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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*Revenue*

DEPARTMENT

|          |           |        |
|----------|-----------|--------|
| G.O. No. | 2196.     | Press. |
| B.P. No. |           | Mis.   |
| Dated    | 3 7. 1877 | 197 .  |

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

3rd July 1877, No. 2,196.

Read the following paper:—

No. 74. From Lieut.-Colonel R. H. BEDDOME, Conservator of Forests, to C. G. MASTER, Esq., Secretary to Government, Revenue Department, Fort St. George, dated Ootacamund, 22nd June 1877, No. 285.

In reply to the G.O., No. 1,840, of the 29th ultimo, I have the honor to inform you that all our officers were requested to submit detailed reports\* of all the dye-stuffs found in their divisions, together with specimens of each.

2. Although several reminders have been since sent to each division, the officers in charge of Cuddapah, Madura, Trichinopoly, Nelambur, and North Coimbatore are the only ones who have as yet submitted anything like a regular report on the question, and I am afraid that these are more or less meagre.

† Enclosure No. 2.

3. I enclose a list† of the specimens of dyes which have been received from the different divisions up to date.

4. The officer in charge of Wynaad reports that he has made repeated inquiries on the subject and finds that there is no dyeing industry throughout Wynaad, and that even the paints used in native festivals are almost all imported; there are, however, many plants and trees yielding various dyes in this district, but they may perhaps not be utilized.

5. The officer in charge of the South Coimbatore Division (Anamallays) reported last January that his time was too much occupied to enable him to give the question proper consideration; last month, however, he sent in specimens of two dyes (5 lbs. each) only under the native names known to the Kaders.

6. The officer in charge of the Kurnool Division reports that *Morinda* (Maddi) is the only dye in use in his district, and that it is not exported at all; his forests, however, have many trees and plants which yield dyes.

7. The officer in charge of the Nilgiri Range sends a few dyes, but states that the information he has been able to obtain is most scanty, and that none of the dyes are prepared or used in his district.

8. The officers in charge of North Arcot, Ganjam, Tinnevely, Salem, South Arcot, and South Canara have not as yet sent any information on the subject or any specimens.

9. As Government are aware our officers have not hitherto been encouraged in collecting or in any way utilizing any forest products except timber, and, as a rule, they really know nothing about any of the trees or plants yielding dyes, fibres, gums, resins, and such like minor products, it is hoped that this will some day be altered (as a very large revenue is lost by attention not being given to these subjects, and whilst the supply of some products is likely to disappear altogether without the introduction of a proper system of collecting, others are not available at all, or only in small quantities, or much adulterated), but in the mean time it can scarcely be expected of our officers that they should be ready to submit reports on these subjects, or forward collections of much value, when they do not know the trees or plants yielding the products when they come across them.

10. Our officers are not likely to be able to supply without much delay a collection at all equal to that in the Madras Museum, and I would recommend that Mr. Batten's suggestion that samples from this should be forwarded at once to the Secretary of State should be followed, and our department can, from time to time, supply the Museum with what is necessary to keep up the collection to a proper standard; besides this is now to become a Forest Museum, and in time I hope that our officers may be able to contribute largely to it.

Paul

Revenue Department, 3rd July 1877, No. 2,196.

ENCLOSURE No. 1.

From Lieutenant-Colonel R.H. BEDDOME, Conservator of Forests, to the Forest Divisional Officers of Mysur and Surata, Cuddapah, North Arcot, Kurnool, Trichinopoly, Madara, Tinnevely, South Coimbatore, North Coimbatore, Nilgiris, Salem, South Arcot, South Canara, Nelambur, Wynaul, Palghat, Golecondah, and Bhuddracheliam, dated Ootacamund, 25th February 1876, No. 263-A.

I HAVE the honor to request that you will obtain all the information you can with reference to the dyes of your district, and forward a report on the same and good samples of each (to Central Office) without delay.

2. To help you in this I enclose a list of all dyes as far as I yet know. You will observe that most of the trees yielding them are figured in the *Flora Sylvestica*. You will be able to find out the native names of the herbaceous plants and creepers in Colonel Drury's or Dr. Balfour's books.

3. Particular attention should be paid in your report to the following heads:—

- I. Scientific and local vernacular names of the dye-stuffs produced in the province.
- II. Average approximate extent of cultivation annually in each district for the last five years.
- III. Cost and profits of cultivation.
- IV. Season and methods of cultivation.
- V. Average estimated quantity of the dyes produced during the last five years.
- VI. Proportion of the quantity produced, which is absorbed locally, and which is placed in the market. What are the principal markets to which the dyes are forwarded?
- VII. Methods locally employed for extraction of the dye.
- VIII. Uses for which each dye is commonly locally employed (viz., nature of fabric), and process of application generally practised. Under this head should be given a full account of the mordants locally employed, and it should be stated what shades of color are produced, by what combinations, and whether the colors are permanent or fleeting.
- IX. Average price of each merchantable dye-stuff, according to quality in the market.
- X. Total annual trade in each kind, stating the countries of import and export.
- XI. To what extent is European capital employed in the production or manufacture of dyes, indigo, and other.

List of Dyes.

LIST OF DYES.

| Botanical Names.                                                             | DYES.               |        | Places in which found.                                               |
|------------------------------------------------------------------------------|---------------------|--------|----------------------------------------------------------------------|
|                                                                              | Part of Plant used. |        |                                                                      |
| <i>Yellow.</i>                                                               |                     |        |                                                                      |
| Nyctanthes arbor tristis, figured in <i>Flora Sylvestica</i> .               | Flowers             | ... .. | In all districts about temples and gardens.                          |
| Butea frondosa, figured in <i>Flora Sylvestica</i> .                         | Do.                 | ... .. | In most districts—jungles.                                           |
| Cedrela toona, do. do. ... ..                                                | Do.                 | ... .. | Do. do.                                                              |
| Mimosa tinctoria, do. do. ... ..                                             | Do.                 | ... .. | Salem, Nellore, Coimbatore, Madara, and more or less in all jungles. |
| Terminalia chebala, do. do. ... ..                                           | Seeds               | ... .. | In all districts—jungles.                                            |
| Toddalia aculeata, do. do. ... ..                                            | Bark (t)            | ... .. | In all districts—hedges, &c.                                         |
| Curcuma longa (turmeric) .. ..                                               | Root                | ... .. | Malabar, Vizagapatam, Madara, Tinnevely, Coimbatore, &c.             |
| Garcinia pictaria, and Morella gamboge, figured in <i>Flora Sylvestica</i> . | Gum                 | ... .. | Tinnevely, Madara, Coimbatore, Malabar, South Canara.                |
| Bixa Orellana, figured in <i>Flora Sylvestica</i> .                          | Seeds               | ... .. | Gardens, temples, &c.                                                |
| Cesouium fenestratum (a creeper) ... ..                                      | Root and leaves     | ... .. | Malabar, Tinnevely, South Canara—jungles.                            |
| Cassia auriculata (shrub) ... ..                                             | Bark and flowers    | ... .. | In all districts.                                                    |

Revenue Department, 3rd July 1877, No. 2,196.

List of Dyes—(Continued).

| Botanical Names.                                                             | DYES.                        |  | Places in which found.                                          |
|------------------------------------------------------------------------------|------------------------------|--|-----------------------------------------------------------------|
|                                                                              | Part of Plant used.          |  |                                                                 |
| <i>Blue.</i>                                                                 |                              |  |                                                                 |
| Wrightia tinctoria, figured in <i>Flora Sylvestica</i> .                     | Flowers ... ..               |  | In all districts—jungles.                                       |
| Indigofera tinctoria (indigo) ... ..                                         | Whole plant ... ..           |  | All districts.                                                  |
| Cassia tora (small shrub) ... ..                                             | Seeds... ..                  |  | Do.                                                             |
| <i>Red, Orange, and Scarlet.</i>                                             |                              |  |                                                                 |
| Ventilago Madraspatna (creeper) ... ..                                       | Bark... ..                   |  | Salem (called Papli) ; also in other districts.                 |
| Casalpinia Sappan, figured in <i>Flora Sylvestica</i> .                      | Wood ... ..                  |  | Malabar, South Canara.                                          |
| Pterocarpus Santalinus, figured in <i>Flora Sylvestica</i> .                 | Do. ... ..                   |  | Cuddapah, North Arcot.                                          |
| Morinda citrifolia and other species, figured in <i>Flora Sylvestica</i> .   | Bark and bark of young root. |  | All districts.                                                  |
| Carthamus tinctorius (herb) ... ..                                           | Whole plant ... ..           |  | Cultivated in fields in many districts.                         |
| Mallotus Philippensis, figured in <i>Flora Sylvestica</i> .                  | Powder off the fruit ... ..  |  | All districts—jungles.                                          |
| Oldenlandia umbellata (herb) ... ..                                          | Root ... ..                  |  | Sandy soils, generally near the coast, South Arcot, Ganjam, &c. |
| <i>Black.</i>                                                                |                              |  |                                                                 |
| Buchanania latifolia and other species, figured in <i>Flora Sylvestica</i> . | Seeds ... ..                 |  | In most districts—jungles.                                      |
| Semecarpus anacardium, figured in <i>Flora Sylvestica</i> .                  | Do. ... ..                   |  | Do. do.                                                         |
| Semecarpus Travancorica, figured in <i>Flora Sylvestica</i> .                | Do. ... ..                   |  | Tinnevely jungles.                                              |
| Semecarpus auriculata ... ..                                                 | Do. ... ..                   |  | Do.                                                             |

SUPPLEMENTAL List of Dyes to accompany the Conservator's List forwarded with his letter, No. 263-A, of 25th February 1876.

|                                               |                                   |
|-----------------------------------------------|-----------------------------------|
| <b>Brown Dyes.</b>                            | <b>Red.</b>                       |
| Casuarina muricata, bark.                     | Rubia munjista, plant.            |
| Acacia Arabica, bark.                         | Grislea tomentosa, petals.        |
|                                               | Adenanthora Pavonina, inner wood. |
| <b>Black.</b>                                 | <b>Purple.</b>                    |
| Hibiscus rosa sinensis, petals.               | Basella rubra, fruits.            |
| Terminalia catappa, bark and leaves.          | Canna Indica, seeds.              |
| Do. tomentosa, bark.                          |                                   |
| Euphorbia tirucalli, bark and small branches. | <b>Green.</b>                     |
| Acacia catechu, gum.                          | Jatropha glandulifera.            |
| Casalpinia coriaria, pods.                    |                                   |
| <b>Yellow.</b>                                | <b>Reddish Orange.</b>            |
| Thespesia populnea, capsules.                 | Lawsonia alba, leaves.            |
| Berberis (species), berberry.                 |                                   |
| Butea superba, flowers.                       | <b>Blue.</b>                      |
| <b>Light Red.</b>                             | Althea rosa, leaves.              |
| Punica granatum, flowers.                     |                                   |

Revenue Department, 3rd July 1877, No. 2,196.

ENCLOSURE No. 2.

List of the Specimens of Dye-stuffs received from Divisional Officers.

| Division.        | No. | Name of Specimen.                         |
|------------------|-----|-------------------------------------------|
| Cuddapah         | 1   | Red Sanders (Pterocarpus Santalinus).     |
|                  | 2   | Somi or Somila (Soyimida Febrifuga).      |
| Trichinopoly     | 1   | Aviri (Indigofera tinctoria).             |
|                  | 2   | Nuna (Morinda citrifolia).                |
|                  | 3   | Vatanghi (Caesalpinia Sappan).            |
|                  | 4   | Santhirippu.                              |
| Madura           | 1   | Nolam (Indigo)                            |
|                  | 2   | Saifon.                                   |
|                  | 3   | Chayroot (Oldenlandia umbellata).         |
|                  | 4   | Nonna (Morinda).                          |
|                  | 5   | Tagara (Cassia tora).                     |
|                  | 6   | Oomaree (Salsola Indica).                 |
| South Coimbatore | 1   | Munutrishti.                              |
|                  | 2   | Vembadam pattai.                          |
| Nilgiris         | 1   | Cedrela Toona (Kalakalingee).             |
|                  | 2   | Wrightia tinctoria (Palamaram).           |
|                  | 3   | Aragu pattai.                             |
|                  | 4   | Goobluck roots.                           |
|                  | 5   | Nauclea cordifolia (Munjah Kadava maram). |

(Signed) R. H. BEDDOME, Lieut.-Colonel,  
Conservator of Forests

No. 75.

ORDER THEREON, 2nd July 1877, No. 2,196.

Forest, No. 3.

These papers will be communicated to the Superintendent of the Central Museum with an inquiry whether a collection of dye-stuffs can be furnished from the specimens in the Museum.

(True Extract.)

(Signed) C. G. MASTER,  
Secretary to Government.

To the Superintendent Government, Central Museum.  
.. the Conservator of Forests.  
.. the Board of Revenue.

End, A. F. Goodall.

No. 285.

Office of Conservator of Forests  
Coimbatore 22<sup>nd</sup> June 1877.

From,  
Lieut. Col. R. W. Reddick,  
Conservator of Forests  
To C. G. Master Esquire,  
Secretary to Government,  
Revenue Department,  
Fort St. George.

Sir,  
In reply to the Government  
Order No. 1840 of the 29<sup>th</sup> ultimo I  
have the honor to inform you that  
all our Officers were requested to  
submit detailed  
Reports of all the  
Dye-stuffs found in their Divisions  
together with specimens of each.  
2. Although several reminders  
have been since sent to each Division,  
the Officers in charge of Coimbatore,  
Madura, Trichinopoly, Melambur,  
and North Coimbatore are the only  
ones who have as yet submitted  
anything like a regular report on  
the question, and I am afraid that  
these are more or less meagre.  
3. I enclose a List of the Specimens of dyes which  
have

\* Encl. 1. Copy of my  
letter on the subject

\* Encl. No. 2.

From the G.O. 13 Aug 77 No. 2496.

G.O. 3rd July 1877, No. 2,196.

JULY.  
Nos. 74-75.

Cost. of (1877) 31/10/77  
REVENUE.  
THE SUPERINTENDENT,  
GOVT. GENERAL MUSEUM,  
CO., AC.,

Dye-stuffs of Indian growth.—Communicating  
to the Superintendent of the Central Museum  
letter from the Conservator of Forests relating to  
the same, and requesting to know whether a collection  
can be furnished from the specimens in the  
Museum.

have been received from the different Divisions up to date.

4. The Officer in charge of Wynnad reports that he has made repeated enquiries on the subject and finds that there is no dyeing industry throughout Wynnad, and that even the paints used in native festivals are almost all imported; there are however many plants and trees yielding various dyes in this District, but they may perhaps not be utilized.

5. The Officer in charge of the South Coimbatore Division (Annamalain) reported last January, that his time was too much occupied to enable him to give the question proper consideration, last month however he sent in specimens of 2 dyes (5 lbs each) only under the native names known to the Kaddars.

6. The Officer in charge of the Annamal Division reports, that Morimola (Maddi) is the only dye in use in his District, and that it is not exported at all, his forests however have many trees

and plants which yield dyes.

7. The Officer in charge of the Kilgiri Range sends a few dyes, but states that the information he has been able to obtain is most scanty and that none of the dyes are prepared or used in his District.

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the introduction of a proper system of collecting, others are not available at all, or only in small quantities, or much adulterated, but in the meantime it can scarcely be expected of our Officers that they should be ready to submit reports on these subjects or forward collections of much value when they do not know the trees or plants yielding the products when they come across them.

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and in time I hope that our Officers may be able to contribute largely to it.

I have the honor to be  
Sir,  
Your most obed<sup>t</sup>. Servant,  
J. W. Adams Esq. Col.  
Conservator of Forests.



No. 263A

Office of Conserv. of Forests  
Cotacamund, 25<sup>th</sup> Febr'y '76

From,

Lieut. Col. R. W. Beddome,  
Conservator of Forests

To,

The Forest Divisional Officers of  
Gunnur and Suradu, Coimbatore,  
S. Arcot, Kurnool, Trichinopoly,  
Madurai, Tinnevely, S. Coimbatore,  
S. Coimbatore, Nilgiris, Salem,  
S. Arcot, S. Canara, Tellambur,  
Wynaad, Palghat, Golconda,  
and Bhudrachellam.

Sir,

I have the honor to request  
that you will obtain all the in-  
formation you can with reference to  
the dyes of your District and for-  
ward a report on the same and  
good samples of each (to Central Office)  
without delay.

2. To help you in this, I en-  
close a list of all dyes as far as I  
yet know. You will observe that most  
of the trees yielding them are figured  
in the "Flora Sylvestica". You will  
be able to find out the native names  
of the herbaceous plants and creepers  
in Colonel Drury's or Doctor  
Balfour's Books.

3. Particular attention should  
be

Enclosure No. 2.

See letter from the  
Conservator of Forests to  
the Secretary to Govt.  
No. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

For 1-11-1906

Rev. 3038/77

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  2. Average approximate extent of cultivation annually in each District for the last five years.
  3. Cost and profits of cultivation.
  4. Season and methods of cultivation.
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- Average

9. Average price of each merchantable dye-stuff, according to quality in the market.
10. Total annual trade in each kind, stating the countries of import and export.
11. To what extent is European Capital employed in the production or manufacture of dyes, in indigo and other.

I have the honor &c.  
Ed. R. St. Bedome, Esq.  
Conservator of Forests.

### List of Dyes.

| Botanical names.                                                                | Dyes.<br>Part of plant used. | Places in which found.                                                     |
|---------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|
| <u>Yellow.</u>                                                                  |                              |                                                                            |
| <i>Nyctanthes arborescens</i> ,<br>fig? in Flo. Syl.                            | Flowers.                     | In all Districts about<br>temples & gardens.                               |
| <i>Butea frondosa</i> , fig? in Flo. Syl.                                       | Do.                          | In most Districts - jungles.                                               |
| <i>Cedrela toona</i> , fig? in Flo. Syl.                                        | Do.                          | Do.                                                                        |
| <i>Memecylon tinctorium</i> , fig?<br>in Flo. Syl.                              | Do.                          | Salem, Mallore, Coimbatore,<br>Madura, and more or<br>less in all jungles. |
| <i>Terminalia Chebula</i> , fig? in<br>Flo. Syl.                                | Seeds                        | In all Districts jungles.                                                  |
| <i>Toddalia aculeata</i> .                                                      | Bark (?)                     | In all Districts - hedges &c.                                              |
| <i>Curcuma longa</i> (Turmeric).                                                | Root.                        | Malabar, Vizagapatam,<br>Madura, Tinnevely,<br>Coimbatore &c.              |
| <i>Garcinia pictoria</i> , and<br><i>Morella Gamboge</i> , fig? in<br>Flo. Syl. | Gum.                         | Tinnevely, Madura,<br>Coimbatore, Malabar,<br>South Canara.                |

*Dixa Orallana*, fig<sup>d</sup> in Seeds. Gardens, temples &c.  
 Flo. Syl.

*Coscinium fenestratum* Root and leaves. Malabar, Tinnevely  
 (a creeper) South Canara jungles.

*Cassia auriculata* (Shrub) Bark & flowers. In all districts.  
Blue.

*Wrightia tinctoria*, fig<sup>d</sup> in Flowers. In all districts - jungles.  
 Flo. Syl.

*Indigofera tinctoria* (Indigo) Whole plant. All districts.

*Cassia tora* (Small shrub) Seeds Do.

Red, Orange & Scarlet.

*Urtilago Madraspatna*, Bark. Salem (called Pappi),  
 (creeper) also in other districts.

*Cassalpinia sapana*, fig<sup>d</sup> in Wood Malabar, South  
 Flo. Syl. Canara.

*Pterocarpus Santalinus*, fig<sup>d</sup> Do. Cuddapa, N. Arcot.  
 in Flo. Syl.

*Morinda citrifolia*, and other Bark and bark All districts.  
 Species, fig<sup>d</sup> in Flo. Syl. of young root.

*Carthamus tinctorius* (herb) Whole plant. Cultivated in fields  
 in many districts.

*Mallotus Philippensis*, fig<sup>d</sup> Powder of the All districts -  
 in Flo. Syl. Fruit. Jungles.

*Aldanlandia umbellata* (herb) Root. Sandy soils, generally  
 near the coast,  
 S. Arcot, Ganjam &c.

Black.

*Buchanania latifolia*, and Seeds. In most districts -  
 other species, fig<sup>d</sup> in Flo. Syl. Jungles.

*Semecarpus anacardium*, Do. Do.

fig<sup>d</sup> in Flo. Syl.

*Semecarpus Travancorica*, Do. Tinnevely Jungles.  
 fig<sup>d</sup> in Flo. Syl.

*Semecarpus auriculata*, Do. Do.

Supplemental List of Dyes to accom-  
 pany the Conservator's List forwarded with  
 his letter No. 263. A of 25<sup>th</sup> February 1876.

Brown Dyes.

*Casuarina muricata*, bark.

*Acacia arabica*, bark.

Black.

*Hibiscus rosa sinensis*, petals.

*Terminalia catappa*, bark & leaves

— *Do* — *tomentosa*, bark.

*Euphorbia tirucalli*, bark & small branches.

*Acacia catechu*, Gum.

*Cassalpinia Coriaria*, Pods.

Yellow.

*Thespesia populnea*, Capsules.

*Berberis (Speciosa)*, Berberry.

*Butea Superba*, Flowers.

Light Red.

*Punica granatum*, Flowers.

Red.

*Rubia munjista*, Plant.

*Grislea tomentosa*, Petals.

*Adenanthera pavonina*, Inner wood.

Purple.

*Basella rubra*, Fruits.

*Canna Indica*, Seeds.

Green.

*Jatropha glandulifera*.

Reddish Orange.

*Lawsonia alba*, leaves.

Blue.

*Althea rosea*, leaves

True

(True copy)

W. H. Adams Lt. Col.  
Conservator of Forests.

20  
Enclosure No. 1  
Dear Lady, from the  
Conservator of Forests to  
the Secretary to Board.  
Rev. Board's No. 285  
Dated 22<sup>nd</sup> June 1877

105-7-77 N. 2196.

Rev. 3030/77