

- (1) பக்கங்களின் எண்ணிக்கை 8
 (2) புதுக்கித் திருப்பிய நாள் 23.10.89
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 10/2

தமிழ்நாடு ஆவணக் காப்பகம்.

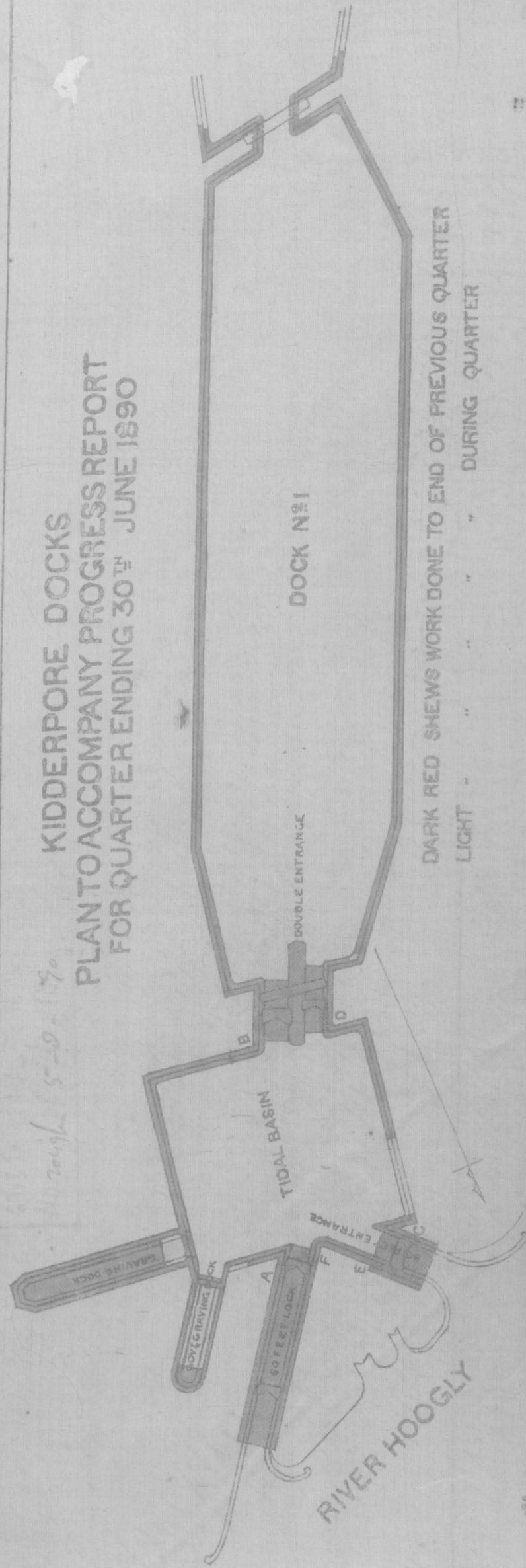
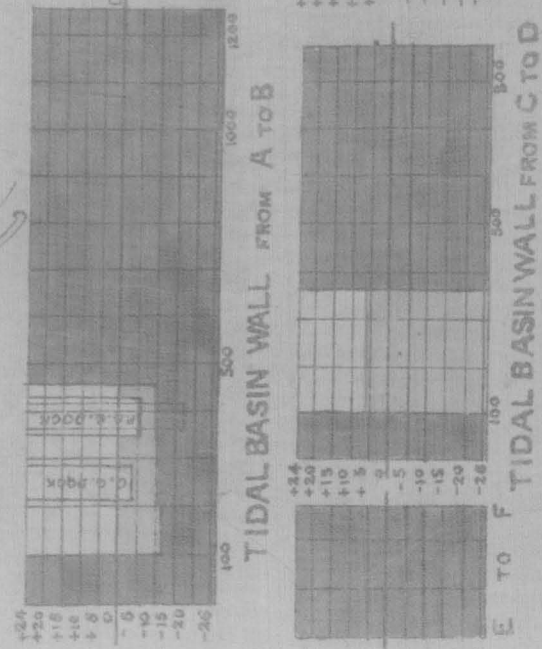
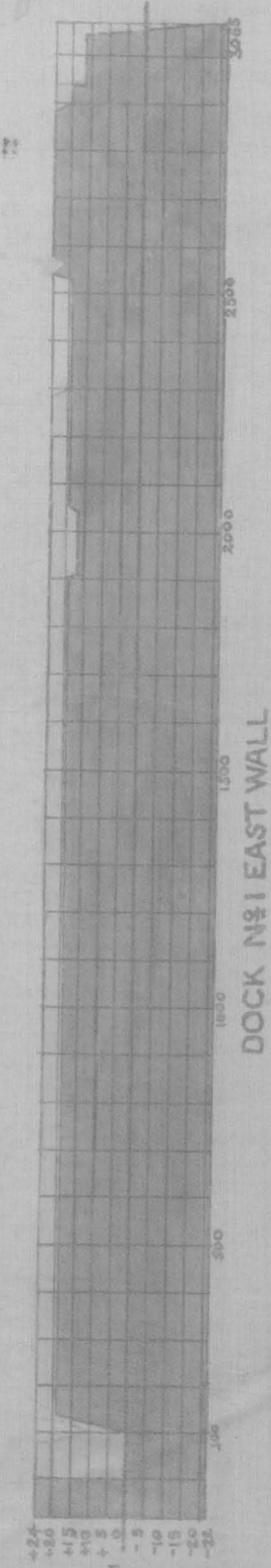
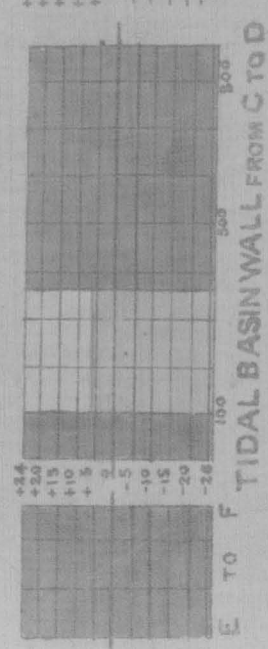
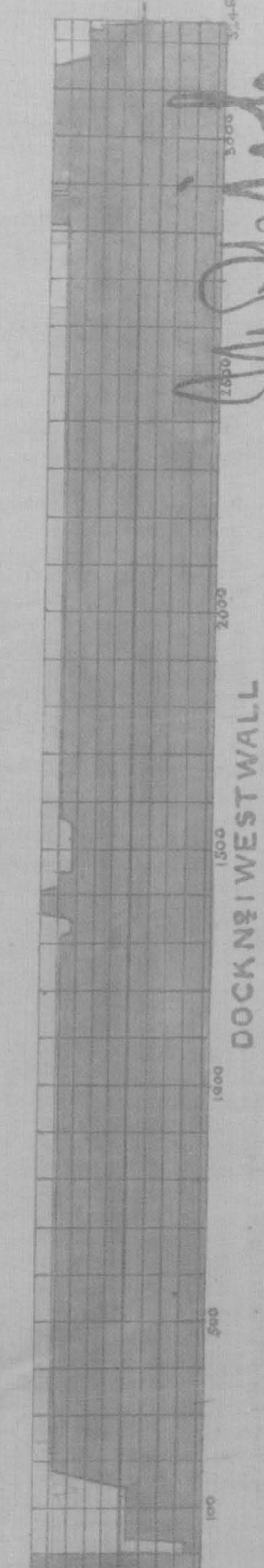
தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண்.	<u>2326-W</u>	அச்சகம்
மு. கோப்புத் தாள் எண்.		பலவகை
நாள் :	<u>29-8-1890</u>	198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

KIDDERPORE DOCKS
PLANT TO ACCOMPANY PROGRESS REPORT
FOR QUARTER ENDING 30TH JUNE 1890



Handwritten signature
Engineer
Calcutta Port Trust

Regd. No. 138. 100. 2. 7. 90.

No. 198Mne., dated Calcutta, the 4th August 1890.

The following report of the 13th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners of the Port of Calcutta, is published for general information.

J. M. McNEILE, Col., R.E.,
Secretary to the Government of Bengal.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

Dated Calcutta, the 31st July 1890.

From—MAJOR A. D. McARTHUR, R.E., and W. CONNAN, Esq.,
To—The Secretary to the Government of Bengal, Public Works Department.

ADVERTING to the orders of the Government of Bengal, communicated with your letter No. 1874M. of the 19th instant, we have the honour to report that the 13th quarterly inspection of the Dock Works was made on the 26th instant.

2. The usual tabular statement and the index plan showing the work done during the quarter, ending 30th June last, and the total amount executed from the commencement which have been prepared by the Superintending Engineer of the Dock Works, are already with Government. The present state of the various works under construction is reported in the following paragraphs:—

Sixty feet Lock.—This work is completed with the exception of the river-side revetments; about 13·7 per cent. of excavation and 2·6 per cent. of masonry work still remains to be done. The hanging of the riverside gates is almost completed.

Eighty feet Entrance.—The hanging of the gates is finished, and, with the exception of the riverside revetments, the work is almost completed. About 21·0 per cent. of excavation remains to be done.

Double entrance to Dock No. 1.—The work is almost completed, the gates being hung, and the completion of the erection of the swing bridge only remaining.

Tidal Basin.—The quay wall foundation has now been completed, and only a small quantity of the superstructure remains to be done; about 7·4 per cent. of masonry still remains.

Graving Dock.—All foundations are in; earthwork completed and only 4·3 per cent. of masonry remains to be done. The foundations of the engine-house and chimney shaft are also in.

Government Graving Dock.—Earthwork completed, foundations all in and two-thirds of the masonry done.

Dock No. 1.—The quay wall foundations and masonry all completed, with the exception of coping; 3,771,383 c.ft. of excavation is completed, and about 14·0 per cent. remains to be done. Considering the state of the work, it is expected that the earthwork will be completed during the current quarter.

Boat Canal.—During the quarter the excavation of this work was proceeded with, and about 1,978,618 c.ft. of earthwork executed, thus leaving only 25·1 per cent. of excavation to be done. The lift-lock is finished with the exception of gate erection. Main pumping station is well in hand. The bridges are practically complete with the exception of the approaches. The foundation of the Chetla Hât lock is in a forward state.

Subsidiary Works.—The chimney, shaft and engine-houses are complete, and the engine erected. The accumulator tower is bordering on completion and the erection of the accumulator almost complete. The jetty heads to the entrance are well in hand, and good progress has been made with the foundations of six cargo sheds.

Expenditure.—The total expenditure up to end of the quarter under review is reported to be Rs. 1,85,97,963, of which Rs. 1,59,95,278 represent outlay on works and Rs. 26,02,685 on account of land.

Sanitary.—The health of the workpeople was not so satisfactory as in the previous quarter. The average number of coolies employed was 7,579, among whom there were 19·0 deaths, thus showing a death-rate of 2·30 per annum.

General Remarks.—We are of opinion that fair progress has been made with the works, and that so far as we have been able to judge from a quarterly inspection the character of the work was satisfactory, and the quantity of the work done was all that could be desired, promising completion at an early date.

KIDDERPORE DOCK WORKS.

Progress Report for quarter ending 30th June 1890.

Out of the total quantity of brickwork, viz., 14,992,474 cubic feet, only 995,566 remained to be done at the end of the quarter under review; 986,743 cubic feet having been done during the three months ending 30th June. However, two-thirds of the balance remaining to be done is in the lock at the Chetla end of the boat canal. All the works on the dock and tidal basin are either completed or almost so.

Sixty-feet lock.—Completed, with the exception of the riverside revetments. The erection of the gates is almost finished.

Eighty-feet entrance.—Is finished, with the exception of the riverside revetments.

Tidal Basin.—The walls have now been completely founded, and only a very small quantity of the superstructure remains to be done.

The Double Entrance to Dock No. 1.—Is finished, the gates hung, and the swing bridge is being erected.

Graving Dock.—All foundations are in, and only 7 per cent. of the masonry remain to be done. The foundation of the engine-house and chimney shaft are also in.

Government Graving Dock.—All foundations in, and two-thirds of the masonry done.

Dock No. 1.—The walls are completed, and it is expected that the excavation will be finished during the current quarter.

Boat Canal.—Lift lock finished with the exception of gate erection. Main pumping station is well forward. The bridges are practically complete, with the exception of the approaches. The Chetla lock foundations are well forward.

Subsidiary Works.—The hydraulic engine-house is practically complete with chimney shaft and accumulator tower. The four jetty heads to the entrances are well started. The foundations of six cargo sheds are in progress. The usual tabular statements are appended.

J. H. ARJOHN,
Engineer, Port Trust.

The 11th July 1890.

KIDDERPORE DOCK WORKS.

Progress Report for the quarter ending 30th June 1890.

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 ESTIMATED QUANTITY.		
						Done during the quarter.	Done up to end of quarter.	Remaining to be done.
Sixty-feet lock	Excavation ... c. ft.	7,394,077	6,304,376	Nil	6,304,376	Nil	85.3	14.7
	Masonry ... s. ft.	2,229,480	2,133,307	40,000	2,173,307	17	97.4	2.6
Eighty-feet entrance.	Excavation ... c. ft.	78,000	78,000	Nil	78,000	Completed.	100	0
	Masonry ... s. ft.	2,097,008	2,131,600	Nil	2,131,600	100	100	0
Double entrance to dock No. 1.	Excavation ... c. ft.	711,071	713,000	Nil	713,000	Completed.	100	0
	Masonry ... s. ft.	27,000	28,045	Nil	28,045	104	104	0
Tidal basin	Excavation ... c. ft.	4,101,750	4,029,460	Nil	4,029,460	98	98	2
	Masonry ... s. ft.	1,705,471	1,693,000	30,000	1,723,000	100	100	0
Graving dock	Excavation ... c. ft.	70,000	62,313	Nil	62,313	89	89	11
	Masonry ... s. ft.	2,140	1,703	302	1,905	89	89	11
Government graving dock.	Excavation ... c. ft.	2,011,600	1,087,252	175,781	1,263,033	63	63	37
	Masonry ... s. ft.	23,801,832	12,132,013	869,802	12,999,815	55	55	45
Dock No. 1	Excavation ... c. ft.	5,830,720	5,468,102	64,000	5,532,102	95	95	5
	Masonry ... s. ft.	1,328,160	1,091,608	83,000	1,174,608	89	89	11
Boat canal	Excavation ... c. ft.	60,000	60,716	Nil	60,716	101	101	0
	Masonry ... s. ft.	2,404,500	1,885,282	341,940	2,227,222	93	93	7
Subsidiary Works	Excavation ... c. ft.	631,922	270,000	214,000	484,000	77	77	23
	Masonry ... s. ft.	36,000	17,842	13,238	31,080	86	86	14
Total	Excavation ... c. ft.	6,432	6,419	163	6,434	100	100	0
	Masonry ... s. ft.	5,820,110	5,638,355	293,040	5,931,395	102	102	0

J. H. ARJOHN,
Engineer, Port Trust.

The 11th July 1890.

Health Return compiled from the Monthly Report of the Medical Officer for the months of April, May, and June 1890.

Month, 1890.	Daily average number of work- men.	DAILY AVERAGE NUMBER OF CASES UNDER MEDI- CAL TREATMENT.			DEATHS.						Mortality per 1,000 of popu- lation per annum.		
					IN HOSPITAL.			OUT OF HOSPITAL AND TOLLBOURNE.				Total deaths.	
		Cholera.	Other diseases.	Total.	Cholera.	Other diseases.	Total.	Cholera.	Other diseases.	Total.			
April	7,308	3	613	616	1	2	3	16	3	19	21	33.27	
May	8,063	375	495	870	2	7	9	19	19	38	28	41.94	
June	8,900	46	395	441	0	2	2	1	5	6	5	14.00	
Average total divided by three months		7,579	20	502	522	10	27	37	120	23	143	130	29.29

MOHENDRO NATH BISWAS,
Medical Officer.

E. F. GREENHILL,
Surgeon.

J. H. APJOHN,
Engineer, Port Trust.

Statement detailing the expenditure incurred on the Dock Works to the end of June 1890.

PARTICULARS.		Amount.	Total.	REMARKS.
Works	...	Rs. A. P.	Rs. A. P.	
Land	...	1,59,95,278 8 10		
	...	26,12,685 3 10		
Total	...		1,85,97,963 12 8	
			1,85,97,963 12 8	

The 11th July 1890.

J. H. APJOHN,
Engineer, Port Trust.

Any further communication should be addressed to

THE SECRETARY TO THE GOVT. OF BENGAL,
PUBLIC WORKS (MARINE) DEPT.,
CALCUTTA.

And the following number should be quoted:—

2049 MARINE.

GOVERNMENT OF BENGAL,

(MARINE DEPARTMENT).

CALCUTTA.

Calcutta, the 6th August 1890.
Imd on 16th

To

The Secretary to the Govt. of Madras
Public Works Department.

Sir,

I am directed by the Lieutenant Governor to forward for the information of the Government of Madras the accompanying copy of the report (with plan and statement) of the 13th quarterly inspection of the Dock Works at Kidder pore which are being carried out by the Commissioners of the Port of Calcutta.

I have the honor to be,

Sir,

Your most obedient servant

W. D. Dutt

Under Secretary.

Receipts }
Copy of report }

W.D.

No. 2326 W. 27 Aug 1890

P.W. Calc 7902

Copy forwarded
to the Chairman
M. H. J. Board
for information
in continuation
of S.O. No 1438 W
of S.O. No. 1438 W
of 22nd May 1890
of 22nd May 1890

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22.8.90 L 250

80	1000	1438W	22.5.90
...	594W	25.2.90	
...	3596W	18.12.89	
...	2484W	6.9.89	
...	1282W	14.8.89	
...	405W	13.2.89	
...	30W	9.1.89	
...	2607W	23.1.88	
...	1665W	7.6.88	
...	502W	11.2.88	

No. 2326 W. 27 Aug 1890

85/9. 8100
5/9/90
29/8/90
The Chairman
M. H. J. Board
with 1 set of Encl.
Chelmsford
26.11.90