

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 1417	(W)	Press ~~Mis.~~
Dated 25-4-	1877.	

Not to be folded or roughly handled

12

*Proceedings of the Madras Government, Public Works Department,
25th April 1877. No. 1,417.*

No. 599. Read the following letter from F. N. THOROWGOOD, Esq., C.E., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, Buildings and Roads Branch, dated Madras, 21st April 1877, No. 10 W:—

WITH reference to my letter No. 1 B, dated 2nd instant, reporting the progress of these works to the end of the month of March 1877, I have now the honor to forward a statement showing the expenditure on these works to the end of the same period.

Outlay on Madras Harbour Works up to 31st March 1877.

Heads of Estimate.	Cost for Feb. 1877.	Cost for March 1877.	Cost to end of March 1877.	Total Cost.	Estimate.
PRELIMINARY WORKS.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
Detailed Survey	87 12 0	106 5 4	2,013 7 1	2,013 7 1	5,000
Marine Survey	6 13 4	321 9 8	2,879 5 2	2,876 5 2	
Railways.					
Rails, &c., from England			33,251 1 4		1,50,000
Sleepers	897 14 8		37,365 2 5	1,29,284 12 5	
Formation	1,679 13 0	2,920 1 3	53,668 8 8		10,000
Opening quarries			1,878 8 4	1,878 8 4	
Preparing block ground	7,530 9 2	471 14 0	30,023 6 11	30,023 6 11	65,000
Jetties for shipping rubble stone					45,000
Land					30,000
CONSTRUCTION OF PIERS.					
North Pier.					
Surf bank			1,72,890 2 4	1,72,890 2 4	2,37,180
(a) Rubble base	1,493 14 0	4,487 2 8	18,288 14 1	18,288 14 1	4,82,680
Extra rubble for bank (if needed)			1,770 5 10	1,770 5 10	1,00,000
Concrete blocks—					
Making	23,849 12 10	20,165 7 5	1,03,484 12 4	1,03,484 12 4	10,00,500
Setting	6,890 14 9	1,643 2 0	9,825 1 3	9,825 1 3	3,06,500
Light-house					30,000
South Pier.					
Surf bank	2,976 10 11	4,571 14 1	7,607 5 10	7,607 5 10	2,37,180
(a) Rubble base	804 4 5	513 5 3	8,002 5 6	8,002 5 6	4,82,680
Extra rubble for bank (if needed)					1,00,000
Concrete blocks—					
(b) Making	34 6 6		59 4 0	59 4 0	10,00,500
(c) Setting			242 12 1	242 12 1	3,06,500
Light-house					30,000
Buildings	438 5 2	524 9 3	31,064 9 5	31,064 9 5	75,000
PLANT.					
Locomotive engines	24 0 6	34 0 0	1,102 6 8	1,102 6 8	60,000
Rolling stock	224 2 11	202 15 8	14,009 14 8	11,009 14 8	35,000
Floating plant			1,17,948 12 0	1,17,948 12 0	1,45,000
Machinery	2,311 11 8	1,516 7 9	1,66,296 2 8	1,66,296 2 8	1,25,000
Quarry and general tools	61 8 6	308 2 0	12,469 12 7	12,469 12 7	50,000
Buoys and beacons			651 5 7	651 5 7	3,000
Office furniture	4 8 0	53 0 0	2,340 9 9	2,340 9 9	2,000
ESTABLISHMENT.					
Salaries	2,895 7 9	2,923 7 6	67,089 10 2		2,45,690
Travelling allowances	128 2 0	100 0 0	6,956 15 9	75,465 0 4	
Office contingencies	127 1 4	117 15 3	1,392 12 5		
Medical			25 10 0		
CONTINGENCIES 5 PER CENT. ON TOTAL ESTIMATE.					
Prince of Wales' visit and other contingencies	179 11 2	102 9 10	9,837 0 0	17,752 0 9	2,45,690
Protecting north beach			7,865 0 9		
Total (d) ..	52,524 7 7	41,084 0 11	9,24,348 1 5	9,24,348 1 5	

NOTE.—(a) For current expenses on Steam Hoppers as well as work done by masula boats, and for stone quarried at Ambatoor ready for depositing in the sea.
 (b) Half the cost of advertising for cement for block-making is charged to the south pier.
 (c) Half the passage money of the Foreman Diver is charged to the south pier.
 (d) The total cost given is exclusive of the item of "materials at site" which, in the absence of certain information, is here omitted, but will be entered in the next statement.

MADRAS,
21st April 1877.

(Signed) F. N. THOROWGOOD,
Supt., Madras Harbour Works.

Proceedings of the Madras Government, Public Works Department,
25th April 1877. No. 1,417.

No. 600.

ORDER THEREON, 25th April 1877, No. 1,417.

CIVIL WORKS, No. 50.

RECORDED, in continuation of G.O.,
No. 1,382, dated 23rd April 1877.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

Copy to Madras Harbour Works up to 31st March 1877.

Heads of Estimate

was first for work to end of 1877. Total estimate

Preliminary Works

Detailed Survey

Marine Survey

Railways

Rail for from England

Shoppers

Formation

Opening Quarries

Preparing Black Ground

Setties for Shipping Rubble Stone

Land

Construction of Piers

North Pier

Surf Bank

Rubble Base

2 000 000 2 000 000 2 000 000

2 000 000 2 000 000 2 000 000

2 000 000 2 000 000 2 000 000

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Outlay one hundred dollars Harbor Works up to 31st March 1877.

Heads of Estimate

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	1929.	1930.	1931.	1932.	1933.	1934.	1935.	1936.	1937.	1938.	1939.	1940.	1941.	1942.	1943.	1944.	1945.	1946.	1947.	1948.	1949.	1950.	1951.	1952.	1953.	1954.	1955.	1956.	1957.	1958.	1959.	1960.	1961.	1962.	1963.	1964.	1965.	1966.	1967.	1968.	1969.	1970.	1971.	1972.	1973.	1974.	1975.	1976.	1977.	1978.	1979.	1980.	1981.	1982.	1983.	1984.	1985.	1986.	1987.	1988.	1989.	1990.	1991.	1992.	1993.	1994.	1995.	1996.	1997.	1998.	1999.	2000.	2001.	2002.	2003.	2004.	2005.	2006.	2007.	2008.	2009.	2010.	2011.	2012.	2013.	2014.	2015.	2016.	2017.	2018.	2019.	2020.	2021.	2022.	2023.	2024.	2025.	2026.	2027.	2028.	2029.	2030.	2031.	2032.	2033.	2034.	2035.	2036.	2037.	2038.	2039.	2040.	2041.	2042.	2043.	2044.	2045.	2046.	2047.	2048.	2049.	2050.	2051.	2052.	2053.	2054.	2055.	2056.	2057.	2058.	2059.	2060.	2061.	2062.	2063.	2064.	2065.	2066.	2067.	2068.	2069.	2070.	2071.	2072.	2073.	2074.	2075.	2076.	2077.	2078.	2079.	2080.	2081.	2082.	2083.	2084.	2085.	2086.	2087.	2088.	2089.	2090.	2091.	2092.	2093.	2094.	2095.	2096.	2097.	2098.	2099.	2100.	2101.	2102.	2103.	2104.	2105.	2106.	2107.	2108.	2109.	2110.	2111.	2112.	2113.	2114.	2115.	2116.	2117.	2118.	2119.	2120.	2121.	2122.	2123.	2124.	2125.	2126.	2127.	2128.	2129.	2130.	2131.	2132.	2133.	2134.	2135.	2136.	2137.	2138.	2139.	2140.	2141.	2142.	2143.	2144.	2145.	2146.	2147.	2148.	2149.	2150.	2151.	2152.	2153.	2154.	2155.	2156.	2157.	2158.	2159.	2160.	2161.	2162.	2163.	2164.	2165.	2166.	2167.	2168.	2169.	2170.	2171.	2172.	2173.	2174.	2175.	2176.	2177.	2178.	2179.	2180.	2181.	2182.	2183.	2184.	2185.	2186.	2187.	2188.	2189.	2190.	2191.	2192.	2193.	2194.	2195.	2196.	2197.	2198.	2199.	2200.	2201.	2202.	2203.	2204.	2205.	2206.	2207.	2208.	2209.	2210.	2211.	2212.	2213.	2214.	2215.	2216.	2217.	2218.	2219.	2220.	2221.	2222.	2223.	2224.	2225.	2226.	2227.	2228.	2229.	2230.	2231.	2232.	2233.	2234.	2235.	2236.	2237.	2238.	2239.	2240.	2241.	2242.	2243.	2244.	2245.	2246.	2247.	2248.	2249.	2250.	2251.	2252.	2253.	2254.	2255.	2256.	2257.	2258.	2259.	2260.	2261.	2262.	2263.	2264.	2265.	2266.	2267.	2268.	2269.	2270.	2271.	2272.	2273.	2274.	2275.	2276.	2277.	2278.	2279.	2280.	2281.	2282.	2283.	2284.	2285.	2286.	2287.	2288.	2289.	2290.	2291.	2292.	2293.	22
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February 1877 March 1877 March 1877

Preliminary Work.

Detailed Survey!

Marine Survey—

Railways

Rails go from England

Sleepers

Principles

Opening Quarries 2 (1888)

Preparing Block Ground
2 1/2 11: P 11

Letters for shipping narrow stone

Land.

Construction of Siro

North Pier

Surif Bank

The Elder Brew-

~~extra needed for Bank if needed~~

Concrete Block

Wm. S. Long

18

Light house

Leontide Pier!

Surf Bank

*Bubble Bath—
Extra Bubble*

Concrete Blocks—

1917

—buoying for

.....

Faintly visible text, likely bleed-through from the reverse side of the page.

Buildings.

Grand

Locomotive Engines
P. 11. 17-18.

*Rolling back—
Floating Stand—*

machinery—

Quarry and General Tools-

Bulls and Beavers—

Office Furniture—

1

Carried forward. 4944. 14 3986 4 0 18185 4 0 89120 4

From
P.W.D.

To

Colon
Lc

Sir,

With
dated 2nd Dec
these works
1877, the
statement
works to be

Grand Estimate

for the construction of the
Sewerage Works, March 1877

Classification

Salaries

Gravelling Allowance

Office contingencies

Medical

Contingencies of general maintenance

Price of Works to be done

Protecting Works

Total

...

Note A. For casual expenses, as well as maintenance,
contingencies, and for the purchase of materials, and for
dependent on the day.

At the end of advertising for the work, the work is done
in the month of...

The work is done in the month of...
The work is done in the month of...

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P.W.D.
4 APR 77

Black

Madras
21st April 1877

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Concrete Blocks	2859. 10. 10	2065. 7. 5	2858. 12. 4	10248. 12. 4	100000
Trucking	609. 14. 9	442. 2. 4	9825. 1. 3	9825. 1. 3	30000
Light house					20000
South Pier					20000
Surf Bank	2976. 10. 8	4571. 14. 1	7607. 5. 10	7607. 5. 10	237180
Public Barge	604. 4. 5	513. 5. 3	5002. 5. 6	5002. 5. 6	452680
Extra Barge for Bank if needed					100000
Concrete Blocks	24. 6. 6		59. 4. 0	59. 4. 0	1000500
Trucking			242. 12. 1	242. 12. 1	206500
Setting					30000
Light house					30000
Buildings	438. 5. 2	524. 4. 3	3104. 9. 5	3104. 9. 5	75000
Plant					10000
Locomotive Engines	24. 0. 6	34. 0. 0	1102. 6. 6	1102. 6. 6	35000
Rolling Stock	224. 2. 0	202. 15. 8	1009. 14. 8	1009. 14. 8	105000
Floating Plant			1799. 12. 0	1799. 12. 0	125000
Machinery	2311. 11. 8	156. 7. 9	12296. 2. 8	12296. 2. 8	50000
Quarry and General Tools		308. 2. 0	12469. 12. 7	12469. 12. 7	3000
Bumps and Beams			651. 5. 7	651. 5. 7	2000
Office Furniture	4. 8. 0	53. 0. 0	2340. 9. 9	2340. 9. 9	2000

Carried forward 4994. 14. 37510. 4. 83431 0 4 83431 0 4

N^o 1011.

J. N. Thoroughgood, Esq; L. C.
Superintendent,
Madras Harbour Works.

To
Colonel C. A. Ford R. C.
Secretary to Government P. W. D.,
Roads & Buildings Branch,
Fort St. George,
Madras, 21st April 1877.

Sir,

With reference to my letter No. 1011, dated 2nd Instant, reporting the progress of these works to the end of the month of March 1877, I have now the honor to forward a statement showing the expenditure on these works to the end of the same period.

I have the honor to be,
Sir,
Your most obedient servant,
J. N. Thoroughgood.
Superintendent
M. S. Works

1871

Received of the Treasurer of the
Board of Directors of the
City of New York

the sum of \$100.00

for the purchase of

land in the City of New York

for the use of the

City of New York

This receipt is to certify that the sum of \$100.00 has been received from the Treasurer of the Board of Directors of the City of New York for the purchase of land in the City of New York for the use of the City of New York.

Witness my hand and the seal of the City of New York this 1st day of January 1871.

John A. Bunting

Received of the Treasurer of the
Board of Directors of the
City of New York

the sum of \$100.00

for the purchase of

land in the City of New York

for the use of the

City of New York

This receipt is to certify that the sum of \$100.00 has been received from the Treasurer of the Board of Directors of the City of New York for the purchase of land in the City of New York for the use of the City of New York.

Witness my hand and the seal of the City of New York this 1st day of January 1871.

John A. Bunting

Roads & Buildings

24 APR 77

No. 599

From the Superintendent
Madras Harbour Works

No 10 W

Dated 21st April 1877

Civil Works

No of Enclosures 1

No 1417 of 25th April 77

Recorded in

Contⁿ of G.O. No 1382

Dated 23rd April 77

Expenditure for March

Forwards statement showing
Expenditure on the works to the
end of March 1877

4025 April 77 L.P. 599

Supt. M. H. H. H.

L.P. 599

5. 5. 77

1873
Govt. of India
PUBLIC WORKS.

To The Supt. In H. Works

Dated

Issued

Recd.

Encl.

G. O., 25 April 1877, No. 1417

Nos. 599-600

Madras Harbour Works
The statement of expendi-
ture to end of March 1877
on the ———— recorded.

Entd. in Regt.

dropt. 5-5-11