

GOVERNMENT OF BENGAL.
PUBLIC WORKS DEPARTMENT.

Miscellaneous Public Improvements.

No 23 W d/6th January 1888.

13

Recorded.

TO THE SECY. TO THE GOVT. OF INDIA; P. W. DEPT.;
MILY. DEPT.; BOMBAY, P. W. DEPT.; AND
AS CHIEF COMM., BURMA, AND PORT
ALCUTTA.

No. 2231M.P.I.

Dated the 21st December 1887.

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No 23 W d/6th January 1888.
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FORWARDS
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QUARTERLY INSPECTIONS OF THE KIDDERPORE DOCK WORKS.

SECOND REPORT.

Dated Calcutta, the 5th December 1887.

From—T. H. WICKES, Esq., AND H. CLÖETE, Esq.,
To—The Secretary to the Government of Bengal, Public Works Department.

WE have the honour to report that, in accordance with the instructions contained in the orders of the Government of Bengal's No. 1945M.P.I., dated the 21st ultimo, we made the second quarterly inspection of the works in progress at the Kidderpore Docks on the 29th idem.

2. The enclosed tabular statement and index plan, submitted by the Superintending Engineer of the Docks, show the work done during the quarter and the total amount executed from the commencement.

3. It must be remembered that this report has reference to the quarter ending the 30th of September last, that is to say, to a time when the works were necessarily retarded by the rainy season and by the annual Doorga Poojah holidays. The progress was consequently much less than in the previous quarter, but was greater than the Superintending Engineer in charge of the works had anticipated.

4. The condition of the works on the 30th of September last was as briefly described below:—

TEMPORARY WORKS AND PLANT.

The trucks in hand were found to be insufficient for the removal of spoil and the carriage of materials; but as the Superintending Engineer was enabled to hire a number from the East Indian Railway, we are informed that no actual inconvenience to the work resulted. The Dock Tramway and the Garden Reach road were diverted from their previous direction and now cross the completed portions of the walls of the tidal basin, so that further change will not be necessary for a considerable time.

PERMANENT WORKS.

Acquisition of Land.—Though all the land required had not been absolutely handed over, no inconvenience on this account was experienced.

Sixty-foot Lock.—Progress was made with the excavation of the open cutting, 960,000 cubic feet of earthwork were executed, and arrangements completed for commencing the timbered trenches when the required level was reached.

Tidal Basin.—The portions of the east and west walls which were founded in the previous quarter were nearly completed to their full height; the quantity of masonry executed in them during the quarter being 139,890 cubic feet: 875,652 cubic feet of earth were also excavated.

Dock No. 1.—During the quarter 1,491,052 cubic feet of earthwork and 398,461 cubic feet of masonry were executed; and 257 running feet of quay wall founded.

Boat Canal.—The work on the boat canal was practically suspended owing to the rainy season.

Expenditure.—The total outlay up to the end of the quarter was Rs. 63,82,617, of which Rs. 42,09,898 were for works and Rs. 21,72,719 on account of land.

SANITARY.

The health of the work-people was very satisfactory. The average number employed was 4,141, amongst whom there were only eight deaths reported.

GENERAL REMARKS.

Taking into consideration the season of the year covered by the report, we are of opinion that good progress was made with the works in general, and that, so far as we have been able to judge from our inspection, the character of the work is all that could be desired.

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CALCUTTA.
the 21st December 1887.
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any copy of the repo
y inspection of the dock wo
the Commissioners for m
plan at
Kidder
Impr
ve the honour to be,
SIR,
most obedient servant,
Govt. of Bengal,
P. W. Dept.

of Madras,
hartment.

28/12/87

for the year

KIDDERPORE DOCK WORKS.

PROGRESS REPORT FOR THE QUARTER ENDING 30TH SEPTEMBER 1887.

In consequence of the season and the interruption caused by the Doorga Poojahs, considerably less work was done than had been accomplished during the previous quarter.

On the Tidal Basin section the diversion of the Garden Reach road and the Dock tramways from their previous direction leading across the site of the double entrance to that crossing the middle of the tidal basin, and the portions of the east and west walls built during the previous quarter, was nearly completed. The excavation of the open cutting for the 60 feet lock was pushed on vigorously and all arrangements made for commencing the timbered trenches as soon as the required level was reached.

On Dock No 1 the walls were proceeded with and a length of 257 feet was founded, and considerable progress made in the superstructure of the walls, the foundation for which had been previously got in.

Work on the excavation of the Boat Canal was interrupted by the rainy season.

The plan and tabular statement annexed show the details of the progress made in the various items of work.

The following table shows the number of men employed and their sanitary condition:—

Health Return compiled from the Monthly Reports of the Medical Officer for the months of July, August and September 1887.

Month.	Number of work-men.	DAILY AVERAGE NUMBER OF CASES UNDER MEDICAL TREATMENT.			DEATHS.			Mortality per 1,000 of population per annum.
		Cholera.	Other diseases.	Total.	Cholera.	Other diseases.	Total.	
July 1887 ...	3,833	09	34.5	34.59	2	3	5	15.6
August " ...	3,707	06	41.0	41.06	1	1	2	6.5
September " ...	4,882	03	32.5	32.53	1	1	2	2.45
Average total divided by three months ...	4,141	06	36.0	36.06	1.4	1.3	2.7	7.82

The 12th November 1887.

J. H. APJOHN,
Superintending Engineer, Dock Works.

KIDDERPORE DOCK WORKS.

Progress Report for quarter ending 30th September 1887.

ESTIMATE.	Sub-head.	Estimated quantity.	Executed to end of previous quarter.	Executed during the quarter.	Total executed up to end of quarter.	Percentage of whole executed.	REMARKS.
Sixty feet lock ...	Excavation ... C. ft.	7,306,077	250,000	960,000	1,210,000	16.4	
Eighty feet entrance ...	Masonry ...	2,229,400	...	...	...	...	
...	Excavation ...	73,000	...	...	...	...	
...	Masonry ...	2,097,168	...	...	...	...	
Tidal basin ...	Quay wall foundation ... R. ft.	27,000	...	...	...	...	
...	Ditto masonry ... C. ft.	2,140	...	...	...	...	
...	Excavation, including that for quay wall foundation ...	2,011,000	418,110	139,890	558,000	27.8	
Double entrance to Dock No. 1 ...	Excavation ...	23,601,352	3,784,808	875,652	4,660,520	19.7	
...	Masonry ...	4,101,750	...	...	...	...	
Dock No. 1 ...	Quay wall foundation ... R. ft.	1,161,334	...	...	...	...	
...	Ditto masonry ... C. ft.	70,000	...	...	...	...	
...	Excavation, including that for quay wall foundation ...	6,435	1,241	257	1,498	23.3	
Boat canal ...	Excavation ...	5,830,110	721,370	398,461	1,119,831	19.2	
...	Masonry ...	72,000,150	21,080,922	1,491,073	22,571,994	31.3	
Graving dock ...	Excavation ...	41,977,980	8,350,000	50,000	8,400,000	20.0	
...	Masonry ...	1,068,048	...	...	...	...	
...	...	5,830,720	...	...	...	...	
...	...	1,228,160	...	...	...	...	

The 12th November 1887.

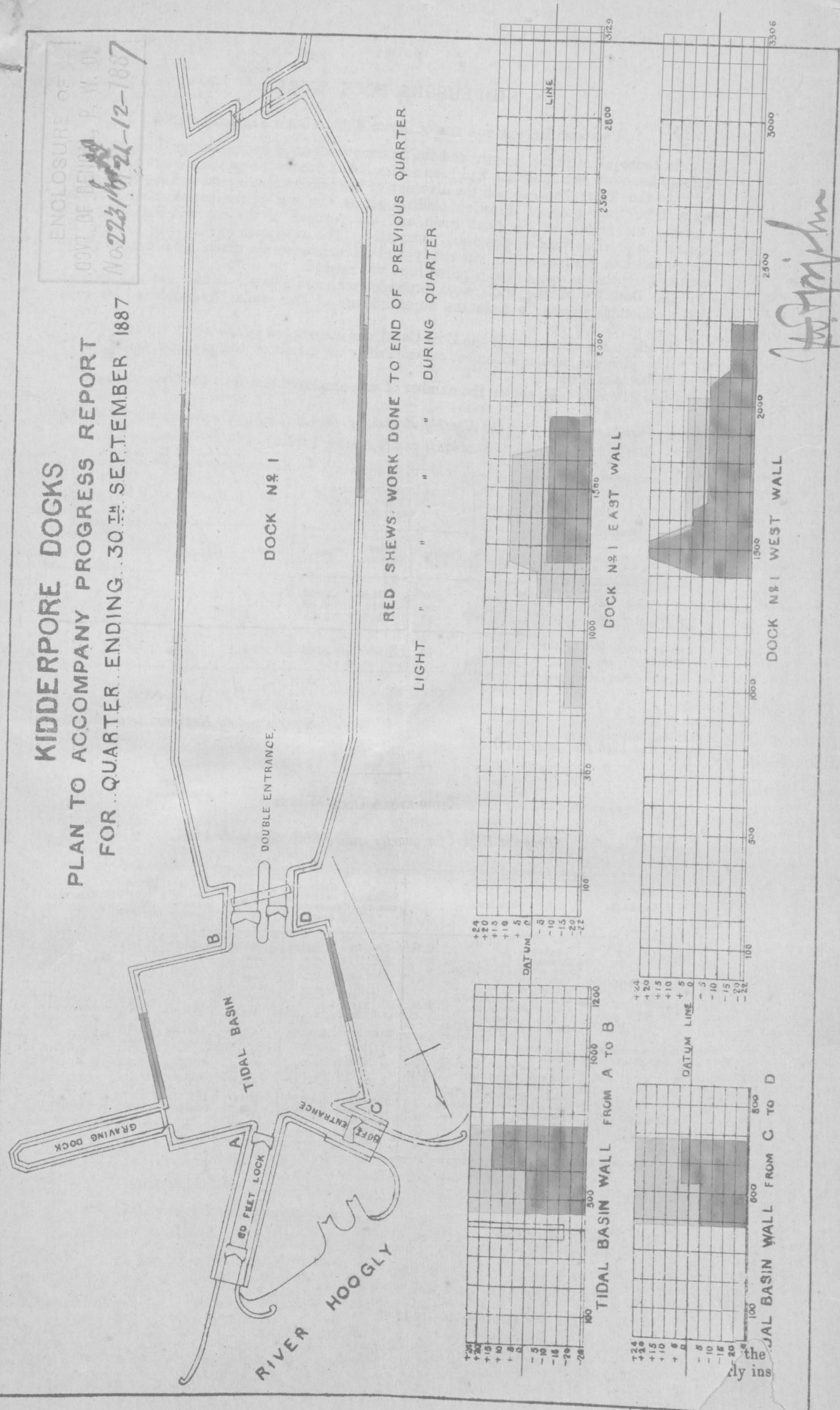
J. H. APJOHN,
Superintending Engineer, Dock Works.

C. E. G.—Reg. No. 13761C—114—22-12-87

KIDDERPORE DOCKS

PLAN TO ACCOMPANY PROGRESS REPORT

FOR QUARTER ENDING 30TH SEPTEMBER 1887



P.W.D. No. 8

1887. 20-1-88

GOVERNMENT OF BENGAL.
PUBLIC WORKS DEPARTMENT.

Miscellaneous Public Improvements.

No 23 W dated 6th January 1888

TO THE SECY. TO THE GOVT. OF INDIA; P. W. DEPT.;
MILY. DEPT.; BOMBAY, P. W. DEPT.; AND
MADRAS, CHIEF COMM., BURMA, AND PORT
COMMRS., CALCUTTA.

Recorded

801 Jv

No. 2231M.P.I.

Dated the 21st December 1887.

No 23 W a/ 6th January 1888

FORWARDS for information a copy of the report (with
plan and statement) of the second quarterly inspection of the
dock works at Kidderpore.

QUARTERLY INSPECTIONS OF THE KIDDERPORE
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The 12th November 1887.

J. H. APJOHN,
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Sixty feet lock	Excavation ... C. ft.	7,306,077	250,000	960,000	1,210,000	16.4	* The figure 626 shown in previous report was erroneous. J. H. A.
Eighty feet entrance	Masonry ...	2,229,490	...	...	...	...	
	Square feet of foundation ...	73,000	...	...	...	...	
	Excavation ...	2,697,168	...	...	...	...	
	Masonry ...	711,071	...	...	...	...	
	Square feet of foundation ...	27,000	...	...	...	...	
	Quay wall foundation ... R. ft.	2,140	...	...	...	...	
	Ditto masonry ... C. ft.	2,011,600	418,110	...	...	...	
	Excavation, including that for quay wall foundation	23,601,352	3,784,988	...	...	...	
	Excavation ...	4,101,750	...	...	...	...	
Double entrance to Dock No. 1.	Masonry ...	1,161,334	...	...	...	...	* The figure 626 shown in previous report was erroneous. J. H. A.
	Square feet of foundation ...	70,000	...	...	...	...	
	Quay wall foundation ... R. ft.	8,435	1,241	...	...	...	
	Ditto masonry ... C. ft.	5,820,110	721,370	...	...	...	
	Excavation, including that for quay wall foundation	72,000,150	21,080,922	...	...	...	
	Masonry ...	41,977,980	8,350,000	...	...	...	
	Excavation ...	1,068,048	...	...	...	...	
	Masonry ...	5,830,720	...	...	...	...	
	Masonry ...	1,228,160	...	...	...	...	
	Masonry ...	...	...	...	...	...	
Boat canal	Excavation ...	...	...	...	...	...	* The figure 626 shown in previous report was erroneous. J. H. A.
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
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	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	
Graving dock	Excavation ...	...	...	...	...	...	* The figure 626 shown in previous report was erroneous. J. H. A.
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	
	Excavation ...	...	...	...	...	...	
	Masonry ...	...	...	...	...	...	

The 12th November 1887.

J. H. APJOHN,
Superintending Engineer, Dock Works.

No. 2231M.P.I.

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

Mis. Pub. Impts.

TO THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

" " " " OF INDIA,
" " " " MILITARY DEPARTMENT.
" " " " OF BOMBAY,
" " " " PUBLIC WORKS DEPARTMENT.
" " " " OF MADRAS,
" " " " PUBLIC WORKS DEPARTMENT.
" " " " CHIEF COMMISSIONER OF BURMA,
" " " " PUBLIC WORKS DEPARTMENT.
" " " " CHAIRMAN OF THE COMMISSIONERS FOR MAKING
" " " " IMPROVEMENTS IN THE PORT OF CALCUTTA.

Dated Calcutta, the 21st December 1887.

SIR,

I AM directed by the Lieutenant-Governor to forward, for the information of the Government of India, Government of Bombay, Government of Madras, the accompanying copy of the report (with plan and statement) of the second quarterly inspection of the dock works at Kidderpore, which are being carried out by the Commissioners for making Improvements in the Port of Calcutta.

I have the honour to be,

SIR,

Your most obedient servant,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal,
P. W. Dept.

Accompaniments.
Copies of the report.
Plan and statement.

P. W. D. No. C. 8

1887. *28-1-88*

GOVERNMENT OF BENGAL.

PUBLIC WORKS DEPARTMENT.

Miscellaneous Public Improvements.

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