*		Bronzed drongo
„	288.	Terpsiphone paradisi, *Linn.*		Paradise fly-catcher.
„	290.	Hypothymnis azurea, *Bodd.*		Black-naped blue fly-catcher.
„	302.	Stoporala albicaudata, *Jerd.*		Nílgiri verditer fly-catcher.
„	304.	Siphia rubeculoides, *Vig.*		Blue-throated redbreast.
„	339.	Brachypteryx rufiventris, *Blyth.*		Rufous-bellied shortwing.
„	342.	Myiophonus horsfieldi, *Vig.*		Malabar whistling thrush.
„	351.	Monticola cyanus, *Linn.*		Blue rock thrush.
„	353.	Do. cinclorhyncha, *Vig.*		Indian rock thrush.
„	364.	Geocichla cyanotus, *Jerd. and Selb.*		White-throated ground thrush.
„	360.	Merula simillima, *Jerd.*		Nílgiri ouzel.
„	404.	Pomatorhinus horsfieldii, *Sykes*		Southern scimitar-babbler.
„	423.	Trochalopterum cachinnans, *Jerd.*		Nílgiri laughing thrush.
„	434.	Crateropus canorus, *Linn.*		Jungle babbler.
„	450.	Iole icterica, *Strick.*		Yellow-browed bulbul.
„	460.	Otocompsa fuscicaudata, *Gould.*		Red-whiskered bulbul.
„	462.	Molpastes hæmorrhous, *Gm.*		Madras red-vented bulbul.
„	470.	Oriolus kundoo, *Sykes*		Indian oriole.
„	475.	Copsychus saularis, *Linn.*		Magpie robin.
„	592.	Motacilla melanope, *Pall.*		Grey and yellow wagtail.

J. 631. Zosterops palpebrosa, *Temm.* ... ... Indian white-eyed tit.
„ 645. Parus atriceps, *Horsf.* ... ... Indian grey tit.
„ 648. Machlolophus haplonotus, *Blyth.* ... ... Southern yellow tit.
„ 686. Æthiopsar fuscus, *Wagl.* ... ... Jungle myna.
„ 755. Mirafra affinis, *Jerd.* ... ... Madras bush lark.
„ 795. Turtur suratensis, *Gm.* ... ... Spotted dove.
„ 798. Chalcophaps indica, *Linn.* ... ... Emerald ground dove.
„ 813. Gallus sonnerati, *Temm* ... ... Grey jungle fowl.
„ 814. Galloperdix spadiceus, *Gm.* ... ... Red spur fowl.
„ 828. Microperdix erythrorhynchus, *Sykes* ... Painted bush quail.
„ 895. Totanus stagnatilis, *Bechst.* ... ... Little green shanks.

(*d*) *Lower Slopes of Coonoor Ghât.*

J. 56. Milvus govinda, *Sykes* ... ... Pariah kite.
„ 78. Glaucidium malabaricum, *Blyth.* ... ... Malabar owlet.
„ 117. Merops viridis, *Linn.* ... ... Common Indian bee-eater.
„ 119. Do. swinhœi, *Hume* ... ... Chestnut-headed bee-eater.
„ 122. Nyctiornis athertoni, *Jerd. & Selb.* ... ... Blue-necked bee-eater.
„ 127. Pelargopsis gurial, *Pears.* ... ... Brown-headed kingfisher.
„ 129. Halcyon smyrnensis, *Linn.* ... ... White-breasted kingfisher.
„ 134. Alcedo bengalensis, *Gm.* ... ... Common Indian kingfisher.
„ 149. Palæornis purpureus, *Müll.* ... ... Rose-headed parakeet.
„ 151. Do. columboides, *Vig.* ... ... Blue-winged parakeet.
„ 153. Loriculus vernalis, *Sparrm.* ... ... Indian lorikeet.
„ 166 Chrysocolaptes sultaneus, *Hodgs.* ... ... Golden-backed woodpecker.
„ 175. Chrysophlegma chlorigaster, *Jerd.* ... ... Southern yellow-naped woodpecker.
„ 181. Brachypternus puncticollis, *Math.* .... Southern golden-backed woodpecker.
„ 193. Megalæma caniceps, *Frank* ... ... Common green barbet.
„ 197. Xantholæma hæmacephala, *Müll.* ... ... Crimson-breasted barbet.
„ 207. Hierococcyx sparverioides, *Vig.* ... ... Large hawk-cuckoo.
„ 214. Eudynamys honorata, *Linn.* ... ... Indian koel.
„ 216. Rhopodytes viridirostris, *Jerd.* ... ... Small green-billed malkoha.
„ 217. Centropus rufipennis, *Ill.* ... ... Common coucal.
„ 232. Cinnyris zeylonica, *Linn.* ... ... Amethyst-rumped honey-sucker.
„ 267. Hemipus picatus, *Sykes* ... ... Black-backed pied shrike.
„ 272. Pericrocotus flammeus, *Forst.* ... ... Orange minivet.
„ 276. Do. peregrinus, *Linn.* ... ... Small minivet.
„ 279. Dicrurus annectens, *Hodgs.* ... ... Long-tailed drongo.
„ 285. Dissemurus paradiseus, *Linn.* ... ... Larger racket-tailed drongo.
„ 287. Artamus fuscus, *Vieill.* ... ... Ashy swallow shrike.
„ 288. Terpsiphone paradisi, *Linn.* ... ... Paradise fly-catcher.
„ 290. Hypothymnis azurea, *Bodd.* ... ... Black-naped blue fly-catcher.
„ 302. Stoporala albicaudata, *Jerd.* ... ... Nilgiri verditer fly-catcher.
„ 305. Cyornis banyumas, *Horsf.* ... ... Horsfield's blue redbreast.
„ 342. Myiophonus horsfieldi, *Vig.* ... ... Malabar whistling thrush.
„ 353. Monticola cinclorhyncha, *Vig.* ... ... Blue Indian rock thrush.
„ 360. Merula simillima, *Jerd.* ... ... Nilgiri ouzel.
„ 423. Trochalopterum cachinnans, *Jerd.* ... ... Nilgiri laughing thrush.
„ 450. Iole icterica, *Strick* ... ... Yellow-browed bulbul.
„ 457. micropus phæocephalus, *Jerd.* ... ... Grey-headed bulbul.
„ 464. Chloropsis malabarica, *Gm.* ... ... Malabar chloropsis.
„ 467. Ægithina tiphia, *Linn.* ... ... Common iora.
„ 469. Irene puella, *Lath.* ... ... Fairy blue-bird.
„ 470. Oriolus kundoo, *Sykes* ... ... Indian oriole.
„ 473. Do. melanocephalus, *Linn.* ... ... Indian black-headed oriole.
„ 475. Copsychus saularis, *Linn.* ... ... Magpie robin.
„ 481. Pratincola caprata, *Linn.* ... ... White-winged black robin.
„ 645. Parus atriceps, *Horsf.* ... ... Indian grey tit.
„ 674. Dendrocitta rufa, *Scop.* ... ... Common Indian tree-pie.
„ 678. Do. leucogastra, *Gould* ... ... Southern tree-pie.
„ 755. Mirafra affinis, *Jerd.* ... ... Madras bush lark.
„ 798. Chalcophaps indica, *Linn.* ... ... Emerald ground dove.
„ 813. Gallus sonnerati, *Temm.* ... ... Grey jungle fowl.
„ 930. Ardeola grayi, *Sykes* ... ... Pond heron.

The following eggs and nests of Indian birds were acquired during the year:—

J. 149. Palæornis purpureus, *Müll.* ... ... Rose-headed paróquet; egg.
„ 232. Cinnyris zelonica *Linn.* ... ... Amethyst-rumped honey-sucker; eggs and nest.
„ 234. Do. asiatica, *Lath.* ... ... Purple honey-sucker; egg.
„ 240. Piprisoma agile, *Tick.* ... ... Thick-billed flower-pecker; eggs and nest.
„ 281. Dicrurus cærulescens, *Linn.* ... ... White-bellied drongo; eggs and nest.
„ 292. Rhipidura albifrontata, *Frankl.* ... ... White-browed fantail; egg.
„ 302. Stoporala albicaudata, *Jerd.* ... ... Nilgiri verditer fly-catcher; egg.
„ 345. Pitta brachyura, *Linn.* ... ... Yellow-breasted ground thrush; egg.
„ 433. Crateropus griseus, *Gm.* ... ... White-headed babbler; eggs and nest.
„ 437. Argya subrufa, *Jerd.* ... ... Rufous babbler; egg.
„ 444. Hypsipetes psaroides, *Vig.* ... ... Himalayan black bulbul; egg.
„ 445. Do. ganeesa, *Sykes* ... ... South Indian black bulbul; egg.
„ 452. Pycnonotus luteolus, *Less.* ... ... White-browed bulbul; egg and nest.
„ 462. Molpastes hæmorrhous, *Gm.* ... ... Common Madras bulbul; egg and nest.
„ 468. Ægithona tiphia, *Linn.* ... ... Common iora; egg.
„ 470. Oriolus kundoo, *Sykes* ... ... Indian oriole; egg.
„ 480. Thamnobia cambaiensis, *Lath.* ... ... Brown-backed Indian robin; egg.
„ 530. Orthotomus sutorius, *Forst.* ... ... Indian tailor-bird; egg and nest.
„ 543. Prinia inornata, *Sykes* ... ... Indian wren-warbler; egg and nest.
„ 600. Anthus rufulus, *Vieill.* ... ... Indian tit lark; egg.
„ 683. Sturnopastor contra, *Linn.* ... ... Pied starling; egg.
„ 687. Temenuchus pagodarum, *Gm.* ... ... Black-headed myna; egg and nest.
„ 694. Ploceus philippinus, *Linn.* ... ... Common weaver bird; eggs and nest.
„ 703. Amadina malabarica, *Linn.* ... ... Plain brown munia; egg.
„ 711. Petronia flavicollis, *Frankl.* ... ... Yellow-necked sparrow; egg.
„ 758. Ammomanes phœnicura, *Frankl.* ... ... Rufous-tailed finch lark; egg.
„ 760. Pyrrhulauda grisea, *Scop.* ... ... Black-bellied finch lark; egg.
„ 767. Alauda gulgula, *Frankl.* ... ... Indian sky-lark; eggs and nest.
„ 812. Gallus ferrugineus, *Gm.* ... ... Red jungle fowl; egg.
„ 814. Galloperdix spadiceus, *Gm.* ... ... Red spur fowl; egg.
„ 905. Gallinula chloropus, *Linn.* ... ... Water hen; egg.
„ 925. Herodias torra, *B. Ham.* ... ... Indian white heron; egg.
„ 934. Ardetta sinensis, *Gm.* ... ... Yellow bittern; egg.
„ 944. Phœnicopterus antiquorum, *Tem.* ... ... Flamingo; egg.
„ 950. Sarcidiornis melanonotus, *Penn.* ... ... Nukhta or comb duck; egg.
„ 952. Dendrocygna javanica, *Horsf.* ... ... Whistling teal; egg.

A large number of birds, collected during my tours or purchased in the Madras bazaar, were mounted during the year by the Museum taxidermists.

(*h*) *Mammals.*—In the month of January the carcase of a Cachalot or Sperm whale (*Physeter macrocephalus*), about 24 feet in length, was washed on shore at Madras in an advanced stage of decomposition. The body was buried on the beach, and the skull removed to the Museum. The lower jaw contained 23 functional teeth on each side; and imbedded in the gum, covering the upper jaw, were 12 rudimentary teeth. This animal is recorded by Gray * (*Catodon macrocephalus*) as being occasionally hunted at the entrance of the Bay of Bengal, within sight of Ceylon.

Specimens of a Dolphin (*Delphinus plumbeus*), Large Fox Bat (*Pteropus edwardsi*), and an Albino Bandicoot (*Mus bandicota*) were stuffed; and skeletons of a Sheep, Porcupine (*Hystrix leucura*) and common Otter (*Lutra vulgaris*) were prepared during the year.

The carcases of various animals, which died in the People's Park collection, were forwarded to the Museum by the President of the Municipality.

* Catalogue of Seals and Whales in the British Museum, 1866.

(i) *Library.*—The number of visitors to the library was 6,684 against 6,568 in 1888-89, being an increase of 116. The additions to the library during the year are recorded in Appendix D, and the following is a summary :—

Presented by Government	134
Do. by private individuals	120
Purchased	123
British Museum publications	7
Patent office papers	139
Trübner's oriental series	1
Periodicals	451
Record publications of the Master of Rolls	13
Parliamentary blue books	47

A commencement was made by Mr. Hensman, Assistant Professor of English at the Presidency College, of a new catalogue of the library.

GOVERNMENT CENTRAL MUSEUM,
EGMORE,
Madras, 10th July 1890.

(Signed) EDGAR THURSTON,
Supdt., Govt. Central Museum.

APPENDICES.

A.

COINS ACQUIRED DURING THE YEAR 1889-90.

Copper, Danish East India Company	Donation.
Do. English do.	Do.
Do. coins (South Indian, &c.) from Kílakarai	Do.
Do. Ceylon coins	Purchase.
Gold, Venetian sequins	Donation.
Collection of English East India Company coins and proofs ...	Purchase.
Gold, South Indian fanams	Do.
Do. Siam coins	Do.
Do. and silver, Patán, Moghul coins, &c.	Asiatic Society of Bengal.
Do. mohur, Muhammad ibn Tughlak	Purchase.
Rupee, Muhammad ibn Sám	Do.
Do. Shér Sháh	Do.
Roman aurei from Vinukonda	Donation.
Gold mohur, Típú Sultán	Purchase.
Rupee, Shams-add-din Altamsh	Do.
Gold pagodas and copper coins found in a metal pot	Donation.
Do. húns from Bijapore, and silver coins of Gujerat and East India Company	Bombay Branch, Royal Asiatic Society.
Double Arcot rupee	Purchase.
Collection of coins of Moghul emperors, kings of Malwa, &c. ...	Asiatic Society of Bengal.
Pagodas of Sáadut-Ulla Khán (Nawáb of Carnatic)	Purchase.
Gold coins of Vásudéva	Do.
Aureus of Claudius and Agrippina	Do.
Khálakhabád fanam of Típú	Do.
Fanam of Vijaya Báhu	Do.
Collection of Chola, Pándyan, Walajah and Setupati coins ...	Do.
Copper Mysore coins	Exchange.
Collection of Malabar Muhammadan coins	Do.
Copper East India Company coin (Charles II)	Do.
Collection of East India Company coins from Kallikót estate ...	Purchase.
Do. of Moghul, Patán coins, &c.	Asiatic Society, Bengal.
Gold Nonambavádi coin	Purchase.

B.

GENERAL LIST OF THE CONTRIBUTIONS, &C., RECEIVED FOR THE GOVERNMENT CENTRAL MUSEUM FROM 1ST APRIL 1889 TO [illegible] MARCH 1890.

		NO.
Abdul Cawder Sahib, Moothialpet—		
Fish (*Ostracion nasus*)	1	1
Achart, M. D., Monsieur, Pondicherry—		
Vanilla pods		
Andrews, J. L., Esq.—		
Nest of hornet (*Vespa cincta*)	1	1
Antonio, C. J. J., Mr., Pudupet—		
Auriferous quartz	1	2
Iron ore	1	
Athisayam, T. G., Pillay, M.R.Ry.—		
Snake (*Bungarus cæruleus*)	1	1
Bidie, Surgeon-General G., M.B., C.I.E.—		
Skull of a dog (*Canis familiaris*)	1	1
Cardew, A. G., Esq.—		
Butterfly (*Papilio tamilana*)	1	1
Cardozo, H.O.' C., Esq.—		
Stick insect (sp. incert)	1	1
Carter, H. R. P., Esq.—		
Albino bandicoot (*Mus bandicota*)	1	8
Bird (*Limnætus cristatellus*), the crested hawk eagle	1	
Do. (*Totanus glottis*), the green shanks	1	
Do. (*Merops apiaster*), the European bee-eater	1	
Do. (*Circus macrurus*), the pallid harrier	1	
Do. (*Do. swainsonii*), the pale harrier	1	
Do. (*Botaurus stellaris*), the bittern	1	
Snake (*Lycodon aulicus*)	1	
Cuddapah. The District Surgeon—		
Abnormal chicken		1
Daly, William Mahon, Esq., Yercaud, Shevaroys—		
Bird (*Elanus melanopterus*), the black-winged kite	1	10
Egg (*Hypsipetes ganeesa*), the ghât black bulbul	1	
Nest and egg of (*Piprisoma agile*), the thick-billed flower-pecker .	2	
Do. (*Dicrurus cærulescens*), the white-bellied drongo	2	
Cicada (*Gacana atkinsoni*, Dist.)	2	
Do. (*Platypleura octogulata*, Fabr.)	1	
Do. (*Pomponia linearis*, Walk.)	1	
Gamble, J. S., Esq., Conservator of Forests, Northern Circle—		
Wood specimens	35	72
Seeds (coast drift)	7	
Fibres	4	
Articles made of bamboo	26	
Hammick, M., Esq.—		
Graphite used by potters for polishing pottery, Vizagapatam ...	1	2
Mantis (sp. incert)	1	
Jago, Colonel—		
Pair of brass Toda anklets		1
Karunakara Menon, P., M.R.Ry., Deputy Collector, Saidápet—		
Mantis (sp. incert)		1
King, Dr. G., Superintendent, Royal Botanic Gardens, Seebpore, Calcutta—		
Plants	100	118
Ferns	2	
Grasses	16	
Laing, T. W., Esq., Chetput—		
Eggs of canary	3	4
Nest of the pied wagtail (*Motocilla maderaspatana*)	1	
McLeod, General H., The Mansion—		
Slate aquarium		1
Mainwaring, E. R. R., Esq., Tuticorin—		
Sands from Cape Comorin		5

		NO.
Municipal Commission, Madras, President of—		
Tigar cub (*Felis tigris*)	1	9
Leopards (*Do. pardus*)	3	
Ram (*Ovis aries*)	1	
Otter (*Lutra vulgaris*)	1	
Lemurs	2	
Tasmanian devil (*Dasyurus ursinus*)	1	
Pearl Banks, Tuticorin, Superintendent of—		
Pearls, the produce of 15,000 oysters taken from the Tholayiram paar in November 1888	Collection.	
Price, Hon'ble Mr. J. F.—		
Rufous turtle dove (*Turtur meena*)	1	
Rajaratna, P., Mudaliar, M.R.Ry.—		
Cockatoo	1	
Ramasawmy, C. A. S., Pillay, M.R.Ry., Madras—		
Hen's egg	1	
Ratnasawmy Nadar, M.R.Ry., Tranquebar—		
Stone-carving	1	
Rea, A., Esq., First Assistant, Archæological Survey Department—		
Buddhist marble statues	3	20
Large cylindrical stone relic casket	1	
Buddhist marble slabs, &c.	Collection	
Miniature dagoba	1	
Small objects found in the centre of a stupa	2	
Objects from Amrávati	Lot	
Images	4	
Carved wooden door-posts and lintel from the temple at Lepakshi in the Anantapur district	3	
Human bones found during the excavation at the Mahabalipuram shore temple near the turned-up image	Lot	
Pottery	Collection	
Bricks	Do.	
Coins	Do.	
Sargent, E. H., Esq., Superintendent, Mica Mines—		
The Hyderabad (Deccan) Company (Limited)—		
Specimens of quartz containing mica, and mica	17	
Secretary to Government, Public Department—		
Pieces of a broken copper vessel from Trichinopoly		
Secretary to the Board of Revenue (Revenue Settlement, Land Records and Agriculture)—		
Samples of brush-making materials		
Sharpe, Captain—		
Crocodile (*Crocodilus porosus*)	1	
Simpson, Mrs., St. Thomé—		
Dolphin (*Delphinus plumbeus*)	1	
Small, Mr. J., Old College—		
Blue-breasted rail (*Rallus striatus*)	1	
Sneyd, E. H., Esq., Injambakam—		
Abnormal turkey chick	1	
South Arcot, Collector of—		
Pottery	Collection.	
Sterndale, R. A., Esq.—		
Madras mungoos (*Herpestes mungo*)	1	8
Skins of birds—		
The Indian ringed plover (*Ægialites philippensis*)	1	
The ring-tailed sea eagle (*Haliætus fulviventer*)	1	
The blue heron (*Ardea cinerea*)	1	
The Himalayan chough (*Fragilus himalayanus*)	2	
Emberiza (sp. incert)	1	
Skin of a snake	1	
Sudarsana, V. E., Mudaliar, M.R.Ry.—		
Abnormal hen's egg	1	
Venkata Rangam, A., Nayudu, M.R.Ry., Madras—		
Larva of a moth	1	
Watson, Lieutenant E.Y.		
Bird (*Pitta bengalensis*), the yellow-breasted ground thrush	1	
Webster, Mr. J. H., Egmore—		
Pond tortoise (*Nicoria trijuga*)	1	2
Beetle (sp. incert)	1	

C.

VISITORS to the Government Central Museum from 1st April 1889 to 31st March 1890.

1889-90.	SIGNATURES MADE IN											
	English.	Telugu.	Hindustani.	Tamil.	Mahratta.	Nagaree.	Guzeratee.	Canarese.	Chinese.	Singalese.	Malayalam.	Bengalee.
1	2	3	4	5	6	7	8	9	10	11	12	13
April ..	2,120	307	200	1,143	29	4	8	12	..	..	52	..
May ..	2,504	486	145	1,491	21	2	11	38	..	..	31	..
June ..	2,450	312	277	1,422	23	..	21	1	2	..	16	..
July ..	1,956	368	172	1,201	17	2	26	13	..	..	22	..
August ..	1,985	582	431	1,867	6	11	121	71	3	..	40	2
September ..	1,939	548	226	1,658	7	4	32	70	..	..	74	..
October ..	2,014	645	337	1,778	12	14	19	102	..	2	59	..
November ..	2,208	593	316	1,773	20	4	38	53	..	..	29	..
December ..	3,414	718	261	1,975	22	28	74	64	..	3	50	..
January ..	4,252	791	268	2,714	9	16	54	138	..	5	78	..
February ..	1,977	470	240	1,480	..	7	35	49	..	..	44	..
March ..	2,114	592	262	1,745	..	10	47	67	..	..	39	..
Total ..	28,933	6,412	3,135	20,247	166	102	486	678	5	10	534	2

1889-90.	Total of signatures.	Unable to sign, but tally kept.	Total of visitors.	NUMBER OF		Total of visitors.
				Men and boys.	Women and girls.	
	14	15	16	17	18	19
April ..	3,875	28,217	32,092	16,747	15,345	32,092
May ..	4,729	26,184	30,913	15,851	15,062	30,913
June ..	4,624	28,004	32,628	16,366	16,162	32,528
July ..	3,777	25,974	29,751	15,453	14,298	29,751
August ..	5,119	24,119	29,238	16,541	12,697	29,238
September ..	4,558	18,612	23,170	13,374	9,796	23,170
October ..	4,982	18,427	23,409	13,995	9,414	23,409
November ..	5,034	19,143	24,177	13,426	10,751	24,177
December ..	6,609	19,243	25,852	14,947	10,905	25,852
January ..	8,325	78,060	86,385	36,165	50,220	86,385
February ..	4,302	14,750	19,052	10,709	8,343	19,052
March ..	4,876	16,791	21,667	12,779	8,888	21,667
Total ..	60,710	317,524	378,234	196,353	181,881	378,234

D-1.

LIST OF BOOKS ADDED TO THE LIBRARY.

By Purchase (*Standard Works*).

	Volumes.
Agassiz, A.—Bulletin of the Museum of Comparative Zoology at Harvard College, Vol. 10, No. 2	1
Do. A.—On the Embryology of Echinoderms	1
Do. A.—Revision of the Echini with Plates and Text	2
Do. A.—Selections from Embryological Monographs (Echinodermata), Vol. 9, No. 2	1
Airy, G. B.—On Sound and Atmospheric Vibrations, 2nd edition, 1871	1
Aldis, W. S.—An Elementary Treatise on Geometrical Optics, 3rd edition, 1888	1
Anderson, Sir J.—The Strength of Materials and Structures (Text-books of Science series), 9th edition, 1887	1
Atkinson, E. A.—Treatise on Electricity and Magnetism, 1883	2
Atkins, J.—Coins and Tokens of the British Possessions and Colonies	1
Ball, R. S.—Experimental Mechanics, 2nd edition, 1888	1
Ball, V.—Tavernier's Travels in India, Vols. 1 and 2, 2nd edition, 1889	2
Besant, W. H. —Elementary Hydrostatics, 14th edition, 1890	1
Cambridge, Rev. O. P.—On Ceylon Spiders (incomplete)	1
Clausius, R.—The Mechanical Theory of Heat, 1879	1

	Volumes.
Cotterill, J. H.—Applied Mechanics, 1890	1
Cumming, L.—An Introduction to the Theory of Electricity, 3rd edition, 1885	1
Daniell, A. A.—Text-book of the Principles of Physics, 2nd edition, 1885	1
Darwin, Charles.—The Structure and Distribution of Coral Reefs, 3rd edition, 1889	1
Decandolle, A. et C.—Monographiæ Phanerogamarum, 6th vol. 1889	1
De Gubernatis, A.—Peregrinazioni Indiane India Meridionale E. Seilan	1
Doleschall, C. L.—Tweede Bijadrage Arachniden	1
Donkin, W. F.—Acoustics, Part I (Theoretical), 2nd edition, 1884	1
Drury, C. H.—Reminiscences of Life and Sport in Southern India	1
Encyclopædia Britannica (index volume)	1
Encyclopædic Dictionary, Vol. 4, Parts 1 and 2; Vol. 5, Parts 1 and 2; Vols. 6 and 7	6
Everett, J. D.—Units and Physical Constants, 2nd edition, 1886	1
Faraday, M.—Experimental Researches in Electricity (1839—55), Optics	3
Fourier, J.—The Analytical Theory of Heat, 1878	1
Garnett, W. A.—Treatise on Elementary Dynamics, 5th edition, 1889	1
Do.—An Elementary Treatise on Heat, 5th edition, 1889	1
Geddes, P., and Thompson, J. A.—Evolution of Sex	1
Glazebrook, R. T.—(Text-book of Science series), Physical Optics, 2nd edition, 1886	1
Do. R. T., and Shaw, W. N.—(Text-books of Science series), Practical Physics, 3rd edition, 1889	1
Gray, A.—The Theory and Practice of Absolute Measurements in Electricity and Magnetism, 1888	1
Greaves, J. A.—Treatise on Elementary Statics, 2nd edition, 1888	1
Heath, R. S. A.—Treatise on Geometrical Optics, 1887	1
Heller, C.—Reise Der O'sterreichischen Fregatte Novara Um Die Erde	1
Helmholtz, H. L. F.—On the Sensations of Tone, 2nd edition, 1885	1
Herschell, F. W.—Manual of Scientific Inquiry, 5th edition	1
Hill, J.—Horti Malabarici	1
Jenkin, F.—Electricity and Magnetism (Text-books of Science series), 9th edition, 1887.	1
Joule, J. P.—Scientific Papers, 1884—87	2
Kohlrausch, F.—An Introduction to Physical Measurements, 2nd edition, 1883	1
Larden, W.—Electricity for Public Schools and Colleges, 2nd edition, 1889	1
Lendenfeld, R. V. A.—Monograph of the Horny Sponges	1
Lock, Rev. J. B.—Dynamics for Beginners, 2nd edition, 1888	1
Lodge, O. I.—Modern Views of Electricity (Nature series), 1889	1
Lucas, H.—Essai sur une Monographie du genre Thelyphone	1
Maxwell, J. C.—The Electrical Researches of the Hon'ble Henry Cavendish, F.R.S., 1879	1
Do. An Elementary Treatise on Electricity, 2nd edition, 1888	1
Do. Matter and Motion (Manuals of Elementary Science series), 1888	1
Do. Theory of Heat (Text-books of Science series), 9th edition, 1888	1
Mayer, A. M., and Barnard, C.—Light (Nature series), 1889	1
Rankine, W. J. M.—Miscellaneous scientific papers, 1881	1
Rayleigh, J. W. S. B.—The Theory of Sound, 1887-88	2
Ray Lankester, E.—On Scorpions (incomplete)	1
Rodrigues, E. A.—The Hindu Pantheon, Vol. 1, Nos. 20 to 24 and 28 to 35, 1845	13
Rosenbusch, K.—Microscopical Physiography of the Rock-making Minerals, 1888	1
Sanderson, F. W.—Hydrostatics for Beginners, 1889	1
Sarasin, P. and F.—Forschungen auf Ceylon, Vol. 2, Part 3, 1889	1
Siemens, C. W.—Heat and Metallurgy, 1889	1
Do. C. W.—On Electricity and Miscellaneous, 1889	1
Do. C. W.—Addresses and Lectures, 1889	1
Stevenson, S. M.—Dictionary of Roman Coins	1
Stewart, Balfour.—An Elementary Treatise on Heat, 5th edition, 1888	1
Do. Lessons in Elementary Physics, new and enlarged edition, 1888	1
Stewart, B., and Gee, W. W. H.—Lessons in Elementary Practical Physics, 1889	2
Stokes, G. G.—On Light (Nature series), 1887	1
Do. G. G.—Mathematical and Physical Papers, 1880—83	2
Stone, W. H.—Elementary Lessons on Sound, 1879	1
Streeter, E. W.—Precious Stones and Gems, 4th edition, 1884	1
Tait, P. G.—Lectures on some recent advances in Physical Science, 3rd edition, 1885	1
Do. Do. do. in Heat, 1884	1
Do. Do. do. in Light, 2nd edition, 1889	1
Do. Do. do. in Properties of Matter, 1885	1
Taylor, R.—Scientific Memoirs, 1837—53	7
Thompson, S. P.—Elementary Lessons in Electricity and Magnetism, 1889	1
Do. J. J.—Applications of Dynamics to Physics and Chemistry, 1888	1
Do. S. P.—Dynamo-Electric Machinery 1884	1

	Volumes.
Thomson, Sir W.—Popular Lectures and Addresses, 1st vol., Constitution of Matter, 1889	1
Do. Sir W.—Reprint of Papers on Electrostatics and Magnetism, 2nd edition, 1884	1
Do. Mathematical and Physical Papers, 1882	2
Do. Sir W., and Tait, P. G.—Treatise on Natural Philosophy, Vol. 1, Parts 1 and 2, new edition, 1883	2
Tufnell, R. H. C.—Hints to Coin-collectors in Southern India	1
Tyndall, J.—Sound, 4th edition, 1883	1
Wallace, A. R.—Darwinism—an Exposition of the Theory of Natural Selection, 1889.	1
Ward, H. M.—Timber and some of its Diseases (Nature series), 1889	1
Wiedemann, G.—Elektricitat, 1882—87	5
Wright, L.—Light, 1882	1

D-2.

By Purchase (Periodicals).

American Naturalist—Nos. 1 to 8, for 1889.
Annales des Sciences Naturelles (Botanique)—Vols. 9 and 10, for 1889.
Do. do. (Zoology)—Vol. 7, Nos. 1 to 6; Vol. 8, Nos. 1 to 3, for 1889.
Annals and Magazine of Natural History—Nos 16 to 24, for 1889; Nos. 25 and 26, for 1890.
Annales de la Société Entomologique de France—No. 4, for 1888.
Annual Register—2 vols., for 1887-88.
Asian—Nos. 275 to 299, for 1889-90.
Asylum Press Almanac, for the year 1890.
British Association for the advancement of Science—Report of the—4 vols., from 1885 to 1888.
Entomological Society of London—Transactions of the—Parts 1 to 5, for 1889.
Geological Society—Quarterly Journal of the—Nos. 178 to 180, for 1889, and No. 181, for 1890.
Ibis—A Quarterly Journal of Ornithology—Vol. 1, Nos. 2 to 4 for 1888; Vol. 2, No. 1, for 1890.
Illustrated London News—Vol. 95 for 1889; Vol. 96, Nos. 2646 to 2655, for 1890.
Indian Agriculturist—Vol. 14, Nos. 9 to 52, for 1889; Vol. 15, Nos. 1 to 12, for 1890.
Indian Forester—Vol. 15, Nos. 1 to 12, for 1889.
Journal de Conchyliologie—Vol. 37, Nos. 1 to 3, for 1889.
Kobelt, W.—Iconographie der Schalentragenden Europaischen Meeresconchylien—Hefts, 8, 9 and 10.
Linnean Society (Botany)—Journal of the—Vol. 25, Nos. 170 to 172; Vol. 26, No. 173.
Do. (Zoology)—Journal of the—Vol. 20, Nos. 122 and 123; Vol. 21, Nos. 131 to 135; Vol. 23, Nos. 141 to 144.
Linnean Society (Zoology)—Transactions of the—Vol. 5, Part 3.
London Times (Weekly edition)—Nos. 637 to 688, for 1889-90.
Martens, E.—Conchologische Mittheilungen—Hefts 1 and 2.
Moscow, Bulletin de la Société Imperiale de—Vol. 63, No. 4 for 1887; Vol. 64, Nos. 1 to 4, for 1888; Vol. 65, No. 1, for 1889.
Nature—Nos. 1013 to 1062, Vols. 40 and 41, for 1889-90.
Nouvelles Archives du Museum d'Histoire Naturelle—Nos. 1 and 2, for 1889.
Royal Asiatic Society of Great Britain and Ireland, Journal of the—Vol. 20, Part 4, for 1888; Vol. 21, Parts 1 to 4, for 1889.
Royal Society, Philosophical Transactions of the—Vols. 2, A and B, for 1888.
Semper, C.—Reisen im Archipel der Philippinen, zweiter Theil Nudibranchien Von Meere Der Insel Mauritius—Heft. 16, No. 1, for 1889.
Tropical Agriculturist—Vol. 8, Nos. 7 to 12, for 1889; Vol. 9, Nos. 1 to 8, for 1890.
Zoological Society of London, Proceedings of the—No. 4, for 1888; Nos. 1 to 3, for 1889.

D-3.

By Gift (Standard Works).

	Volumes.
Archæological Drawings, Selected Plates of (Technical Art series), Nos. 16 to 19 and 24, each 2 copies	10
Army Regulations (India), Vol. 1, Part 1, Pay and Non-effective Pay, British Troops...	1
Do. do. Vol. 1, Part 2, Pay and Non-effective Pay, Native Troops.	1
Atkinson, E. T.—Catalogue, Nos. 1 and 2, of the Insecta of the Oriental Region in the Indian Museum, Calcutta	2
Barberis, T.—Cinque Anni in Birmania	1

	Volumes.
Barrow, W. B.—Bulletin, No. 1, United State Department of Agriculture—the English Sparrow in North America	2
Bashyacharya, N.—The Age of Patangali (the Adyar Library series, 1889)	1
Bell, G.—Complete Catalogue of Books, including Bohn's Libraries	1
Blumhardt, J. F.—Catalogue of Hindustani printed Books in the British Museum Library	1
Boulenger, G. A.—Catalogue of the Chelonians in the British Museum, 1889	1
Buddhist Sculptures in the Lahore Museum—Descriptive List of Photographic Negatives of	1
Bulletin, No. 1, of 1889-90, Agricultural Department, Madras.—Essays on Viticulture and Fruitculture in California	5
Bulletin, No. 2, of 1889-90, Agricultural Department, Madras.—Papers relating to the Tobacco Parasite "Bodu" or *Orobanche nicotiana*	1
Bulletin, No. 3, of 1889-90.—Forecast of the Outturn of Early-sown Crops in Madras.	1
Do. No. 4, of 1889-90.—Report on the Native Method of cultivating and curing Tobaccos pursued by the Ryots in the Madura District	1
Bulletin, No. 5, of 1889-90.—Report on the Sowings of Late Crops	1
Do. No. 6, of do. —South Indian Fodders	1
Do. No. 7, of do. —Forecast of the Outturn of Late-sown Crops in Madras	1
Burgess, J.—Archæological Survey of Southern India, No. 3—Notes on the Amrâvati Stupa	1
Butler, A. G.—Illustrations of Typical Specimens of *Lepidoptera heterocera* in the British Museum, Part 7	1
Calendar of the Medical College, Madras, for 1889-90	1
Catalogue of the Sanskrit Manuscripts in the Library of the India Office, Part 2	1
Challenger, H. M. S.—Report on the Scientific Results of the Exploring Voyage of the—(Physics and Chemistry), 2nd vol.	1
Challenger, H. M. S.—Report on the Scientific Results of the—(Zoology), Vols. 29 to 32, with plates	7
Chapman, R. L.—Catalogue of the Books in the Library of the Indian Museum, Calcutta	1
Civil Service Regulations, for 1889	1
Cotes, E. C.—Catalogue of the Moths of India, Parts 6 and 7	2
Do. Note on Locusts in India	1
Do. Notes on Indian Economic Entomology, Vol. 1, No. 2	1
Do. Notes on Indian Insect Pests, Vol. 1, No. 1	1
Day, F.—Fauna of British India, Ceylon, and Burma Fishes, Vols. 1 and 2	2
Distant, W. L.—A Monograph of Oriental Cicadidæ, Parts 1 and 2	2
Dulau and Co.—Catalogue of Zoological and Anthropological Books	1
Foord, A. H.—Catalogue of the Fossil Cephalopoda in the British Museum, Part 1, 1888	1
Grierson, G. A.—The Modern Vernacular Literature of Hindustan	1
India Office List, for 1889	1
Kew Gardens, Bulletin of, Miscellaneous Informations, 1889	1
Kiash, K. W.—Ancient Persian Sculptures	1
King, W.—Provisional Index of the Local Distribution of Important Minerals and Stones in the Indian Empire, Part 1	1
Königliche Munzkabinet, Friedlaender, J., and Von Sallet A	1
Lendenfeld, R.—Descriptive Catalogue of the Sponges in the Australian Museum, Sydney.	1
Lewis, T. R.—Physiological and Pathological Researches	1
Lord How Island.—The Australian Museum, Sydney—Memoirs, No. 2	1
Lucknow Provincial Museum—Minutes of the Managing Committee, Vol. 1, of 1883—88.	1
Lydekker, R.—Catalogue of the Fossil Reptilia and Amphibia in the British Museum, Part 2, 1889	1
Merriam, C. H.—North American Fauna, Nos. 1 and 2	2
Milwaukee, Seventh Annual Report of the Board of Trustees of the Public Museum of 1888-89	1
Peekham, G. W.—Observations on Sexual Selection in Spiders of the Family *Attidæ*, Vol. 1	1
Photographic Negatives of Ancient Buildings and Antiquities of the Bombay Presidency, List of	5
Photographic Negatives of the Paintings copied from the Ajanta Caves between 1872—1885, List of	5
Photographic Negatives of Monumental Antiquities in the North-Western Provinces and Oudh, List of	5
Ramsay, E. P.—Tabular List of all the Australian Birds at present known to the Author	2

	Volumes.
Rogers, A. G.—Experimental Researches in the Reduction of the Difficult Reducible Metals	1
Sewell, R.—South Indian Chronological Tables	1
Sharpe, R. R.—Calendar of Wills proved and enrolled in the Court of Husting, London, A.D. 1258—1688	1
Simpson, B.—Scientific Memoirs by Medical officers of the Army of India, Part 4, 1889.	1
Smithsonian Report for the year 1886, Part 1	1
Statistical Atlas of the Bombay Presidency, 1882	2
Sterndale, R. A.—Notes on the Horns of the Indian and Central Asian Ruminantia	2
Theobald, W.—Index to the Genera and Species of Mollusca in the Indian Museum, Parts 1 and 2	2
Thomas, O.—Catalogue of the Marsupialia and Monotremata in the British Museum, 1888.	1
Trübner's Record for 1889, Vol. 1, Part 2, No. 224	1
Tuffnell, R. H. C.—Catalogue of Mysore Coins in the collection of the Government Museum, Bangalore	1
Ulrich, E. O.—Geological and Natural History Survey of Canada—Contributions to the Micro-palæontology of the Cambro-Silurian Rocks of Canada, Part 2	1
Watt, G.—Notes on Indian Economic Products, Vol. 2, Part 1, No. 2, for 1889-90	2
Do. G.—A Dictionary of Economic Products of India	2
Webster's English and Tamil Dictionary, 3rd edition	1
Whiteaves, J. F.—Contributions to Canadian Palæontology, Vol. 1, Part 2	1
Williams, M. M.—Buddhism	1
Wilson, W. J.—History of the Madras Army, with map, Vol. 5	1
Wood Manufactures in the Punjab-Monograph on, 1887-88	1
Wood-Mason, J.—A Catalogue of the Mantodea	1
Do. Ethiopian and Oriental Representatives of the Mantodean sub-family Vatidæ	1
Woodward, A. S.—Catalogue of Fossil Fishes in the British Museum, Part 1, 1889	1

D-4.

By Gift (Periodicals).

Asiatic Society of Bengal—Proceedings of the, August to December 1888, January to August 1889.
Do. Journal of the, Vol. 57, Part 2, No. 4 for 1888; Vol. 58, Part 1, No. 1, for 1889; Part 2, Nos. 1 to 3 for 1889.
Bombay Branch of the Royal Asiatic Society—Journal of the, Vol. 17, Part 2, No. 47, for 1889.
Ephigraphia Indica and Record of the Archæological Survey of India, Parts 1 to 4, for 1888-89.
Fort St. George Gazette, Nos. 13 to 50 for 1889; Nos. 1 to 12 for 1890.
Gazette of India, Nos. 14 to 52 (Incomplete).
Geological Survey of India—Memoirs of the Palæontologia Indica Salt Range Fossils, series 13, Vol. 4, Part 1.
Geological Survey of India—Records of the, Vol. 22, Nos. 1 to 4, for 1889.
Indian Antiquary, Vol. 17, Parts 3 to 12, for 1888; Vol. 18, Parts 1 to 10, for 1889.
Indian Art, Journal of, Nos. 26 to 29, for Vol. 3.
Madras Journal of Medical Science, Vols. 1 to 12, 1860—68; 12 vols.
Do. do. Vols. 1 to 7, 1870 to 1873; 7 vols.
Do. do. Second series, 1 vol., 1869.
Oesterreichische Monatsschrift für den Orient, Nos. 1, 7 and 8, for 1887; Nos. 3 to 9 and 11, for 1888; Nos. 3, 7, 9 and 11, for 1889.
Quarterly Journal of Veterinary Science in India, Nos. 25 to 28, for 1889.
Statement of Imports and Exports for the Port of Madras, Nos. 1 to 12 for 1889.
The Open Court—a Weekly Journal, Vol. 3, Nos. 5 to 52; Nos. 83 to 130.
The Pandit—a Monthly Publication devoted to Sanscrit Literature, Nos. 1 to 12 for 1889.

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Reports.

	Volumes.
Administration Report on the Jails of Bengal for 1888	1
Annual Administration Report, Bombay Jails, for 1888	1
Annual Administration Report of the Forest Department for 1887-88 and 1888-89	2
Annual Administration Report of Prisons in the Province of Coorg for 1888	1
Annual List of the Establishments in the Revenue Department of the Madras Presidency for 1889	1
Annual Report and List of Accessions, Indian Museum, Calcutta, for 1887—1889	5
Annual Report of the Department of Land Records and Agriculture, Assam, for 1888-89	1

	Volumes.
Annual Report of the Department of Land Records and Agriculture, Bengal, for 1889.	1
Annual Report of the Director of Land Records and Agriculture, Assam, for 1888-89.	2
Annual Report of the Geological Survey of India and of the Geological Museum, Calcutta, for 1888	1
Annual Report of the Government Experimental Farm, Hydrabad, Sind, for 1889	2
Annual Report of the Kandesh Experimental Farm for 1889	2
Annual Report of the Queensland Museum for 1889	1
Annual Report of the Rail-borne Traffic of the North-Western Provinces and Oudh for 1889	2
Annual Report of the Royal Botanic Garden, Calcutta, for 1888-89	2
Annual Report on the Foreign Trade of the North-Western Provinces and Oudh for 1889	1
Annual Report on the Government Cinchona Plantation and Factory in Bengal for 1888-89	2
Annual Report on the Jails of the Hyderabad Assigned Districts for 1888	1
Annual Report on the Lunatic Asylums in the Madras Presidency for 1888	1
Annual Report with Tabular Statements on the Condition and the Management of the Jails, North-West Provinces and Oudh, for 1889	1
Annual Returns of the Civil Hospitals and Dispensaries in the Madras Presidency for 1888	1
Annual Tables of Statistics for the Tracts under Supplementary Survey in Burma, 1889.	2
Annual Volume of the Sea-borne Trade and Navigations of the Madras Presidency for 1888-89	1
Catalogue of Books in the Revenue Secretariat Library for 1889	2
Civil Budget Estimate of the Government of Madras for 1889-90	1
Civil Justice Report of Lower Burma for 1888	1
Civil Statements of the North-Western Provinces with Prefatory Note for 1888	1
Criminal Justice Report of Lower Burma for 1888	1
Criminal Statements of the North-Western Provinces with Prefatory Note for 1888	1
Crop Experiments, Bombay Presidency, for 1888-89	2
Districts' Officers Report on the Rice-crop Prospects of Lower Burma for 1889-90	1
Final Report on Wheat Crop in Bengal for 1888-89	2
Food Supply in Burma for 1889-90	5
Indian Meteorological Memoirs, Vol. 4, Part 4, for 1889	1
Madras Land Revenue Reports for 1886-87 and 1887-88	2
Note on the Cotton Crop of the Punjab for 1889-90	2
Note on the Forecast of the Outturn of the Wheat Crop in Bengal for 1889	1
Note on the Oil-seed Crop of the Punjab for 1889	1
Note on the Rainfall and Character of the Season of Lower Burma for 1888-89	2
Note on the Wheat Crop of the Punjab for 1888-89	2
Report of the Australian Museum, New South Wales, for 1889	1
Report on the Administration of Civil Justice in Oudh for 1889	1
Report on the Administration of Civil Justice in Punjab and its Dependencies for 1888.	1
Report on the Administration of Criminal Justice in Oudh for 1888	1
Report on the Administration of Criminal Justice in Punjab and its Dependencies for 1887	1
Report on the Administration of the Department of Salt Revenue in the Madras Presidency for 1888-89	1
Report on the Administration of the Madras Presidency for 1888-89	1
Report on the Administration of the Meteorological Department of the Government of India for 1888-89	1
Report on the Agricultural and Industrial Exhibition held at Mysore in 1888	1
Report on Arboriculture in the Hyderabad Assigned Districts for 1888-89	2
Report on the Cawnpore Experimental Station for the Karif and Rabi Season for 1888-89.	2
Report on the Civil Justice in the Hyderabad Assigned Districts for 1888	1
Report on the Cereal Plantation at Mergui for 1887-88	4
Report on Criminal Justice in the Hyderabad Assigned Districts for 1888	1
Report on the Department of Land Records and Agriculture, Burma, for 1888-89	1
Report on the Experimental Plantation at Mergui for 1888-89	2
Report on the External Trade of Bengal with Nepal, Tibet, Sikkim and Bhutan for 1888-89	1
Report on the Government Agri-Horticultural Gardens, Lahore, for 1889	1
Report on the Horticultural Gardens, Lucknow, for 1889	2
Report on the Jail Administration of the Province of Assam for 1888	1
Report on the Jails of the Central Provinces for 1888	1
Report on the Jails of the Punjab for 1888	1
Report on the Judicial Administration (Civil) of the Central Provinces for 1888	1
Report on the Judicial Administration (Criminal) of the Central Provinces for 1888	1

	Volumes.
Report on the Kolar Gold Field and its Southern Extension with maps and sketches for 1889	1
Report on the Land Revenue Administration of the Punjab for 1887-88	1
Report on the Mysore Government Museum for 1887-88	1
Report on the Nagpur Experimental Farm in the Central Provinces for 1888-89	2
Report on the Operations of the Agricultural Department, Madras Presidency, for 1887-88	1
Report on the Operations of the Department of Land Records and Agriculture, North-West Provinces and Oudh for 1888	2
Report on the Prison Administration of Burma for 1888	1
Report on the Provincial Museum, Lucknow, for 1889	1
Report on the Revenue Administration of Burma for 1888-89	3
Report on the River-borne Traffic of the Lower Provinces of Bengal for 1888-89	1
Resolution of the Financial Department, Calcutta, for 1889	1
Resolution on the Management by Government of Private Estates in the Central Provinces for 1888	1
Resolution on the Revenue Administration of the Central Provinces for 1887-88	3
Returns of Agricultural Statistics of British India for 1887-88	1
Returns of the Rail-borne Trade of the Central Provinces for 1889	3
Returns of the Rail-borne Traffic of the Central Provinces for 1888-89	2
Review of the Revenue Administration of the Province of Oudh for 1888	1
Statement showing Quantities and Values of Important Minerals produced in each British Province and Native State of India for 1888	1
Statement showing Quantities and Values of Important Minerals produced in the Native State of Baroda for 1888	1
Statement showing the Total Trade of Bengal for 1888	1

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Patent office papers.

Abridgments of Patents, Acids, Alkalies, Oxides and Salts, Divisions 2 and 3, Part 2, A.D. 1867—1876	2
Abridgments of Patents, Bleaching, Dyeing and Printing Calico and other Fabrics and Yarns, A.D. 1877—1883	1
Abridgments of Patents, Wearing Apparel, Division 3, Foot Coverings, A.D. 1877—1883	1
Abridgments of Patents, Wearing Apparel, Division 1, Head Covering, A.D. 1877—1883	1
Digest of the Reports of Patent Design and Trade-mark Cases, Vols. 3 and 4	2
Digest of the Report of Patent Cases, Vols. 1 and 2	2
Illustrated Journal of the Patent Office, Nos. 134 to 146, 148, 150 to 195, 197, 198, 200 to 202	64
Illustrated Journal of the Patent Office, Index of Names, Vols. 1 to 4 for 1884-85	2
Illustrated Journal of the Patent Office, Index of the Subjects, Vols. 1 to 6 for 1884—86	5
Illustrated Official Journal (Patents), Nos. 1, 2 and 4 to 61	60
Index to the Official Journal of the Patent Office, Vols. 3, 5, 6, 7, 8, 9 and 10 for 1885—88	7
Index to the Reports of Patent Design and Trade-mark Cases, Vols. 4 and 5 for 1887-88	2
Name and Index of Applicants for Patents of Inventions from January to November 1888	5
Official Journal of the Patent Office, Nos. 385 to 388, 391 to 404, 409, 410, 413, 414 417 to 462 and 464 to 469	74
Patents for Inventions, Specifications and Drawings, Vols. 27 to 91 for 1887 and Vols. 1 to 37 and 40 for 1888	103
Reports of Patent Design and Trade-mark Cases, Vol. 4, Nos. 14 to 18 and 20 for 1887; Vol. 5, Nos. 1 to 23 for 1888	29
Subject-matter Index of Complete Specifications advertised as accepted in the Official Journal for A.D. 1881	1
Subject-matter Index of Complete Specifications advertised as accepted in the Official Journal, Nos. 1 to 12 for A.D. 1889	6

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Blue Books.

East India (Abkári Department), 1889	1
Do. (Accounts and Estimates), 1889-90	1

	Volumes.
East India (Assam Coolies), 1889	1
Do. (Bombay Burma Trading Corporation)	1
Do. (Cooper's Hill College), 1889	1
Do. (Distress at Ganjam), 1889	1
Do. (Erratum for Moral and Material Progress and Condition of India), 1886-87.	1
Do. (Estimate of Revenue and Expenditure of the Government of India), 1888-89.	1
Do. (Factory Act), 1889	1
Do. (Famine Insurance), 1889	1
Do. (Home Accounts) of the Government of India, 1889	1
Do. (Hyderabad Deccan Mining Company), 1888	1
Do. (Loans raised in England), 1889	1
Do. (Loans raised in India), 1889	1
Do. (Plate Duties), 1888	1
Do. (Progress and Condition), 1887-88	1
Do. (Public Works Department), 1888	1
Do. (Reports on Impurities in Indian Wheats), 1888-89	1
Do. (Return—Factory Act), 1889	1
Do. (Return—Financial Statement), 1889-90	1
Do. (Testing of Arms)	1
Do. (Uncovenanted Service), 1889	1
India (Emigration), 1889	1
Indian Administration during the thirty years, 1889	1
Report of Inspectors of Irish Fisheries on the Sea and Inland Fisheries of Ireland, 1889	1
Report on Inquiries held by the Inspectors of Irish Fisheries	1
Report on Sanitary Measures in India in 1887-88, together with miscellaneous information to June 1889, Vol. 21	1
Report of the Committee appointed to inquire into the Pay, Status and Condition of of Service of Medical Officers of the Army and Navy, 1889	1
Report of the Proceedings of the Conference on Indian Wheat Impurities	1
Report of the Royal Commission on the Blind, the Deaf and Dumb, &c., in the United Kingdom	4
Scottish Mussel and Bait Beds—Report of the Committee with Evidence, &c.	1
Sea Fisheries (England and Wales)—Third Annual Report of the Inspector, 1888	1
Sea Fisheries (Regulation Act), 1888	1
Sea Fisheries of the United Kingdom, 1889	1
Seventh Annual Report of the Fishery Board of Scotland, Parts 1 and 3, 1888	2
Siam No. 1—Extract from a Journal, 1889	1
Statement of the Trade of British India with British Possessions and Foreign Countries for the five years (1883 to 1888)	1
Statistical Abstract relating to British India from 1878 to 1888	1
Trade of India and the Colonies, 1889	1
Twenty-eighth Annual Report of Inspectors (England and Wales), 1888	1
University for London Commission—Minutes of Evidence, &c., taken before the Commissioners	1

D-8.

Trübner's Oriental Series.

Anderson.—English Intercourse with Siam in the Seventeenth Century	1

D-9.

Record Publications from the Master of the Rolls.

Calendar of State Papers, Domestic series, 1644, by W. D. Hamilton	1
Calendar of the Proceedings of the Committee for Advance of Money, 1642—56, Parts 1—3, by M.A.E. Green	3
Chronica Rogeri DeWendover, 2nd vol., by H. G. Hewltt	1
Chronicles by John DeWavrin, 1399—1422	1
Gaimar Lestori des Engles, 1st vol., by T.D. Hardy	1
Letters and Papers, Foreign and Domestic, Henry VIII, Vol. XI, 1536, by J. Gairdner.	1
Literæ Cantuarienses, Vol. 2, by J. B. Sheppard	1
Tripartite Life of St. Patrick, Vols. 1 and 2, by W. Stokes	2
Willelmi Malmesbirienses Monachi DeGestis Regum Anglorum, 1st vol., by W. Stubbs.	1
Year Book, 14 Edward III, by L. O. Pike	1

E.

CLASSIFIED List of Expenditure of the Government Central Museum during the year 1889-90.

No. 1889-90.		Actuals, 1889-90.	Revised estimate, 1889-90.
		RS.	RS.
1	Superintendent, Rs. 500—50—800	8,000	8,000
4	between Rs. 50 and 200—		
	One curator at Rs. 150 per mensem	3,620	4,296
	„ head taxidermist at Rs. 60 per mensem		
	„ herbarium-keeper at Rs. 50 per mensem		
	„ draughtsman at Rs. 50 per mensem		
5	below Rs. 50—		
	One assistant curator at Rs. 48 per mensem	1,752	1,176
	„ writer at Rs. 30 per mensem		
	„ second taxidermist at Rs. 26 per mensem		
	„ librarian at Rs. 25 per mensem		
	„ third taxidermist at Rs. 17 per mensem		
4	servants—		
	„ printer at Rs. 14-8-0 per mensem	621	612
	„ head humál at Rs. 12-8-0 per mensem		
	„ man in charge of Superintendent's room at Rs. 12 per mensem		
	„ assistant librarian at Rs. 12 per mensem		
	Total, Establishment	5,993	6,084
	Travelling allowance	672	1,000
	Supplies and Services.		
	Cost of specimens	1,000	1,000
	Preparation of fittings, furniture, &c.	2,857	3,000
	Total, Supplies and services	3,857	4,000
	Cost of books and publications	1,789	1,800
	Contingencies.		
	Purchase and repair of furniture	200	200
	Binding books and lithographing plates	1,007	800
	Rents, rates and taxes	1,080	1,080
	Postal charges, telegram charges, office expenses and miscellaneous	4,281	4,254
	Total, Contingencies	6,568	6,334
	Grand Total	26,879	27,218

GOVERNMENT CENTRAL MUSEUM,
EGMORE,
Madras, 10th July 1890.

(Signed) EDGAR THURSTON,
Supdt., Govt. Central Museum.

ORDER—dated 15th August 1890, No. 660, Revenue.

Miscellaneous.

With his letter read above, the Superintendent, Government Central Museum, submits an interesting report on the working of the Museum during the year 1889-90, which shows that considerable progress has been made, especially in the Natural History section. The Government is glad to learn that an index collection, modelled on that of the British Museum, is in preparation.

2. There was again an increase in the number of visitors to the Museum, and it is especially satisfactory to notice that these included more gosha ladies than in the preceding year.

3. The expenditure during the year amounted to Rs. 26,879 as compared with Rs. 26,350 during 1888-89; the excess of Rs. 529 was due to the incremental increase in the salary of the Superintendent.

4. In conclusion, His Excellency the Governor in Council desires to tender his thanks to the various ladies and gentlemen who sent contributions to the Museum.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Superintendent, Government Cent[illegible]seum.
„ the Government Botanist.
„ the Commissioner of Revenue Settleme[illegible]and Records and Agriculture.
„ the Surgeon-General with the Goverum[illegible]t of Madras.

No. 660A.

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

(Signed) C. A. GALTON,
Secretary to Government.

Exd. A. Aubert.

280 Copies.

P. 43

Administration Report of the Government Central Museum for the year 1889-90.

1. Visitors to the Museum. The usual statistical returns of the number of visitors to the Museum during the year is given in Appendix C. The total number was 378,234 against 337,801 in 1888-9, being an increase of 40,433.

The number of Gosha visitors was 2,186 against 1,779 in 1888-9 being an increase of 407.

The following statement shows the number of visitors to the Museum during the last 5 years:—

1885—6	311,462
1886—7	283,028
1887—8	264,183
1888—9	337,801
1889—90	378,234

of some brass figures from Vizagapatam, and brass toys from Ganjam, were sent to the Journal of Indian Art in accordance with the orders of Government.

5. Tours. During the year I made three official tours, viz:— (1) to Pámban, where I was mainly engaged in examining the Sub-fossil upraised reef; (2) to Ceylon, where I accompanied Captain Donnan on his inspection of the pearl banks, (3) to the Nilgiris, where a large collection of birds, etc. was made. The results of the two first tours have been published in my Notes on Pearl and Chank-Fisheries, etc.

6. Botanical Department. The Herbarium-Keeper re-arranged the specimens of Natural Orders Urticaceæ—Orchideæ according to the Flora of British India, and prepared the S.I. catalogues of S. Indian pulses, spices and condiments. A collection of plants, ferns, and grasses was presented to the Museum by Dr. G. King, Superintendent of the Botanical Gardens, Calcutta, and a collection of woods, seeds, fibres, and articles made out of bamboo was presented by J. S. Gamble Esqre., Conservator of Forests. Specimens of Vanilla pods from plants raised in Pondicherry were received from Monsieur Achard, and a collection of brush-making materials from the Board of Revenue.

7. Art Gallery. Considerable progress was made with the arrangement of this section. Photographs of S. Indian Art ware were framed, and hung on the walls of the staircase leading to the gallery, the unsightly wire-doors of which were hidden by palempores. At the top of the staircase some

of

the year will be found in Appendix A

9. Mineralogy. The collection of minerals was labelled throughout; and, as it is arranged according to official Districts, it serves as a general Index to the mineral resources of the different parts of Southern India, including the Madras Presidency, Mysore, and Hyderabad.

A set of cubes of Soap-stone (Steatite) from the N. Arcot, Salem, Kurnool, Coimbatore, and Bellary Districts, and Malabar, was received from Government in illustration of a Report by Mr. Bowarth Smith, late Government Mineralogist.

A collection of household articles made of Soap-stone in the Salem and N. Arcot Districts was acquired by purchase, and exhibited; and a series of Specimens of mica and micaceous

micaceous Quartz from the Nizam's Dominions, presented by E. H. Sargent Esqre. were exhibited.

10. Ethnology and Antiquities. A collection of pieces of pottery and bones found in dolmens near Devanur in the Tirukoilur taluq, of the South Arcot District was forwarded to the Museum by the Sub-Collector, with a note to the effect that pottery and bones have been also found in a few other places near Devanur and in villages in the Tirunavanmalai taluk. A carved granite slab, with the old Danish arms, which apparently was at one time placed over a gateway, was received from Tranquebar through the Collector of Tanjore. From the archæological Department were received some Buddhist marble statues and slabs, and a large cylindrical stone relic casket from the Stupas of Guntupalle, a number of objects from Amrávati;

and

and three carved wooden door-posts and lintels from the temple at Lepakshi in the Anantapur District.

A Pallava grant, bought for Government by Dr. Hultzsch from the Dharmakarta of Kuram, a village near Kanchipuram, was deposited in the Museum. It is engraved on seven thin copper-plates in a bad state of preservation. A translation of it will be published in Dr. Hultzsch's forthcoming 'South Indian Inscriptions'.

11. An Index Collection. The commencement was made of an 'Index Collection' based on that of the British Museum Natural History, which, in its complete state, should teach the most important points in the structure of the principal types of animal and plant life, and the terms used in describing them[1]. The

1. General Guide to the British Museum, Nat. History,

series exhibited during the year illustrate by means of specimens, with descriptive labels, arranged in wall and table-cases, the outer covering or integument of mammals, and its modification into hair, nails, claws, hoofs, horns, antlers, etc. Other series are in course of preparation, illustrating the dentition and osteology of mammals, the external characters and osteology of Birds, the structure and forms of Shells, mimicry, etc. The exhibition of these series will, it is hoped, be of use both to those who are engaged in teaching and to Students in Madras, and bring the Museum more into touch with the Educational Department than it has been hitherto.

12. Natural History

a. Crustacea. The collections of Crustacea (Decapoda and Stomatopoda) made by me in the Gulf of Manaar were

were named by Mr. J. R. Henderson), whose report thereon is published in my 'Notes on Pearl fisheries, etc.'

b. Insecta - The following Lepidoptera (Rhopalocera) from the Nilgiris, Mysore, Ganjam, and Madras were added to the collection. The specimens caught within the limits of the City of Madras were arranged in a separate case. For many of the specimens the Museum is indebted to Lieut. E. G. Watson.

Family. Nymphalidæ

Danais limniace,	Cramer	Mysore,	Madras.
" Septentrionis,	Butler	Mysore,	Madras.
" chrysippus	Linné	Mysore,	Madras
" genutia	Cramer	Mysore,	Madras
Euploea core	Cramer	Mysore,	Madras
" crocides	Moore	Mysore,	Madras
Mycalesis mandasa	Butler	Mysore	
" Inicus	Linné	Mysore,	Madras
" perseus	Butler	Mysore	

Sk. p 35

Mycalesis visnetka,	Moore	Ganjam	
" Ypthima asterope	Klug	Mysore	
" huebneri,	Kirby	Ganjam	
" Cebrella,	Marshall	Nilgiris	
Melanitis leda	Linné	Mysore,	Madras
Elymnias undularis	Drury	Ganjam	
Telchinia violæ	Fabr.	Mysore,	Madras
Ergolis ariadne	Linné	Mysore,	Madras
Atella phalanta	Drury	Mysore,	Madras
Precis iphita	Cramer	Mysore,	Madras
Junonia asterie	Linné	Mysore,	Madras
" lemonias,	Linné	Mysore	
" hierta	Fabr	Mysore,	Madras
" orithyia	Linné	Mysore,	Madras
Neptis varmona	Moore	Mysore,	Madras
Hypolimnas bolina	Linné	Mysore,	Madras
" Inisippus	Linné	Mysore,	Madras
Athyma inahesa,	Moore	Nilgiris	
Sympædra nais	Forster	Mysore	
Euthalia garuda	Moore	Mysore	
Pyrameis cardui	Linné	Mysore.	

Family

Family. Lycaenidae

Spalgis epius. Westwood. Nilgiris
Curetis. sp. Mysore)
—"— thetys Drury Madras
Lycaenesthes pusper Horsfield Mysore)
Zizera Sangra Moore Mysore)
—"— Karsandra. Moore) Madras.
—"— gaika Trimen) Madras
Chilades trochilus Freyer) Nilgiris
Tarucus plinius. Fabricius. Mysore)
—"— Rara Kollar). Nilgiris
Castalius decidia Hewitsoni. Nilgiris
—"— rosimon Fabricius Madras.
Nacaduba macrophthalma. Felder. Nilgiris
—"— ardates Moore Nilgiris
Catochrysops Strabo. Fabricius. Madras
—"— enejus Fabricius Ganjam)
—"— contracta) Butler) Ganjam. Madras.
—"— pandava. Horsfield Madras
Lampides elianus. Fabricius Mysore. Madras.
—"— "— "— (form alexis).
Madras.

Caleada bryseus. Guerin. Mysore.
Rathinda amor Fabricius. Madras.
Deudorix epijarbas. Moore). Madras
Rapala melampus. Cramer. Madras
Virachola isocrates. Fabricius. Nilgiris.
Ganjam. Madras.
—"— perse). Hewitson). Nilgiris.
Aphnaeus trifurcata). Moore. Nilgiris
—"— elima Moore). Madras
Tajuria Longinus., Fabricius. Mysore

Family Papilionidae

Leptosia xiphia. Fabricius. Madras
Terias hecabe. Linné. Madras
—"— Form hecabeoides Mysore. Madras.
—"— "— exeavata Mysore)
—"— "— desiope Madras.
Catopsilia catilla. Cramer. Mysore. Madras.
—"— crocale. Cramer. Mysore. Madras.
—"— gnoma Fabricius. Mysore. Madras.
—"— pyranthe. Fabricius. Mysore. Madras

Ixias pyrene. Linné. Madras.
——" meridionalis. Stoinhac. Mysore. Madras
Hebomoia glaucippe. Linné. Mysore. Madras.
Callosune eucharis. Fabricius. Madras.
Form pseudevanthe. Butler. Madras
——" danaë. Fabricius. Madras
Idmais amata. Fabricius. Mysore. Madras.
Catophaga lankapura. Moore. Madras.
Aphias lilaea. Fabricius. Madras
Huphina phryne. Fabricius. Mysore, Madras
Belenois mesentina. Cramer. Mysore, Madras
Nepheronia ceylonica. Felder. Madras.
——" sp Mysore
Delias eucharis. Drury. Mysore. Madras.
——" thire Ganjam.
Papilio dissimilis Linné. Madras.
——" dravidarum. W. Mason. Nilgiris
——" hector. Linné Mysore. Madras.
——" aristolochiae. Fabricius. Mysore. Madras
——" erithonius. Cramer. Mysore. Madras
——" pammon. Linné. Mysore. Madras

Papilio polymnestor. Cramer. Mysore. Madras
——" nomius. Esper. Nilgiris
——" agamemnon. Linné Mysore. Madras.

Family Hesperiidae

Badamia exclamationis. Fabricius Madras
Ismene pelirius. Cramer. Nilgiris
Parata chromus. Cramer. Madras
Baracus Septentrionis. W. Mason. Nilgiris
Astictopterus subfasciatus. Moore Nilgiris
Pamara bada. Moore. Madras
Suastus gremius. Fabricius Nilgiris. Madras
Telicota bambusae. Moore Nilgiris. Madras
Padraona gola. Moore. Nilgiris
Ampittia maro. Fabricius. Nilgiris
Paractroera ceramas. Hewitson Nilgiris
Thamaos indistincta. Moore. Mysore.
Kalpa heluria. Hewitson Nilgiris
Pyrgus galba Fabricius Nilgiris
Odaspes folus Cramer Madras.

C.

An interesting note was published by Mr. Edgar A. Smith, in the Annals and Magazine of Natural History, on some shells, with the animals, which I collected at Tuticorin and sent to the British Museum, Natural History, and were identified by Mr. Smith as Lobiger viridis, L. & Fl. Nem. Cr. which has also been recorded from Ceylon.

e. Fishes. — The following Fishes, all, except Pterois miles from Pamban, obtained from the Madras Fish Market, were preserved during the year. — The specimens of Osphromenus olfax (Lowiramis) were obtained from one of the tanks in the grounds of Government House, Madras, where this fish, introduced some years ago, abounds.

Galeocerdo rayneri, Mc Donald & Barrow

Stegostoma tigrinum, (Gmel).

Muraenesox talabon, (Cuv)

Arius Sp.

Chirocentrus dorab, (Forsk).

Clupea ilisha, (Ham. Buch.)

Serranus salmoides, (Lacép)

Lutjanus marginatus (Cuv. & Val).

Pristipoma furcatum (Bl. Schn)

Diagramma griseum, (Cuv. & Val)

Ephippus orbis, (Bloch)

Pagrus spinifer, (Forsk)

Chrysophrys berda, (Forsk).

Scorpaena Sp.

Pterois miles, (Bennett)

Teuthis javus, Linn.

Acanthurus gahm, Cuv and Val

Caranx gallus (Linn)

Ophiocephalus striatus, Bloch.

Osphromenus olfax, Cuvier.

Leptoglossus Sp.

Ostracion cornutus. Linn

Du

In accordance with instructions received from Government I gave assistance to Mr Le Mesurier, of the Ceylon Civil Service, who was sent by the Ceylon Government to Madras, to collect young living specimens of Gouramis and Labeo, for introduction into the fresh waters of Ceylon.

Numerous specimens of salted Fishes were sent by the Salt Department, to the Museum for identification.

f. Amphibians and Reptiles.— A small collection of Amphibians and Reptiles from S. Malabar was presented to the Museum by Mr Rhodes Morgan of the Forest Department, and included the following species.—

Amphibia

Rana malabarica, (Blgr.)
Rhacophorus maculatus, Blgr
Ichthyophis glutinosus, Gray
Euracebyphlus oxyurus. Peters

Reptilia

Oligodon affinis. Günth.
Leptophis malabaricus. Jerd
Tropidonotus quincunciatus Schl.
——"—— Stolatus. Linn
——"—— Inornticola Jerd.
Dendrophis picetus, Günth
Passerita mycteriszans. Linn
——"—— purpurescens. Günth
Lycodon aulicus. Linn
Callophis corassicus. Bedd.
——"—— Sp.
Daboia russellii. Shaw
Trimeresurius anamallensis. Günth
Hypnale nepa. Laur

A small gallery between the main hall and bird gallery was utilised for

for the exhibition of some of the Crocodilia and Chelonia of Southern India, viz:—
a skeleton of Crocodilus porosus which was shot in the ditch of Fort Saint George, where it had been living for many years; stuffed specimens of Crocodilus porosus from Cuddalore. and Crocodilus palustris from Malabar; a skull of Crocodilus porosus; and a skeleton of the Edible Turtle. Chelone Mydas.

J. Birds. During my tour on the Nilgiri hills, which lasted from February 25th to March 25th, Shikarees were engaged in shooting birds in the neighbourhood of Ootacamund, Coonoor, Kotagiri, and the lower slopes of the Coonoor Ghât from Burliar to the base of the hills. The following list shows the species, which were collected and preserved:—

1. The numbers refer to Jerdon's Birds of India

a. Ootacamund

J 83 Hirundo domicola. Jerd. Nilgiri House Swallow
" 119 Merops Swinhoei, Hume. Chestnut headed Bee-eater
" 205 Hierococcyx varius. Vahl. Common Hawk-Cuckoo
" 257 Lanius erythronotus. Vig. Rufous backed Shrike
" 268 Campophaga Sykesi, Strick. Black-headed Cuckoo Shrike
" 279 Dicrurus annectens. Hodgs. Crow-billed Drongo
" 302 Stoparola albicaudata. Jerd. Nilgiri Verditer Flycatcher
" 342 Myiophonus horsfieldii, Vig. Malabar Whistling Thrush
" 353 Monticola cinclorhyncha Vig. Indian Rock-Thrush
" 360 Merula simillima. Jerd. Nilgiri Ouzel
" 404 Pomatorhinus horsfieldii. Sykes. Southern Scimitar Babbler
" 423 Trochalopterum cachinnans. Jerd. Nilgiri Laughing Thrush
" 444 Chloropsis malabarica. Lym. Malabar Chloropsis
" 467 Aegithina tiphia. Linn. Common Iora
" 473 Oriolus melanocephalus, Linn. Indian Black-headed Oriole
" 481 Pratincola caprata, Linn. White winged Black Robin
" 686 Aethiopsar fuscus. Wagl. Jungle Myna
" 701 Munia striata. Linn. White backed Munia

b. Kotagiri

" 6 Neophron ginginianus, Lath. Indian Scavenger Vulture

J 57 Pernis ptilorhynchus, Jerd. Crested & Honey Buzzard
" 234 Corvus asiaticus, Lath. Purple & Honey-Sucker
" 272 Pericrocotus flammeus. Forst. Orange Minivet
" 645 Parus atriceps. Horsf. Indian Grey Tit
" 768 Alauda Malabarica. Scop. Crested Malabar Lark
" 756. Palumbus elphinstonii, Sykes. Nilgiri Wood Pigeon
" 798 Chalcophaps indica, Linn. Emerald Ground Dove
" 813 Gallus Sonnerati. Tem. Grey. Jungle Fowl

C. Coracar and upper Ghats
of Coracar Ghat.

" 23 Astur badius. Lane. Shikra
" 54 Circus aeruginosus. Linn. Marsh Harrier
" 58 Circaetus Malabaricus. Blyth. Malabar Owlet
" 78 Glaucidium Malabaricum. Blyth. Malabar Owlet
" 85 Haliastur erythrogyga. Sykes. Red Backed Sea-Eagle
" 117 Accipiter virgatus. Linn. Common Indian Bee-hawk
" 119 " Sumatrae. Horsf. Chestnut thighed Bee-hawk
" 151 Falconinus columboides. Vig. Blue winged Parrakeet
" 175 Chrysophlegma chlorigaster. Jerd. S. yellow naped Woodpecker
" 180 Brachypternus aurantius Linn. Golden backed Woodpecker
" 195 Megalaima caniceps. Frank. Common Grey Barbet.

J 197 Xantholaema haemacephala. Müll. Crimson breasted Barbet.
" 214 Eudynamys honorata. Linn. Indian Koel
" 216 Rhopodytes viridirostris. Jerd. Small Green-billed Malkoha
" 217 Centrococcyx rufipennis. Ill. Common Lesser Coucal
" 267 Hemipus picatus. Sykes. Black-backed Red Shrike
" 268 Campephaga Sykesi. Strick. Black headed Cuckoo Shrike
" 272 Pericrocotus flammeus, Forst. Orange Minivet
" 279 Dicrurus annectens, Hodgs. Crow-billed Drongo
" 282 Chaptia aenea. Vieill. Bronzed Drongo
" 288 Terpsiphone paradisi, Linn. Paradise Flycatcher
" 290 Hypothymis azurea, Boddt. Black-naped Blue Flycatcher
" 302 Stoparola albicaudata. Jerd. Nilgiri Verditer Flycatcher
" 304 Siphia rubecculoides. Vig. Blue-throated Redbreast
" 339 Brachypteryx rufiventris. Blyth. Rufous-bellied Shortwing
" 342 Myiophonus horsfieldi. Vig. Malabar Whistling Thrush
" 351 Monticola cyanus, Linn. Blue Rock Thrush
" 353 " cinclorhynchus. Vig. Indian Rock Thrush
" 354 Geocichla cyanotus, Jerd. and Selb White-throated Ground Thrush
" 360 Merula simillima. Jerd. Nilgiri Ouzel

J 404 Pomatorhinus horsfieldii. Sykes. Southern Scimitar-Babbler

" 423 Trachopterum cachinnans. Jerd. Nilgiri Laughing Thrush

" 434 Crateropus canorus. Linn. Jungle Babbler

" 450 Iole icterica, Strick. Yellow-browed Bulbul.

" 460 Otocompsa fuscicaudata. Gould. Red-whiskered Bulbul

" 462 Molpastes haemorrhous. Linn. Madras Red-vented Bulbul

" 470 Oriolus kundoo. Sykes. Indian Oriole.

" 475 Copsychus saularis. Linn. Magpie Robin

" 592 Motacilla melanope. Pall. Grey and yellow Wagtail

" 631 Zosterops palpebrosa, Temm. Indian White-eye

" 645 Parus atriceps. Horsf. Indian Grey Tit

" 648 Machlolophus haplonotus, Blyth. Southern Yellow Tit

" 686 Æthiopsar fuscus. Wagl. Jungle Myna

" 755 Mirafra affinis. Jerd. Madras Bush Lark

" 795 Turtur suratensis. Gm. Spotted Dove

" 798. Chalcophaps indica, Linn. Emerald Ground Dove

" 813 Gallus Sonnerati, Temm. Grey Jungle Fowl

" 814 Galloperdix spadicea. Linn. Red Spur Fowl

" 828. Microperdix erythrorhynchus. Sykes. Painted Bush Quail

" 895 Totanus stagnatilis, Bechst. Little Greenshank

d. Lower Slopes of Coonoor Ghât

J. 56 Milvus govinda. Sykes. Pariah Kite

" 78 Lyncidium malabaricum, Blyth. Malabar owlet

" 117 Merops viridis, Linn. Common Indian Bee-eater

" 117 " " Swainsoni. Lesson. Chestnut-headed Bee-Eater

" 122 Nyctiornis athertoni. Jard and Selb. Blue-necked Bee-eater

" 127 Pelargopsis gurial, Pears. Brown-headed Kingfisher

" 129 Halcyon smyrnensis, Linn. White-breasted Kingfisher

" 134 Alcedo bengalensis, Gm. Common Indian Kingfisher

" 149 Palaeornis purpureus. Scopoli. Rose-headed Parrakeet

" 151 " " columboides Vig. Blue-winged Parrakeet

" 153 Loriculus vernalis. Sparrm. Indian Lorikeet

" 166 Chrysocolaptes Sultaneus, Hodgs. Golden-backed Woodpecker

" 175 Chrysophlegma chlorigaster. Jerd. S. Yellow-naped Woodpecker

" 181 Brachypternus punctifrons, Swain. S. Golden-backed Woodpecker.

" 193 Megalaema caniceps. Franks. Common Green Barbet

" 197 Xantholaema haemacephala, Scop. Crimson-breasted Barbet

" 207 Hierococcyx sparverioides. Vig. Large Hawk Cuckoo

" 214 Eudynamys honoratus, Linn. Indian Koel

" 216 Rhopodytes viridirostris. Jerd. Small Green-billed Malkoha

J 217 Centropus rufipennis Ill Common Coucal

" 232 Cinnyris zeylonica, Linn. Amethyst rumped Honey sucker

" 267 Hemipus picatus. Sykes. Black-backed Pied Shrike

" 272 Pericrocotus flammeus, Forst, Orange Minivet

" 276 " peregrinus, Linn. Small Minivet

" 279 Dicrurus annectens, Hodgs. Long tailed Drongo

" 285 Dissemurus paradiseus, Linn Larger Racket-tailed Drongo.

" 287 Artamus fuscus Vieill. Ashy Swallow Shrike

" 288 Terpsiphone paradisi, Linn Paradise Flycatcher

" 290 Hypothymis azurea. Bodd. Black-naped Blue Fly catcher

" 302 Stoporala albicaudata. Jerd. Nilgiri Verditer Flycatcher

" 305 Cyornis banyumas, Horsf. Horsfields Blue Redbreast

" 342 Myiophoneus horsfieldi. Vig. Malabar Whistling Thrush

" 353 Monticola cinclorhyncha, Vig. Blue Indian Rock Thrush

" 360 Merula simillima. Jerd. Nilgiri Ouzel

" 423 Trochalopterum cachinnans. Jerd. Nilgiri Laughing Thrush

" 450 Iole icterica, Strick. Yellow-browed Bulbul

" 457 Microsus phaeocephalus. Jerd. Grey-headed Bulbul

" 464 Chloropsis malabarica, Gmn. Malabar Chloropsis

J. 467. Aegithina tiphia. Linn. Common Iora

" 469 Irene puella, Lath. Fairy Blue-bird

" 470. Oriolus kundoo. Sykes. Indian Oriole

" 473 " melanocephalus, Linn Indian Black-headed Oriole

" 475 Copsychus saularis, Linn. Magpie Robin

" 481 Pratincola caprata. Linn White-winged Black Robin

" 645 Parus. atriceps. Horsf. Indian Grey Tit

" 674 Dendrocitta rufa, Scop. Common Indian Tree-pie

" 678 " leucogastra, Gould. Southern Tree-pie

" 755 Mirafra affinis. Jerd. Madras Bush Lark

" 798 Chalcophaps indica. Linn. Emerald Ground Dove

" 813 Gallus Sonnerati. Temm. Grey Jungle Fowl

" 930 Ardeola grayi. Sykes Pond Heron

The following eggs and nests of Indian birds were acquired during the year):—

J. 467. Picumnus purpureus. Müll Rose-headed Parâquet. Egg.

" 232 Cinnyris zelonica. Linn. Amethyst rumped. Honey-sucker. Eggs and nest

" 234 " asiatica, Lath. Purple Honey-sucker Egg

J 240 Dicrurus agilis. Sick. Thick billed Flowerpecker.
" 281 Dicrurus caerulescens, Linn. White bellied Drongo. Eggs and Nest
" 292 Rhipidura albifrontata, Frankl. White-browed Fantail. Egg.
" 302 Stoporala albicaudata. Jerd. Nilgiri Verditer Flycatcher Egg.
" 345 Pitta brachyura, Linn. Yellow-breasted Ground Thrush. Egg.
" 433 Crateropus griseus. Lyn. White headed Babbler. Eggs and nest
" 437 Argya subrufa. Jerd. Rufous Babbler. Egg.
" 444 Hypsipetes psaroides. Vig. Himalayan Black Bulbul. Egg.
" 445 " " ganeesa. Sykes. S. Indian Black Bulbul. Egg.
" 452 Pycnonotus luteolus Less. White-browed Bulbul. Eggs and nest
" 462 Molpastes haemorrhous. Lyn. Common Madras Bulbul. Egg & Nest.
" 468 Argithina tiphia Linn Common Java Egg.
" 470 Oriolus Kundoo Sykes. Indian Oriole. Egg
" 480 Thamnobia cambaiensis, Lath. Brown backed Indian Robin Egg.

J 530 Orthotomus Sutorius. Forst. Indian Tailor bird. Egg and nest
" 543 Prinia inornata. Sykes. Indian Prinia Warbler. Egg and nest.
" 580 Anthus rufulus. Vieill. Indian Lit Lark. Egg
" 583 Sturnopastor contra, Linn. Pied Starling Egg
" 587 Temenuchus pagodarum, Lyn. Black-headed Myna Egg & nest
" 694 Ploceus philippinus. Linn. Common Weaver bird. Eggs & nest
" 703 Amadina malabarica. Linn. Plain Brown Munia. Egg
" 711 Petronia flavicollis. Frankl. Yellow-necked Sparrow. Egg.
" 758 Amimomanes phaenicura. Frankl. Rufous-tailed Finch Lark. Egg.
" 760 Pyrrhulauda grisea. Scop. Black-bellied Finch Lark. Egg.
" 767 Alauda gulgula. Frankl. Indian Sky Lark Eggs and nest
" 812 Gallus ferrugineus. Lyn. Red Jungle Fowl. Egg.

J814 Gallopordix Spadicens Lynn. Red Spur Fowl. Egg.
" 905 Gallinula chloropus, Linn. Water Hens. Egg.
" 925 Herodias torra. B. Ham. Indian White Heron. Egg.
" 934 Ardetta Sinensis. Lynn: Yellow Bittern. Egg.
" 944 Phœnicopterus antiquorum, Temm. Flamingo. Egg.
" 950 Sarcidiornis melanonotus, Penn. Nukhta or Comb Duck. Egg.
" 952 Dendrocygna javanica, Horsf. Whistling Teal. Egg.

A large number of birds, collected during my tours or purchased in the Madras bazaar, were mounted during the year by the Museums Taxidermists.

h. Mammals. In the month of January the carcase of a Cachalot or Sperm Whale (Physeter macrocephalus), about 24 feet in length, was washed on shore at Madras in an advanced stage of decomposition. The body was buried on the beach, and the skull removed to the Museum. The lower jaw contained 23 functional teeth on each side, and imbedded in the gum covering the upper jaw were 12 rudimentary teeth. This animal is regarded by Gray (Catodon macrocephalus) as being occasionally hunted at the entrance of the Bay of Bengal, north of Ceylon.

Specimens of a Dolphin (Delphinus plumbeus). Large Fox Bat (Pteropus edwardsii), and an albino Bandicoot (Mus bandicota), were stuffed, and skeletons of a sheep, Porcupine (Hystrix leucura), and common Otter (Lutra vulgaris) were prepared during the year.

The carcases of various animals, which died in the Peoples Park collection, were forwarded

1. Catalogue of Seals and Whales in the British Museum, 1866

forwarded to the Museum by the Presidents of the Municipality.

Library. The number of visitors to the Library was 6,684 against 6,568 in 1888-9, being an increase of 116. The additions to the Library during the year are recorded in Appendix D, and the following is a Summary:—

Presented by Government	134
" " private individuals	120
Purchased	123
British Museum Publications	7
Patent Office Papers	139
Spiegel's Oriental Series	1
Periodicals	451
Record Publications of the Master of Rolls	13
Parliamentary Blue-books	47

A

Recommencement was made by Mr. Hensman, Assistant Professor of English at the Presidency College, of a new catalogue of the Library.

Edgar Thurston
Superintendent Govt Central Museum.

Govt Central Museum
Egmore
Madras 10 July 1890.

W.T.P.

Appendices.

A.

Coins acquired during the year 1889-90.

Copper, Danish E. India Company	Donation
" English "	"
Copper coins (S. Indian etc) from Pilakarai	"
Copper, Ceylon coins	Purchase
Gold, Venetian Zecchino	Donation
Collection of English E. Ind. Company coins and proofs	Purchase
Gold, N. Indian Mohurs	"
" Piano coins	"
Gold, and silver, Patáni Inscribed coins, etc	Asiatic Society of Bengal
Gold Mohur, Muhammadibn Saghlak	Purchase
Rupee Muhammadibn Sám	"
" Shér Sháh	"

Roman aurei from Vencatanda	Donation
Gold Indian Fifiri Sultáni	Purchase
Rupee, Shams-ad-din Altamish	"
Gold Pagodas and copper coins found in a metal fish	Donation
Gold Coins from Bijapore, and Silver coins of Gujerat, and E. Ind. Company	Bombay branch. Royal Asiatic Society
Double Great Rupee	Purchased
Collection of coins of Mughul Emperors. Kings of Gualior, etc.	Asiatic Society of Bengal.
Pagodas of Sadasiv Ulla Khan (Nawab of Carnatic)	Purchased
Gold coins of Vasu Deva	"
Aurei of Claudius and Agrippina	"
Khalakhalaid Fanam of Fifiri	"
Fanam of Vijaya Bahu	"
Collection of Chola, Pandyan, Vallaja, and Sethupati coins	"
Copper (Mysore) coins	Exchange
Collection of Malabar Muhammadan coins	"
Copper E. Ind. Company coin (Charles II)	"
Collection of E. Ind. Company coins from Kalikut Estate	Purchased
Collection of Mughul Pátán coins, etc	Asiatic Society Bengal
Gold Narambarodi coin	Purchased

Sdy a. Thurston.

Superintendent Govt Centrl Museum.

Govt Central Museum
Egmore
Madras 10 July 1890

W.P.

B.

24.65

General list of the Contributions &c received for the Government Central Museum from 1st April 1869 to 31st March 1870.

	No.
Medical Lawder Patrick. Moothiapet—	
Fish (Astracion hasus)	1
Pichard. M.D. Monsieur. Pondicherry—	
Vanilla pods	
Andrews, J. L. Esqre—	
Nest of Hornet (Vespa cincta)	1
Antonio, C. J. J. Mrs. Pudupet—	
Auriferous Quartz	1
Iron ore	1 } 2
Athiayam, L. G. Pillay. M. R. Ry—	
Snake (Bungarus cæruleus)	1
Bidie, Surgeon General G., M. B. C. M. C.—	
Skull of a do g (Canis familiaris)	1
Cardew, A. G. Esqre—	
Butterfly (Papilio tamilana)	1
Cardozo, H. C. C. Esqre—	
Stick insect (Sp. incert)	1

No 67

Carter, Lt. R. P. Engr.

Albine Bandicoot (Inus bandicoota) — 1

Bird (Limnaetus ericetorellus)

The crested Shank Eagle } 1

— " — (Totanus glottis) The Green Shanks } 1

— " — (Merops apiaster) The European Bee-eater } 1

— " — (Circus Maeruros) The Pallid Harrier } 1

— " — (— " — Swainsonii) The Pale Harrier } 1

— " — (Botaurus Stellaris) The Bittern — 1

Snake (Lycodon aulicus) — 1

— 8

Cuddapah. The District Surgeon —

Manarnad Chicken — 1

Daly, William Mahon Esqre. Jeremiah Shenaroy —

Bird (Glamus melanopterus) The black winged Kite } 1

Egg (Hypsipetes gamerax) The Ghat Black Bulbul } 1

Nest and Egg of (Piprisoma agile) The thick billed flower Pecker } 2

— do — (Dicrurus coerulescens) The White Bellied Drongo } 2

Cicada (Gadana Atkinsonis Dist.) — 2

— 10

Cicada (Platypleura Bitaguilata Fabr.) — 1

— " — (Pomponia linearis. walk.) — 1

Gamble J. S. Esqre. Conservator of Forests Northern Circle —

Wood specimens — 35

Seeds (coast drift) — 7

Fibres — 4

Articles made of bamboo — 26

— 72

Hammick. M. Esqre. —

Graphite used by potters for polishing pottery. Vizagapatam — 1

Mantis (Sp. incert.) — 1

— 2

Jago. Colonel —

Pair of brass Coda anklets — 1

Karuna Kara Menon Dt. Collr. Retd. Deputy Collector Calicut —

Mantis (Sp. incert.) — 1

Lieut Col. Superintendent Royal Botanic Gardens, Calcutta —

Plants — 100

Ferns — 2

Grasses — 16

— 118

Ewing. Mrs. Esqre. Colombo—

Eggs of canary — 3

Nest of the Red wagtail (Motacilla Indica) Madras — 1 — 4

Mc Leod. General. Mr. Ass. Surgeon—

Skate aquarium — 1

Mcinnaring. E. R. Esqre. Tuticorin—

Sands from Cape Comorin — 5

Municipal Commission, Madras Presidency—

Tiger cub (Felis Tigris) — 1

Leopards (— " Pardus) — 3

Bear (Ursus aries) — 1

Otter (Lutra vulgaris) — 1 — 7

Lemurs — 2

Tasmanian Devil (Sarcophilus ursinus) — 1

Pearl Banks, Tuticorin. Superintendent of—

Pearls the produce of 15,000 Oysters taken from the Chalayniam fishing in November 1888 — Collection

Price. Honorable. Mrs. J. H.—

Pigeons turtle doves (Indian Ground) — 1

Rajarathnam. P. Maandelliar. Mr. R. Ry—

Crockadile — 1

Ramasawmy. Mr. A. S. Pillay. M.R. Ry. Madras—

Heris egg — 1

Ratnasawmy Nadar. Mr. R. Ry. Trangquebar—

Stone carving — 1

Rea. A. Esqre. First Assistant Archæological Survey Department—

Buddhist (marble) Statues — 3

Large cylindrical Stone Relic casket — 1

Buddhist marble slabs &c — Collection

Miniature Dagoba — 1

Small objects found in the centre of a Stupa — 2

Objects from Amaravati — lot

Images — 1

Carved wooden door posts and Lintel from the Temple at Lepakshi in the Anantapur District — 3

Human bones found during the excavation at the Mahabalipuram shore Temple near the buried up image — lot — 20

Pottery ——— Collection
Bricks ——— " —
Coins ——— " —

Sargent. C. H. Esqre. Superintendent Brica Mines
The Hyderabad (Deccan) Company Limited—
Specimens of Quartz containing mica,
and mica ——— 17

Secretary to Government. Public Department—
Pieces of a broken copper vessel from
Trichinopoly ———

Secretary to the Board of Revenue. Revenue
Settlement. Land Records and Agriculture—
Samples of brush making materials ———

Sharpe. Captain—
Crocodile (crocodilus porosus) ——— 1

Simpson. Mrs. St. Thomé—
Dolphin (Delphinus plumbeus) ——— 1

Small. Mr J. Old College—
Blue breasted rail (Rallus striatus) ——— 1

Smyd. C. H. Esqre. Injambakkam—
Abnormal Turkey chick ——— 1

Smith. Capt. Coll. of
Pottery ——— Collection

Swendale. R. A. Esqre ———
Madras Mungoos (Herpestes mungo) — 1
Skins of birds
The Indian Ringed Plover (Aegialitis Philippensis) — 1
The ring-tailed Sea Eagle (Haliaetus fulviventer) — 1
The Blue Heron (Ardea cinerea) ——— 1
The Himalayan Chough (Fregilus Himalayanus) — 2
Emberiza (sp incert) ——— 1
Skin of a snake ——— 1
— 8

Sudarsana. V. C. Moodelliar M. R. Ry ———
Abnormal hen's egg ——— 1

Venkata Rangam. A. Naidoo. M. R. Ry Madras —
Larva of a moth ——— 1

Watson. Lieutenant. Vizag ———
Bird (Pitta bengalensis) The yellow
Breasted ground Thrush ——— 1

Collector's Office, Govt. Central Museum
Board of Visitors' Book (Common Register)
Book (Sl. number) ——— 1 ——— 2

No. 1

With Compliments

Edgar Thurston

Superintendent Govt. Central Museum

Government Central Museum
Egmore
Madras 10th July 1890

C.

Visitors to the Government Central Museum from 1st April 1889 to 31st March 1890.

1889-90	Signatures or Nationality: English	Telugu	Hindustani	Tamil	Malayalam	Kanarese	Burmese	Cingalese	Arabic	Bengalese	Total of Signatures	Number of Signatures not legible	Total of Visitors	Number of Hindus and Boys	Number of Women and Girls	Total of Visitors
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
April	2,120	307	200	1,143	29	4	8	12	"	"	52	"	3,875	28,217	32,092	16,747	15,345	32,092
May	2,504	486	145	1,491	21	2	N	38	"	"	31	"	4,729	26,184	30,913	15,851	15,062	30,913
June	2,450	312	277	1,422	23	"	21	1	2	"	16	"	4,524	28,004	32,528	16,366	16,162	32,528
July	1,956	368	172	1,201	17	2	26	13	"	"	22	"	3,777	25,974	29,751	15,453	14,298	29,751
August	1,985	582	431	1,867	6	11	121	71	3	"	40	2	5,119	24,119	29,238	16,541	12,697	29,238
September	1,939	548	226	1,658	7	4	32	70	"	"	74	"	4,558	18,612	23,170	13,374	9,796	23,170
October	2,014	645	337	1,778	12	14	19	102	"	2	59	"	4,982	18,427	23,409	13,995	9,414	23,409
November	2,208	593	316	1,773	20	4	38	53	"	"	29	"	5,034	19,143	24,177	13,426	10,751	24,177
December	3,414	718	261	1,975	22	28	74	64	"	3	50	"	6,609	19,243	25,852	14,947	10,905	25,852
January	4,252	791	268	2,714	9	16	54	138	"	5	78	"	8,325	78,060	86,385	36,165	50,220	86,385
February	1,977	470	240	1,480	"	7	35	49	"	"	44	"	4,302	14,750	19,052	10,709	8,343	19,052
March	2,114	592	262	1,745	"	10	47	67	"	"	39	"	4,876	16,791	21,667	12,779	8,888	21,667
Total	28,933	6,412	3,135	20,247	186	102	486	678	5	10	534	2	60,710	317,524	378,234	196,353	181,881	378,234

Government Central Museum
Egmore
Madras 10th July 1890

Edgar Thurston
Superintendent Govt. Central Museum.

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D–1.

List of Books added to the Library

By Purchase (Standard Works)

	Volumes
Agassiz. A. Bulletin of the Museum of Comparative Zoology at Harvard College Vol 10. No 2	1
—do— On the Embryology of Echinoderms	1
—do— Revision of the Echini. with Plates and Text	2
—do— Selections from Embryological Monographs Echinodermata Vol 9 No 2	1
Airy, J. B. On Sound and Atmospheric Vibrations 2d Edition 1871	1
Aldis, W. S. An Elementary Treatise on Geometrical Optics 3rd Edition 1885	1
Anderson, Sir J. The Strength of Materials and Structures (Text-books of Science Series) 4th Edition 1887	1
Atkinson, E. A. Treatise on Electricity and Magnetism 1878	2
Atkins. J. Coins and Tokens of the British Possessions and Colonies	1
Ball, R. S. Experimental Mechanics 2nd Edition 1888	1
Ball. V. Tavernier's Travels in India Vol 1 & 2 2nd Edition 1889	2

Volumes

Besant, W. H. Elementary Hydrostatics 11th Edition 1890 — 1

Cambridge, O. P. Rev. On Ceylon Spiders (Incomplete) — 1

Clausius, R. The Mechanical Theory of Heat 1879 — 1

Cotterill, J. H. Applied Mechanics 1890 — 1

Cumming, L. An Introduction to the Theory of Electricity 3rd Edition 1885 — 1

Daniell, A. A. Text-book of the principles of Physics 2nd Edition 1885 — 1

Darwin, Charles. The Structure and Distribution of Coral Reefs 2nd Edition 1889 — 1

Decandolle, A. et C. Monographiae Phanerogamarum Vol 6 1889 — 1

De Griberiatis, A. Peregrinazioni Indiane Indica Meridionale & Ceylan — 1

Doleschall, C. L. Tweede Bijdrage tot de Indische — 1

Donkin, W. H. Acoustics Part 1. Theoretical 2nd Edition 1884 — 1

Drury, C. H. Reminiscences of life and Sport in Southern India — 1

Encyclopaedia Britannica (Index Volume) — 1

Encyclopaedia Dictionary Vol 1, Paris 1842. Vol 5 Paris 1842. Volumes 6 & 7 — 6

30 Volumes

Everett, J. D. Units, and Physical Constants 2nd Edition 1886 — 1

Faraday, M. Experimental Researches in Electricity 1839—55. Optics — 3

Fourier, J. The Analytical Theory of Heat 1878 — 1

Garnett, W. A. Treatise on Elementary Dynamics 5th Edition 1889 — 1

Garnett, An Elementary Treatise on Heat 5th Edition 1889 — 1

Geddes, P. and Thomson, J. A. Evolution of Sex — 1

Glazebrook, R. T. (Text-book of Science Series) Physical Optics 2nd Edition 1886 — 1

Glazebrook, R. T. and Shaw, W. N. (Text-books of Science Series) Practical Physics 2nd Edition 1889. — 1

Gray, A. The Theory and Practice of Absolute Measurements in Electricity and Magnetism 1888 — 1

Greaves, J. A. Treatise on Elementary Statics 2nd Edition 1888 — 1

Heath, R. S. A. Treatise on Geometrical Optics 1887 — 1

Heller, L. Reise der Österreichischen Fregatte Novara um die Erde — 1

Hilbrenbolz. H.L.F. &c. Lectures on the Sensations of Tone) 2nd Edition 1885 } 1

Herschel, Sir W. Manual of Scientific Enquiry, 5th Edition — 1

Hill, J. Sparke Malabaricus — 1

Jenkin, F. Electricity and Magnetism (Text-books of Science Series) 2nd Edition 1887 — 1

Jones, J. P. Scientific Papers 1884-87 — 2

Kohlrausch, F. and Introduction to Physical Measurements 2nd Edition 1883 } 1

Linden, W. Electricity for Public Schools and Colleges 2nd Edition 1889 } 1

Londonfield, Rev. W. A Lithographs of the Honey Stages — 1

Lock, Hon J. B. Dynamics for Beginners 2nd Edition 1888 } 1

Lodge, A. L. (Author) Views of Electricity (Nature Series) 1889 } 1

Lucas, F. Essais sur l'Une Monographie des Genres Shelyphone } 1

Maxwell, J. C. The Electrical Researches of the Honourable Henry Cavendish. F.R.S. 1879 } 1

— do — J. C. New Elementary Treatise on Electricity 2nd Edition 1888 — 1

— do — Matter and Motion (Manuals of Elementary Science) Series) 1876 } 1

Maxwell, J. C. Theory of Heat (Text-books of Science Series) 4th Edition 1888 — 1

Meyer, A. M. and Barnard, C. Light (Nature Series) 1889 — 1

Rankine, W. J. M. Miscellaneous Scientific Papers 1881 — 1

Rayleigh, J. W. S. B. The Theory of Sound 1877-78 — 2

Ray Lankester, E. On Scorpions (Incomplete) — 1

Rodrigues, E. A. The Hindu Pantheon. Vol. 1 Nos 20 to 24 and 28 to 35. 1845 } 13

Rosenbusch, H. Microscopical Physiography of the Rock Making Minerals 1888 } 1

Sanderson, F. W. Hydrostatics for Beginners 1889 — 1

Sarasin, P. and F. Forschungen auf Ceylon Vol. 2. Part 3 1889 } 1

Siemens, C. W. Heat and Metallurgy 1889 — 1

— do — On Electricity, and Miscellaneous. 1889 — 1

— do — Addresses and Lectures 1889 — 1

Skeaven, J. M. Dictionary of Roman Coins — 1

Stewart, Balfour, & W. Elementary Treatise on Heat 5th Edition 1888 } 1

— do — Lessons in Elementary Physics, new and enlarged Edition 1888 } 1

	Volumes
Stewart, B. and Lee, W.W.H. Lessons in Elementary Practical Physics 1887	2
Stokes, G.J. On Light (Nature Series) 1887	1
—do— Mathematical and Physical Papers 1880-83	2
Stone, W.H. Elementary Lessons on Sounds 1879	1
Streeter, E.W. Precious Stones and Gems 4th Edition 1884	1
Tait, P.G. Lectures on some Recent Advances in Physical Science 3d Edition 1885	1
—do— Heat 1884	1
—do— Light 2d Edition 1884	1
—do— Properties of Matter 1885	1
Taylor, R. Scientific Memoirs 1837-53	7
Thompson, S.P. Elementary Lessons in Electricity and Magnetism 1887	1
Thompson, J.J. Applications of Dynamics to Physics and Chemistry 1888	1
Thompson, S.P. Dynamo-Electric Machinery 1884	1
Thomson, Sir, W. Popular Lectures and Addresses Volume 1st Constitution of Matter 1889	1
—do— Reprint of Papers on Electrostatics and Magnetism 2d Edition 1884	1

	Volumes
Thomson, J. Mathematical and Physical Papers 1882	2
Thomson, Sir, W. and Tait, P.G. Treatise on Natural Philosophy Vol 1. Part 1 and 2 New Edition 1888	2
Tufnell, H. & Ld. H. Guide to Coin-Collectors in Southern India	1
Tyndall, J. Sound 4th Edition 1883	1
Wallace, A.R. Darwinism, An exposition of the Theory of Natural Selection 1889	1
Ward, H.C.M. Spinifera and some of its diseases (Nature Series) 1889	1
Wiedemann, G. Elektricität 1882-87	5
Wright, L. Light 1882	1

D-2.

By Purchase (Periodicals)

American Naturalist	Nos 1 to 8 for 1886
Annales des Sciences Naturelles (Botanique) Vol 9 & 10 for 1889	
—do— —do— —do— (Zoology) Vol 7 Nos 1 to 6 Vol 8 Nos 1 to 3 for 1889	
Annals and Magazine of Natural History	Nos 16 to 24 for 1889
Annales de la Societe Entomologique de France- (Annual Register)	Nos 225 & 226 for 1890
	Vol 4 for 1888
	Vol 2 for 1887-88
	Nos 275 to 299 for 1889-90

Asylum Press Almanac	for the year 1890
British Association for the advancement of Science, Report of the	Vols 4 from 1885 to 1888
Entomological Society of London, Transactions of the	Parts 1 & 5 for 1889
Geological Society - Quarterly Journal of the	Nos 178 to 180 for 1889 and No 181 for 1890
Ibis - A Quarterly Journal of Ornithology	Vol 1. Nos 2 to 4 for 1889 Vol 2. No 1 for 1890
Illustrated London News	Vol 95 for 1889. Vol 96 Nos 2644 to 2655 for 1890.
Indian Agriculturist	Vol 14 Nos 9 to 12 for 1889, Vol 15 Nos 1 to 12 for 1890
Indian Forester	Vol 15 Nos 1 to 12 for 1889
Journal de Conchyliologie	Vol 37. Nos 1 to 3 for 1889
Kobelt. W. Iconographie der Schalen tragenden Europaischen Meeresconchylien	Hefts 8, 9 & 10
Linnean Society (Botany) Journal of the	Vol 25 Nos 170 to 172. Vol 26 No 173
—— do —— do (Zoology) Journal of the	Vol 20 Nos 122 & 123. Vol 21 Nos 131 to 135. Vol 23 Nos 141 144
—— do —— do —— do Transactions of the	Vol 5, Part 3
London Times (Weekly Editions)	Nos 637 to 688 for 1889-90
Martens. E. Conchologische Mittheilungen	Hefts 1 & 2
Moscow. Bulletin de la Societe Imperiale de	Vol 63. No 4 for 1888. Vol 64 Nos 1 to 4. for 1889. Vol. 65 No 1 for 1890.
Nature	Nos 1013 to 1062. Vols 40 & 41 for 1889-90.
Nouvelles Archives du Museum d'Histoire Naturelle	Nos 1 and 2 for 1889
Royal Asiatic Society of Great Britain and Ireland, Journal of the	Vol 20 Parts 4 for 1888. Vol 21 Parts 1 to 4 for 1889
Royal Society, Philosophical Transactions of the	Vols 2 - 179 for 1888
Semper. C. Reisen im Archipel der Philippinen, Zweiter Theil Specielle Untersuchungen Vol 3 Heft 11. Cuming Nos 1 for 1889	
Tropical Agriculturist	Vol 8 Nos 7 to 12 for 1889 Vol 9 Nos 1 to 8 for 1890
Zoological Society of London, Proceedings of the	Parts for 1888 Nos 1 to 3 for 1889

D—3.

Byelist (Standard Works)	Volumes
Archaeological Drawings Selected Plates of (Technical Art Series)	Nos 16 to 19 & 24 each 2 copies — 1
Army Regulations, (Indian) Vol 1. Part 1. Pay and non effective Pay British Troops	— 1
—— do —— do —— Vol 1 Part 2 Pay and Non effective Pay Native Troops	— 1

	Volumes
Atkinson. E. T. Catalogue of the Insecta of the Oriental Region in the Indian Museum Calcutta	2
Barberis. L. Cinque Anni in Birmania	1
Barrow. H. B. Bulletin No 1. United States Department of Agriculture. The English Sparrow in North America	2
Bashyacharya. H. The Age of Patanjali (The Adyar Library Series 1889)	1
Bell. G. Complete Catalogue of Books including Bohn's Libraries	1
Blumhardt. J. F. Catalogue of Hindustani Printed Books in the British Museum Library	1
Boulenger. G. A. Catalogue of the Chelonians in the British Museum Second Edition 1889	1
Buddhist Sculptures in the Lahore Museum. Descriptive List of Photographic Negatives of	5
Bulletin No 1 of 1889-90. Agricultural Department Madras Essays on Viticulture and Fruit-culture in California	1
— do — No 2 of 1889-90. Agricultural Department Madras Papers relating the Ichneumon Parasite "Radio" Br (Braconidae) in Madras	1
Bulletin (No 3 of 1889-90 Forecast of the Outturn of Early Sown Crops in Madras	1
— do — No 4 — do — Report on the Curing and Curing Tobacco pursued by the Ryots in the Madura District	1
— do — No 5 do Report on the Sowings of Late Crops	1
— do — " 6 — do — South Indian Fodders	1
— do — " 7 — do — Forecast of the Outturn of Late sown Crops in Madras	1
Burgess. J. Archaeological Survey of Southern India No 3. Notes on the Amaravati Stupa	1
Butler. A. G. Illustrations of Typical Specimens of Lepidoptera Heterocera in the British Museum, Part 7	1
Calendar of the Medical College Madras for 1889-90	1
Catalogue of the Sanskrit Manuscripts in the Library of the India Office Part 2	1
Challenger. H.M.S. Report on the Scientific results of the Exploring Voyage of the (Physics and Chemistry) Vol. 2d	1

Volumes

Report on the Scientific Results of the Challenger Exp. Sc. (Zoology) Vols 27 to 32. with Atlases — 7

Chapman, H. C. Catalogue of the Books in the Library of the Indian Museum, Calcutta — 1

Civil Service Regulations for 1889 — 1

Coles, C. C. Catalogue of the Births of Indian Birds — 2

— Do — Note on Locusts in India — 1

— Do — Notes on Indian Economic Entomology Vol 1 No 2 — 1

— Do — Notes on Indian Insect Pests Vol 1. No 1 — 1

Day, F. Fauna of British India, Ceylon, and Burma, Fishes Vols 1 and 2 — 2

Distant, W. L. A Monograph of Oriental Cicadidae Parts 1 and 2 — 2

Dulau and Co Catalogue of Zoological and Entomological books — 1

Foord, A. H. Catalogue of the Fossil Cephalopoda in the British Museum Part 1. 1888 — 1

Grierson, G. A. The Modern Vernacular Literature of Hindustan — 1

Indian Office List for 1889 — 1

Kew Gardens, Bulletin of Miscellaneous Information 1889 — 1

Volumes

Kiash, K. H. Ancient Persian Sculptures — 1

King, W. Provisional Index of the Local distribution of important Minerals and Stones in the Indian Empire Part 1 — 1

Koniglichs Munz Kabinet. Friedlaender, J. and Von Sallet A. — 1

Lendenfeld, R. Descriptive Catalogue of the Sponges in the Australian Museum Sydney — 1

Lewis, T. R. Physiological and Pathological Researches — 1

Lord Howe Island. The Australian Museum Sydney Memoirs No 2 — 1

Lucknow Provincial Museum. Minutes of the Managing Committee Vol 1 1883-88 — 1

Lydekker, R. Catalogue of the Fossil Reptilia and Amphibia in the British Museum Part 2 1889 — 1

Merriam, C. H. North American Fauna No 1 & 2 — 2

Milwaukee. Seventh Annual Report of the Board of Trustees of the Public Museum of 1888-89 — 1

Peckham, G. W. Observations on Sexual Selection in Spiders of the family Attidae Vol 1 — 1

	Volumes
Thomas. C. Catalogue of the Marsupialia and Monotremata in the British Museum 1888	1
Trübners Record for 1889. Vol 1. Part 2 No 224	1
Tufnell, R. H. C. Catalogue of Mysore coins in the collection of the Government Museum Bangalore	1
Ulrich, E. O. Geological and Natural History survey of Canada - Contributions to the Micro Palaeontology of the Cambro Silurian Rocks of Canada Part 2	1
Watt. G. Notes on Indian Economic Products Vol 2 Part 1, No 2. for 1889-90	2
— do — A Dictionary of Economic Products of India	2
Webster's English and Tamil Dictionary 2d Edition	1
Whiteaves. J. F. Contributions to Canadian Palaeontology Vol 1 Part 2	1
Williams. M. M. Buddhism	1
Wilson, H. J. History of the Madras Army 2 vols Abap Vol 5	1
Wood Manufactures in the Punjab, Monographs on 1887-88	1
Wood-Mason. J. A Catalogue of the Mantodea	1
— do — Ethiopian and Oriental representatives of the Mantodean Sub family Valididae	1

	Volumes
Photographic Negatives of Ancient Buildings and Antiquities of the Bombay Presidency. List of	5
Photographic Negatives of the Paintings copied from the Ajanta Caves between 1872-1895. List of	5
Photographic Negatives of Monumental Antiquities in the North-Western Provinces and Oudh. List of	5
Ramsay, E. P. Tabular List of all the Australian Birds at present known to the Author	2
Rogers. A. G. Experimental Researches in the Reduction of the difficult reducible Metals	1
Sewell, R. South Indian Chronological Tables	1
Sharpe, R. R. Calendar of Wills proved and enrolled in the Court of Hustings London A.D. 1258-1688	1
Simpson, B. Scientific Memoirs by Medical Officers of the Army of India Part 4. 1889	1
Smithsonian Report for the year 1886. Part 1	1
Statistical Atlas of the Bombay Presidency 1883	2
Sterndale, R. A. Notes on the Horns of the Indian and Central Asian Ruminantia	2
Theobald. W. Index to the Genera and Species of Mollusca in the Indian Museum Parts 1 & 2	2

	Volumes
Woodward. A.S. Catalogue of Fossil Fishes in the British Museum Part I. 1889	1

D–4.

Periodicals

Asiatic Society of Bengal. Proceedings of the	August to December 1888. January to August 1889
Bengal. Journals of the Asiatic Society of	Vol 57 Part 2. No 4 for 1888 Vol 58 Part 1 No 1 for 1889. Part 2 No 1 & 2 for 1889
Bombay Branch of the Royal Asiatic Society. Journals of the	Vol 17. Part 2. No 47 for 1887
Epigraphica Indica and Record of the Archæological Survey of India	Parts 1 to 4 for 1888–89.
Fort Saint George Gazette	Nos 13 to 50. for 1889 Nos 1 to 12. for 1890
Gazette of India	Nos 14 to 52 (Uncompiled)
Geological Survey of India. Memoirs of the Palæontologia Indica Salt Range Fossils	Series 13 Vol 4 Part 1
Geological Survey of India. Records of the	Vol 22 Nos 1 to 4 for 1889
Indian Antiquary	Vol 17 Parts 3 to 12 for 1888, Vol 18 Parts 1 to 10 for 1889
Jerdon. Art Journals of	Nos 26 to 29 for 1863.
Madras Journals of Medical Science	Vols 1 to 18, 1860–68, 12 Vols
——do—— do—— do	Vols 1 to 7. 1870 to 1877 3 Vols
——do—— do—— do Second Series	1 Vol. 1869
Oesterreichische Monatsschrift für den Orient.	Nos 1, 7 & 8 for 1887. Nos 3 to 9 & 11 for 1887 Nos 3, 7, 9 & 11 for 1889.
Quarterly Journals of Veterinary Science in India.	Nos 25 to 28 for 1889
Statement of Imports and Exports in the Ports of Madras	Nos 1 to 12 for 1889
The Spectator. A Weekly Journal	Vol 3 Nos 5 to 52 Nos 83 to 130
The Pandit. A Monthly Publication devoted to Sanskrit Literature	Nos 1 to 12 for 1889.

D–5.

Reports

	Volumes
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Sclyn. Thurston.

Superintendent Government Central Museum.

Government Central Museum
Bombay
Aberdeen 10th July 1890

W.H.

Government Central Museum

No. 502 Register

Madras 10th July 1890

From

Edgar Thurston Esqre

Revenue Department

To the Governor

Stonehouse & Hill's.

Sir,

I have the honor to submit to the Right Honorable the Governor in Council my report on the working of the Government Central Museum during 1889-90, and, as it contains a large number of technical terms, I shall be glad to be furnished with a proof of the same together with the original manuscript before striking off. I also request that I may be supplied with 200 copies for distribution to other Museums &c.

I

Rec. 4966/90

I have the honour to be,

Sir,

Your most Obedient Servant

Edgar Thurston

Superintendent Govt

Central Museum.

W.S.P.

Print Supplied
Copy sent to Secretary
for one copy to be sent
to Superintendent for
Government Central Museum
Madras for information
19/7/90

No 4966

Revenue (1890) Department

From

The Superintendent
Government Central
Museum

No 502
Genl Corr
Dated 10 July
Recd — do — 1890
Read 11 July

GOVERNMENT OF MADRAS
11 JUL 90
REVENUE DEPARTMENT

Subject

Submitting his report on
the working of the Government
Central Museum during
1889–90.

Cur 8/8
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6/8/1917

REVENUE DEPARTMENT. 114

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read Cuo. 4966/90.

Issued G.O. of 15 Aug: 1890, no: 660.

With his letter read above, the Supdt. Govt. Central Museum submits an interesting report on the working of the Museum during the year 1889-90, which shows that considerable progress has been made, especially in the Natural History section. The Govt is glad to learn that a index collection, modelled on that of the British Museum, is in preparation

2. There was again an increase in the number of visitors to the Museum, and it is especially satisfactory to notice that the included more posha ladies than in the preceding year.

3. The expenditure during the

the Year amounted to Rs. 26879 as compared with Rs 26350 during 1888-89: the excess of Rs. 529 was due to the incremental increase in the Salary of the Supdt.

4. In conclusion, H.E the Governor in Council desires to tender his thanks to the various Gentlemen who sent contributions to the Museum.

Cno. 4966/90

Report on the working of the Govt. Central Museum during the year 1889-90.

The Hon. T. Grose.
The Hon. T. H. Garstin, C.S.I.
H.E. the Governor.

Rev. 6-8-90

The Supdt. Govt. C. Museum
Govt. Botanist
Comr. of Fds. & Drugs
Surgeon-General
Secy. to Govt. Public Depts.

Endt. 6 Aug.

Copy to the Govt. of India, Rev. and Agri. Depts.

Rev. 1/2

Original

Govt. of {1890} Madr.

REVENUE.

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Encl

G.O., 15th August 1890,
Nos. 660, 660A.

AUGUST.

Report

Reviewing the — on the wor
ernment Central Museum,
year 1889-90.