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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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Free quarters.—The Government of India to be addressed on the subject of the provision of — to certain Sub-Inspectors of Police who are employed as warders of the Government Workhouse, Madras.	20th April No. 1256 W.	...	30th June 1891, No. 1764 W. 28th Mar. 1892, No. 1009 W. 28th Mar. 1892, No. 1010 W. 7th April 1892, No. 1153 W. 7th April 1892, No. 1154 W.
Addressed accordingly	20th April No 1257 W.	...	.....
Temporary Establishment.—The — proposed by the Superintending Engineer, III Circle, for his circle for 1892–93, sanctioned.	20th April No. 1259 W.	...	20th Mar. 1890, No. 912 W. 16th April 1890, No. 1123 W. 28th April 1890, No. 1233 W. 24th Oct. 1890, No. 2830 W. 21st Feb. 1891, No. 986 C. 16th Mar. 1891, No. 1469 C. 8th April 1891, No. 982 W. 7th April 1892, No. 1840 C.

1 Subjects.	2 Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
Madras Harbour Works.—The statement of expenditure upon the — for the quarter ending 31st December 1891, ordered to be forwarded to the Secretary of State for India.	1892. 21st April No. 1273 W.	...	.....
Forwarded accordingly	21st April 7 No. 1273 W.	...	.....
Kudligi Sub-division.—The proposal of the Superintending Engineer, III Circle, to form a new temporary Sub-division in the Bellary division to be termed the —, sanctioned.	21st April No. 1276 W.	...	12th April 1892, No. 1945 C.
Rent.—Passing orders regarding the school-house at Ongole and the jailor's quarters at Nellore being occupied rent free of —.	21st April No. 1277 W.	...	23rd Aug 1889, No. 2326 W. 13th June 1890, No. 290 D. 14th June 1890, No. 2703 W. 30th Sept. 1891, Nos 2521-22 W. 30th June 1891, No. 1764 W. 7th April 1892, Nos. 1153-54 W. 9th Mar. 1892, No. 1207 C.
Rent.—Requesting confirmation of the Government of India, to the Madras Government Order No. 2562 W., dated 8th November 1880, exempting Jailors in this Presidency from payment of — for the Government quarters occupied by them.	21st April No. 1278 W.	...	.....
Road from Settenapalle to Naravaracpet.—Estimate of Rs. 38,113 for constructing a — in the Kistna district, sanctioned.	23rd April No. 1291 W.	...	.....
Road from Ootacamund to Gúdalúr.—Estimate of Rs. 8,000 for remetalling certain portions of the — in the Nilgiri district, sanctioned.	23rd April No. 1292 W.	...	.....
Provincial Civil Works Budget for 1892-93.—Orders circulating the final issue of the —.	25th April No. 1300 W.	...	9th Feb. 1892, No. 399 W. 25th Feb. 1892, No. 612 W. 26th Feb. 1892, No. 626 W. 1st Mar. 1892, No 689 W. 9th Mar. 1892, No 1204 C. 4th April 1892, No. 1093 W.
Forwarding copies of the above to the Government of India.	25th April No. 1301 W.	...	.....

1 Subjects.	2 Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
	1892.		
Rent.—Passing orders regarding the rate of — which Mr. Muhammad Raza Khan must be required to pay for occupying the Sub-Collector's residence at Ongole, in the Nellore district.	25th April No. 1302 W.	...	18th Aug. 1886, No. 2076 W. 22nd Sept. 1888, No. 2981 W. 7th Dec. 1889, No. 3488 W. 24th July 1891, No. 1994 W. 15th Jan. 1892, No. 139 W
Sub-Registrar's Office at Sivagiri.—Estimate of Rs. 2,920 for constructing a — in the Tinnevelly district, sanctioned for execution when funds are available.	25th April No 1303 W.	...	6th Mar. 1890, No. 723 W.
Claims to Compensation for quarters.—Directing that, at stations where there are no Military Works Establishments, the Executive Engineers of Public Works divisions should furnish such certificates as may be necessary to support — of Medical and Military subordinates.	26th April No. 1313 W.	...	18th Jan. 1892, No. 188 W. 9th Mar. 1892, No. 769 W. 4th April 1892, No. 1734 C. 7th April 1892, No. 1841 C. 9th April 1892, No. 1894 C. 12th April 1892, No. 1959 C.
Accounts.—Office-note from the Examiner, Public Works Accounts, requesting that the standing orders to the Government of India Code regarding adjustments of payments of work done by one Public Department to another where the amounts involved do not exceed Rs. 50, be given effect to, communicated to officers of the Public Works Department with instructions.	26th April No. 1322 W.	...	.....
Road from Narasapatam to Waddadi.—Estimate of Rs. 60,000 for constructing a — *vid* Kottakota in the Vizagapatam district, sanctioned.	27th April No. 1334 W.	...	5th Aug. 1891, No. 609 I.
Road.—Estimate for constructing a — from the 20th mile stone on the Malapeta road to Gopálpur in the Ganjam district, sanctioned with remarks.	28th April No. 1345 W.	...	.....
Dowlaisweram Church.—Stating, with remarks, that the Government has no objection to the reconstruction of the — being undertaken by the Public Works Department, provided that no charge for the work falls on Provincial funds.	28th April No. 1346 W.	...	20th Dec. 1880, No. 2914 W. 31st Mar. 1881, No. 882 W. 18th Sept. 1883, No. 2628 W. 30th Oct. 1883, No. 858 I. 3rd Nov. 1883, No. 3116 W. 5th Dec. 1890, No. 3224 W.

1 Subjects.	2 Dates of Proceedings.	3 Date of Report to Secretary of State for India.	4 Numbers and Dates of previous Proceedings.
			(*Continued.*) 20th Mar. 1891, No. 810 W. 5th May 1891, No. 1249 W. 30th Oct. 1879, No. 2731 W. 22nd Dec. 1883, No. 3693 W. 2nd May 1885, No. 1035 W. 4th Aug. 1890, No. 571 D. 6th Oct. 1890, No. 2606 W. 14th Nov. 1890, No. 3028 W. 10th June 1891, No. 2839 C. 11th July 1891, No. 3274 C. 17th Aug. 1891, No. 2218 W.
Sagilér Project.—Ordering, with remarks, that the work of —, in the Cuddapah district, be proceeded with.	29th April No. 1366 W.	...	13th April 1891, No. 1039 W. 26th June 1891, No. 1694 W. 4th Feb. 1892, No. 347 W. 4th Feb. 1892, No. 95 I. 3rd Mar. 1892, No. 702 W. 11th Mar. 1892, No. 808 W. 12th Mar. 1892, No. 839 W. 30th Mar. 1892, No. 1027 W. 25th April 1892, No. 1312 W. 25th April 1892, No. 2188 C.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

TABULAR STATEMENT OF MISCELLANEOUS PROCEEDINGS AND MATTERS OF ROUTINE,

BUILDINGS AND ROADS,

FOR THE MONTH OF APRIL 1892.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Mrs. E. Taylor.—The memorial of — widow of Mr. H. S. Taylor, late Superintendent of Works, Periyár Project, to the address of the Secretary of State, ordered to be transmitted through the Government of India.	1st April 1892, No. 1069 W.	30th Oct. 1891, No. 2910 W. 28th Dec. 1891, No. 3467 W. 5th Mar. 1892, No. 352 W. 19th Mar. 1892, No. 1469 C.
Forwarded for transmission to the Secretary of State accordingly.	1st do. do. No. 1070 W.	.....
Coats and belts.—The purchase of 16 — for camp watchmen and lascars No. I Periyár division, sanctioned.	1st do. do. No. 1071 W.	4th Nov. 1887, No. 2920 W. 5th Jan. 1888, No. 9 W. 2nd May 1888, No. 1284 W. 18th Mar. 1892, No. 1425 C.
Travelling allowances.—Proceedings, Financial Department, declining to move the Government of India for extending to certain portions of the Nílgiri Hills, the schedule of localities for which special rates of — are allowable, communicated to the Superintending Engineer, IV Circle.	1st do. do. No. 1072 W.	17th Mar. 1892, No. 1401 C.
Government buildings at Madras.—Proceedings, Local and Municipal Department, passing orders on the plans to be submitted in connection with —, communicated to the Consulting Architect to Government.	1st do. do. No. 1073 W.	8th Feb. 1892, No. 630 C. 13th Feb. 1892, No. 744 C.
Mr. S. Gopalakrishna Iyer, Assistant Engineer.—Confirming refusal to grant 15 days privilege leave to — on his further application.	2nd do. do. No. 1075 W.	17th Mar. 1892, No. 1399 C.
His Excellency the Governor's sixth tour.—The revised programme of —, communicated to officers concerned.	2nd do. do. No. 1076 W.	8th Mar. 1892, No. 757 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Books and Periodicals.—Proceedings, Financial Department, directing the Accountant-General to arrange for the payment of £ 224–6–1 to Messrs. Baker and Co. for — supplied during the second half of 1891, recorded.	2nd April 1892, No. 1078 W.	.....
Inspection notes of North Arcot Division by the Examiner, Public Works Accounts.—Correspondence regarding certain items in the —, recorded.	2nd do. do. No. 1079 W.	24th July 1891, No. 2011 W. 8th Oct. 1891, No. 4390 C. 19th Nov. 1891, No. 5131 C. 19th Nov. 1891, No. 5132 C. 18th Dec. 1891, No. 5726 C 21st Dec. 1891, No. 5777 C. 23rd Jan. 1892, No. 235 W. 21st Mar. 1892, No. 1474 C.
Inspection notes of the Superintending Engineer's office, IV Circle, by the Examiner of Public Works Accounts.—Correspondence relative to certain items in the —, recorded.	2nd do. do. No. 1080 W.	7th Jan. 1888. No. 48 W. 8th Mar. 1890, No. 768 W. 23rd May 1890, No. 2393 C. 2nd June 1890, No. 2475 C. 18th June 1890, No. 2691 C. 8th Jan. 1892, No. 83 W. 17th Mar. 1892, No. 1398 C. 23rd Mar. 1892, No. 1533 C.
Compensation in lieu of quarters.—Correspondence on the subject of allowing Rs. 17–8–0 per mensem for — to Military apprentice overseers in the Public Works Department, recorded.	2nd do. do. No. 1081 W.	4th Nov. 1880, No. 2532 W. 17th Feb. 1881, No. 427 W. 10th Sept. 1879, No 2313 W. 4th Dec. 1880, No. 2795 W. 29th Mar. 1881, No. 858 W. 9th Mar. 1892, No. 1206 C.
Rulings.—Office-note from the Chief Secretary stating that it will henceforth be the duty of the Under-Secretary in the Judicial Department to bring to notice of Government all — of the High Court which affect the interests of Government, recorded.	2nd do. do. No. 1082 W.	.....
Sub-Registrar's Office at Prattipadu.—Letter from the Superintending Engineer, I Circle, stating that the work of — can be postponed and that the wood work already executed need not be disposed of, recorded.	2nd do. do. No. 1083 W.	19t Jan. 1892, No. 311 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Mr. H. T. Keeling, Assistant Engineer.—The correspondence relative to the subject of three months' privilege leave granted to — No I Periyár division, recorded.	2nd April 1892, No. 1084 W.	8th Dec. 1891, No. 5508 C. 28th Sept. 1891, No. 4257 C. 6th Jan. 1892, No. 97 C. 12th Jan. 1892, No. 207 C. 17th Feb. 1892, No. 505 W. 3rd Mar. 1892, No. 686 W. 18th Jan. 1892, No. 190 W. 21st Mar. 1892, No. 1485 C. 17th Mar. 1892, No. 1399 C.
Examination in Oriental languages.—Proceedings, Military Department, defining the term "Local Government" or administration, as used in Article 2654, Army Regulations, India, Volume II, Part II in regard to authorising the —, by Military Boards, of persons not in Government employ, recorded.	2nd do. do. No. 1085 W.	.....
Credit.—Explanation of the Executive Engineer, Tanjore division for applying for monthly — in excess of grant for February 1892, recorded.	2nd do. do. No. 1086 W.	23rd May 1891, Nos. 442-43 I. 2nd May 1891, No. 2353 C. 28th April 1891, No. 2288 C. 2nd April 1891, No. 1814 C. 1st Feb. 1892, No. 291 W. 29th Feb. 1892, No. 203 I. 9th Mar. 1892, No. 1212 C. 17th Mar. 1892, No. 1412 C. 24th Mar. 1892, No. 1537 C.
Lands.—Notification for acquisition of — required for the construction of an outpost for the police on the Virudupatti road on the bank of the Mooppanurni tank in Tirushuli division, Madura district, ordered to be published in the *Fort St. George Gazette.*	4th do. do. No. 1094 W.	.....
Mr. J. P. Davidson, Executive Engineer.—Memorial from — on the subject of his retarded promotion, ordered to be forwarded to the Government of India.	4th do. do. No. 1099 W.	21st Sept. 1886, Nos. 2410-11 W.
Forwarded accordingly	4th do. do. No. 1100 W.	.....
Stores.—Office-note from the Examiner, reporting on the purchase of certain English — without the sanction of Government in the Godávari Eastern and the Bellary divisions, communicated to the Superintending Engineers, I and III Circles for report.	4th do. do. No. 1101 W.	2nd May 1888, No. 1280 W. 19th Dec. 1891, No. 5766 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Leare.—Proceedings, Educational Department, regarding — to students of the Madras College of Engineering during their practical course, communicated to the Examiner, Public Works Accounts.	4th April 1892, No. 1102 W.	18th Jan. 1886, No. 138 W. 6th May 1891, No. 1264 W. 14th Dec. 1891, No. 5620 C. 24th Dec. 1891. Nos. 5801-02 C. 29th Oct. 1881, No. 4788 C. 6th Feb 1892, No. 377 W. 12th Mar 1892, No. 1288 C.
Travelling allowance.—Correspondence regarding payment of — prior to audit to certain members of the West Coast Division, recorded with reference to G.O., No. 998 W., dated 25th March 1892.	4th do. do. No. 1103 W.	19th Feb. 1891, No 922 C. 25th Mar. 1892. Nos. 998-99 W.
Lands.—Notification for acquisition of — required for the construction of a Taluk Cutcherry at Vinukonda, Kistna district, ordered to be published in the *Fort St. George Gazette*.	4th do. do No. 1104 W.	.....
Budget.—Proceedings, Local and Municipal Department, reviewing the Bellary District Board — for 1892-93, communicated to the Superintending Engineer, III Circle.	4th do. do. No. 1105 W.	10th June 1891, No. 1584 W.
Funds.—Telegram from the Superintending Engineer, IV Circle, applying for an additional allotment of Rs. 4,000 under Provincial communication, repairs, for the West Coast Division, recorded with the remark that the application was made too late in the official year.	4th do. do. No. 1106 W.	.....
Mr. A. Joyce, Executive Engineer, West Coast Division.—Orders on the memorial, to the Government, of — regarding his supersession.	4th do. do. No. 1107 W.	20th Jan. 1888, No. 260 C. 8th Dec 1888, No. 3866 W. 30th April 1889, No. 1148 W. 22nd Nov. 1890, No. 4845 C. 3rd April 1891, No. 1874 C.
Mr. H. H. O'Connell, Executive Engineer.—Sanctioning certain establishment for employment for 6 months under — in charge of Famine Works, Nellore district.	4th do. do. No. 1108 W.	.....
Funds.—Ordered that certain transfer of — affecting the budget of 1891-92 applied for by the Executive Engineer, Chingleput Division, cannot be sanctioned, the official year having expired.	4th do. do. No. 1109 W.	.....
Inspection notes, Bellary Division, by the Examiner of Public Works Accounts.—Correspondence regarding the summary of —, recorded.	4th do. do. No. 1110 W.	1st Oct 1880, No 2277 W. 8th Feb. 1881, No. 337 W. 14th July 1881, No. 1729 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 20th May 1889, No. 1343 W. 18th Feb. 1890, No. 533 W. 20th Mar. 1890, No. 912 W. 16th May 1890, No. 2271 C. 30th May 1890, No. 2431 C. 17th June 1890, No. 1679 W. 18th July 1890, No. 1959 W. 2nd Aug. 1890, No. 3262 C. 29th Sept. 1890, No. 3920 C. 17th Nov. 1890, No. 3056 W. 9th Dec. 1890, No. 5114 C. 17th Jan. 1891, No. 241 C. 17th Mar. 1891, No. 1489 C. 7th April 1891, No. 1951 C. 11th Jan. 1892, No. 104 W. 22nd Feb. 1892, No. 921 C. 25th Mar. 1892, No. 1574 C.
Mr. Lazaro, clerk, Chief Engineer's Office.—Proceedings, Public Department, granting one year more to — to liquidate his debts, recorded.	4th April 1892, No. 1111 W.	31st Mar. 1892, No. 1052 W and file.
Mrs. Rawson.—Proceedings, Military Department, regarding passage by private steamer sanctioned by the Government of India for — as a special case, recorded.	5th do. do. No. 1114 W.	8th Jan. 1892, No. 122 C. 9th Jan. 1892, No. 147 C. 14th Jan. 1892, No. 210 C. 18th Jan. 1892, No. 187 W. 4th Feb. 1892, No. 584 C. 12th Feb. 1892, No. 742 C. 15th Feb. 1892, No. 468 W. 15th Feb. 1892, No. 469 W. 23rd Feb. 1892, No. 592 W. 23rd Feb. 1892, No. 593 W. 22nd Feb. 1892, No. 919 C. 24th Feb. 1892, No. 958 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(Continued.) 24th Feb. 1892, No. 959 C 24th Feb. 1892, No. 965 C. 24th Feb. 1892, No. 966 C. 26th Feb. 1892, No. 1016 C. 29th Feb. 1892, No. 1058 C. 3rd Mar. 1892, No. 704 W. 9th Mar. 1892, No. 1217 C. 11th Mar. 1892, No. 826 W.
Mrs. Rawson.—Proceedings, Military Department, stating that General Officer Commanding, Madras district may be instructed to take no further action in providing a passage home to — by private steamer, recorded.	5th April 1892, No. 1115 W.	.....
Funds.—Orders on certain proposals of surrenders and demands of —, South Arcot division.	5th do. do. No. 1116 W.	15th Feb. 1892, No. 793 C. 10th Mar. 1892, No. 1261 C. 16th Mar. 1892, No. 1382 C. 29th Mar. 1892, No. 1023 W.
Volume I, Public Works Code.—Endorsement from the Government of India forwarding copy of a communication to the Superintendent, Government Printing, India, asking him to supply this Government with 200 copies of the 6th edition of — when that publication issues.	5th do. do. No. 1117 W.	4th Jan. 1892, No. 6 W. 8th Mar. 1892, No. 1190 C. 24th Mar. 1892, No. 978 W. 30th Mar. 1892, No. 1031 W.
Names of places, &c., in Bengal.—Proceedings, Public Department, forwarding copy of a resolution on the subject of the transliteration of —, of vernacular terms used in official correspondence, recorded.	5th do. do. No. 1118 W.	.....
Conservancy Establishment.—Proceedings, Financial Department, passing orders on the question of the grant of pension to men employed on the — of the Thottiyam Chinnavoikal channel, Trichinopoly district, communicated to the Superintending Engineer, VI Circle, and the Examiner, Public Works Accounts.	5th do. do. No. 1119 W.	1st Dec. 1891, No. 3213 W and file. 16th Jan. 1892, No. 267 C and file. 10th Mar. 1892, No. 1242 C and file.
Sergeant-Instructor Watt John.—Application from the Superintending Engineer, II Circle, requesting to allot under Imperial Military repairs, Nellore division, to meet compensation charges for the quarters of —, recorded with reference to G.O., No. 871 W., dated 16th March 1892.	5th do. do. No. 1120 W.	9th Dec. 1891, No. 5538 C. 18th Dec. 1891, No. 5729 C. 21st Mar. 1892, No. 1494 C. 10th Nov. 1891, No. 4957 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(Continued). 25th Feb. 1892, No. 619 W. 16th Mar. 1892, No. 871 W.
Budget.—Proceedings, Local and Municipal Department reviewing the Madura District Board — for 1892-93, communicated to the Superintending Engineer, VI Circle.	5th April 1892, No. 1121 W.	22nd May 1891, No. 1398 W.
Funds.—Report from the Superintending Engineer, III Circle, furnishing details for Rs. 1,000 surrendered under Provincial original works referred to in Proceedings No. 1026 W., dated 30th March 1892, communicated to the Examiner, Public Works Accounts.	5th do. do. No. 1122 W.	30th Mar. 1892. No. 1026 W.
Confidential Reports.—Forwarding to the Government of India the — for 1891, on Lieutenant-Colonel W. H. Coaker, R.E., Major W. V. Constable, R.E, Captain A. D. G. Shelley, R.E., and Lieutenant W. C. Smyth, R.E. for transmission to the Adjutant-General in India.	5th do. do. No. 1123 W.	5th Sept. 1891, No. 2381 W. 29th Feb. 1892, No. 656 W. 15th Mar. 1892, Nos. 862-63 W. 22nd Mar. 1892, No. 944 W. 24th Mar. 1892, No. 1547 C.
Telegraph office at Shenkota.—Ordered that the Government of India be informed that this Government has no objection to the proposed opening of a — by the Travancore Durbar.	5th do. do. No. 1124 W.	23rd Mar. 1892, No. 1514 C.
Informed accordingly	5th do. do. No. 1125 W.	.....
Mr. A. T. Mackenzie, Executive Engineer.—Petition from — to the address of His Excellency the Viceroy, ordered to be forwarded to the Government of India.	5th do. do. No. 1126 W.	.....
Forwarded accordingly	5th do. do. No. 1127 W.	.....
Famine Code.—Proceedings, Revenue Department, ordering the supply of 2 copies of the — to the Superintending Engineer, IV Circle, for issue to the Sub-divisions, forwarded to the Superintending Engineer concerned.	6th do. do. No. 1128 W.	29th Mar. 1892, No. 1625 C.
Land.—Stating that the Government is not prepared to sanction any departure from the regular procedure under which all — should be acquired by the Revenue authorities, in the case of payment without the intervention of the Revenue Department of compensation for land for Glenrock and Sheerdale traces of the Vayitri-Gúdalúr Road, proposed by the Superintending Engineer, IV Circle.	6th do. do. No. 1130 W.	25th Sept. 1888, No. 726 D. 21st Nov. 1888, No. 4604 C. 19th Dec. 1888, No. 3977 W. 23rd Jan. 1889, No. 337 C. 8th Mar. 1889, No. 699 W. 21st Mar. 1889, No. 855 W. 5th June 1891, No. 1536 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Vedarniem Canal.—Office-note from the Examiner, Public Works Accounts, regarding the amount of provision to be made in the incorporated Local Fund Budget of 1892-93 for —, communicated to the Superintending Engineer, V Circle for report of the actual expenditure from January to March 1892, and the amount required for 1892-93.	6th April 1892, No. 1131 W.	19th Nov. 1891, No. 3106 W.
Last pay certificates.—Blank list of officers proceeded to England with — for the quarter ended 31st March 1892, ordered to be forwarded to the Home Government.	6th do. do. No. 1132 W.	7th Nov. 1892, Nos. 73-74 W.
Forwarded accordingly	6th do. do. No. 1133 W.	.....
Statement of unauthorized appropriations for February 1892.—Orders on the — submitted by the Examiner, Public Works Accounts.	6th do. do. No. 1134 W.	9th Feb. 1892, No. 406 W. 26th Feb. 1892, Nos. 634, 634-A W. 3rd Mar. 1892, No. 697 W.
Copy of the above forwarded to the Accountant-General, Public Works Department.	6th do. do. No. 1135 W.	.....
Mr. C. M. Smith, Executive Engineer.—Stating that the sanction of the Government of India to admit the full salary of a Superintending Engineer, 3rd class, which — was allowed to draw was special and cannot be applied retrospectively to an acting appointment made two years ago.	6th do. do. No. 1136 W.	13th Mar. 1891, No. 737 W. 10th Mar. 1891, No. 1328 C. 1st April 1891, No. 1783 C. 2nd April 1891, No. 1811 C. 24th April 1891, No. 2224 C. 14th May 1891, No. 1329 W. 24th June 1891, No. 1702 W. 10th Aug. 1891, No. 3635 C. 17th Aug. 1891, No. 3739 C. 10th Sept. 1891, No. 4026 C. 9th Oct. 1891, No. 4419 C. 3rd Nov. 1891, No. 4854 C. 8th Jan. 1892, No. 82 W. 12th Mar. 1892, No. 1292 C. 4th Jan. 1892, No. 26 W. 4th Jan. 1892, No. 22 W.
Famine relief works.—Proceedings, Revenue Department, approving the list of — selected by the Collector of Bellary for the district, to be put in hand in case any necessity arises, communicated to the Superintending Engineer, IV Circle.	6th do. do. No. 1137 W.	18th Dec. 1891, No. 5742 C. 18th Dec. 1891, No. 3429 W. 15th Jan. 1892, No. 133 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 22nd Jan. 1892, No. 220 W. 11th Mar. 1892, No. 814 W and file.
Notes of Inspection, Kurnool division by the Examiner of Public Works Accounts.—Correspondence regarding the —, recorded.	6th April 1892, No. 1138 W.	16th Feb. 1889, No. 479 W. 1st May 1889, No. 2114 C. 27th Aug. 1889, No. 2360 W. 26th Sept. 1889, No. 4313 C. 5th Dec. 1889, No. 5707 C. 16th Jan. 1890, No. 253 C. 20th Jan. 1890, Nos. 33-34 I. 24th Jan. 1890, No 235 W. 3rd Feb. 1890, No. 573 C. 12th Mar. 1890, No 1335 C. 15th Mar. 1890, No. 1427 C. 14th April 1890, No. 1835 C. 25th April 1890, No. 2030 C. 28th May 1890, No. 1478 W. 27th Jan. 1891, No. 463 C. 7th Mar. 1891, No. 1275 C. 11th Mar. 1891, No 1355 C. 13th April 1891, No. 1038 W. 21st May 1891, No. 2589 C. 30th Sept. 1891, No. 2615 W. 2nd Dec. 1891, No. 5411 C. 12th Feb. 1892, No. 729 C. 12th Feb. 1892, No. 730 C. 22nd Dec. 1891, No. 3460 W. 24th Mar. 1892, No. 1559 C.,
Colandasami Naidu.—Endorsement from the Revenue Department transferring the petition of — regarding his memorial to the Bengal Government, recorded in continuation of No. 963 W., dated 23rd March 1892.	6th do. do. No. 1139 W.	23rd Mar. 1892, No. 963 W and file.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Correspondence.—Letter from the Secretary, Public Works Department, at the India Office, acknowledging the receipt of certain despatches to the address of the Secretary of State for India, recorded.	6th April 1892, No. 1140 W.	25th May 1891, No. 1408 W. 19th Dec. 1891, No 3453 W 2nd Sept. 1891, No. 12/2331 W. 25th Sept. 1891, No. 13/743 I. 6th Oct. 1891, No. 14/771 I. 10th Nov. 1891, No. 15/2999 W.
Accounts.—Return showing dates of receipt of — for February 1892 in the office of the Examiner, Public Works Accounts, Madras, recorded.	6th do do. No. 1141 W.	4th Mar. 1892, No. 721 W.
Famine Code.—Proceedings, Revenue Department, furnishing 10 copies of — for distribution to the subordinates employed on relief works in III Circle, forwarded to the Superintending Engineer concerned.	6th do. do. No. 1142 W.	.....
Erratum in G.O., No. 998 W., dated 25th March 1892, regarding payment of salaries &c., prior to audit.	6th do. do. No. 1143 W.	6th Feb. 1890, No. 401 W. 25th Mar. 1892, Nos. 998-99 W. 4th April 1892, No. 1103 W.
Copy of the above to the Government of India.	6th do. do. No. 1144 W.	.....
Incomplete works of 1891–92.—Inviting the attention of the Director-General of Telegraphs to Proceedings, No. 293 W., dated 2nd February 1892, regarding allotment of funds which may be required for —.	6th do. do. No. 1148 W.	9th April 1885, No. 863 W. 20th April 1891, No. 1085 W. 4th May 1891, No. 1237 W. 2nd Feb. 1892, No. 293 W.
Famine Relief.—Proceedings, Financial Department, issuing instructions regarding famine grants and expenditure during 1892–93, communicated to officers concerned.	6th do. do. No. 1150 W.	.....
Pálkonda taluk, Vizagapatam district.—Proceedings, Revenue Department, approving of certain proposals regarding the administrative changes to be made in the assumption of management of —, communicated to the Superintending Engineers, II and I Circles, with instructions.	6th do. do. No. 1151 W.	30th June 1891, No 1765 W.
Irratum in G.O., No. 994 W., dated 25th March 1892, regarding modification of funds, V Circle.	7th do. do. No. 1155 W.	25th Mar. 1892, No. 994 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Unanswered References.—Quarterly statement of references from the Government of India, Military Department, remaining unanswered in the office of the Secretary to Government, Public Works Department, at the end of the quarter ending 31st March 1892, forwarded to the Government of India.	7th April 1892, No. 1156 W.	.....
Mr. W. Jopp, Executive Engineer.—Memorial to His Excellency the Viceroy and Governor-General from —, ordered to be forwarded to the Government of India.	7th do. do No. 1157 W.	.....
Forwarded accordingly	7th do. do. No. 1158 W.	.....
Mr. P. R. Allen, Assistant Engineer.—A petition from — for promotion, ordered to be forwarded to the Government of India.	7th do. do. No. 1159 W.	.....
Forwarded accordingly	7th do. do. No. 1160 W.	.....
Funds.—Endorsement from the Superintending Engineer, V Circle, proposing to surrender Rs. 100 provided for postal repairs in the Negapatam division, recorded with remarks.	7th do. do. No. 1161 W.	.....
Watchmen, No. I Periyár division.—The pay of the four extra — up to 12th March 1892, admitted finally.	7th do. do. No. 1162 W.	21st Mar. 1891, No. 827 W. 17th Nov. 1891, No. 3081 W. 24th Feb. 1892, No. 950 C. 9th Mar. 1892, No 774 W.
Advance of salary and travelling allowances.—Grant of — applied for, by the Superintendent of Works, No. I Periyár division, in favour of the temporary and permanent establishment to enable them to join at Trichinopoly, sanctioned.	7th do. do. No. 1163 W.	8th July 1890, No. 1872 W. 19th June 1891, No. 1656 W.
Warm clothing —The excess outlay of Rs 16 incurred on — provided for the lascars, &c., of the Vizagapatam division, sanctioned.	7th do. do No. 1164 W.	12th May 1879, No. 1355 W. 19th June 1880, No. 1439 W. 27th Nov. 1883, No. 3390 W. 21st Jan. 1885, No. 126 C. 31st Mar. 1885, No. 823 W. 7th Nov. 1887, No. 2967 W. 18th Sept. 1891, No. 2510 W.
Tools.—Transfer from Provincial to famine — of 60 tampers square issued to the Sub-Collector, Cuddapah for famine works, sanctioned.	7th do. do. No. 1165 W.	26th May 1891, No. 1435 W. 14th July 1891, No. 1934 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Mr. Gilbert, Temporary Overseer.—Transit pay and travelling allowance to — who was transferred from the IV to V Circle, sanctioned.	7th April 1892, No. 1166 W.	13th June 1891, No 2905 C. 20th Oct. 1891, No. 4583 C. 20th Oct 1891, No. 4582 C. .....
K S. Kodandaram Iyer, Accountant, 4th Grade.—Presidency allowance from 26th March at Rs. 30 per mensem to — who was transferred from the Madura division to the Examiner's office, sanctioned.	7th do. do. No. 1167 W.	
Waterman, office of the Chief Engineer for Irrigation.—The continued employment during 1892–93 of a — on Re. 1 per mensem, sanctioned.	7th do. do. No 1168 W.	29th April 1885, No. 1021 W. 17th May 1889, No. 1318 W. 30th Oct. 1889, No. 3065 W. 29th April 1890, No 2057 C. 20th May 1890, No. 1422 W. 24th Mar. 1891, No. 876 W.
Demarcation Stones.—The sale on credit from Mogahrazapuram quarry, Kistna Western division, of 26 — valued at Rs. 9–12–0 to Reverend Padfield, sanctioned.	7th do. do. No. 1169 W.	.....
Madras Harbour Works.—Statement of progress made upon the — during February 1892, recorded with remarks.	7th do. do. No. 1170 W.	9th Jan. 1892, No. 97 W. 12th Feb 1892, No. 430 W. 1st Mar. 1892, No. 682 W.
Budget.—Proceedings, Local and Municipal Department, reviewing the Godávari District Board — for 1892–93, communicated to the Superintending Engineer, I Circle.	8th do. do. No. 1171 W.	9th May 1891, No. 1277 W.
Indian Military Service Family Pensions.—Endorsement from the Government of India communicating certain orders of the Secretary of State as to exemption of continuous service Royal Artillery and Engineer officers from payment of interest on amounts paid to the —, under clause 44, India Army circulars, 1891, communicated to Superintending Engineers and the Consulting Engineer for Railways.	8th do. do. No. 1172 W.	29th May 1891, No. 1484 W.
General Mullins' "Irrigation Manual."—Informing the Chief Engineer, Madras Command, Military Works, that copies of — are available for sale at the Government Press.	8th do. do. No. 1175 W.	27th Aug. 1890, No. 705 D. 10th Oct. 1890, No. 2657 W. 22nd Oct. 1889, No. 515 I 27th June 1890, Nos. 356-57 I. 12th May 1891, No. 401 I.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Coal.—Directing that the General Superintendent, Public Works Workshops, might accept payment for the — supplied to the Madras Harbour Works at the rate fixed by the Harbour Trust Board after survey, and that he should not undertake any orders in future except from principals or duly authorized agents.	8th April 1892, No. 1176 W.	25th May 1886, No. 371 I. 17th July 1890, No. 1931 W. 27th Oct. 1890, No. 2833 W. 16th Feb. 1891, No. 431 W. 24th April 1891, No. 1139 W. 3rd Aug. 1891, No. 2092 W. 29th Oct. 1891, No. 2892 W. 27th Nov. 1891, No. 3185 W. 27th Nov. 1891, No. 3192 W. 4th Jan. 1892, No. 27 W. 9th Feb. 1892, No. 409 W.
Indents.—Despatch from the Secretary of State sanctioning compliance with certain — for stores on the Home Government, recorded.	8th do. do. No. 1177 W.	2nd Nov. 1891, Nos. 2926-27 W. 11th Nov. 1891, Nos. 3013—15 W. 30th Nov. 1891, Nos. 3198-99 W.
Pier trucks.—Forwarding to the Government of India copy of letter No. 120 W., dated 12th January 1892 together with previous correspondence in connection with the wheels and axles for — indented for, on the Home Government on account of Madras Harbour Works.	8th do. do. No. 1178 W.	2nd Nov. 1891, Nos. 2926-27 W. 12th Jan. 1892, Nos. 1119-20 W. 3rd Mar. 1892, No. 693 W. 4th Mar. 1892, No. 718 W. 9th Mar. 1892, No. 784 W. 31st Mar. 1892, Nos. 1040-41 W.
Season, Cuddapah.—Communicating to Superintending Engineer, III Circle, Proceedings, Revenue Department, regarding the opening of certain roads in in the Sub-Division for the relief of distress and sanctioning with remarks, certain temporary establishment for looking after the Minor Irrigation Works in that district.	8th do. do. No. 1179 W.	14th Mar. 1892, No. 855 W. 12th Mar. 1892, No. 839 W. 11th Mar. 1892, No. 808 W. 10th Mar. 1892, No. 790 W. 25th Mar. 1892, No. 1000 W.
Mr. S. D. Pears, Executive Engineer.—Memorial from — to His Excellency the Viceroy and Governor-General of India, ordered to be forwarded to the Government of India.	8th do. do. No. 1180 W.	.....
Forwarded accordingly	8th do. do. No. 1181 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Volunteer Serjeant's Bungalow at Tellicherry.—Proceedings, Local and Municipal Department, stating that the cost of repairing the wall of the — should be borne by the Public Works Department, communicated to the Superintending Engineer, IV Circle.	8th April 1892, No. 1182 W.	27th Nov. 1891, No 3181 W. 7th Mar. 1889, No. 670 W. 4th Jan. 1892, No. 24 C.
Patent tanned canvas hose.—Endorsement from the Superintending Engineer, I Circle, forwarding the explanation of the Executive Engineer, Godávari Eastern division, regarding the local purchase of a — without Government sanction, communicated to the Superintending Engineer, V Circle, for obtaining the explanation of the General Superintendent, Public Works Stores, to the breach of rule.	8th do. do. No. 1183 W.	25th Jan. 1886, No. 202 W. 2nd July 1886, No. 1679 W. 21st Aug. 1888, No. 2577 W. 18th Feb. 1892, No. 521 W.
New cricket Pavilion on the Chepák ground.—The acceptance by the Consulting Architect of an honorarium of Rs. 250 by the Madras Cricket Committee for his assistance in the execution of the —, sanctioned.	8th do. do. No. 1184 W.	.....
Rules.—Copies of the list of general rules and orders made under enactments, applying to British India, received from the Legis ative Department, distributed.	8th do. do. No. 1185 W.	12th Mar. 1892, No. 830 W.
Minor Irrigation Works.—Proceedings, Revenue Department, approving of Board's instructions on the talukwar statement of — out of repair, which can be usefully repaired, and the number for which repair estimates are ready in the Nellore district, communicated to the Superintending Engineer, II Circle.	9th do. do. No. 1186 W.	.....
Season, Cuddapah.—Proceedings, Revenue Department, recording Board's Proceedings submitting fortnightly narrative of the Cuddapah district for the period ending 15th March 1892, communicated to the Superintending Engineer, III Circle.	9th do. do. No. 1187 W.	3rd Mar. 1892, No. 690 W. 10th Mar. 1892, No. 805 W. 19th Mar. 1892, No. 927 W.
Civil Agency Works—Proceedings, Revenue Department, recording Board's Proceedings on the revised list of — for 1892–93 suitable for famine relief, in the Bellary district, communicated to the Superintending Engineer, III Circle.	9th do. do. No. 1188 W.	.....
Lantern.—Proceedings, Marine Department, communicating copy of letter from the Director-General of Stores regarding supply of a 3rd order — and dioptric apparatus for a double flashing light for the Madras High Court, communicated to the Consulting Architect to Government.	9th do. do. No. 1189 W.	17th Sept. 1890, No. 2489 W. 3rd Feb. 1891, No 314 W. 26th Feb. 1891, No. 548 W. 13th April 1891, No. 1026 W. 2nd May 1891, No. 1226 W. 3rd June 1891, No. 1523 W. 10th July 1891, No. 1900 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(Continued.) 15th Oct. 1891, No. 4512 C. 11th Nov. 1891, No. 3003 W.
Printing.—Excess charge of Rs. 2–6–0 incurred on account of — of forms for use in the Godávari Western division, sanctioned.	9th April 1892, No. 1190 W.	14th Sept. 1891, No. 2460 W. 17th Feb. 1892, No. 506 W. 18th Mar. 1892, No. 903 W.
Glass tubes.—The sale or credit of 24 — valued at Rs. 8–2–0 to the Local Fund Engineer, Kistna district, from the district stock, sanctioned.	9th do. do. No. 1191 W.	.....
Messrs. A. Joyce and G. E. Mason, Executive Engineers.—Conferring on — the increased powers indicated in G.O., Nos. 3198 W. and 1367 W., dated 11th November 1889 and 16th May 1890, respectively.	9th do. do. No. 1192 W.	11th Nov. 1889, No. 3198 W. 5th Dec. 1889, No. 3455 W. 16th May 1890, No. 1367 W.
Mr. Burlton, Executive Engineer, Chingleput division.—Proceedings, Public Department, declining to pay Dr. Tucky's fees for medical attendance on —, communicated to the Superintending Engineer, V Circle, for Mr. Burlton's information.	9th do do. No. 1193 W.	15th Oct. 1884, No. 775 E. 14th Mar. 1885, No. 627 W. 24th Aug. 1885, No. 510 E. 23rd Feb. 1886, No. 720 C. 2nd Nov. 1885, No. 2475 D. 22nd May 1889, No. 1374 W. 26th Feb. 1892, No. 1034 C.
High Court Buildings, Madras.—Memorandum to the Judicial Department regarding the additional accommodation applied for by the High Court Vakils in the new — and the views of the Consulting Architect thereon which are concurred in generally by the Government.	9th do. do. No. 1194 W.	15th June 1891, No. 1619 W. 9th Dec. 1891, No. 3301 W. 18th Jan. 1892, No. 177 W. 18th Jan. 1892, No. 178 W. 6th Feb. 1892, No. 617 C.
Negapatam Port.—Proceedings, Marine Department, stating that the existing financial conditions preclude the further consideration for the present of the proposed erection of a pier and that the estimates for some other works called for in paragraph 2 of G.O., dated 2nd May 1891, No. 175, should be expedited, communicated to the Superintending Engineer, V Circle, for submission of the plans and estimates required.	9th do. do. No. 1195 W.	11th May 1891, No. 1295 W. 24th Oct. 1891, No. 4659 C. 25th Feb. 1892, No. 997 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Macerating room in the Medical College, Madras.—Proceedings, Educational Department, declining to sanction the proposed estimate for constructing a — and directing that the Consulting Architect should prepare estimates, &c., only on approval of projected works by Government, communicated to the Consulting Architect.	9th April 1892, No. 1198 W.	.....
Koraput School-house.—The execution of the repairs and improvements to the — by the Public Works Department, approved, and the estimate for the same, forwarded with remarks, to the Superintending Engineer, I Circle, for scrutiny and sanction.	11th do. do. No. 1199 W.	.....
Provincial Budget for 1892-93.—Orders on the endorsement from the Superintending Engineer, IV Circle, proposing certain transfers of allotments for works, from Coimbatore to Salem division in the —.	11th do. do. No. 1200 W.	9th Feb. 1892, No. 399 W.
Budget.—Proceedings, Local and Municipal Department, reviewing the Trichinopoly District Board — for 1892-93, communicated to the Superintending Engineer, VI Circle.	11th do. do. No. 1201 W.	9th June 1891, No. 1566 W.
Budget.—Proceedings, Local and Municipal Department, reviewing the Anantapur District Board — for 1892-93, communicated to the Superintending Engineer, III Circle.	11th do. do. No. 1202 W.	10th June 1891, No. 1585 W.
Buildings.—Certain — enumerated by the Executive Engineer, Bellary division, ordered to be omitted from the Capital and Revenue Accounts.	11th do. do. No. 1203 W.	28th Mar. 1883, No. 940 W. 4th April 1884, No. 920 W. 7th Nov. 1884, No 2787 W. 20th Nov. 1889, No 3298 W. 28th Jan. 1890, No. 478 C. 28th Feb 1890, No. 636 W. 20th Mar. 1890, No. 912 W. 28th April 1890, No. 1233 W. 5th Nov. 1889, No. 5067 C. 30th Dec. 1889, No. 3662 W. 29th Jan. 1890, No. 295 W. 24th Feb. 1891, No. 1063 C. 19th Mar. 1891, No. 1577 C. 27th Nov. 1891, No. 3188 W. 9th Jan. 1892, No. 96 W. 14th June 1890, No. 1656 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 15th Jan. 1892, No. 139 W. 10th Jan. 1891, No. 104 W. 12th Mar. 1891, No. 707 W. 16th April 1891, No 1056 W. 13th May 1891, No. 1314 W. 5th Feb. 1892, No. 598 C. 26th Feb. 1892, No. 639 W. 30th Sept. 1891, Nos. 2621-22 W. 9th Dec. 1891, No. 3307 W. 18th Mar. 1892, No. 900 W.
B. Harinudu.—Rs 2,540-8-7 due to one —, deceased contractor on the work of constructing Kanakavalli drain in the Kistna Eastern division, ordered to be credited to the Provincial Revenue.	11th April 1892, No. 1204 W.	1st Oct. 1891, No. 2644 W. 1st Dec. 1891, No. 3215 W. 19th Dec. 1891, No. 3446 W. 4th Feb. 1892, No. 337 W. 16th Feb. 1892, No. 484 W. 18th Mar. 1892, No. 904 W.
Road from Giddalúr to Mandlapad.—Proceedings, Revenue Department, approving of the addition of the —, Kurnool district, to the list of relief works recommended in Board's Proceedings, No. 218, dated 21st March 1892, communicated to the Superintending Engineer, III Circle.	11th do. do. No. 1206 W.	8th Feb. 1892, No. 398 W. 5th Mar. 1892, No. 1153 C. 16th Mar. 1892, No. 1376 C. 21st Mar. 1892, No. 935 W. 24th Mar. 1892, No. 980 W. 31st Mar. 1892, No. 1054 W.
P. Ramaswami Naidu.—Appointing — as temporary overseer on Rs 60 per mensem and posting him to the III Circle, Anantapur division.	11th do. do. No. 1207 W.	.....
Mr. J. C. Larminie, Executive Engineer, Coimbatore division.—Journey on duty made by — from Jalárpet to Madras and back, sanctioned.	11th do. do. No. 1208 W.	2nd Sept. 1891, No. 806 D. 4th Sept. 1891, No. 820 D. 8th Dec 1891, No. 5514 C. 12th Jan. 1892, No. 194 C. 23rd Feb. 1892, No. 925 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Quarters.—Stating that the construction of — at Yercaud, Salem district, for the clerks and inferior servants of the Deputy Tahsildar's office may be proceeded with, and directing the Superintending Engineer, IV Circle, to include in his statement of demands for incomplete works the amount required for expenditure during 1892–93.	11th April 1892, No. 1209 W.	20th May 1890, No. 1417 W. 15th May 1891, No. 2516 C. 23rd May 1891, No. 2624 C. 26th May 1891, No. 2674 C. 3rd July 1891, No. 3157 C. 3rd Aug. 1891, No. 2084 W. 17th Feb. 1892, No. 510 W. 19th Jan. 1892, No. 311 C.
Telegraph line at Bezváda.—Letter from the Superintendent, East Coast division, Telegraph Department, returning the copy of judgment in the case of mischief to the —, recorded.	11th do. do. No. 1210 W.	14th Sept. 1891, No. 884 D. 27th Oct. 1891, No. 2857 W. 25th Mar. 1892, No. 992 W.
Printing.—Authorizing the Examiner to admit the charge of Rs. 101 on local — in the North Arcot division during 1891–92, subject to certain condition.	12th do. do. No. 1211 W.	17th Feb. 1879, No. 292 Finl. 3rd July 1891, No. 1812 W. 14th Aug. 1891, No. 3703 C. 14th Sept. 1891, No. 2460 W. 16th Nov. 1889, No 3239 W. 29th Oct. 1891, No. 2883 W. 4th Dec. 1891, No. 3260 W. 27th Oct. 1891, No. 2859 W. 10th Dec. 1891, No. 3320 W. 16th Dec. 1891, No. 5673 C. 8th Jan. 1892, No. 88 W. 25th Jan. 1892, No. 236 W. 8th Feb. 1892, No. 643 C. 24th Mar. 1892, No. 985 W.
M. Rajaya.—Appointing — as a temporary overseer on Rs. 60 per mensem and posting him to the IV Circle, Salem division.	12th do. do. No. 1212 W.	.....
Mr. C. J. K. Watson, Executive Engineer.—The promotion recommendation roll of — for the half-year ending 28th February 1892, forwarded to the Government of India.	12th do. do. No. 1213 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Mr. C. J. K. Watson, Executive Engineer.—The promotion recommendation roll of — for the half-year ending 28th February 1892, forwarded to the Government of Bengal.	12th April 1892, No. 1214 W.	.....
Collector's residence at Anantapur.—Refusing sanction to the supplemental estimate of Rs. 1,860 for the compound wall of —, the expenditure already incurred on the building being in excess of the limit allowed by paragraph 985, Public Works Code.	12th do. do. No. 1215 W.	3rd Sept. 1886, No. 2196 W. 11th April 1889, No. 1012 W. 6th June 1889, No. 1501 W. 11th Jan. 1892, No. 178 C.
Rubber Stamp.—Sanctioning, with remarks, the purchase of a — for the Wynaad sub-division as a special case.	12th do do. No. 1216 W.	6th Dec. 1889, No. 5722 C. 14th Feb. 1891, No. 803 C.
Cantonments, Water-supply.—Proceedings, Military Department, forwarding to the Government of India the correspondence regarding the supply of water to the lines of the Native Infantry garrison at Trichinopoly, recorded.	12th do. do. No. 1217 W.	.....
Salaries and Travelling allowances.—Letter from the Superintendent of Works, No. I Periyár Division, requesting to furnish him with a copy of G.O., No. 401 W., dated 6th February 1892, regarding payment of — prior to audit, recorded with reference to No. 1143 W., dated 6th April 1892.	12th do do. No. 1218 W.	25th Mar. 1892, Nos. 998–99 W. 6th April 1892, Nos. 1143-44 W.
Wages on Famine Relief Works.—Proceedings, Revenue Department, referring to the Commissioner of Revenue Settlement, Land Records and Agriculture, for very early report, the resolution of the Government of India on the subject of —, recorded.	12th do. do. No. 1219 W.	.....
Erratum.—Proceedings, Revenue Department, recording Board's Proceedings issuing an — to Board's Proceedings, No. 192, dated 14th March 1892, recorded.	12th do. do. No. 1220 W.	.....
Budget.—Proceedings, Local and Municipal Department, reviewing the Vizagapatam District Board — for 1892–93, communicated to the Superintending Engineer, I Circle.	12th do. do. No. 1221 W.	.....
Memorial.—Orders on a — from Mr. R. Everard and others, Engineer students, regarding certain alterations in the notification, dated 7th February 1888, affecting the appointments guaranteed to them.	12th do. do. No. 1222 W.	15th Jan. 1892, No. 238 C. and file. 11th Jan. 1888, No. 97 W. 6th May 1892, No. 332 Finl.
V. T. Srinivasa Aiyengar, Engineer Student.—Making the offer of the post of Supervisor, Second Grade, in the permanent establishment to — on his petition.	13th do. do. No. 1223 W.	12th April 1892, No. 1222 W. and file.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
All Souls' Church School at Coimbatore.—Proceedings, Educational Department, regarding grant of rent for certain building used as a school-house in connection with the —, communicated to the Superintending Engineer, IV Circle.	13th April 1892, No. 1225 W.	15th July 1889, No. 1887 W. 10th Dec. 1890, No. 3283 W. 3rd Feb. 1891, No. 317 W. 15th April 1891, No. 2089 C. 23rd April 1891, No. 2219 C. 16th Nov. 1891, No. 3071 W. 3rd Dec. 1891, No. 3246 W.
St. Patrick's Cemetery, Madras.—Proceedings, Ecclesiastical Department, regretting its inability to comply with Dr. Colgan's request for the extension of —, communicated to the Consulting Architect.	13th do. do. No. 1226 W.	.....
Yarlagadda Naidu is informed that he should apply to the Executive Engineer, No. II Periyár division, for any information he may require in regard to his claims.	13th do. do. No. 1229 W.	18th Sept. 1891, No. 2507 W.
Police Assistant Superintendent's Bungalow at Jeypore.—Ordered that the draft deed for the conveyance to the Jeypore estate of the —, as amended by the Government Solicitor, approved and returned to the Agent to the Governor, Vizagapatam District, for engrossment prior to execution by the Secretary to Government, Public Works Department.	13th do. do. No. 1232 W.	23rd Sept. 1891, No. 2564 W. 18th Nov. 1891, No 3092 W. 17th Dec. 1891, No. 3400 W. 29th Jan. 1892, No. 436 C. 5th Mar. 1892, No. 736 W. 26th Jan. 1891, No. 242 W. 6th Mar. 1891, Nos. 648–49 W. 26th May 1891, No. 2675 C. 7th July 1891, No. 3206 C. 23rd July 1891, No. 3412 C. 28th July 1891, No. 3474 C. 23rd Mar. 1892, No. 1529 C. 7th April 1892, No. 1827 C.
Seven Pagodas Lighthouse.—Proceeding. Financial Department, instructing the Accountant-General to place Rs. 324 at the disposal of the Public Works Department from Port funds for repairing the —, communicated to the Superintending Engineer, II Circle.	13th do. do. No. 1233 W.	.....
Tekkáli-Anantagiri Road.—Proceedings, Revenue Department, regarding the construction of the —, &c., in the Ganjam district, communicated to the Superintending Engineer, I Circle, with instructions, to arrange for the immediate commencement of the work.	13th do. do. No. 1234 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Estate Works.—Endorsement, Revenue Department, forwarding Board's Proceedings communicating, with instructions, to the Collectors of Ganjam and Godávari, budget estimates of — proposed to be carried out by the Public Works Department during 1892–93, communicated to the Superintending Engineer, I Circle.	13th April 1892, No. 1235 W.	13th Jan. 1888, No. 131 W. 24th Feb. 1891, No 1053 C. 17th April 1891, No. 1067 W. 26th Feb. 1892, No. 1021 C.
Famine, Kurnool.—Proceedings, Revenue Department, passing orders on the Collector's report regarding the state of the season in the district submitted by the Board of Revenue, communicated to the Superintending Engineer, III Circle.	14th do. do. No. 1238 W.	31st Mar. 1892, No. 1054 W.
Lascars, Salem Division.—Claim of certain — for the loss of cloths, &c., by robbers being made good, considered inadmissible.	14th do. do. No. 1239 W.	.....
Teachers' College at Saidápet.—The execution of repairs by the Public Works Department to the old building of —, sanctioned.	16th do. do. No. 1240 W.	10th July 1890, No. 1877 W. 9th July 1888, No. 2068 W. 26th Nov. 1890, No. 4888 C. 7th Jan. 1891, No. 79 C. 16th Mar. 1891, No. 762 W. 6th July 1891, No. 1836 W. 16th Jan. 1892, No. 158 W. 5th April 1892, No. 1768 C. 16th Jan. 1892, No. 162 W. 24th Feb. 1892, No. 953 C 18th Mar. 1892, No. 895 W. 25th Mar. 1892, No. 1581 C. 5th April 1892, No. 1779 C.
Ryves' Canal.—Proceedings, Financial Department, directing that the actual expenditure on certain works connected with the — be debited to Local funds, communicated to the Examiner of Public Works Accounts.	16th do. do. No. 1241 W.	.....
Madras Sub-Divisional Office.—Endorsement from the Director-General of Telegraphs allotting funds for providing a teakwood window to the —, communicated to the Consulting Architect to Government and the Examiner, Public Works Accounts.	16th do. do. No. 1242 W.	.....
Madras Sub-divisional Office.—Endorsement from the Director-General of Telegraphs allotting funds for providing an iron-railed partition to the —, communicated to the Consulting Architect to Government and the Examiner, Public Works Accounts.	16th do. do. No. 1243 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Grants.—Report from the Superintending Engineer, III Circle, forwarding copies of letters from the Executive Engineers, Bellary, Kurnool and Cuddapah divisions, explaining the circumstances under which the — were exceeded in March 1892, recorded.	16th April 1892, No. 1244 W.	8th Nov. 1890, No. 2959 W. 3rd Feb. 1892, Nos. 323-4 W. 11th Feb. 1892, No. 132 I. 29th Feb. 1892, No. 659 W. 5th Mar. 1892, No. 1151 C.
Minor Irrigation Works—Tiruvannámalai Taluk.—Letter from the Superintending Engineer, V Circle, stating that the Collector is unable to say for what — repairs will be required, communicated to the Revenue Department.	18th do. do. No. 1245 W.	24th June 1891, No. 1694 W. 20th Feb. 1892, No. 571 W. 30th Mar. 1892, No. 1028 W.
Road from Ichápur to Jarad.—The action of the Superintending Engineer in ordering the construction of the — and his proposal to apply for the requisite funds in his statement of demands for incomplete works, approved.	18th do. do. No. 1246 W.	8th Aug. 1891, No. 2132 W. 21st Jan. 1892, No. 203 W.
Funds.—Explanation from the Superintending Engineer, I Circle, for the surrender of certain —, recorded with reference to G.O., No. 1017 W., dated 29th March 1892.	20th do. do. No. 1258 W.	24th Feb. 1892, No. 963 C. 26th Feb. 1892, No. 629 W. 1st Mar. 1892, No. 678 W. 12th Mar. 1892, No. 838 W. 15th Mar. 1892, No. 1348 C. 18th Mar. 1892, No. 894 W. 29th Mar 1892, No. 1017 W. 5th April 1892, No. 1774 C. 5th April 1892, No. 1777 C.
Printing Charges.—Bill for — amounting to Rs. 6-8-0 for forms printed at the Albinion Press for use in III Circle, ordered, with remarks, to be paid in full.	20th do. do. No. 1260 W.	17th Feb. 1879, No. 292 Finl. 3rd July 1891, No. 1812 W. 14th Aug. 1891, No. 3703 C. 14th Sept. 1891, No. 2460 W. 16th Nov. 1889, No. 3239 W. 29th Oct. 1891, No. 2883 W. 4th Dec. 1891, No. 3260 W. 27th Oct. 1891, No. 2859 W. 10th Dec. 1891, No. 3320 W. 16th Dec. 1891, No. 5673 C. 8th Jan. 1892, No. 88 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 8th Feb. 1892, No. 643 C. 24th Mar. 1892, No. 985 W. 12th April 1892, No. 1211 W.
Provincial Revenues and Expenditure.—Proceedings, Financial Department, communicating to departments of Government resolution of the Government of India laying down, with effect from 1st April 1892, certain rules and conditions regulating the administration by Local Governments of —, recorded.	20th April 1892, No. 1261 W.	.....
Westmere Cottage.—Office-note from the Examiner, Public Works Accounts, returning the statement giving data for calculation of rent of — at Ootacamund, recorded.	20th do. do. No. 1262 W.	19th Mar. 1892, No. 914 W. and file.
Budget Estimates.—Proceedings, Financial Department, reviewing the — of receipts and charges of the Madras Harbour Trust for the years 1891-92 and 1892-93, recorded.	20th do. do. No. 1263 W.	23rd April 1891, No. 1132 W. and file.
Mr. J. J. Tucker, Engine Driver, No. I Periyár Division.—The irrecoverable advance of Rs. 10 due by —, who has left the place and whose whereabouts are not known, charged off against the water-shed tunnel.	20th do. do. No. 1264 W.	.....
Dispensary at Polavaram.—Proceedings, Public Department, sanctioning payment of certain rates of house-rent for the — and directing the construction of a permanent building, communicated to the Superintending Engineer, I Circle, with instructions.	20th do. do. No. 1265 W.	.....
Temporary Establishment.—The — required for V Circle during 1892-93, as detailed in the statement submitted by the Superintending Engineer, sanctioned with some exceptions.	20th do. do. No. 1266 W.	29th May 1891, No. 1478 W. 28th July 1891, No. 2023 W. 8th April 1891, No. 982 W. 3rd June 1891, No. 1521 W. 30th Oct. 1891, No. 2923 W. 21st Nov. 1891, No. 3136 W. 7th Dec. 1891, No. 3274 W. 4th Jan. 1892, No. 2 W. 18th Dec. 1892, No. 520 W.
C. Moonesawmy, Peon, Examiner's Office, is informed that the Government declines to order his reinstatement.	20th do. do. No. 1267 W.	23rd Mar. 1892, No. 1516 C.
P. Narayanasawmy Naidu.—Grant of Presidency allowance to Overseer —, sanctioned.	20th do. do. No. 1268 W.	12th April 1892, No. 1943 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Sub-Magistrate's Cutcherry at Kódúr.—The charge of Re. 1 incurred by the Executive Engineer, Kistna Eastern Division, on the vacant building of — in the Kistna district, sanctioned.	20th April 1892, No. 1269 W.	.....
Belts and Badges.—Proceedings, Political Department, regarding — for the peons of the office of the Paymaster, Carnatic Stipends, recorded.	20th do. do. No. 1270 W.	.....
Budget.—Proceedings, Local and Municipal Department, reviewing the Ganjam District Board — for 1892–93, communicated to the Superintending Engineer, I Circle.	20th do. do. No. 1271 W.	.....
Budget.—Proceedings, Local and Municipal Department, reviewing the Salem District Board — for 1892–93, communicated to the Superintending Engineer, IV Circle.	20th do. do. No. 1272 W.	.....
Native Newspapers —Report on — for the fortnight ending 31st March 1892, recorded.	21st do. do. No. 1274 W.	.....
Officers of Royal Engineers.—Proceedings, Military Department, communicating to His Excellency the Commander-in-Chief correspondence from Her Majesty's Government regarding the reckoning as service for Royal Warrant pension of time passed on half-pay by —, communicated to Superintending Engineers.	21st do. do. No. 1275 W.	.....
Provincial Contract.—Proceedings, Financial Department, recording resolution of Government of India regarding the new — with this Government, recorded in continuation of G.O., No. 1261 W., dated 20th April 1892.	21st do. do. No. 1279 W.	4th Jan. 1892, No. 29 W. 20th April 1892, No. 1261 W.
Residence.—Proceedings, Marine Department, regarding — for the Port Officer at Masulipatam and conveyance allowance, recorded.	21st do. do. No. 1280 W.	30th Jan. 1889, No. 248 W. 19th Dec. 1890, No. 3389 W. 5th Jan. 1891, No. 10 W. 26th Jan. 1891, No. 242 W. 6th Mar. 1891, No. 648 W. 16th Nov. 1889, No. 3242 W. 22nd Sept. 1888, No. 2981 W. 1st Nov. 1888, Nos. 659–60 I 27th Nov. 1888, No. 3741 W. 21st Sept. 1889, No. 461 I. 10th Oct. 1889, Nos. 2828–29 W. 24th Oct. 1885, No. 2511 W. 4th Jan. 1892, No. 27 C.

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Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 15th Mar. 1892, No. 1336 C. 29th Mar. 1892, No. 1630 C. 8th Feb. 1892, No. 634 C.
Single Rail Tramway.—Informing Mr. Ewing that it is improbable that the Government will be able to make any use of his invention of —.	21st April 1892, No. 1281 W.	.....
Season, Anantapur.—Proceedings, Revenue Department, passing orders on Board's Proceedings submitting the Collector's report for Gooty and Tadpatri taluks, communicated to the Superintending Engineer, III Circle.	21st do. do. No. 1282 W.	24th Mar. 1892, No. 290, Revenue.
Santhacharana Patnaik.—Annas two due to a piece-worker named — in the Ganjam division, sanctioned to be credited to Provincial Revenue, the same being not claimed.	22nd do. do. No. 1283 W.	1st Oct. 1891, No. 2644 W. 1st Dec. 1891, No. 3215 W. 19th Dec. 1891, No. 3446 W. 4th Feb. 1892, No. 337 W. 16th Feb. 1892, No. 484 W. 18th Mar. 1892, No. 904 W. 11th April 1892, No. 1204 W.
Printing.—Stating that the *charges* of Rs 97–10–0 incurred in the Kistna Eastern division for — certain forms locally will be admitted by the Examiner, but no work should in future be given to a private press which refuses to accept the rates of the Government Press.	22nd do. do. No. 1284 W.	14th Sept. 1891, No. 2460 W. 30th Oct. 1891, No. 2912 W.
Famine Relief Works.—Proceedings, Revenue Department, communicating, with instructions, resolution of the Government of India issuing certain rules for maintaining programmes of —, communicated to officers of the Public Works Department.	22nd do. do. No. 1285 W.	13th May 1890, No. 1351 W. 19th Mar. 1891, No. 800 W. 13th April 1892, No. 2029 C.
Establishment.—According, with remarks, sanction to the entertainment of certain — proposed by the Superintending Engineer, IV Circle, for the Punganúr zemindari works for a period of six months.	22nd do. do. No. 1286 W.	.....
Sub-Jail at Guruzala.—Proceedings, Revenue Department, regarding the construction of the — in advance of the main building, communicated to the Superintending Engineer, II Circle, with instructions.	22nd do. do. No. 1287 W.	19th Jan. 1892, No. 311 C. 14th Mar. 1891, No. 747 W.
Temporary Establishment.—The — for the Anantapur division as detailed in the proposition statement submitted by the Superintending Engineer, III Circle, sanctioned, with remarks, for six months from 1st April 1892.	22nd do. do. No. 1288 W.	9th Jan. 1892, No. 98 W. 26th Jan. 1892, No. 243 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 2nd Feb. 1892, No. 303 W. 29th Mar. 1892, No. 1018 W.
Pedvagy Stone Gumastah at Ellore.—The Examiner authorized to admit the pay of the —, Godávari Western division, up to 25th January 1892 when his services were dispensed with.	22nd April 1892, No. 1289 W.	.....
Improved system of water-supply and drainage for the City of Madras —Proceedings, Financial Department, requesting Mr. E. Cousins to communicate with the India office for printing his report on the —, and directing that the Secretary of State be addressed on the subject, recorded.	22nd do. do. No. 1290 W.	.....
Lascar Muhammad Jeehangir.—Directing, with remarks, that — of the Nellore division should be again sent before the District Surgeon for opinion whether he is fit for light work for the few months to entitle him to pension and the result be reported.	23rd do. do. No. 1293 W.	11th Oct. 1890, No. 2686 W. 4th Jan. 1892, No. 12 C. 24th Mar. 1892, No. 1552 C.
Pulienjary Sluice.—According sanction to the disbursement of the pleader's fee and bill of costs, Rs. 150 and Rs. 48-1-0, respectively, in connection with the suit regarding — in the Tanjore division.	23rd do. do. No. 1294 W.	13th April 1891, No. 1029 W. 21st April 1891, No. 2194 C.
Siragnanam Pillay, Sub-Overseer, Trichinopoly Division.—According sanction to the pay of — being raised to Rs. 42 per mensem from the date of this order.	23rd do. do. No. 1295 W.	.....
Latrine for the School of Arts at Madras.—Estimate of Rs. 1,870 for constructing a — returned to the Consulting Architect for sanction and execution from the minor works grant to his division.	23rd do. do. No. 1296 W.	.....
Vardaraja Moodeliar, 2nd Clerk, Superintending Engineer's Office, V Circle.—Orders on the appeal of — for restoration to his appointment.	23rd do. do. No. 1297 W.	.....
Inspection Report, Bellary Division, by the Examiner, Public Works Accounts.—Certain correspondence as to a certificate of payment relative to the —, recorded.	23rd do. do. No. 1298 W.	20th May 1889, No. 1343 W. 18th Feb. 1890, No. 533 W. 20th Mar. 1890, No. 912 W. 16th May 1890, No 2271 C 3rd May 1890, No. 2431 C. 17th June 1890, No. 1679 W. 18th July 1890, No. 1959 W. 2nd Aug. 1890, No. 3262 C. 29th Sept. 1890, No. 3920 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 17th Nov. 1890, No. 3056 W. 9th Dec. 1890, No. 5114 C. 17th Jan. 1891, No. 241 C. 17th Mar. 1891, No. 1489 C. 7th April 1891, No. 1951 C. 11th Jan. 1892, No. 104 W. 22nd Feb. 1892, No. 921 C. 25th Mar. 1892, No. 1574 C. 4th April 1892, No 1110 W. 23rd April 1892, No. 1925 C.
St. Stephen's Church at Berhampore.—Directing that the repairs to the roof of — be carried out from the repair grant to the Ganjam division.	23rd April 1892, No. 1299 W.	6th July 1891, No. 1836 W. 2nd Feb. 1892, No. 311 W.
Famine.—Proceedings, Revenue Department, recording, with remarks, Board's Proceedings submitting the fortnightly narrative of the Kurnool district for the period ending 31st March 1892, communicated to the Superintending Engineer, III Circle.	25th do. do. No. 1304 W.	.....
Residence for the Assistant Superintendent of Police at Nandyál.—The Examiner, Public Works Accounts, authorized to admit the outlay incurred without a grant on —.	25th do. do. No. 1305 W.	18th June 1887, No. 2848 C. 5th Sept. 1889, No. 2463 W. 22nd Oct. 1891, No. 2775 W. 20th Nov. 1891, No. 3130 W. 2nd Dec. 1891, No. 3236 W. 19th Feb. 1892, No. 541 W. 9th Dec. 1892, No. 3311 W. 19th Feb. 1892, No 547 W. 17th Mar. 1892, No. 888 W.
Cocanada Port.—Proceedings, Marine Department, referring the proposal for extending the north groyne for the remarks of the Public Works Department, &c., communicated to the Superintending Engineer, I Circle, for report.	25th do. do. No. 1306 W.	12th Dec. 1882, No. 3275 W. 15th Sept. 1882, No. 2392 W. 31st Oct. 1882, No. 2852 W. 8th June 1885, No. 1330 W. 13th May 1885, No. 113 E. 6th Jan. 1886, No. 56 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 6th May 1886, No. 1139 W. 18th Sept. 1886, No. 2382 W. 9th Aug. 1886, No. 509 D. 9th Aug. 1886, No. 508 D. 10th Dec. 1886, No. 3275 W. 2nd Sept. 1887, No. 2365 W. 14th Mar 1888, No 848 W. 17th April 1891, No. 147, Marine.
Stores.—The local purchase of certain —, of European manufacture required by the General Superintendent, Public Works Workshops, sanctioned.	25th April 1892, No. 1307 W.	.....
Rest-house at Arkónam.—Endorsement from the Superintending Engineer, IV Circle, stating that there is no necessity for a departmental —, communicated to the Military Department with a note that no rest-house accommodation will be provided.	25th do. do. No. 1308 W.	8th June 1887, No. 1543 W. 6th Feb. 1889, No. 337 W. 21st June 1889, No. 1634 W. 11th Mar. 1890, No. 798 W. 8th Sept. 1891, No. 3979 C. 28th Sept. 1891, No. 2588 W. 29th Jan. 1892, No. 263 W.
Establishment.—The employment of a temporary clerk on Rs 15 per mensem in the Cowtaram Sub-division office of the Gudiváda division, sanctioned.	25th do. do. No. 1309 W.	.....
Stores.—The local purchase of certain — of European manufacture required by the General Superintendent, Public Works Workshops, sanctioned.	25th do. do. No. 1310 W.	.....
Light-houses at Hope Island and Vakalapudi.—Letter from the Superintending Engineer, I Circle, stating that improvements to — have been carried out, and the expenditure has been debited to civil department, recorded	25th do. do. No. 1311 W.	3rd Feb. 1891, No 314 W. 7th Feb. 1891, No. 692 C. 17th April 1891, No. 59 D. 24th April 1891, No. 95 D. 11th May 1891, No. 183 D. 3rd Feb. 1892, No. 331 W. 9th Mar. 1892, No. 1205 C. 28th Mar 1892, No. 1005 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Lands.—Notification for acquisition of certain — required for building quarters, &c, for subordinates, in the Sagiler project, Cuddapah district, ordered to be published in the *Fort St. George Gazette.*	25th April 1892, No. 1312 W.	13th April 1891, No. 1039 W. 24th Jan. 1891, No. 1694 W. 4th Feb. 1892, No. 347 W. 4th Feb. 1892, No. 95 I. 3rd Mar. 1892, No. 702 W. 11th Mar. 1892, No. 808 W. 12th Mar. 1892, No. 839 W. 30th Mar. 1892, No. 1027 W.
Mr. S. Subbarayachariyar, Executive Engineer.—Orders on appeal from — against his supersession.	26th do. do. No. 1314 W.	.....
Type plans.—Letter from the Director-General of Military Works requesting that certain corrections be made in the — of a gun-shed for a Heavy Field Battery of Royal Artillery, communicated to the Military Department.	26th do. do. No. 1315 W.	16th Mar. 1892, No. 872 W. 23rd Mar. 1892, No. 959 W.
Printing charges.—Bill for Rs. 34-10-0 on account of — incurred in the Kistna Western division passed without reduction.	26th do. do No. 1316 W.	17th Feb. 1879, No. 292 Finl. 3rd July 1891, No. 1812 W. 14th Aug. 1891, No. 3703 C. 14th Sept. 1891, No. 2460 W. 16th Nov. 1889, No. 3239 W. 29th Oct. 1891, No. 2883 W. 4th Dec. 1891, No. 3260 W. 27th Oct. 1891, No. 2859 W. 10th Dec. 1891, No. 3320 W. 16th Dec. 1891, No. 5673 C. 8th Jan. 1892, No. 88 W. 25th Jan. 1892, No. 236 W. 8th Feb. 1892, No. 643 C. 24th Mar. 1892, No. 985 W. 12th April 1892, No. 1211 W. 20th April 1892, No. 1260 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Rushikulya Canal.—Proceedings, Local and Municipal Department, sanctioning the transfer of the work of letting water down the — to re-fill all tanks under it and requesting the Accountant-General to place at the disposal of the Public Works Department Rs. 200 for the same, communicated to the Superintending Engineer, I Circle, with instructions.	26th April 1892, No. 1317 W.	.....
Temporary establishment.—The — required for IV Circle during 1892–93 as detailed in his proposition statement, sanctioned.	26th do. do. No. 1318 W.	15th Dec. 1883, No. 3587 W. 20th Oct. 1888, No. 3341 W. 18th June 1890, No. 1704 W. 17th May 1889, No. 1318 W. 7th July 1890, No. 1855 W. 21st Sept. 1889, No. 2646 W. 19th Feb. 1891, No. 936 C. 13th April 1891, No. 1027 W. 14th Aug. 1890, No. 2212 W. 26th May 1891, No. 1439 W. 11th Mar. 1891, No. 698 W. 13th Aug. 1891, No. 2195 W. 31st July 1890, No. 2083 W. 17th June 1891, No. 397 D. 26th June 1891, No. 464 D. 2nd Sept. 1891, No. 802 D. 22nd Sept. 1891, No. 2541 W. 1st July 1891, No. 528 I. 9th Sept. 1891, No. 3998 C. 3rd Oct. 1891, No. 4326 C. 28th Oct. 1891, No. 2874 W. 19th Feb. 1892, No. 860 C. 9th April 1892, No. 1883 C.
Famine Relief Works.—Proceedings, Revenue Department, regarding the execution of — in the Nellore district on contract and piece-work systems, communicated to the Superintending Engineer, II Circle.	26th do. do. No. 1319 W.	15th Jan. 1892, No. 142 W. 27th Jan 1892, No. 405 C. 4th Feb. 1892, No. 345 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
		(*Continued.*) 4th Feb. 1892, No. 347 W. 13th Feb. 1892, No. 458 W. 3rd Mar. 1892, No. 1098 C. 4th Mar. 1892, No. 1127 C. 12th Mar. 1892, No. 1297 C. 12th April 1892, No. 1219 W.
Rent.—The Government of India to be addressed in regard to recovery of — in the case of the lower subordinates, clerks, &c., employed on the Periyár project who are occupying Government quarters at Periyár free of rent.	26th April 1892, No. 1320 W.	28th Sept. 1881, No. 652 I. 22nd Sept. 1888, No. 2981 W. 5th Feb. 1889, No. 564 C. 2nd Mar. 1889, No. 1059 C. 23rd Mar. 1889, Nos. 874-75 W. 4th June 1889, Nos. 1472-73 W. 12th June 1889, No. 1561 W. 14th Feb. 1890, No. 484 W. 7th Jan. 1891, No. 57 W. 5th Jan. 1891, No. 10 W. 26th Jan. 1891, No. 242 W. 6th Mar. 1891, No. 648 W. 23rd Jan. 1891, No. 399 C. 9th Mar. 1891, No. 1294 C. 8th Aug. 1891, No. 3603 C. 28th Aug. 1891, Nos. 2322-23 W. 24th Sept. 1891, No. 2572 W. 14th Mar. 1892, No. 853 W. 9th Aug. 1889, Nos. 2148-49 W. 12th Feb. 1891, Nos. 395–96 W. 4th Mar. 1891, No. 746 W.
Addressed accordingly	26th do. do. No. 1321 W.	.....
Budget.—Proceedings, Local and Municipal Department, reviewing the South Canara District Board — for 1892–93, communicated to the Superintending Engineer, IV Circle.	27th do. do. No. 1323 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Stores.—Endorsement from the Director-General of Railways forwarding copy of his circular with a printed statement showing the actual English rates free on board in England for class E stores "rolling-stock" contracted for by the Stores Department of the India office during 1890, communicated to the Consulting Engineer for Railways.	27th April 1892, No. 1324 W.	.....
Relief Works.—Proceedings, Revenue Department, regarding — in the Bhavání taluk, Coimbatore district, communicated to the Superintending Engineer, IV Circle.	27th do. do. No. 1325 W.	.....
Grant.—Statement showing the unspent balances of the — for works in the Bellary division, transferred to the new Anantapur division submitted by the Superintending Engineer, III Circle, communicated to the Examiner, Public Works Accounts.	27th do. do. No. 1326 W.	8th April 1892, No. 1856 C.
Famine Code.—Proceedings, Revenue Department, ordering the supply of seven copies of — to the Superintending Engineer, IV Circle, communicated to that officer.	27th do. do. No. 1327 W.	19th April 1892, No. 2056 C.
Stores.—Office-note from the Examiner bringing to notice that certain — of European manufacture have been brought in India without the sanction of Government, communicated to the Superintending Engineer, V Circle, for report.	27th do. do. No. 1328 W.	4th April 1892, No. 1101 W and file.
Vouchers.—The orders of the Government of India to be obtained on the subject of the multiplicity of initials on — which is considered unnecessary	27th do. do. No. 1329 W.	8th Jan. 1892, No. 44 W.
The Government of India addressed on the above subject.	27th do. do. No. 1330 W.	.....
Pálár Causeway.—Proceedings, Local and Municipal Department, requesting the Accountant-General to place at the disposal of the Public Works Department Rs. 31,125 provided for the — in the North Arcot District Board budget for the current year, communicated to the Superintending Engineer, IV Circle, and the Examiner, Public Works Accounts.	27th do. do. No. 1331 W.	1st Dec. 1891, No. 5378 C and file. 29th Mar. 1892, No. 1015 W.
Printing.—Two bills amounting to Rs. 70–2–0 on account of charges incurred in the Godávari Eastern division for — forms, sanctioned.	27th do. do. No. 1332 W.	14th Sept. 1891, No. 2460 W. 17th Feb. 1892, No. 506 W. 18th Mar. 1892, No. 903 W. 9th April 1892, No. 1190 W.
Suit.—Report from the Superintending Engineer, I Circle, stating that the — brought by contractor Bodijana Gopalakistnamma was dismissed with costs, recorded.	27th do. do. No. 1333 W.	24th Sept. 1891, No. 2573 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Dhulipudi Venkannah.—Proceedings, Pension Department, granting an invalid pension of Rs. 3–8–0 per mensem to —, late lascar, 2nd grade, Petty Establishment, Kistna Eastern Division, recorded.	27th April 1892, No. 1335 W.	.....
P. Veerasalingam, Delta Superintendent, Godávari Western Dicision.—The proposal to allow — to prosecute certain persons at the Government expense, for bringing a false charge against him, considered not necessary.	27th do. do. No. 1336 W.	.....
Mr. J. Trail, Executive Engineer, Public Works Department.—The final last pay certificate of — who has proceeded to Europe on nine months' furlough, ordered to be forwarded to the Home Government.	28th do. do. No. 1337 W.	.....
Forwarded accordingly	28th do. do. No. 1338 W.	.....
Mr. A. T. Mackenzie, Assistant Engineer.—The final last pay certificate of — who has proceeded to Europe on furlough for one year, ordered to be forwarded to the Home Government.	28th do. do. No. 1339 W.	.....
Forwarded accordingly	28th do. do. No. 1340 W.	.....
Famine-relief works.—Proceedings, Revenue Department, stating that the Collector of the District, subject to the control of the Board of Revenue, is responsible for the preparation of the programme of — which should include Professional agency as well as Civil agency works, communicated to officers of the Public Works Department.	28th do. do. No. 1341 W.	13th May 1890, No. 1351 W. 19th Mar. 1891, No. 800 W. 13th April 1892, No. 2029 C. 26th April 1892, No. 1319 W and file. 22nd April 1892, No. 1285 W.
Leave and pension allowances.—Orders of the Government of India regarding rates of contribution for — payable by subordinates of the Public Works Department, transferred to the service of Railway Companies before the 7th January 1889, communicated to officers concerned.	28th do. do. No. 1342 W.	23rd May 1889, No. 1382 W. 5th Oct. 1891, No. 2660 W. 14th Nov. 1891, No. 3046 W.
Hospital at Ganapuram.—The expenditure of Rs. 928 incurred in excess of the estimate sanctioned for constructing a — in the Vizagapatam district, sanctioned.	28th do. do. No. 1343 W.	30th Mar. 1887, No. 964 W. 3rd July 1885, No. 1552 W. 6th Feb. 1888, No. 421 W. 29th Feb. 1888, No. 698 W. 1st Feb. 1886, No. 275 W. .....
Lieutenant-Colonel W. H. Coaker, R.E., Major W. V. Constable, R. E, Captain A. D. G. Shelley, R.E. and Lieutenant W. C. Smith, R.E.—Letter from the Government of India returning the annual confidential reports on — and requesting that the same be prepared and submitted in the revised form, communicated to the Consulting Engineer for Railways with instructions.	28th do. do. No. 1344 W.	.....

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Postal Buildings at Mysore and Hunsur.—Informing the Postmaster-General that the grants required for the maintenance of the — will be provided on receipt of information as to the amount required in each case, and providing Rs. 360 for repair to the Mysore Post Office.	28th April 1892, No. 1347 W.	19th Mar. 1892, No. 909 W. 13th April 1892, No. 1227 W.
Civil Service Regulations.—Proceedings, Financial Department, addressing the Government of India regarding certain amendment proposed to paragraph 1093 of the —, recorded.	28th do. do. No. 1348 W.	1st April 1892, No. 1689 C. 12th April 1892, No. 1958 C.
Accounts.—Orders on the statement of unauthorized appropriations made during the month of March 1892, submitted by the Examiner of Public Works Accounts.	29th do. do. No. 1349 W.	6th April 1892, Nos. 1134-5 W and file.
The above forwarded to the Accountant-General, Public Works Department.	29th do. do. No. 1350 W.	.....
Budget Estimate.—Statement showing the final revised estimate for 1891-92 and — for 1892-93 received from the Chief Engineer for Irrigation, recorded with remarks.	29th do. do. No. 1351 W.	.....
Government building at Adóni.—Proceedings, Educational Department, approving of the erection of a latrine in the compound of the — lent to Revd. Mr. Lewis, communicated to the Superintending Engineer, III Circle.	29th do. do. No. 1352 W.	22nd June 1884, No. 1430, Finl.
Government of India Code, Volumes I and II.—Addressing the Government of India regarding the desirability of supplying copies of — to all the accountants of the department, and applying for a supply of some additional copies of the same.	29th do. do. No. 1353 W.	24th Nov. 1886, No. 3116 W. 17th Mar. 1887, No. 830 W. 4th Jan. 1892, No. 6 W. 7th Jan. 1892, Nos. 65-66 W. 8th Mar 1892, No. 1190 C. 24th Mar. 1892, No. 978 W. 30th Mar. 1892, No. 1031 W. 5th April 1892, No. 1117 W.
Famine Tools.—Letter from the Superintending Engineer, V Circle, stating that a separate indent for — is not necessary, recorded.	29th do. do. No. 1354 W.	13th April 1892, No. 2011 C and file.
Appointments, Civil, Naval and Military Officers.—Proceedings, Military Department, relative to the application of the rules for the employment of — by Colonial Governments to officers hereafter employed under the Government of India, recorded.	29th do. do. No. 1355 W.	29th Mar. 1892, Nos. 1021-22 W. .....
Laccadive Islands.—Proceedings, Revenue Department, passing orders on Board's Proceedings submitting report of Mr. Cowie, Acting Head-Assistant Collector of South Canara, on his visit to the Aminidivi group of the — in 1891, communicated to the Superintending Engineer, IV Circle.	29th do. do. No. 1356 W.	19th Mar. 1892, No. 924 W.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Factories.—Proceedings, Judicial Department, drawing the attention of all inspectors of Factories to the fact that steam printing presses are — within the Factories Act, 1881, and directing that they should therefore be noticed in the annual reports, &c, recorded.	29th April 1892, No. 1357 W.	.....
Budget estimates.—Proceedings, Financial Department, recording the orders of the Government of India on the Madras — for 1892-93, recorded.	29th do. do. No. 1358 W.	22nd May 1891, No. 1399 W.
Establishment.—Confirming the action of the Executive Engineer, Rushikulya division, in appointing a temporary clerk in anticipation of sanction.	29th do do. No. 1359 W.	.....
Accounts.—Letter from the Superintending Engineer, I Circle, forwarding the explanation of the Executive Engineer, Rushikulya division, regarding the delay in the submission of the monthly — to the Examiner, Public Works Accounts, recorded, with remarks, as to the appointment of a temporary clerk applied for.	29th do. do. No. 1360 W.	13th May 1891, No. 1312 W. 10th June 1891, No. 1586 W. 8th July 1891, No. 1871 W. 11th Aug. 1891, No. 2153 W. 10th Sept. 1891, No. 2428 W. 6th Oct. 1891, No. 2671 W. 7th Nov. 1891, No. 2973 W. 7th Dec. 1891, No. 3282 W. 12th Jan. 1892, No. 116 W. 6th Feb. 1892, No 376 W. 4th Mar. 1892, No. 721 W. 6th April 1892, No. 1141 W. 6th April 1892, No. 1146 W. 29th April 1892, No. 1359 W.
Temporary establishment.—The employment in the Bezváda and Nellore Workshops during 1891-92 and 1892-93 of the — detailed in the statement submitted by the Superintending Engineer, II Circle, sanctioned.	29th do. do. No. 1361 W.	27th Oct. 1890, No. 2838 W. 12th Jan. 1891, No. 108 W. 27th April 1891, No. 1161 W. 16th Oct. 1891, No. 2737 W. 26th Oct. 1891, No. 4687 C. 23rd Nov. 1891, No. 5238 C. 23rd Oct. 1891, No. 4639 C. 8th Jan. 1892, No. 134 C. 6th Feb. 1892, No. 365 W. 24th Mar. 1892, No. 1539 C.

Subjects.	Number and Date of Order.	Numbers and Dates of previous Orders.
Temporary establishment.—The — required for the II Circle during 1892–93 as detailed in the proposition statement submitted by the Superintending Engineer, sanctioned with certain exs.	29th April 1892, No. 1362 W.	25th April 1881, No. 1081. 16th Feb. 1888, No. 537 W. 16th May 1888, No. 1445 W. 11th Nov. 1890, No. 2974 W. 10th April 1891, No. 1004 W. 15th June 1891, No. 1615 W. 10th Nov. 1891, No. 3001 W. 19th Feb. 1892, No. 862 C. 16th Mar. 1892, No. 1387 C. 1st April 1892, No. 1683 C.
Mr. Everard, Supervisor, Kurnool division.—Advance of half month's pay, Rs. 100, to — to enable him to purchase a pony, sanctioned.	29th do. do. No. 1363 W.	.....
Mr. Lambert, Executive Engineer.—Claim to daily allowance from 25th to 27th July 1891 preferred by —, sanctioned.	29th do. do. No. 1364 W.	11th Aug. 1891, No. 3664 C. 13th April 1892, No. 2023 C,
Bechoba tents.—The estimate of Rs. 345 for purchasing two — for the offices of the Executive Engineer on special duty at Cumbum and the head-quarter Sub-divisional Officer at Kurnool who are in charge of famine-relief works, sanctioned.	29th do. do. No. 1365 W.	.....

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To the Secretary to Government, Revenue Department.
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„ Chief Engineer.

...D OFFICE.

Order—dated 25th April 1892, No. 392, Revenue.

Miscellaneous. Recorded.

(True Extract.)

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Exd. A. Aubert.

75 Copies.

MADRAS RECORD OFFICE.

Govt. of {1892} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 25th April 1892, No. 392.

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Miscellaneous. Recorded.

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Exd. A. Aubert.

75 Copies.

Govt. of {1892} Madras.

REVENUE.

Issued

Recd. *Encl.*

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MADRAS RECORD OFFICE

P. W. CURRENT No. 4074/3909

EXAMINER
No. 12729/1
11 APR 1892
ENCLOSURES
P. W. ACCOUNTS

Govt. of {1892} Madras.

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No. 93 dated 8th April 1892

Forwarded to the Chief Engr. P.W. Department, thro: the Examiner of P.W. Accounts Madras for very early disposal

I propose to put Captain Ellis M.E. in charge of the South Sub Division & let Conductor Smith Sub Engr take charge of the North Sub Division

Henry Irwin
Consulting Architect
to Govt:

No. 1892 C dt 9. April 92
to C.

for favour of early report.

9/4

Encl to 1
Recd: 14/X/4.92

No. 560 S.A.G. 13-4-92

To W.

Leave on private affairs for 3 months from 20th.April 1892 is admissible to Mr.S.W.H.Ottmann,Hony. Asstt. Engineer Ist.Grade,under article 370 of the Civil Service Regulations,provided the conditions of article 25I are fulfilled.

13/4
C.
13/4
(Encore)

No. 2035 C dt 14th April 1892

The leave applied for will be granted, but attention is drawn to the Govt orders undermentioned -

C.A.G. Govt 14/4 Encl

Govt. of {1892} Madras.

REVENUE.

Issued

Recd. Encl.

G.O., 25th April 1892, No. 392.

APRIL.

Season, Kistna.

Board's Proceedings submitting report from the Collector on the condition of the affected areas in the district for the period ending 4th April 1892, recorded.

No. 1405 W. dt/5th May 1892

Comd to the S.E. II Circle who will observe from the Chief Engineer's No. 2321 C dated 3rd May 1892 that the demand for famine tools for the Circle can be met by the Store Dept. at Madras.

1sd / J. P. W.

S.E. II Circle
C.E. for I.

P. W. CURRENT No. 4074 3409

EXAMINED
No. 12727
11 APR 1892
ENCLOSURES
W. ACCOUNTS

No. 93 dated 8th April 1892

Recd 14.4.92

No. 566 D.A.J. 13-4-92

To W.

Leave on private affairs for 3 months from 20th. April 1892 is admissible to Mr. S.W.H. Ottmann, Hony. Asstt. Engineer Ist. Grade, under article 370 of the Civil Service Regulations, provided the conditions of article 251 are fulfilled.

D.D. 13/4
C.
D.D. 13/4
(Encore)

No. 2035 C dt/ 14th April 1892

The leave applied for will be granted, the attention is drawn to the Govt. Office note reference -

C.A.-G. Govt. 14/4

Forwarded to the Chief Engr. P.W. Department, thro: the Examiner of P.W. Accounts Madras for very early disposal

I propose to put Captain Ellis R.E. in charge of the South Sub Division & Lt. Conduct Smith Sub Engr take charge of the North Sub Division

Henry Irwin
Consulting Architect
to Govt:

No. 1892 C dt/ 9. April 92

To C

for favour of early report.

9/4

MADRAS RECORD OFFICE

No. 40.

CONSULTING ARCHITECT'S DIVISION,

No. 20

South Sub-Division Office,

Chepâk, 7th April 1892.

From

S. W. H. OTTMANN, ESQ.,

ASSISTANT ENGINEER IN CHARGE,

SOUTH SUB-DIVISION,

To

THE Consulting Architect-
to Government-
Madras.

SIR,

One. ENCLOSURES. In submitting the accompanying Medical Certificate from the District-Surgeon Dr. Hackett, I have the honor to solicit that the leave be granted me from 20th instant.

I am suffering from dyspepsia and diarrhœa for the last few months, which have become very aggravated since the attack of ~~Dysentery~~ Inflammation of the Bowels last month, and keeps down my health very much.

I have the honor to be
Sir
Your most obedient Servant

V. Ottmann
Assistant Engineer
S. P. W.

This is a question whether Mr. Ottmann having been absent on extension of service previously

EXAMINED
No. 12723
11 APR 1892
ENGINEER
W. ACCOUNTS

article 370 C.S.R. (read also art 377)

Cy

[R.O. / 10] 10,000-19-5-11.

MADRAS RECORD OFFICE.

C/1392.

I, Arthur L. Hamlett Brigade Lt. Col.

Surgeon, 2nd District, do hereby certify that Mr. L. W. Ottmann. Surgeon-Major,

of the Public Works service, is in a bad state of health,

and I solemnly and sincerely declare that, according to the best of my judgment,

a change of air is essentially necessary to his recovery, and do therefore recommend

that he may be permitted to proceed to Kurtalla and be absent

for a period of three months.

Arthur L. Hamlett Brigade Surgeon-Major,
Surgeon, 2nd District.

HOSPITAL FOR WOMEN AND CHILDREN,
AND 2ND DISTRICT,
Madras, April 6th 1892.

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and broken down my health
very much.-

I have the Honor to be
Sir
Your most obedient Servant-

L. Ottmann
Assistant Engineer
S. P. W.

It is a question
whether Mr. Ottmann
having been absent
on extension of
service previously
because he was
in bad health,
can now be
granted leave
on private affairs
3 months.

DWH
9.4.92

Note. Mr. Ottmann is entitled to privilege leave, of which only 28 days on half pay under article 370 C.S.R. (vide also art. 377).

C.G.

No. 32.

I, Arthur L. Hamlett Brigade Lt. Col.
Surgeon-~~Major~~,
Surgeon, 2nd District, do hereby certify that Dr. L. W. Ottaman
of the Public Works service, is in a bad state of health,
and I solemnly and sincerely declare that, according to the best of my judgment,
a change of air is essentially necessary to his recovery, and do therefore recommend
that he may be permitted to proceed to Australia and be absent
for a period of three months.

HOSPITAL FOR WOMEN AND CHILDREN,

A. L. Hamlett

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10,000-19-5-11.

MADRAS RECORD OFFICE.
Block No. 11

Government of Madras.

1892

P. W. DEPARTMENT.

CURRENT No. 3909

From The Consg Architect to Govt Madras

ENCLOS.—1

No. 93
Dated 8.4.92
Received 9.4.92

SUBJECT.

Forwarding the leave application of S.W.H Ottaman Esq^r + proposing to put Captain Ellis RE in charge of the South Sub Div^n &c

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DISPOSAL.

No. 1892C dated 9.4.92

To C

For favour of early report. D 9/4/1892 ors

R.O.
10
10,000-19-5-11.

MADRAS RECORD OFFICE.

Block No. 11

Paper taken out of the Records from the charge of the Referencer,

Dept. P.W.D Press / Mis. / Rout. No. 1254, dated [illegible] Rack No. [illegible], Range,

Date taken out.	PURPOSE.		Initials of clerk taking the paper or of attender.	Date returned.	Initials of attender.
	No.	Year.			
22-11					

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Rec^d 9th inst. from the Board of Communications & the C^g Engr to the desp CA

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Government of Madras.

189 2

P. W. DEPARTMENT.

Taken for Obsn 182

Paper taken out of the Records from the charge of

Press / Miscellaneous / Routine No. _____, dated _____

n out.	FOR WHAT PURPOSE. Department.	C. No.	Year.	Initials of clerk taking the paper or of attender.
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From

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MADRAS RECORD OFFICE.

Block No. 511

Paper taken out of the Records from the charge of the Referencer,

Dept. P W D Press / Mis. / Rout. No. 1254 dated 28/4/92 191 . Rack No. Range,

Date taken out.	FOR WHAT PURPOSE. Department.	C. No.	Year.	Initials of Referencer.	Date returned.	Init atte
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Date taken out.	For what purpose.			Initials of Referencer.	Date returned.
	Department.	C. No.	Year.		

MADRAS RECORD OFFICE.

Block No. 110

per taken out of the Records from the charge of the Referencer,

Press / Mis. / Rout. No. 1253, dated 20/4/32 191 , Rack No. / Range,

Date taken out.	For what purpose.			Initials of Referencer.	Date returned.	Initials of attender.
	Department.	C. No.	Year.			
13/5/11	Jud	2122	11	blk	21/6/11	[illegible]
21-3-17	Supdt	Acctt Secn		[illegible]	22/3/17	[illegible]
	Genl	1139	17			

Date taken out.	For what purpose.			Initials of Referencer.	Date returned.
	Department.	C. No.	Year.		

MADRAS RECORD OFFICE.

Block No. 110

Paper taken out of the Records from the charge of the Referencer,

Press / Mis. / Rout. No. 1253, dated 20/4/32 191 , Rack No. / Range,

Date taken out.	For what purpose.			Initials of Referencer.	Date returned.	Initials of attender.
	Department.	C. No.	Year.			
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21-3-17	Supdt	Accts Secn		[illegible]	22/3/17	[illegible]
	Genl	1139	17			

Date taken out.	For what purpose.			Initials of Referencer.	e returned.
	Department.	C. No.	Year.		

MILITARY DEPARTMENT, 6TH APRIL 1892, No. 2330.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

Service—Officers.

Read the following:—

No. 100. *Extract from a Military letter from the Right Honorable the Secretary of State for India; dated the 25th February* 1892, *No.* 33.

Para. 18. I forward herewith, for the information of your Government, copy of a letter from the Horse Guards regarding the reckoning as service for Royal Warrant pension of time passed on half pay by officers of Royal Engineers.

M.-1291.

HORSE GUARDS,
WAR OFFICE, S.W.,
The 5th February 1892.

SIR,

I am directed by His Royal Highness the Commander-in-Chief to acquaint you, for the information of the Secretary of State for India in Council, that it has been decided that as the wording of Article 1057 of the Royal Warrant of 6th April 1891 now stands, an officer of Royal Engineers who elected promotion to a half-pay Lieutenant-Colonelcy under Article 11 (*b*), and continued in his employment in the Public Works Department of India, may reckon such employment while on the half-pay list as a portion of the five years' service as a substantive Lieutenant-Colonel necessary to entitle him to the pension of four hundred and fifty pounds (£450) a year.

I am, therefore, to request that this decision may be conveyed to the Government of India for notification to the officers concerned accordingly.

I have, &c.,

(Signed) J. HERIOT MAITLAND,
Dy. Adjt.-Genl., R.E.

The Military Secretary, India Office.

No. 949-A.

Service—Officers

Copy forwarded, with reference to G.O., No. 69 of 1890, to the Secretary to the Government of Madras, Military Department, for information.

* * * * *

(By Order.)

FORT WILLIAM,
25*th March* 1892.

(Signed) P. J. MAITLAND,
Offg. Dy. Secy. to the Govt. of India.

No. 101. ORDER THEREON, 6th April 1892, No. 2330.

Communicated to His Excellency the Commander-in-Chief.

2. G.O., No. 69 of 1890, has been republished at pages 146–7 of Madras S.G.O. of 1890.

(True Extract.)

(Signed) H. R. HOPE, Brigdr.-Genl.,
Secretary to Government.

To the Adjutant-General.
„ Public Works Department.

Exd. L. Pasasigne.

Govt. of {1892} Madras.

MILITARY.

To

THE ADJUTANT-GENERAL,
&c., &c. &c.

Dated April, 6th.

Issued

Recd. *Encl.*

G.O., 6th April 1892, No. 2330.

APRIL.
Nos. 100-101.

Service—Officers.

Officers of Royal Engineers.—Correspondence from Her Majesty's Government regarding the reckoning as service for Royal Warrant pension of time passed on half pay by —, communicated to His Excellency the Commander-in-Chief.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following papers :—

From W. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 12th March 1892, No. 3885.

I have the honour to submit herewith for the information and orders of Government copies of the Proceedings of a special meeting of the Harbour Trustees held at the Board's office on the 16th and 23rd February, under the provisions of section 37, Act II of 1886, together with the estimate of receipts and charges, as framed on the above dates, and passed as reprinted, in accordance with the Board's orders, at the meeting held on Tuesday, 4th March.

I also enclose copies of the schedules of Staff, Revenue and Construction departments, as approved by the Board, and details of the Harbour Works construction estimate.

2. It will be observed, with reference to my letter, No. 3735, dated 1st March, that the Trustees have framed this estimate providing for the porterage of foreign cargo only. The Board awaits the favour of a reply from Government before taking into consideration whether they can extend their control over the handling of cargo within their premises, under the provisions of Act I of 1892 amending the Harbour Trust Act II of 1886, and also replies from the Chairmen of the Chamber of Commerce and Trades Association, before deciding— should it be ruled that the Trustees have such power—whether they will avail themselves of it or not.

3. Referring to the details of the estimate, I have to remark that, with reference to the various items of receipts, I have, since the Board passed these items, increased the credit taken for contribution from Port Funds to Rs. 65,000 in accordance with your telephonic order of the 8th instant, and G.O., Marine, No. 291, of the same date, since received.

4. The beach imports have been taken at Rs. 1,25,000, as against Rs. 1,00,000 in the estimate for 1891–92. The revised estimate is Rs. 1,60,000, but the Trustees have estimated for a continuance of heavy imports of food-grains only for the next immediately approaching few months, in the hope that an early and favorable south-west monsoon may relieve the scarcity which has caused the imports of grain to swell to so large an extent the beach receipts during the latter part of the current official year.

5. The three items—beach imports, and pier imports and exports—have been considerably reduced as compared with the previous year on account of the prevailing scarcity telling heavily upon all ordinary imports and exports with the exception of tanned skins and hides.

6. Godown rent has been reduced from Rs. 8,000 to Rs. 5,000 consequent upon the retransfer to the Collector of Sea Customs of the outer yards within the Custom House.

7. The rent of Harbour Trust properties at Cassimode has been reduced to Rs. 1,000, as the tiled huts of which it mostly consists are gradually becoming depleted and are not worth the expense of repair.

8. The item "Miscellaneous" was exceptionally large in 1891–92 owing to the sale of old material taken from the iron screw-pile pier while under repair. As the receipts under this head will not be so swelled again, it has been reduced.

9. Cranage is calculated upon the tonnage estimated to pass over the pier; harbour dues upon cargo exported and imported thereat having been taken at 12 annas per ton, on the assumption that Government will, during the course of the coming year, publish the schedule of rates under section 45, Act II of 1886, in which, as passed up to date, the rate of harbour dues has been fixed at 12 annas per ton for both beach and pier, with a separate scale for cranage at the latter.

10. The total of the various items of receipts is Rs. 5,00,000; and including the estimated opening balance of Rs. 11,01,836, the total funds amount to Rs. 16,01,836.

11. Turning to the estimated charges, the interest payable to Government on the 1st April amounts to Rs. 1,87,040, and the lakh of rupees to be paid on the same date will bring the total refunds on account of construction advances up to Rupees 6,00,000 as noted at the foot of the estimate.

12. The orders of Government are awaited with regard to the item Rs. 9,800, Secretary's salary, which has been provided in anticipation of a favorable reply from Government to the Board's resolution, No. 1, dated 23rd February 1892, submitted with my letter, No. 3655, dated 25th idem. The proposed increase amounts to Rs. 450 during the twelve months as follows:—

	RS.
Present sanctioned salary payable in April to August, inclusive, at Rs. 750 per mensem × 5	3,750
September 1892 to March 1893 at 800 × 7	5,600
Total ..	9,350
Proposed rate submitted for sanction April 1892 to January 1893 at 800 × 10	8,000
February and March 1893 at 900 × 2	1,800
Total ..	9,800

13. It will be observed from the Board's Proceedings, No. 7, dated 23rd February, that all porterage employés and allowances have been incorporated in the Traffic Department, and the schedule of staff submitted herewith gives full details of the dates upon which each individual was entertained, and all particulars as to overtime fees drawn by each person calculated upon the last available actuals.

14. For the purpose of being able hereafter to compare the various departments of the establishment year by year with the preceding periods, the Trustees have shown each separately instead of lumping all together as hitherto.

15. The provision made for the current year was—

	RS.
Office Establishment	28,000
Preventive Service	5,000
Porterage Establishment	21,420
Total ..	54,420

and the estimate for 1892–93 is as follows:—

	RS.
Correspondence Department	3,720
Accounts Department	6,648
Cash Department	2,700
Traffic „	28,068
Preventive Service	12,660
„ Boatmen	1,224
Total ..	55,020

In 1891–92 a large part of the Preventive Service has been included in the "Porterage Department:" and now, for 1892–93, the Preventive officers have been shown separately, and the Porterage Department has been incorporated with the traffic staff. The individuals throughout, with trifling differences, are practically the same as in 1890–91 and 1891–92.

16. *Medical Department—Apothecary and Assistants.*—In view of the large number of coolies now employed by the Trust, besides the numerous staff, I had intended proposing to the Trustees that a pensioned Government apothecary should be entertained, together with a dresser and a peon, as accidents most frequently occur towards dusk and after, when the services of the Marine apothecary are not available. It would undoubtedly be an advantage in cases of accidents if the Trust had an apothecary at hand, and would probably also prove economical in the interests of efficiency, as it would enable me to pass an order that no leave would be granted for sickness unless certified by the apothecary. At present, much inconvenience is occasioned by individuals stopping away and reporting sick; when, as has been the case lately, much sickness has been prevalent upon the beach; I have, however, postponed the consideration of this question until the Board reconsiders this estimate in reference to the amendment of the Harbour Trust Act.

17. Contributions to Government for pensions are estimated at Rs. 900, as against Rs. 1,000 for 1891–92.

18. Fees to Trustees will depend upon the number of meetings held; provision has been made for Rs. 8,000.

19. Porterage labour, under Act I of 1892, is stated at Rs. 75,000. This is less than the figure appearing against it for the current year, because the heading "Porterage Department," under which the larger amount appeared, has been changed so as to include labour only, the "Porterage" staff being now included in the Traffic Department establishment.

20. The item "Claims for loss and damage to cargo" was also previously included under the head "Porterage." This is now estimated for separately at Rs. 5,000.

21. The provision for law charges have been doubled, as a suit has been filed against the Trust for the value of the premises lately occupied by the Board, which were burnt in October 1890.

22. Uniform has been stated at Rs. 1,500, as against Rs. 700, which latter amount was reduced to that figure consequent upon "Porterage" being charged with the balance under the head of Miscellaneous.

23. Other items of contingencies need no comment.

24. Overtime, Rs. 7,000, is necessary so long as steamers are allowed to work at all times by the Collector of Sea Customs. The Trustees strongly object to working for the benefit of steamers on Sundays and after hours, but do not appear to have any power to do otherwise than provide a staff and pay extra to the individuals, when the Collector permits work to be carried on beyond working hours and upon Sundays and holidays.

This question of overtime has been repeatedly discussed by the Board, and the Trustees do not see their way to effecting any economy, while the power to control overtime work is outside of their authority. A reference has lately been made to other ports as to their procedure, and the Board intends to discuss the question again when in possession of further information.

25. Provision has been made to the extent of Rs. 30,000 for new works under the head of petty construction, as it will be necessary to add to the accommodation at present available in the Board's office, the proposal to purchase the old High Court buildings having been abandoned, and provision may have to be made for the storage of rice south of the iron pier, should the south-west monsoon unfortunately be late or prove deficient; a few extra lines of rail may also be needed.

26. The sum of Rs. 10,000 for repairs to pier, machinery, &c., appears to be ample and will not be spent unless required: while as regards tools and plant, Rs. 5,000, the Trustees at present propose merely to increase to a small extent the number of trucks upon the pier, and have indented upon the India Office for wheels and axles.

27. The closing balance is estimated at—

	RS.
Invested in Goverement securities	10,50,000
Cash in Bank	36,560
Cash in office	436
Total ..	10,86,996
As against the revised estimate for 1891–92	11,01,836

28. Turning to capital account, the outstanding liability to Government for construction advances will, on the 1st April next, be Rs. 49,54,242; the expenditure upon Harbour Works is estimated as follows :—

	RS.
Reconstruction	4,73,726
Establishment	59,814
Tools and plant	10,000
Suspense	33,460
Total ..	5,77,000

and the refund of Rs. 1,00,000 in April 1892 will leave the outstanding liabilities at the end of the year at Rs. 54,31,242.

29. The Board carefully considered with their Acting Engineer the question of Harbour Works establishment, and passed the staff as it now stands for 1891–92, at the same time directing attention to the very heavy overtime fees paid in some branches of the works, and leaving it to the Engineer to suggest any reductions which he may find practicable.

From W. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 10th February 1892, No. 4455-A.

I have the honour to forward herewith the revised estimate of receipts and charges of the Harbour Trust Board for the year 1891–92, in triplicate, together with copy of resolution passed thereon by the Trustees at their last meeting.

ENCLOSURE.

EXTRACT of the Proceedings of the Trustees of the Harbour of Madras, at a meeting held at the Offices of the Board on Friday, the 5th day of February 1892.

* * * * *

2. Examined and discussed in detail revised estimate of receipts and charges for the year 1891–92.

Resolution.—Approved, and resolved that this amended estimate be submitted to Government.

* * * * *

From W. AUSTIN, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 14th March 1892, No. 3935.

I have the honour to acknowledge the receipt of Reference on No. 356 of 1892, Financial, dated 2nd instant, and to explain that, with regard to the differences marginally noted, it was intended to debit to "Porterage" account certain sums which, in the opinion of the Trustees, should be charged to those funds, instead of to Revenue Account, as was the case last year; the actuals already charged to Revenue, as above, would by a book transfer have been reduced to the sums shown in the revised estimate for 1891–92.

Expenditure.	Actuals 1st April to 31st Oct.	Revised estimate.
	RS.	RS.
Preventive Service ..	7,365	5,000
,, Boatmen ..	693	..
Overtime fees—		
Establishment ..	2,447	1,500
Preventive Service ..	2,001	1,500

As, however, Act I of 1892 has, since the revised estimate was framed, placed the Porterage receipts amongst the ordinary revenues of the Trust, these transfers will not now be made; the whole of the Porterage staff has been incorporated in the Traffic Department, and the Porterage funds will henceforth merely form part of the Board's revenue.

2. With regard to the item, Miscellaneous, Rs. 4,02,093, I should explain that the sum of Rs. 2,093 only has been spent; Rs. 3,000 will therefore, it is anticipated, be sufficient for the year.

Rs. 4,00,000 had up to the date the revised estimate was prepared been advanced from Revenue funds for Harbour construction, and this amount with subsequent disbursements for the same purpose will be refunded to the Revenue account on the 31st March, when I have arranged to draw from the Accountant-General the Rs. 8,00,000 provided for Harbour construction during the current year.

3. The Trustees have been led to make these advances for construction from Revenue as they have found themselves in ample funds during the past 12 months, while Government paper has ruled so high that they have been loth to invest, in the hope of being able to buy cheaper at a future date. Meanwhile, they sold Rs. 3,00,000 4 per cent. paper, bought considerably below par, at a premium of Rs. 7–9–0, and have thus not only made a considerable profit on the sale upon the price paid, but have throughout the year saved interest at 4½ per cent. upon all funds required for Harbour construction, as I shall have to pay the Accountant-General one day's interest only upon the Rs. 8,00,000 which he will pay to credit of Construction account with the Madras Bank on the 31st instant.

ORDER—dated 29th March 1892, No. 381, Financial.

The estimates of receipts and charges in 1891–92 and 1892–93, under the Madras Harbour Trust Act II of 1886 as amended by Act I of 1892, compare with the actuals of the preceding years as shown below :—

—	Actuals, 1889–90.	Actuals, 1890–91.	Revised estimate, 1891–92.	Budget estimate, 1892–93.
Receipts.	LAKHS.	LAKHS.	LAKHS.	LAKHS.
Revenue Account—				
Contributions from the Madras Port Fund	2·75	2·62	·50	·65
Duty on Imports, Exports and Cranage	3·08	3·33	3·23	2·85
Ground, Godown and other Rents and Miscellaneous	·19	·25	·20	·10
Interest on Government Securities	·37	·35	·30	·35
Porterage Receipts	..	1·23	1·05	1·05
Total Receipts ..	6·39	7·78	5·28	5·00
Charges.				
Revenue Account—				
Interest payable to Government	1·17	1·44	1·79	1·87
Repayment of Loan to Government	1·00	1·00	1·00	1·00
Salaries and Fees to Trustees	·22	·19	·20	·22
Ordinary Establishments	·29	·29	·28	·41 *
Preventive Service and Boat Establishment	·14	·14	·05	·14
Porterage Service	·23	·99	1·00	·80
Contingencies	·24	·20	·18	·26
Petty Works of Construction and Repair	·83	·80	·36	·45
Total Charges, Revenue Account ..	4·12	5·05	4·86	5·15
Construction Account—				
Original Works	6·60	5·61	5·68	4·74
Establishments	·56	·53	·57	·60
Tools and Plant	·25	·52	1·45	·10
Suspense Account	·43	·35	·30	·33
Total Charges, Construction Account ..	7·84	7·01	8·00	5·77

* Including Porterage.

2. The revised estimates of the current year are accepted, and the action of the Board as reported in the second and third paragraphs of the Chairman's letter of the 14th March is approved.

3. In the estimate of expenditure on Revenue account for 1892–93, provision has been made for increased rates of pay to certain members of the establishment, but this will be struck out for the reasons specified :—

(i) Rupees 450, being the increment proposed for the Secretary, but disallowed in G.O., dated 21st March 1892, No. 91, Marine.

(ii) Rupees 600—the difference between the salary approved by Government for the Traffic Manager, Rs. 375 per mensem, and the amount provided in the budget.

In the estimate for Construction Account, a similar provision of Rs. 1,200 for an increment proposed for the Assistant Engineer has been entered. Distinct reference should be made in the covering letter to proposals of this character. The Government will allow the entry to stand, subject to the understanding that no increment is to be passed until the reasons for proposing an addition to the emoluments of the Assistant Engineer have been stated to, and considered by, the Governor in Council.

4. Details should be furnished in future estimates for the receipts and charges connected with "porterage labour under Act I of 1892." It is gathered that the estimates under this section will be modified if the Board undertakes the porterage of all goods within its own premises; the extra charges will, however, be more than covered by the receipts, and the net results will not be affected.

5. The results of the reference which has been made to ascertain the practice elswhere in regard to overtime work should be reported to Government in due course.

6. Subject to these reservations, the estimates for 1892–93 are accepted. The following telegram will be despatched to the Government of India, Finance and Commerce Department :—

155. Harbour Trust receipts next year, five lakhs, including sixty-five thousand contributed by the Madras port; charges, five lakhs fourteen thousand; capital expenditure from Imperial, five lakhs seventy-seven thousand. Estimates follow.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
" Presidency Port Officer.
" Accountant-General.
" Public Works Department, with statements.
" Marine Department.

ENDORSEMENT—dated 29th March 1892, No. 385, Financial.

Copy to the Government of India, Finance and Commerce Department.

J. F. PRICE,
Chief Secretary.

Ed. A. Raitt.

Govt. of {1892} Madras.

FINANCIAL.

Issued

Recd. Encl.

G.O., &c., 29th March 1892,
Nos. 384, 385.

R. 87 of 92

MARCH.

Budget Estimates.

Reviewing the — of receipts and charges of the Madras Harbour Trust for the years 1891–92 and 1892–93.

No. 12630. 20. abril 92

Recorded.

(Sd) J. P.

Govt. of {1892} Madras.

MILITARY.

No 12754 a/ 21 April 1892

To

THE ADJUTANT-GENERAL,
&c., &c. &c.

Communicated to Superintending Engineers for the information of officers concerned

(Sd) J. P
Sr

Dated April, 6th.

Issued

Recd. Encl.

G.O., 6th April 1892, No. 2330.

APRIL.
Nos. 100–101.

Service—Officers.

Officers of Royal Engineers.—Correspondence from Her Majesty's Government regarding the reckoning as service for Royal Warrant pension of time passed on half pay by —, communicated to His Excellency the Commander-in-Chief.

S E's
C. H. to Govt
Ex. P. W. Accounts
Consg Engineer for Rys

MILITARY DEPARTMENT, 6TH APRIL 1892, No. 2330.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

Service—Officers.

Read the following :—

No. 100. *Extract from a Military letter from the Right Honorable the Secretary of State for India ; dated the 25th February* 1892, *No.* 33.

Para. 18. I forward herewith, for the information of your Government, copy of a letter from the Horse Guards regarding the reckoning as service for Royal Warrant pension of time passed on half pay by officers of Royal Engineers.

M.-1291.

HORSE GUARDS,
WAR OFFICE, S.W.,
The 5th February 1892.

SIR,

I am directed by His Royal Highness the Commander-in-Chief to acquaint you, for the information of the Secretary of State for India in Council, that it has been decided that as the wording of Article 1057 of the Royal Warrant of 6th April 1891 now stands, an officer of Royal Engineers who elected promotion to a half-pay Lieutenant-Colonelcy under Article 11 (*b*), and continued in his employment in the Public Works Department of India, may reckon such employment while on the half-pay list as a portion of the five years' service as a substantive Lieutenant-Colonel necessary to entitle him to the pension of four hundred and fifty pounds (£450) a year.

I am, therefore, to request that this decision may be conveyed to the Government of India for notification to the officers concerned accordingly.

I have, &c.,

(Signed) J. HERIOT MAITLAND,
Dy. Adjt.-Genl., R.E.

The Military Secretary, India Office.

No. 949-A.

Service—Officers

Copy forwarded, with reference to G.O., No. 69 of 1890, to the Secretary to the Government of Madras, Military Department, for information.

* * * * *

(By Order.)

FORT WILLIAM,
25*th March* 1892.

(Signed) P. J. MAITLAND,
Offg. Dy. Secy. to the Govt. of India.

No. 101. ORDER THEREON, 6th April 1892, No. 2330.

Communicated to His Excellency the Commander-in-Chief.

2. G.O., No. 69 of 1890, has been republished at pages 146–7 of Madras S.G.O. of 1890.

(True Extract.)

(Signed) H. R. HOPE, Brigdr.-Genl.,
Secretary to Government.

To the Adjutant-General.
„ Public Works Department.

Exd. L. Pasasigne.

Date taken out.	FOR WHAT PURPOSE.			Initials of Referencer.	Date returned.
	Department.	C. No.	Year.		

MEMORANDUM.

Communication
REQUESTED for reference the undermentioned papers :—

For C. No. 4095

P. W. SECRETARIAT,
Chepauk 4 *June* 1892.

To The Right Hon'ble
Brig.-Gen.
Secretary Government

Sir Lawrence J. Dundas
Chief Engr. Madras.

5 Share with G.O. dated 25th March 2330 D 6 April 92.
Subject Service Reckoning for Pension of Officers of Royal Engineers.

R.O. 10/000.'01

Date taken out.	For what purpose.			Initials of Referencer.	Date returned.
	Department.	C. No.	Year.		

R.O. 10,000—

5 MAY 92

Three spare copies furnished. no more being available

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No. 101. Order thereon, 6th April 1892, No. 2566.

Communicated to His Excellency the Commander-in-Chief.

2. G.O., No. 69 of 1890, has been republished at pages 146–7 of Madras S.G.O. of 1890.

(True Extract.)

(Signed) H. R. HOPE, Brigdr.-Genl.,
Secretary to Government.

To the Adjutant-General.
„ Public Works Department.

Exd. L. Pasasigne.

MADRAS RECORD OFFICE.

Block No.

Paper taken out of the Records from the charge of the Referencer,

Dept. P. W. D. Press / Mis. / Routine No. 1281 4, dated 21-4-1892 Rack No. , Range,

Date taken out.	For what purpose.			Initials of Referencer.	Date returned.	Initials of attender.
	Department.	C. No.	Year.			
24-1-12	P. W. D. (Irr.) No. 145 & 18-1-12 MR	322	12	KP	29-3-12	

19-5-11.

9th April 1892, No. 351, Revenue.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 31st March 1892, No. 260 :—

Mr. Clogstoun.

Read—again the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated 25th February 1892, Mis. No. 1994 :—

Read—the following letter from W. G. UNDERWOOD, Esq., Collector of Anantapur, to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture (through the Chief Engineer for Irrigation), dated Anantapur, 12th February 1892, F. No. 56 :—

In continuation of my letter, F. No. 23, dated 27th ultimo, I have the honour to enclose a list of Minor Irrigation works in the Tadpatri taluk requiring repairs and which will be included in the district programme of famine relief works for 1892–93 to be submitted with reference to Board's Proceedings, Mis. No. 516, dated 16th ultimo.

2. The list contains ten works with an approximate cost of Rs. 14,600 required to repair them. In only two of them, *i.e.*, items 4 and 7, the cost of repairs is less than the average revenue. In the remaining eight cases the disproportion between the estimated amount and the five years average is marked, but this cannot be helped as all the channels breached during the heavy floods of 1890 and require thorough removal of silt. These agricultural works are necessary as calculated to improve the outturn of the coming year.

3. Works* Nos. 4 and 6 have already been included in the programme of works pertaining to the taluk and will be taken in hand as soon as estimates are sanctioned.

* *Vide* parapraph 9 of my letter printed in Board's Proceedings, No. 49, dated 22nd January 1892.

Endorsement by the Chief Engineer for Irrigation, dated 23rd February 1892, No. 104 M.

Forwarded to the Board of Revenue.

2. The list is not prepared in the form laid down in the Board's Proceedings, No. 318, dated 3rd September 1887, with modifications ordered in Proceedings, No. 1040, dated 20th December 1888. There is no information as to previous expenditure.

3. The amounts proposed to be spent are in some cases much more than the importance of the works seems to warrant, *e.g.*, item 10, on which it is proposed to spend Rs. 2,000, whilst the ayacut is only 30 acres and the revenue Rs. 142.

4. It seems not unlikely that much of the work proposed is what the ryots interested have been accustomed to do for themselves, and in such cases it should be considered if it is wise to take the work out of their hands.

Resolution—dated 25th February 1892, Mis. No. 1994.

The works will be included in the list of suitable famine relief works. In selecting what works shall be undertaken in the event of its being necessary to give employment for the relief of distress, the Collector will give due attention to the fact that the return from the works mentioned is not likely to be large.

2. Under the provisions of G.O., dated 15th February 1892, No. 152, the preparation of the estimates for, and the execution of, the works will be undertaken by the Public Works Department.

(A true Copy and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Collector of Anantapur.
Copy to the Chief Engineer for Irrigation.

Read—also the following letter from W. G. UNDERWOOD, Esq., Collector of Anantapur, to the Secretary to the Commissioner of Revenue Settlement, Land Records and Agriculture, dated Anantapur, 25th March 1892, F.B. No. 142:—

With reference to Board's Proceedings, Mis. No. 1871, dated 22nd February 1892, and in continuation of the letters referred to in my F. No. 77, dated 20th February 1892, I have the honour to submit the report called for therein, for the two northern taluks of this district forming the charge of the Deputy Collector, Gooty.

2. The reports about the deficiency of rainfall, cultivation and outturn have been embodied at length in my previous letters. I shall now deal chiefly with the numbers in the parts affected requiring relief in the shape of works and kitchens, the amount required to meet the demand and the works which can likely be taken up in the locality. The divisions of the Deputy Tahsildars of Yadiki and Uravakonda are more affected than the main divisions, the proportion being two to one, 5 per cent. of the population feeling distress in the latter.

3. The classes that generally require relief are the poorer ryots and the landless cooly classes, including Madigas and Malas. The following statement shows the number to be relieved and the amount required as given by the Deputy Collector:—

Locality or division.	Area in square miles.	Population.		Gratuitous relief.		Relief works.		Total amount required.
		Total.	Distressed.	Number requiring	Amount required at 2 annas a day per head for eight months.	Number on	Amount for eight months at 2 annas 6 pies a day per head.	
					Rs.		Rs.	Rs.
Uravakonda	460	141,873	5,148	550	16,500	4,598	1,72,451	1,88,951
Gooty	592		3,480	250	7,500	3,230	1,21,125	1,28,625
Yadaki	235	112,689	4,550	400	12,000	4,150	1,55,625	1,67,625
Tadpatri	412		3,750	400	12,000	3,350	1,25,625	1,37,625
Total ..	1,699	254,562	16,928	1,600	48,000	15,328	5,74,826	6,22,826

I think the Deputy Collector's figures are too high and that the number may be estimated at about half that given by him. At present the people are not willing to work at famine rates. Should the rain set in as estimated by the Commissioner in May (*vide* Board's Proceedings, No. 121, dated 19th February 1892), provision need be made at present for only two or two and-a-half months from this date. Calculating the average daily wages of a famine cooly at 2 annas and the cost of feeding the inmate of a kitchen at As. 1–6, the estimate falls to about Rs. 5,000 or Rs. 6,250 for kitchens, Rs. 50,000 or Rs. 62,500 for relief works.

4. The above figures do not include the sums allotted for sinking wells, &c., under the Land Improvement Loans Act, and great efforts are being made to induce ryots to benefit by the rules. The following works have already been proposed by me to meet the pressing demand:—

	Amount.
Gooty Taluk.	
	Rs.
Abbidoddi tank ... ... *	6,000
Sathavaram and other minor tanks .. .. *	10,780
Feeder road to Gulapaliam Railway station ... ... *	200
Road from Wajra Karur to Gooty	10,000
Rayalapadu to Pamidi *via* Khaderpet station	7,920
Uravakonda to Gadakkal...	7,000
Total ...	41,900
Tadpatri Taluk.	
Clearing silt in Balaraju kalva of Sajjaladinna	535
Road at Yadiki	1,045
Boppapalle tank	2,000
Pinnapalle tank	10,000
Minor Irrigation works as per Board's Proceedings, Mis. No. 1994, dated 25th February 1892	14,000
Total ...	27,580

* Estimate ready.

besides the new Taluk Cutcherry at Tadpatri and the Jubilee Chattram there to be undertaken by the Gooty Taluk Board. The embankment of the Pennér river at Tadpatri has not been approved by the Superintending Engineer and in its stead I would propose the Vanganur and Pennér Railway feeders and road metalling. The division is sadly wanting in large irrigation works, and when no other work is available, recourse will have to be had to walling forest reserves and laying out of roads.

Resolution—dated 31st March 1892, No. 260.

The report under section 35 of the Famine Code regarding the two northern taluks of the Anantapur district will be submitted to Government in continuation of Board's Proceedings, dated 23rd February 1892, No. 140.

2. In this report the Collector estimates that the number of persons who will need relief in these two taluks at 7,650 persons on works and 800 at kitchens, for from two to two and-a-half months if the rains set in in May. The Commissioner thinks that it would not be safe to estimate that relief can be entirely suspended before the end of June, but he is inclined to think the Collector's estimates of numbers higher than necessary, having regard to the small numbers so far employed, and the refusal of the people to work for famine wages. An estimate of an average of 3,000 for employment on works and of 250 to be fed at kitchens will, the Commissioner considers, suffice for these two taluks for the next three months if the rains set in at the usual time. The cost of relieving these numbers may be put at Rs. 30,000 for works and about Rs. 1,500 for gratuitious relief.

Taluks.	On works.		At kitchens.	
	Number.	Cost.	Number.	Cost.
		Rs.		Rs.
Gooty	3,900	50,000 to	400	5,000 to
Tadpatri ..	3,750	62,500	400	6,250
Total ..	7,650	..	800	..

3. In the Gooty taluk the Collector has selected—

	RS.	RS.
Irrigation works, costing	16,780	
Road do. do.	25,120	
		41,900
In the Tadpatri taluk—		
Irrigation works, costing	12,535	
Minor Irrigation works, costing	14,600	
Road works, costing	1,045	
		28,180

In the latter taluk, however, the Minor Irrigation works selected (Board's Proceedings, dated 25th February 1892, Mis. No. 1994) have not been estimated for, and it is uncertain whether several of the works can be usefully undertaken. With this exception, the Commissioner considers that the list may be accepted. The Collector should, however, confine work as far as possible to the repairs of irrigation works according to the principle approved of in G.O., No. 290, dated 24th March 1892. He should call upon the Executive Engineer to examine and report upon such of the repairs for Minor Irrigation works in Tadpatri taluk proposed in his letter F. No. 56, dated 12th February 1892, as it may seem most desirable to take up at once. If the execution of these works be promptly arranged for it may prove unnecessary to undertake either of the roads alluded to in the concluding paragraph of his last letter read above.

4. The Collector has been requested to expedite the report called for regarding the Anantapur and Dharmavaram taluks.

(True Copies and Extract.)

(Signed) P. RAJARATNA MUDALIAR,
Secretary.

To the Secretary to Government, Revenue Department.
„ Collector of Anantapur.

ORDER—dated 9th April 1892, No. 351, Revenue.

Miscellaneous.

The Government concurs in the Commissioner's remarks in paragraphs 2 and 3 of the Proceedings read above.

2. The list of works referred to in paragraph 3 of the Proceedings is approved.

(True Extract.)

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

To the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Financial Department.
„ the Public Works Department.

Exd. C. M. Brisson.

75 Copies.

Govt. of {1892} Madras.

REVENUE.

No. 1282 Wdy 21 April 1892

Issued

Recd. *Encl.* Communicated to the Supty. Engr. III circle 15/7 ovrs DW

G.O., 9th April 1892, No. 351.

APRIL.

Season, Anantapur.

Passing orders on Board's Proceedings submitting report of the Collector under section 35 of the Famine Code for Gooty and Tadpatri taluks.

To S.E. III circle C.E. for d

C.F. Old No. 73, New No. 24—563,834—20-10-59.

DEPARTMENT.

Paper taken out of the Records from the charge of the Referencer.

Press / Miscellaneous / Routine No. , dated 195 .

Date taken out.	For what purpose.			Initials of clerk taking the paper or of attender.	Date returned.	Initials of attender.
	Department.	C. No.	Year.			

C.F. Old No. 73, New No. 24—563,834—20-10-59.

P. W. — DEPARTMENT.

Paper taken out of the Records from the charge of the Referencer.

~~Press~~ / ~~Miscellaneous~~ / ~~Routine~~ No. 1293, dated 23-4-1892 ~~495~~

Date taken out.	For what purpose. Department.	C. No.	Year.	Initials of clerk taking the paper or of attender.	Date returned.	Initials of attender.
9-4	M.R.O.	1595	H/62			
9-62	H Sec					

23RD MARCH 1892, No. 96, MARINE.

GOVERNMENT OF MADRAS.

MARINE DEPARTMENT.

READ—the following papers:—

Note by the Chief Engineer for Irrigation, dated Ootacamund, 5th January 1891.

With reference to the paragraph of G.O., No. 147, Marine, dated 17th April 1891, which requests me to give an opinion as to "the best means of remedying the unsatisfactory state of affairs" at Cocanada port—

1. In the absence of charts showing soundings at various times spreading over a considerable period, it is impossible to arrive at what is ...taking place in the bay. The only chart sent has the date 1848, but ... the soundings of a much later date; it certainly has ent... Vakalapudi Light-house," which did not exist ... for a proper consideration of the subj... the one of 1806.

2. On my own ... doubt if the deterio... ne, however, I or is alarming, and ... has been rapid the Proceedings o... his report with anchorage for deep ... eet says "the

* See his re... and eastward ...ears ago Mr.

Harbours) said "th... t out by the it was at the time ... on Indian paragraphs 3 and ... h of where Government, No... tention to the draught of s... of Madras ...ered that

3. But what ... shallowness of the ... is the difficult for the lar... nders in to get into and out ... 0 tons)

4. This "river ... other than what ma... water correctly be called a ... more miles seawards, has f... two springs." The tidal ... ater greater than 4 feet at ... bly always been deposited ... as the "bar"—a mere wr... as

5. Many years ago ... to its being artificially p... l but are really "training ... extension of these walls v...

† Paragraph 1 of notes of i... ngl... Chief Engineer, Public Wo... with Proceedings of Madr... No. 200, Marine, dated 13t... The prepared ...e walls by

Mem
Sir mentioned in his letter report that Lt. Lawrence recently died from an attack of fibrilera — Has he been seen in time?
DW
M.G.O.

Dw
Send for Lt Lawrence and enquire about the application for a few wells &c, &c, S.E. when applying for

G.F. Old No. 73, New No. 24—563,834—20-10-59. P. W — DEPARTMENT.

Paper taken out of the Records from the charge of the Referencer.

~~Press~~ Miscellaneous ~~Routine~~ No. 1293, dated 23-4-1892 ~~495~~

Date taken out.	For what purpose. Department.	C. No.	Year.	Initials of clerk taking the paper or of attender.	Date returned.	Initials of attender.
9/4/92	MRO	1595	H/62			
62	H See					

add^l overseers, remarks that Mr Lawrence was granted require either leave or a change — In reply the S.S. was told that it was open to him to transfer Mr Lawrence to a more healthy place in the circle — Nothing further has been heard on the matter

22-4-92

23rd March 1892, No. 96, Marine.

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2. On my own knowledge and such information as is before me, however, I doubt if the deterioration of the bay as regards *the anchorage for ships* has been rapid or is alarming, and in support of this I would point out that, whilst in his report with the Proceedings of Madras Government now under notice, Captain Street says "the anchorage for deep draft vessels is now about 5 miles to the northward and eastward of Cocanada town," twenty years ago Mr. Robertson * (an Engineer sent out by the Secretary of State to report on Indian Harbours) said "the anchorage for ships is now *five* or *six miles* to the north of where it was at the time of Warren's survey of 1806." I would also direct attention to paragraphs 3 and 4 of Colonel Sankey's "note" printed with Proceedings of Madras Government, No. 426, dated 26th August 1880. It must also be remembered that the draught of ships using the harbour has greatly increased of late years.

* See his report, 1871.

3. But what is, and for many years has been, the source of troubles, is the shallowness of the bay in its south-west corner, where Cocanada lies, which renders in difficult for the large cargo boats there in use (they run up to 60 and even 80 tons) to get into and out of the "river" where they load and unload.

4. This "river," which for the greater part of the year discharges no fresh water other than what may be surplused from two of the Godávari canals, might more correctly be called a "tidal creek;" it debouches on a mud flat which, for about two miles seawards, has for many years had a depth on it of only 4 feet at "low-water springs." The tidal scour out of this creek has kept in it a depth considerably greater than 4 feet at all times, but naturally the material moved by the scour has always been deposited just beyond the mouth of the creek, forming what is known as the "bar"—a mere wrinkle of some 18 inches high on the surface of the mud flat.

5. Many years ago the scouring effect of the contracted channel of the creek led to its being artificially prolonged for a short distance by what were called "groynes" but are really "training walls," and in Colonel Sankey's note above referred to, the extension of these walls was recommended and it was also strongly advocated by the Cocanada Chamber of Commerce and the mercantile community of the place. The Marine Department accordingly prepared an estimate for carrying out the walls by some 1,900 feet.†

† Paragraph 1 of notes of inspection of the Chief Engineer, Public Works Department, with Proceedings of Madras Government, No. 200, Marine, dated 13th May 1885.

C.F. Old No. 73, New No. 24—563,834—20-10-59.

P. W — DEPARTMENT.

Paper taken out of the Records from the charge of the Referencer.

~~Press~~
~~Miscellaneous~~ No. 1293, dated 23-4-1892 ~~495~~
~~Routine~~

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22-4-92

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† Paragraph 1 of notes of inspection of the Chief Engineer, Public Works Department, with Proceedings of Madras Government, No. 200, Marine, dated 13th May 1885.

6. In dealing with this estimate, I said (Letter printed with Proceedings of Madras Government, dated 12th December 1882, No. 3275 W.):—

"I wish to place on record that I consider this work, which it is proposed to carry out, to be a very advisable one, as a step in the right direction; it is, however, only a step which will not in itself appreciably improve the present state of affairs till it is followed by an advance of the training walls or groynes for about the distance named in paragraph 28 of your (Colonel Sankey's) note with Proceedings of Madras Government, No. 426, of 26th August 1880, to a point where the high-level mud flat ceases and the soundings deepen almost suddenly from 4 feet to 7 feet at low-water springs."

7. The result of the work hitherto done has been, as anticipated, that the pushing of the "bar" by so much further out has not given any relief, and, indeed, judging from the survey of the "approaches to Cocanada" which accompany this file,* matters have been made worse by the rapid growth of the sand deposit at the back of the north wall which has now overlapped that wall and is shoaling the entrance.

* To be returned.

8. The rapid growth of this particular deposit was not foreseen, but in paragraph 19 of Colonel Sankey's note above referred to it is laid down that the "groynes should be continued" each year so as to keep pace with the advance of the silt deposits northwards.

9. The north wall has not, it appears, been carried out to nearly the length intended, and I would advocate its extension without any delay so as to keep it ahead of the accretion to the north of it; I consider also that the original intention of curving the walls gradually northwards (Mr. Robertson in his report calls it "seawards") should be adhered to.

10. To make and keep open a cut through the so-called "bar" no doubt, recourse must be had to dredging, but it is useless trying to dredge a channel to deeper water, a distance of some two miles, through the expanse of liquid mud, which runs into a dredged channel nearly as quickly as it is scooped out.

(Signed) G. T. WALCH,
Chief Engineer for Irrigation.

To the Ag. Secy. to Govt., P.W.D., Irrigation Branch.

No. 327-D.

Transferred to the Marine Department, with reference to G.O., No. 147, Marine, dated 17th April 1891.

Ootacamund,
8*th June* 1891.

(Signed) G. T. WALCH,
Ag. Secy. to Govt., P.W.D.,
Irrigation Branch.

From Captain M. BEAN, H.M.'s I.M., Officiating Presidency Port Officer, to the Chief Secretary to Government, dated Madras, 17th September 1891, No. 1269—362 G.

With respect to Marine Department reference, dated 16th June 1891, on current No. 620, forwarding for my remarks a note by the Chief Engineer for Irrigation as to the best means for effecting certain improvements to the port of Cocanada, I have the honour to state that I have delayed replying to the above until I received charts of the bay to enable a comparison to be made as to the extension of the silting; these charts † were received on September 10th, and are now forwarded for consideration. On comparison of the charts of 1875 and 1891, it will be seen that the sand spit called Godávari Point has extended north 2·3 sea miles, and that the top of the dry spit is now in a place where there was about 43 feet of water in

† 1 Chart, 1875.
1 do. 1891.
The Marine Survey Department have not any older chart than 1875 in their possession.

1875. This extension of the spit has improved the anchorage off Vakalapudi by making the water smoother with south-east winds.

2. From the old lighthouse to the one fathom line in 1875 was 2 miles, in 1891 it was 1½ miles, and the soundings in the vicinity of the entrance to the creek and on a line direct to Godávari Point show that there has been an increase in the depth of the water in that part of the bay; this depth may increase if the Godávari spit goes on extending.

3. To carry the groynes out to the one fathom line would entail a great expense, the distance being 1·3 sea miles from the end of the groyne as it now is, and I question if they would have the desired effect, and would not recommend any money being spent on groynes, as it is impossible to say if the result will prove satisfactory. The length of the present extensions is 822 and 1,530 feet, respectively, which cost approximately Rs. 70,000. The extension of 1·3 miles from each end would thus cost in all about Rs. 4,82,500, and then there would be the cost of dredging out between the groynes.

4. To dredge a channel 1·3 mile long and 100 feet wide 9 feet deep would take a dredger of the powers of the *Wenlock* about 200 working days—say, 10 months allowing for stoppages and Sundays—and allowing the dredging to cost 2 annas per ton, which is a low rate, it would come to Rs. 24,940.

5. It would be necessary to work to 9 feet depth as the dredger draws 8 feet 6 inches loaded; this would necessitate a channel of 2·2 sea miles being dredged, which would cost about Rs. 41,800, and she would have to work inwards cutting a channel to float herself. If the channel was dredged to 9 feet, it would, I think, silt up about 1½ feet a year and would require to be dredged again in 2 years at a cost of about Rs. 20,000.

6. It will be seen from the above, that if dredging alone be resorted to, the first cost will be Rs. 41,800 with an additional outlay of Rs. 20,000 every second year to keep the channel to the required depth, and that this is only allowing the width of the channel at one half of the distance between the groynes; to widen it to 200 feet would just double the expense. If the groynes are made, there will be cost of Rs. 41,800 to add for dredging and the annual sum of Rs. 2,000 also should the groynes prove of no service. It would, I think, be necessary to maintain a separate dredger for Cocanada of the same power as the *Wenlock* but a little lighter draft of water. The two dredgers they have are quite useless for a large work of this kind. They are only fit to work about alongside wharfs and dock entrances where larger dredgers cannot go.

7. I would recommend the channel being dredged out to 9 feet and examined at the end of a year to see what change there is; we should then be able to calculate if the port is worth the expense of keeping it dredged, and if it is not, some other plan could be adopted, such as building a pier about two miles south of Vakalapudi Lighthouse with a tramway to town.

8. I attach for reference a statement showing some trade statistics of the port.

9. I return all documents received with your letter under reply.

Enclosure.

Particulars of Trade of Cocanada Port from 1886–87 to 1890–91.

—	Value of trade.	Duty on trade.	Port dues.	Landing and shipping dues.
1886–87	117,76,357	19,155	15,757	8,188
1887–88	153,20,184	9,732	21,392	12,895
1888–89	159,55,659	48,483	16,409	13,562
1889–90	185,33,198	33,743	16,689	14,830
1890–91	172,70,010	51,177	21,960	21,269
Total ..	788,55,408	1,62,290	92,207	70,744

Reference on the above, dated 7th October 1891.

The papers will be forwarded to the Cocanada Port Conservancy Board for remarks. The exact date when the *Wenlock* will be available cannot be stated, but it will probably not be less than 18 months hence. The question whether even then the port can afford the cost of dredging out the channel as proposed by Captain Bean and whether it can provide itself with a dredger fully suitable to the work, should be considered by the Board. The extension of the groynes is out of the question from its great cost, and it is very doubtful whether it would do any good or save expense in dredging. The cost to the trade of the port of using smaller cargo boats and providing tugs to two them might be less than either the extensive dredging proposed or the construction of a pier at Vakalapudi and a tramway or railway thence to the town, and this alternative should be also considered by the Board.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Port Conservancy Board, Cocanada.
Copy to the Presidency Port Officer.

From C. W. SIMSON, Esq., Vice-Chairman, Godávari District Ports Conservancy Board, Cocanada, to the Chief Secretary to Government, dated Cocanada, 23rd November 1891, No. 223.

With reference to Proceedings, Nos. 980 and 985, dated 7th October 1891, I have the honour to inform you that the matter has been duly placed before the Port Conservancy Board at their meeting held of 18th instant, and that they are of opinion that efficient dredging is the best means of improving the entrance to the Cocanada river.

From A. MACNAB, Esq., Vice-Chairman, Godávari District Ports Conservancy Board, to the Chief Secretary to Government, dated Cocanada, 22nd February 1892, No. 30.

I have the honour to acknowledge having received in due course your letter, No. 1261, of 21st December 1891, referring to this office No. 223 of 23rd November, in which it was given as the opinion of the Board that dredging was the only efficient means of dealing with the bar at this port and inquiring how the Conservancy Board would propose to provide for such dredging.

2. In reply, I am to state that the Board have had under consideration plans and estimates specially prepared for the purpose by Messrs. W. Symons and Co., of Renfrew (the builders of the Dredger *Wenlock*), and forwarded herewith for reference, for a self-propelling 275-ton hopper combined bucket ladder and sand pump dredger costing £13,500 delivered fully equipped in India, which the Harbour Boards of Cocanada and Vizagapatam, in consultation together, have resolved to ask leave to acquire for the two ports, two-thirds of the cost being contributed on account of Cocanada and the remaining one-third by Vizagapatam, the services of the dredger being divided in the same proportion. With such a dredger working here for eight months of the year, it admits of no question that the channel through the Cocanada bar could be easily and certainly kept dredged to a depth of $6\frac{1}{2}$ or 7 feet at low-water spring tides all the year round. The fairway, however, is seriously menaced by the sandbank which has formed to the north, and, although the proposed dredger would be able to keep that down, it appears certain that if that bank could be kept from encroaching on the fairway, the annual cost of dredging at that point would be greatly reduced and the large dredger would by so much be left free to devote itself to the improvement of the harbour elsewhere. Without, therefore, abandoning the position they took up some years ago of discontinuing groyne building and substituting dredging for the reduction of the bar, the Conservancy Board favour an extension of the north groyne out to the middle buoy, strictly as an adjunct to efficient dredging,

on which alone they hold reliance can be placed, and they have considered and approved a suggestion, embodied in a memorandum by the Vice-Chairman submitted herewith, that a sea wall to the middle buoy might be constructed of iron caissons filled in the first place with clay dredgings, for which country concrete could be substituted afterwards. The Board desire to commend this suggestion to the favorable consideration of Government, and now ask sanction to carry it out if approved. In the latter case they desire to apply to have the necessary funds, Rs. 41,500, advanced to them on loan for repayment in manner proposed in the memorandum.

It is, however, as stated, on the large dredger alone that reliance can be placed for keeping the bar open. The Vizagapatam Harbour Board are ready with their one-third share of cost. But Cocanada is unfortunately not equally well placed with that port financially. This port's contribution—two-thirds—would be in round figures Rs. 1,35,000, and if interest and depreciation on that sum had to be met, the whole of the surplus revenue of the port would be swallowed up. It is true that the dredging of the bar is by far the most important measure for the improvement of the port, but there are, notwithstanding, many other directions in which money is urgently needed, and in view of the direct interest which Government have in providing their East Coast Railway with improved outlets for traffic, the Conservancy Board have confidence in appealing to Government for a special outright grant from Provincial funds for their two-thirds share of the cost of the dredger. If this should be conceded, the problem of dealing with the bar will be solved, and with the revenue thus left free for other measures of improvement the Board look forward with confidence to putting the port and harbour of Cocanada in a condition more fitting, than will otherwise be at all possible, to its position as the main seaward terminus of the East Coast Railway.

Enclosures.

Extract from Minutes of a Special Meeting of the Godávari District Ports Conservancy Board, Cocanada, held on the 17th February 1892.

* * * * *

1. Read again Proceedings of Government, dated 21st December 1891, No. 1261, asking the Conservancy Board, Cocanada, to state how they propose to provide for the dredging which they consider necessary.

Also memorandum by the Vice-Chairman suggesting the extension of north arm of the groynes by iron caissons and a memorandum of views of the Deputy Conservator of the Port on the subject.

Resolution.—Resolved that the Vice-Chairman's memorandum, which has the Board's approval, be submitted to Government, and that Government be asked—

(1) to grant from Provincial funds the cost of the dredger required for the joint use of the ports of Cocanada and Vizagapatam;

(2) to sanction the estimate of Rs. 41,250 for extending the northern groynes; and

(3) to advance on loan the necessary funds to the Board for the latter purpose.

* * * * *

(Signed) F. H. HAMNETT,
Chairman.

Memorandum regarding removal of the Bar at the mouth of the River.

At the last two meetings of the Harbour Board, the accompanying letter, No. 1261, of 21st December 1891, from the Chief Secretary to the Madras Government, inquiring how we propose to provide for the dredging which we advocated as the only efficient means of dealing with the bar, has been brought up for disposal and has on each occasion been deferred for further consideration. It is obviously not a question which could be disposed of off-hand, and as it will have to be answered at our next meeting, the papers are circulated herewith for the consideration of members. In so circulating them, I ask leave to put before members a proposal which it seems to me may be worthy of consideration.

The inquiry we have now to meet takes its rise from a note by the Chief Engineer for Irrigation (Mr. Walch) reviewing with great conciseness and clearness the past and probable future physical history of the bar, and from a note thereon by Acting Presidency Port Officer

(Captain Bean) setting forth the means and the cost of attacking the bar by (*a*) training walls and (*b*) dredging. In both of these notes and in the Government order thereon, it is practically accepted that the first of these expedients (*i.e.*, training walls) is too costly, tedious and uncertain for us. The Cocanada Harbour Board arrived at the same conclusion five years ago, but in the light of experience since gained I submit the time has now come to reconsider that conclusion.

Captain Bean shows that the 784 running yards of groynes (North and South) which we have built have cost Rs. 70,000, or Rs. 87 per running yard, and he calculates that it would cost a further Rs. 4,82,500 to carry out both groynes to the one fathom line which he assumes to be necessary. If that were so, there would be little room for reconsidering our former decision, but observation of the bar since we desisted from pushing out the groynes warrants these fresh conclusions—

(1) that there is no silt coming into the fairway from the southward, and, as we have equally no weather to apprehend from that quarter, there is no immediate necessity, nor is there likely to be necessity for many years to come, for extending the south groyne;

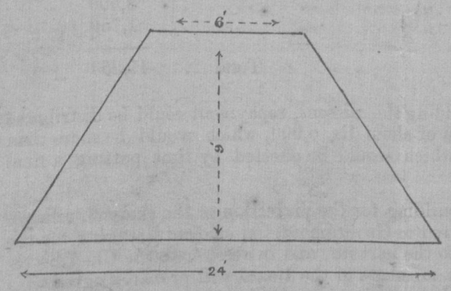
(2) our main trouble and the one standing menace to the fairway comes from the sand-bank which has formed outside and beyond the north groyne.

(3) that sand-bank shows signs of having reached the limits of its eastward, or seaward growth abreast of, or at worst slightly beyond, the middle buoy, and is now steadily growing southward or directly across our fairway, one-half of which is already blocked with sand; and

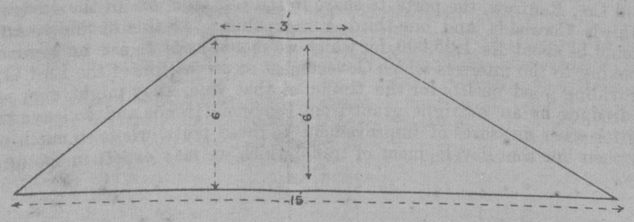
(4) the growth of this sand-bank would now give a hard, level surface along the whole line of the north groyne out to the middle buoy, the prevailing level being for the most part about one foot above low-water spring tides.

From these data it seems a fair presumption that an extension of the groyne on the north side only out to the middle buoy 550 yards would give protection from the main source of silting on the bar. There can be little doubt that the present steady southward growth of this bank is due to the flood-tide carrying into the fairway surface sand disturbed by wave action. No tidal scour exists which could clear away this hard sand-bank. While, therefore, as already intimated to Government, efficient dredging is the best means of successfully combating this obstruction, it seems clear that an extension of the north groyne on to the middle buoy is extremely desirable as an adjunct to such dredging, as, until this washing of sand into the channel is checked, our dredging power must always be more largely employed in simply neutralising this encroachment than in materially improving the approaches to the harbour.

As to the means and cost of building that extension, we have hitherto worked with rough Samalcotta stone. In initial cost this is the cheapest material we could use, but in actual working I submit that economy is more than lost—partly because of the individual stones as deposited sinking deeply into the mud bottom, but chiefly because the process of quarrying, transporting and depositing the stone is (unavoidably) so slow that, while each yard of groyne is being constructed, the rush of the ebb and flood round the end of the groyne has time to scour out a deep hole; throughout our operations we have in fact shoved in front of us a deep hole which has had to be filled in with Samalcotta stone far beneath the normal ground level of the groyne. As an indication of the money lost from this cause, we have but to compare the estimated, with the actual, expenditure on past construction. The section adopted for the groynes, which was as per margin, give as the quantity of stone required 15 cubic yards for every running yard of groyne constructed, which at Rupees 2–8–0 per yard placed *in situ* gave Rupees 37–8–0 as the cost of construction of every running yard; whereas, as Captain Bean shews, our actual expenditure has been Rs. 87. I contend that Samalcotta stone is not a cheap material for us, and that for that reason, and also because of the years it would take to build these further 550 yards, we should do better to leave groyne-building severely alone if Samalcotta stone were the only material available to us.



I suggest for consideration, however, another expedient, namely, caissons built of $\frac{1}{8}$" sheet iron strongly braced with angle and T iron of the following:—



These caissons could be built on shore in 20 feet lengths, and when a sufficient number of them were ready (say, 20), they could be floated into position, and there sunk and filled with dredgings (clay and sand mixed). Each caisson when so filled would weigh about 200 tons, would be quite immoveable by any sea that could ever be experienced there, and, having a base of 300 superficial feet, would not be apt to sink, while the whole 550 feet of groyne could probably (if a rivetting machine were obtained for the purpose) be constructed in one year. If properly cared for and with occasional repairs, these caissons should have a life of 7 years, and during that period they could be successively cleared of the dredgings, and filled instead with a concrete composed of rough stone and ordinary country chunam, with the result that at the end of the seven years we should have a groyne 550 yards long composed of concrete blocks each measuring 140 cubic yards, and throughout these seven years we should have all the protection which the completed groyne would give.

As to cost, I estimate that the following would cover:—

	LB.
Constructing Caissons.—Each running foot as per section given above equals 32 square feet of $\frac{1}{8}$th sheet iron weighing 5 lb. per foot =160 lb., or per running yard	480
Add for angle and T iron braces and stringers	90
„ ends of caissons	24
Total weight of metal per running yard ..	594

	RS.	A.	P.
Costing at Rs. 120 per ton	31	13	0
Add 25 per cent. for rivets and rivetting	7	15	0
	39	12	0

Or, say, total per running yard of caisson—Rs. 40.

	RS.
Giving cost of 550 yards of caisson groyne	22,000
Filling with Concrete.—Each running yard as per section given above equals 7 cubic yards, giving as cost of concreting each running yard Rs. 35, and so cost of concreting 550 yards of caissons ..	19,250
Total cost of 550 yards of caissons filled with concrete ..	41,250

And this expenditure might be distributed as follows:—

	RS.
1st year—Building and placing caissons	22,000
2nd year—Concreting 100 yards of caissons	3,500
3rd „ „ 100 „ „	3,500
4th „ „ 100 „ „	3,500
5th „ „ 100 „ „	3,500
6th „ „ 100 „ „	3,500
7th „ „ 50 „ „	1,750
Total ..	41,250

or if Government would advance the cost of building the caissons, repayment could be distributed over the seven years, making an annual charge of about Rs. 6,000, which would be more than counterbalanced by the saving in dredging which would be effected by thus putting a final stop to the encroachment of this sand-bank.

While thus reverting partially to groyne-building for the protection of the channel, reliance can only be placed, as we have already intimated to Government, on efficient dredging for the clearing and improvement of the approaches to the harbour, and in answer to the Chief Secretary's inquiry in letter circulated herewith, the members of the Board will probably agree with me that we cannot do better than put forward the proposal resolved upon at a recent meeting of the Board that we should join Vizagapatam in getting out a self-propelling 275-ton hopper combined bucket ladder and sand pump dredger, as per specification obtained from Messrs. W. Symons and Co., Renfrew, the ports to share in the cost and use of the dredger in the proportions, two-thirds Cocanada and one-third Vizagapatam. If this should be sanctioned, our contribution would be about Rs. 1,25,000, for which we should have to ask an advance from Government, but looking to the interests which Government as proprietors of the East Coast Railway will have in providing good outlets for the traffic of that line, they might very well be asked to provide the dredger by an outright grant from Provincial funds and so leave the local Port funds available for other measures of improvement to these ports, where so much remains to be done to quality them for that development of traffic which we may expect in the near future.

With these remarks the whole subject is commended to the careful consideration of members, who are invited to record their views on the papers now circulated preliminary to a special meeting, which, if convenient, I should propose to call on some day during the current week.

COCANADA,
8th February 1892.

(Signed) A. MACNAB,
Vice-Chairman, Godávari D. P. C. Board.

ORDER—dated 23rd March 1892, No. 96, Marine.

The request for a grant of Rs. 1,35,000 from Provincial funds, to meet the Cocanada share of a dredger which it is proposed the ports of Cocanada and Vizagapatam should purchase, cannot be entertained.

2. It is observed that nothing is said in the Vice-Chairman's memorandum regarding the cost of maintenance and working of the dredger, nor is it shown that, if the Conservancy Board had it, it could provide from landing and shipping fees for its use. It is not clear why the work cannot be done by the *Wenlock*.

3. The Vice-Chairman's proposal for extending the north groyne will be referred for the remarks of the Public Works Department; and the papers will be communicated to the Presidency Port Officer for an expression of his opinion. They should have been submitted through that officer.

4. The Godávari Conservancy Board must understand that whatever is done to improve the port of Cocanada must be paid for out of the resources of the port.

5. The Chairman—not the Vice-Chairman—should have addressed Government.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Presidency Port Officer, with papers in original to be returned.
" Public Works Department, with file of G.Os., returned.
" Chief Engineer for Irrigation.
" Chairman, Godávari District Port Conservancy Board.

Ed. A. Raitt.

Govt. of {1892} Madras.

MARINE.

Issued

Recd. *Encl.*

G.O., 23rd March 1892, No. 96.

MARCH.

Cocanada Port.

Declining to entertain the request for a grant of Rs. 1,35,000 from Provincial funds towards the purchase of a dredger; referring the proposal for extending the north groyne for the remarks of the Public Works Department and communicating the papers to the Presidency Port Officer for an expression of his opinion.

No. 1306 W. dt/25th April 1892

Communicated to the Supdg: Engineer 1st circle for report and the proposal for extending the North groynes. The sufficiency or otherwise of the estimate for the work should also be examined.

159 ors

SW

To

S.E. I circle

GOVERNMENT OF MADRAS.

MARINE DEPARTMENT.

READ—the following papers:—

Note by the Chief Engineer for Irrigation, dated Ootacamund, 5th January 1891.

With reference to the paragraph of G.O., No. 147, Marine, dated 17th April 1891, which requests me to give an opinion as to "the best means of remedying the unsatisfactory state of affairs" at Cocanada port—

1. In the absence of charts showing soundings at various times spreading over a considerable period, it is impossible to arrive at what is really taking place in the bay. The only chart sent has the date 1848, but apparently gives the soundings of a much later date; it certainly has entries on it of objects, *e.g.*, "Vakalapudi Lighthouse," which did not exist even 12 years ago. What is wanted for a proper consideration of the subject is a series of all the charts, showing soundings made since the one of 1806.

2. On my own knowledge and such information as is before me, however, I doubt if the deterioration of the bay as regards *the anchorage for ships* has been rapid or is alarming, and in support of this I would point out that, whilst in his report with the Proceedings of Madras Government now under notice, Captain Street says "the anchorage for deep draft vessels is now about 5 miles to the northward and eastward of Cocanada town," twenty years ago Mr. Robertson * (an Engineer sent out by the Secretary of State to report on Indian Harbours) said "the anchorage for ships is now *five* or *six miles* to the north of where it was at the time of Warren's survey of 1806." I would also direct attention to paragraphs 3 and 4 of Colonel Sankey's "note" printed with Proceedings of Madras Government, No. 426, dated 26th August 1880. It must also be remembered that the draught of ships using the harbour has greatly increased of late years.

* See his report, 1871.

3. But what is, and for many years has been, the source of troubles, is the shallowness of the bay in its south-west corner, where Cocanada lies, which renders in difficult for the large cargo boats there in use (they run up to 60 and even 80 tons) to get into and out of the "river" where they load and unload.

4. This "river," which for the greater part of the year discharges no fresh water other than what may be surplused from two of the Godávari canals, might more correctly be called a "tidal creek;" it debouches on a mud flat which, for about two miles seawards, has for many years had a depth on it of only 4 feet at "low-water springs." The tidal scour out of this creek has kept in it a depth considerably greater than 4 feet at all times, but naturally the material moved by the scour has always been deposited just beyond the mouth of the creek, forming what is known as the "bar"—a mere wrinkle of some 18 inches high on the surface of the mud flat.

5. Many years ago the scouring effect of the contracted channel of the creek led to its being artificially prolonged for a short distance by what were called "groynes" but are really "training walls," and in Colonel Sankey's note above referred to, the extension of these walls was recommended and it was also strongly advocated by the Cocanada Chamber of Commerce and the mercantile community of the place. The Marine Department accordingly prepared an estimate for carrying out the walls by some 1,900 feet.†

† Paragraph 1 of notes of inspection of the Chief Engineer, Public Works Department, with Proceedings of Madras Government, No. 200, Marine, dated 13th May 1885.

6. In dealing with this estimate, I said (Letter printed with Proceedings of Madras Government, dated 12th December 1882, No. 3275 W.):—

"I wish to place on record that I consider this work, which it is proposed to carry out, to be a very advisable one, as a step in the right direction; it is, however, only a step which will not in itself appreciably improve the present state of affairs till it is followed by an advance of the training walls or groynes for about the distance named in paragraph 28 of your (Colonel Sankey's) note with Proceedings of Madras Government, No. 426, of 26th August 1880, to a point where the high-level mud flat ceases and the soundings deepen almost suddenly from 4 feet to 7 feet at low-water springs."

7. The result of the work hitherto done has been, as anticipated, that the pushing of the "bar" by so much further out has not given any relief, and, indeed, judging from the survey of the "approaches to Cocanada" which accompany this file,* matters have been made worse by the rapid growth of the sand deposit at the back of the north wall which has now overlapped that wall and is shoaling the entrance.

* To be returned.

8. The rapid growth of this particular deposit was not foreseen, but in paragraph 19 of Colonel Sankey's note above referred to it is laid down that the "groynes should be continued" each year so as to keep pace with the advance of the silt deposits northwards.

9. The north wall has not, it appears, been carried out to nearly the length intended, and I would advocate its extension without any delay so as to keep it ahead of the accretion to the north of it; I consider also that the original intention of curving the walls gradually northwards (Mr. Robertson in his report calls it "seawards") should be adhered to.

10. To make and keep open a cut through the so-called "bar" no doubt, recourse must be had to dredging, but it is useless trying to dredge a channel to deeper water, a distance of some two miles, through the expanse of liquid mud, which runs into a dredged channel nearly as quickly as it is scooped out.

(Signed) G. T. WALCH,
Chief Engineer for Irrigation.

To the Ag. Secy. to Govt., P.W.D., Irrigation Branch.

No. 327-D.

Transferred to the Marine Department, with reference to G.O., No. 147, Marine, dated 17th April 1891.

OOTACAMUND,
8th June 1891.

(Signed) G. T. WALCH,
Ag. Secy. to Govt., P.W.D.,
Irrigation Branch.

From Captain M. BEAN, H.M.'s I.M., Officiating Presidency Port Officer, to the Chief Secretary to Government, dated Madras, 17th September 1891, No. 1269—362 G.

With respect to Marine Department reference, dated 16th June 1891, on current No. 620, forwarding for my remarks a note by the Chief Engineer for Irrigation as to the best means for effecting certain improvements to the port of Cocanada, I have the honour to state that I have delayed replying to the above until I received charts of the bay to enable a comparison to be made as to the extension of the silting; these charts † were received on September 10th, and are now forwarded for consideration. On comparison of the charts of 1875 and 1891, it will be seen that the sand spit called Godávari Point has extended north 2·3 sea miles, and that the top of the dry spit is now in a place where there was about 43 feet of water in

† 1 Chart, 1875.
1 do. 1891.
The Marine Survey Department have not any older chart than 1875 in their possession.

1875. This extension of the spit has improved the anchorage off Vakalapudi by making the water smoother with south-east winds.

2. From the old lighthouse to the one fathom line in 1875 was 2 miles, in 1891 it was $1\frac{1}{2}$ miles, and the soundings in the vicinity of the entrance to the creek and on a line direct to Godávari Point show that there has been an increase in the depth of the water in that part of the bay; this depth may increase if the Godávari spit goes on extending.

3. To carry the groynes out to the one fathom line would entail a great expense, the distance being 1·3 sea miles from the end of the groyne as it now is, and I question if they would have the desired effect, and would not recommend any money being spent on groynes, as it is impossible to say if the result will prove satisfactory. The length of the present extensions is 822 and 1,530 feet, respectively, which cost approximately Rs. 70,000. The extension of 1·3 miles from each end would thus cost in all about Rs. 4,82,500, and then there would be the cost of dredging out between the groynes.

4. To dredge a channel 1·3 mile long and 100 feet wide 9 feet deep would take a dredger of the powers of the *Wenlock* about 200 working days—say, 10 months allowing for stoppages and Sundays—and allowing the dredging to cost 2 annas per ton, which is a low rate, it would come to Rs. 24,940.

5. It would be necessary to work to 9 feet depth as the dredger draws 8 feet 6 inches loaded; this would necessitate a channel of 2·2 sea miles being dredged, which would cost about Rs. 41,800, and she would have to work inwards cutting a channel to float herself. If the channel was dredged to 9 feet, it would, I think, silt up about $1\frac{1}{2}$ feet a year and would require to be dredged again in 2 years at a cost of about Rs. 20,000.

6. It will be seen from the above, that if dredging alone be resorted to, the first cost will be Rs. 41,800 with an additional outlay of Rs. 20,000 every second year to keep the channel to the required depth, and that this is only allowing the width of the channel at one half of the distance between the groynes; to widen it to 200 feet would just double the expense. If the groynes are made, there will be cost of Rs. 41,800 to add for dredging and the annual sum of Rs. 2,000 also should the groynes prove of no service. It would, I think, be necessary to maintain a separate dredger for Cocanada of the same power as the *Wenlock* but a little lighter draft of water. The two dredgers they have are quite useless for a large work of this kind. They are only fit to work about alongside wharfs and dock entrances where larger dredgers cannot go.

7. I would recommend the channel being dredged out to 9 feet and examined at the end of a year to see what change there is; we should then be able to calculate if the port is worth the expense of keeping it dredged, and if it is not, some other plan could be adopted, such as building a pier about two miles south of Vakalapudi Lighthouse with a tramway to town.

8. I attach for reference a statement showing some trade statistics of the port.

9. I return all documents received with your letter under reply.

ENCLOSURE.

PARTICULARS of Trade of Cocanada Port from 1886–87 to 1890–91.

—	Value of trade.	Duty on trade.	Port dues.	Landing and shipping dues.
1886–87	117,76,357	19,155	15,757	8,188
1887–88	153,20,184	9,732	21,392	12,895
1888–89	159,55,659	48,483	16,409	13,562
1889–90	185,33,198	33,743	16,689	14,830
1890–91	172,70,010	51,177	21,960	21,269
Total ..	788,55,408	1,62,290	92,207	70,744

Reference on the above, dated 7th October 1891.

The papers will be forwarded to the Cocanada Port Conservancy Board for remarks. The exact date when the *Wenlock* will be available cannot be stated, but it will probably not be less than 18 months hence. The question whether even then the port can afford the cost of dredging out the channel as proposed by Captain Bean and whether it can provide itself with a dredger fully suitable to the work, should be considered by the Board. The extension of the groynes is out of the question from its great cost, while it is very doubtful whether it would do any good or save expense in dredging. The cost, to the trade of the port of using smaller cargo boats and providing tugs to two them might be less than either the extensive dredging proposed or the construction of a pier at Vakalapudi and a tramway or railway thence to the town, and this alternative should be also considered by the Board.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Port Conservancy Board, Cocanada.
Copy to the Presidency Port Officer.

From C. W. SIMSON, Esq., Vice-Chairman, Godávari District Ports Conservancy Board, Cocanada, to the Chief Secretary to Government, dated Cocanada, 23rd November 1891, No. 223.

With reference to Proceedings, Nos. 980 and 985, dated 7th October 1891, I have the honour to inform you that the matter has been duly placed before the Port Conservancy Board at their meeting held of 18th instant, and that they are of opinion that efficient dredging is the best means of improving the entrance to the Cocanada river.

From A. MACNAB, Esq., Vice-Chairman, Godávari District Ports Conservancy Board, to the Chief Secretary to Government, dated Cocanada, 22nd February 1892, No. 30.

I have the honour to acknowledge having received in due course your letter, No. 1261, of 21st December 1891, referring to this office No. 223 of 23rd November, in which it was given as the opinion of the Board that dredging was the only efficient means of dealing with the bar at this port and inquiring how the Conservancy Board would propose to provide for such dredging.

2. In reply, I am to state that the Board have had under consideration plans and estimates specially prepared for the purpose by Messrs. W. Symons and Co., of Renfrew (the builders of the Dredger *Wenlock*), and forwarded herewith for reference, for a self-propelling 275-ton hopper combined bucket ladder and sand pump dredger costing £13,500 delivered fully equipped in India, which the Harbour Boards of Cocanada and Vizagapatam, in consultation together, have resolved to ask leave to acquire for the two ports, two-thirds of the cost being contributed on account of Cocanada and the remaining one-third by Vizagapatam, the services of the dredger being divided in the same proportion. With such a dredger working here for eight months of the year, it admits of no question that the channel through the Cocanada bar could be easily and certainly kept dredged to a depth of $6\frac{1}{2}$ or 7 feet at low-water spring tides all the year round. The fairway, however, is seriously menaced by the sandbank which has formed to the north, and, although the proposed dredger would be able to keep that down, it appears certain that if that bank could be kept from encroaching on the fairway, the annual cost of dredging at that point would be greatly reduced and the large dredger would by so much be left free to devote itself to the improvement of the harbour elsewhere. Without, therefore, abandoning the position they took up some years ago of discontinuing groyne building and substituting dredging for the reduction of the bar, the Conservancy Board favour an extension of the north groyne out to the middle buoy, strictly as an adjunct to efficient dredging,

on which alone they hold reliance can be placed, and they have considered and approved a suggestion, embodied in a memorandum by the Vice-Chairman submitted herewith, that a sea wall to the middle buoy might be constructed of iron caissons filled in the first place with clay dredgings, for which country concrete could be substituted afterwards. The Board desire to commend this suggestion to the favorable consideration of Government, and now ask sanction to carry it out if approved. In the latter case they desire to apply to have the necessary funds, Rs. 41,500, advanced to them on loan for repayment in manner proposed in the memorandum.

It is, however, as stated, on the large dredger alone that reliance can be placed for keeping the bar open. The Vizagapatam Harbour Board are ready with their one-third share of cost. But Cocanada is unfortunately not equally well placed with that port financially. This port's contribution—two-thirds—would be in round figures Rs. 1,35,000, and if interest and depreciation on that sum had to be met, the whole of the surplus revenue of the port would be swallowed up. It is true that the dredging of the bar is by far the most important measure for the improvement of the port, but there are, notwithstanding, many other directions in which money is urgently needed, and in view of the direct interest which Government have in providing their East Coast Railway with improved outlets for traffic, the Conservancey Board have confidence in appealing to Government for a special outright grant from Provincial funds for their two-thirds share of the cost of the dredger. If this should be conceded, the problem of dealing with the bar will be solved, and with the revenue thus left free for other measures of improvement the Board look forward with confidence to putting the port and harbour of Cocanada in a condition more fitting, than will otherwise be at all possible, to its position as the main seaward terminus of the East Coast Railway.

ENCLOSURES.

EXTRACT from Minutes of a Special Meeting of the Godávari District Ports Conservancy Board, Cocanada, held on the 17th February 1892.

* * * * *

1. Read again Proceedings of Government, dated 21st December 1891, No. 1261, asking the Conservancy Board, Cocanada, to state how they propose to provide for the dredging which they consider necessary.

Also memorandum by the Vice-Chairman suggesting the extension of north arm of the groynes by iron caissons and a memorandum of views of the Deputy Conservator of the Port on the subject.

Resolution.—Resolved that the Vice-Chairman's memorandum, which has the Board's approval, be submitted to Government, and that Government be asked—

(1) to grant from Provincial funds the cost of the dredger required for the joint use of the ports of Cocanada and Vizagapatam;
(2) to sanction the estimate of Rs. 41,250 for extending the northern groynes; and
(3) to advance on loan the necessary funds to the Board for the latter purpose.

* * * * *

(Signed) F. H. HAMNETT,
Chairman.

MEMORANDUM regarding removal of the Bar at the mouth of the River.

At the last two meetings of the Harbour Board, the accompanying letter, No. 1261, of 21st December 1891, from the Chief Secretary to the Madras Government, inquiring how we propose to provide for the dredging which we advocated as the only efficient means of dealing with the bar, has been brought up for disposal and has on each occasion been deferred for further consideration. It is obviously not a question which could be disposed of off-hand, and as it will have to be answered at our next meeting, the papers are circulated herewith for the consideration of members. In so circulating them, I ask leave to put before members a proposal which it seems to me may be worthy of consideration.

The inquiry we have now to meet takes its rise from a note by the Chief Engineer for Irrigation (Mr. Walch) reviewing with great conciseness and clearness the past and probable future physical history of the bar, and from a note thereon by Acting Presidency Port Officer