

Kidderpore Dock Works.
Progress Report for the quarter ending
March 31st 1888.

During the quarter under review the 55 feet deep timbered trench (excavated for the purpose of getting in the partition of the 60 feet lock nearest to the river) was excavated to its full depth at its east end and brick-laying commenced in it. This outer partition will soon now be built up to coping level and when this has been accomplished no further difficulties are likely to be experienced in the completion of the lock. The Southern end of the lock where it meets the Tidal Basin walls was also successfully founded, also good progress was made in the middle portion which had been commenced the previous quarter. Laying of granite stone work in the inner bay was begun.

The Tidal Basin walls were successfully founded at the South-East and South-West Corners.

In Dock No. 1 foundations for the quay walls were got in for a length of 1096 feet & good progress was made in the superstructure of the walls already founded.

The walls on either side of the docks are now well on the road to completion, only the ends where the dock narrows to meet the double entrance from Tidal Basin and the passage to dock No. 2 remaining to be done.

Good progress was made in the excavation of the Boat Canal 45.8 per cent of the total being now done. The laying of the tramway line along the banks of the Boat Canal was pushed on & before long there will be through communication between Sealghah via Ballygeunge, the docks & Arkia brickfield.

The tabular statement & index map attached show in detail the progress that has been made.

The 12th April 1888

Sgd: J. H. Appolon,
Superintending Engineer,
Dock Works.

Health Return compiled from the Monthly reports of the Medical Officer for the months of January February and March 1888.

Month 1888	Number of Workmen	Daily average number of cases under medical treatment			Deaths.						Mortality per 1000 of population per annum.	
		Cholera	Other diseases	Total	In Hospital			Out of Hospital				Total Deaths
					Cholera	Other diseases	Total	Cholera	Other diseases	Total		
January	10,621	'38	54'00	54'38	3	7	10	2	1	3	13	14'6
February	10,952	'38	42'50	42'88	4	3	7	5	4	9	16	17'5
March	11,462	3'80	47'20	51'00	2	6	8	10	2	12	20	20'9
Average total divided by 3 months	11,012	1'52	48'56	50'88	3	5	8	6	2	8	16	17'6

Lt. Col. M. S. Prasad,
Medical Officer.

Lt. Col. R. S. Prasad, M.D.,
Surgeon-Major.

Lt. Col. J. H. Appiah,
Superintending Engineer.

Statement detailing the Expenditure on the Dock Works to the end of March 1888.

Particulars	Amount		Total		Remarks.
	Rs.	As. p.	Rs.	As. p.	
Works	62,60,584	5 6			
Land	22,08,657	2 5			
			84,69,241	7 11	
Total Expenses			84,69,241	7 11	

The 12 April 1888.

Lt. Col. J. H. Appiah,
Superintending Engineer,
Dock Works.

Works ending 31st March 1888

Executed to end of previous year	Executed during the quarter.	Total executed up to end of quarter	Percentage of whole estimated quarter		
			Done during the quarter	Done up to end of quarter	Remaining to be done
33,42,825	5,52,994	38,95,819	7.6	53.3	46.7
1,06,200	2,70,043	3,76,243	12.1	16.8	83.2
6354	11,870	18,224	16.2	24.9	75.1
Nil	Nil	Nil	"	"	"
610	295	905	13.4	42.3	57.7
558,000	154,560	712,560	7.6	35.4	64.6
63,02,770	20,57,610	83,60,380	8.7	35.4	64.6
Nil	Nil	Nil	"	"	"
2954	1096	4050	17.0	62.9	37.1
18,87,035	10,15,508	29,02,543	17.4	49.8	50.2
2,33,72,000	11,15,000	2,44,87,000	1.5	34.0	66.0
11,30,000	79,22,000	1,92,22,000	18.8	45.8	54.2
Nil	Nil	Nil	"	"	"
150,000	Nil	1,50,000	2.6	2.6	97.4
Nil	Nil	Nil	"	"	"

Lt. Col. J. H. Appiah,
Superintending Engineer,
Dock Works.

Kidderpore Lock
Progress Report for the year

Estimate	Subhead	Estimated quantity
Sixty feet Lock	Excavation cft	73,060.77
	Masonry "	22,29,490
	Square feet of foundation ft	73,000
Eighty feet Entrance	Excavation cft	26,97,160
	Masonry "	7,11,071
	Square feet of foundation ft	27,000
Tidal Basin	Quay Wall foundation ft	2140
	" " Masonry cft	20,11,600
	Excavation including that for quay wall foundation	2,36,01,352
Double Entrance to Lock No. 1	Excavation cft	4,10,175
	Masonry "	11,61,334
	Square feet of foundation ft	70,000
Lock No. 1	Quay Wall foundation ft	6435
	" " Masonry cft	58,20,110
	Excavation including that for quay wall foundation	7,20,00,150
Boat Canal	Excavation cft	4,19,77,980
	Masonry "	10,68,048
Graving Dock	Excavation cft	58,30,720
	Masonry "	12,28,160

The 4th April 1880 }

NO. 578/116-5-1888

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

FOURTH REPORT.

Dated Calcutta, the 7th May 1888.

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

We have the honour to report that, in accordance with the orders of the Government of Bengal, No. 415 Mne. of the 21st ultimo, we made the fourth quarterly inspection of the Kidderpore Docks on the 2nd instant.

2. The usual tabular statement and index plan showing the work done during the quarter, and the total amount executed from the commencement of the work, which have been prepared by the Superintending Engineer in charge of the Docks, are already with Government.

3. The state of the works on the 31st of March last was as follows:—

TEMPORARY WORKS AND PLANT.

The tramway along the bank of the Boat Canal, for connecting the Eastern Bengal Railway near Ballygunge with the docks and Akra brick-fields (which was referred to in our last report), was pushed on, but was not completed during the quarter under report.

PERMANENT WORKS.

Sixty feet lock.—The portion of the lock nearest the river was excavated to its full depth, and the masonry foundation was in hand; considerable progress was made with the middle portion which was commenced in the previous quarter; and the end nearest the tidal basin was also founded. During the quarter, 553,000 cubic feet of earth were removed, and 270,000 cubic feet of masonry built. Altogether more than half the earthwork and one-sixth of the masonry have been executed.

Tidal basin.—The foundations of the south-east and south-west corner of the tidal basin were successfully laid. Up to date 42 per cent. of the quay walls have been founded; and more than one-third of the whole of the masonry and earthwork completed.

Dock No. 1.—About 1,096 running feet of quay wall were founded, and the masonry of the portions previously commenced were proceeded with; 1,015,000 cubic feet of masonry were built, and 1,115,000 cubic feet of earth moved; in all nearly two-thirds of the entire length of quay wall have been founded, and about half the masonry and one-third of the total amount of earthwork executed.

Boat canal.—The excavation for this work was proceeded with, and 7,922,000 cubic feet of earthwork executed during the quarter, making in all about 46 per cent. of the total amount.

Expenditure.—The total expenditure up to the end of the quarter was Rs. 84,69,241, of which Rs. 62,60,584 were for works and Rs. 22,08,657 for land.

SANITARY.

The health of the work-people continued satisfactory. The average number employed was 11,012, amongst whom 49 deaths, are reported to have occurred, being equivalent to a death, rate of 17.8 per thousand per annum.

GENERAL REMARKS.

We consider that the progress on the works which have been taken in hand has been extremely satisfactory; and that, so far as we could judge from a quarterly inspection, the arrangements were good and the quality of the work all that could be desired.

No. 578 *Mun.*

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

Marine

To

THE

*Secretary to the Govt of Madras,
Public Works Dep^t.*

P. W. DEPT.

Dated Calcutta, 16th May 1888.
Forwarded 26th

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 Fourth 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 honor to be,
Sir,
Your most Obedt. Servant,

W. M. Butler

Under Secretary.

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No 1668 Wd/7 June 1888

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Copy forwarded
to the Chairman with
the Chairman
Trust Board for
information

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No 1668 Wd/7 June

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Chairman M.H.S.P. with
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QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

FIFTH REPORT.

Dated Calcutta, the 25th July 1888.

From—H. CLÖETE, Esq., and W. CONNAN, Esq.,
To—The Secretary to the Government of Bengal, Public Works Department.

In accordance with the orders contained in Government of Bengal's letter No. 889 Marine, dated 17th July 1888, we have the honour to report that we made the fifth quarterly inspection of the Kidderpore Docks on the 23rd instant.

2. The index plan with tabular statement showing work done during the quarter under report and the total quantity of work from the starting of the Docks, which have been prepared by the Superintending Engineer in charge of the works, are with Government.

3. The state of the works on the 30th June last may be described as follows:—

Temporary Works and Plant.—The linking in of the rails of the tramway along the bank of boat canal was expected to be finished early in July. Some temporary lines of rail were laid into the middle of the dock from its east end, and are now in use for the conveyance of spoil.

Permanent Works.—Sixty feet lock.—During the quarter 4,68,200 cubic feet of excavation and 3,34,800 cubic feet of masonry were done. The portion of the lock nearest the river has been built up to a height of 40 feet from foundation level; the floor of the middle section has been completed, and the walls built to datum level. A length of 150 feet of the flooring of the section near the tidal basin was almost completed, and the back portion of the walls built up to datum level. Altogether about 60 per cent. of the excavation and about 32 per cent. of the masonry have been done up to the 30th June.

Tidal Basin.—Nearly three-fourths of the entire length of the quay walls have been founded, 41 per cent. of the total excavation, and nearly two-thirds of the total masonry done.

During the quarter 5½ lakhs of cubic feet of masonry were executed and 13½ lakhs of cubic feet of earth removed. Excavation for the double entrance to Dock No. 1 was being started.

Dock No. 1.—About three-fourths of the total length of quay walls have been founded. Two-thirds of the total masonry and 41 per cent. of the excavation done.

During the quarter over 8 lakhs of cubic feet of masonry were executed and 52½ lakhs of cubic feet of earthwork removed.

Boat Canal.—During the quarter over 31 lakhs of cubic feet of earth were excavated, and to end of the quarter more than 50 per cent. of the total quantity of earthwork had been done.

Expenditure.—The total expenditure to end of June amounted to Rs. 97,19,127, of which Rs. 73,57,199 were for works and Rs. 23,61,928 for land.

Sanitary.—The average number of work-people employed during the quarter was 9,400; this is about 1,600 less than the average number engaged during the previous quarter. Among the people employed, there were 53 deaths reported; this is equivalent to a death-rate of 21.08 per thousand per annum.

GENERAL REMARKS.

We consider that the satisfactory progress hitherto shown on the works has been maintained, and that, so far as we can judge from a quarterly inspection, the arrangements and quality of the work done appear to be good.

KIDDERPORE DOCK WORKS.

Progress Report for the quarter ending 30th June 1888.

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.	7,306,077	3,895,819	468,227	4,364,046	6.4	59.7	40.3
	Masonry ... "	2,229,490	376,243	334,866	711,109	15.1	31.9	68.1
	Square feet of foundation ... S. ft.	73,000	18,224	19,736	37,960	27.1	52.0	48.0
Eighty feet entrance ...	Excavation ... C. ft.	2,697,168	Nil	Nil	Nil	.....	.....	.....
	Masonry ... "	711,071						
	Square feet of foundation ... S. ft.	27,000						
Tidal basin...	Quay wall foundation ... R. ft.	2,140	905	630	1,535	29.4	71.7	28.3
	Quay wall masonry C. ft.	2,011,600	712,560	575,299	1,287,859	28.6	64.0	36.0
	Excavation, including that for quay wall foundation... "	23,601,352	8,360,380	1,353,311	9,713,691	5.7	41.1	58.9
Double entrance to dock No. 1	Excavation ... C. ft.	4,101,750	Nil	117,600	117,600	2.8	2.8	97.2
	Masonry ... "	1,161,334	Nil	Nil	Nil	.....	.....	.....
	Square feet of foundation ... S. ft.	70,000	Nil	Nil	Nil	.....	.....	.....
Dock No. 1...	Quay wall foundation ... R. ft.	6,435	4,050	604	4,654	9.4	72.3	27.7
	Quay wall masonry C. ft.	5,820,110	2,902,543	818,352	3,720,895	14.1	63.9	36.1
	Excavation, including that for quay wall foundation... "	72,000,150	24,487,000	5,245,753	29,732,753	7.3	41.3	58.7
Boat Canal...	Excavation ... C. ft.	41,977,980	19,222,000	3,114,000	22,336,000	.....	Nil	.....
	Masonry ... "	1,068,048	Nil	Nil	Nil	.....	.....	.....
Graving Dock	Excavation ... C. ft.	5,830,720	150,000	Nil	150,000	Nil	2.6	97.4
	Masonry ... "	1,228,160	Nil	Nil	Nil	.....	.....	.....

P. SOUTTER,

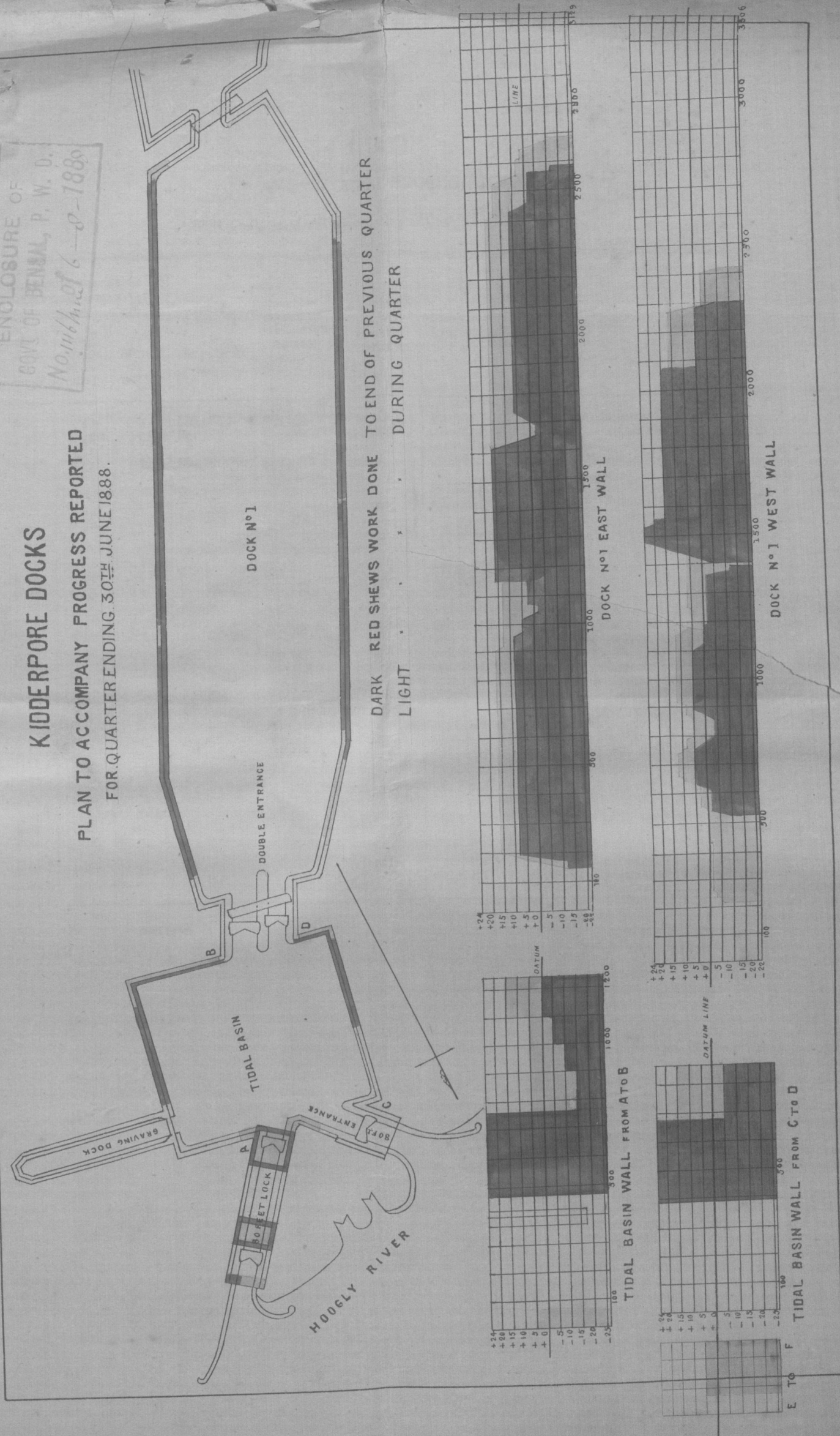
Offg. Superintending Engineer, Dock Works.

The 9th July 1888.

W. F. A.—Reg. No. 6373C—106—1-8-88.

ENCLOSURE OF
GOVT OF BENGAL, P. W. D.
No. 116 of 6-8-1888

KIDDERPORE DOCKS
PLAN TO ACCOMPANY PROGRESS REPORTED
FOR QUARTER ENDING 30TH JUNE 1888.



No. 1116 Marine

Government of Bengal.

PUBLIC WORKS DEPARTMENT.

All communications should be addressed
to the Secy.

To

P. W. DEPT.

THE Secretary to the Govt of Madras
P & W Department
Dated Calcutta, 6th August 1888.
Issued on 11th

Dated Calcutta, 6th August 1888.

Sir

W. W. Burton

H. L. G.—Reg. No. 1346F—4,000—28-4-88
Beng. P. W. D.—Letter Form No. 29.

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B. No 1668 W. 7. 6. 88
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P.W.C. No 13

No 2607 W. d/ 23 Dec August 1888

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Copy forwarded
to the chairman of the
Harbour Trust Board
for information in
continuation of No.
1668 W. d/ 7th Jan 1888

R/ 16-8-88

W.M.
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J.H.
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Enclos. 2* (1 plan)
1 s.c. of enclos.

No 2607 W. d/ 23 Dec August 1888

Chairman M. H. J. Esq
with one set of
Enclosures

24/8

with order

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