

Marine (1898) Department.

G.O., No. 759 Marine

DATED 7 Sept 1898.

N-7
779 mar 1898

[Despatch Abstract.]
Light houses Light Vessels in the Bengal Dist-
Ordering the Distribution of the Copies of the
Report on the —, for 1897-98, received from the
Govt of Bengal.

12/9/98

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	4262 5792	Marine "	27. viii. 96 15. ix. 97				

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	779	Marine	17. viii. 99				

~~Marine~~ (1898) Department.

CURRENT No. 1106

From

The Govt of Bengal
Marine Department

Order 759 Marine of 7th September 1898.

The copies will
be distributed as follows
The P.P.O.

No. 1686 Marine

Sup^y of Lt. Col. Lt. Col.

Library

of Lt. Col.

Dated 20. 8. 98

Received

Registered

Enclosures one

Spare copies 132 e.

SUBJECT.

Lighthouses & Lightvessels

in the Bengal Presidency

Forwarding 14 copies of the
report on the ——— for the
year 1897-98 for distribu-
tion to the officers in charge
of the lighthouses in the
Madras Presidency

PURI LIGHTHOUSE

2. The masonry turret supporting the lantern and the khalasis' shelter-box are stated to be in good condition.

3. There was no change either in the exhibition of the light or in the position of the lantern.

4. The oil used in lighting was kerosine, and the quantity consumed was a little more than that expended in the preceding year. The increase is attributed to frequent occurrence of storms and strong gales of wind acting on the light and raising its burning power.

5. All the light-keepers are reported to have worked well during the year.

DHAMRAH.

SHORTT'S ISLAND LIGHTHOUSE

6. Was inspected by Captain Creagh on the 9th February 1898. The lights have been burning well throughout the year, and no complaints made with regard to them.

7. Mr. W. Tasker, Light house Keeper, returned from sick leave, and took over charge of his duties on the 20th April 1897, relieving Mr. Wight. Mr. Smart, Assistant Light-house Keeper, met with an accident, and was absent on sick leave from 6th September 1897 to 30th March 1898.

8. No damage was done to any of the buildings by the earthquake of 12th June 1897.

9. The Port Officer of Chandbally paid frequent visits to the island and inspected the lights, and found them in good order.

10. These lights burn heavy mineral oil obtained from England.

11. The row-boat at Chandbally visits the island monthly, taking stores, &c. A life-boat has recently been supplied to the lighthouse under the orders of the Government of Bengal, on the understanding that the men of the lighthouse are to man the boat when required, and that no extra crew would be given.

12. It is reported that Shortt's Island is still cutting away; the erosion of the north-east side of the island from 26th June 1897 to 31st March 1898 is stated as being 52 feet.

BALASORE LIGHT.

13. The Chandipur flagstaff was inspected by the late Port Officer on the 8th February 1898. The light and flagstaff are reported to be in good order. Heavy mineral oil was used.

CHITTAGONG COAST.

NORMAN'S POINT.

14. The Lighthouse tower is reported to be in good order. Only slight damage was done to one of the venetian shutters by the cyclone of 24th October 1897.

15. The Head Light-keeper's dwelling house was unroofed by the cyclone and the cook-house completely wrecked.

16. The light burnt well during the year, and no complaint was made by any vessel regarding it.

KUTUBDIA LIGHTHOUSE.

17. The old light was destroyed by the cyclone of 24th October 1897, and with commendable promptitude the local Port authorities, assisted by the

Public Works Department, arranged for the immediate exhibition of a temporary light (a large dioptric anchor light) from the tower. A flare-up was also burnt every 15 minutes from the top of the tower. Subsequently the lantern-room was made serviceable and a stand erected, on which one of the pressure six-wick lamps is being exhibited with the old Norman's Point reflectors since the 4th December 1897. This temporary light is visible 17 miles. Blue light burnt every half hour. The Bengal Government have ordered a third order dioptric flashing light from Messrs. Chance Brothers and Company to replace the one destroyed.

18. A detailed report on Kutubdia light was made to Government by Captain Creagh in November 1897, after he had inspected it.

19. The following statement shows the total cost of the up-keep of each lighthouse during 1897-98:—

LIGHTHOUSES.	Salaries.	Repairs.	Stores.	Provisions.	Contingencies.	Cyclone grant.	Total.
1	2	3	4	5	6	7	8
Puri	Rs. A. P. 416 14 9*	Rs. A. P. 3 15 11	Rs. A. P. 106 10 4	Rs. A. P. NIL	Rs. A. P. 7 1 0	Rs. A. P. NIL	Rs. A. P. 534 10 0
Shortt's Island	3,561 8 7	...	1,295 12 5	...	...	...	4,857 5 0
Chandipur (Balasore)	264 0 0	34 0 0	104 7 8	...	...	...	368 7 8
Norman's Point	848 12 6	...	4,905 7 0	...	...	...	902 6 3
Kutubdia	2,169 14 6	2,270 4 9	...	...	114 11 6	...	9,469 5 9

*Includes grain compensation Rs. 95-14-0 paid to the Lighthouse establishment.

20. The hours during which the lights of the several lighthouses were exhibited, and the oil and wicks expended, are shown in the following statement.

STATION.	Hours of exhibition of lights.		Gallons of mineral oil.		Gallons of coconut oil.		Chimneys broken.		Oil used for riding and other lights.		Wicks.	
	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.
1	2	3	4	5	6	7	8	9	10	11	12	13
Puri	Hrs. M. 4,339 19	Hrs. M. 4,339 19	GALS. 100½	GALS. 100	GALS. ...	GALS. ...	No. 29	No. 29	GALS. 9	GALS. 64	INCHES. 255	INCHES. 254½
Shortt's Island	4,427½	4,442	Leakage 100 991½	986½	NIL	44	80	77	48	64	Yds ft. in. 62½	49 1 7
Chandipur (Balasore)	4,303½	4,289½	Gals. qt. 91 1	Gals. qt. 91 1	NIL	1	3	3	NIL	NIL	5½	7 3 1
Norman's Point	4,340	4,338	69	70 1	...	...	...	...	...	...	15 2½	15 4
Kutubdia	4,333	4,229	1,479	1,294 1	...	...	...	...	...	...	15 2½	13 6

The 26th May 1898.

P. J. FALLE, Comdr., R. I. M.,
Port Officer of Calcutta.

Report on Lighthouses and Light-vessels in the Approaches to the Port of Calcutta for 1896-98

LIGHTHOUSES.

False Point.—The light burnt well throughout the year. The health of the station was fair and the lighthouse is in good order.

Saugor.—Was visited by the Assistant Superintendent of Machinery in March 1898, and the clock-work machinery was entirely changed, converting the light from an oscillating flashing to a revolving flashing light. This has improved the working of the lamps immensely.

The lighthouse was inspected by the Deputy Conservator; the health of crew has been fair.

The lighthouse was painted and a few slight repairs executed. The health of burnt well throughout the year.

Kaukhali.—The lamp has burnt well throughout the year, and the health of the crew has been fair. The keeper was transferred to Saugor Lighthouse

in July 1897, and the head native watchman put in charge of the light. The lighthouse was inspected by the Deputy Conservator.

Anchoring Lights.—Arrangements to show anchoring lights at Fisher-man's Point, Diamond Harbour (2 lights), Kantabaria and Jiggerkolly were completed, keepers appointed, and all necessary gear supplied to be in readiness to show the lights from the 1st April 1898.

LIGHT-SHIPS.

"Torch"—Was at the Matla Station throughout the year except from 1st December 1897 to 28th February 1898, when she was undergoing refit and overhaul in Calcutta.

"Luna"—Was at the Eastern Channel Station the whole year.

"Hesperus"—Was at the Ridge Station from 1st April 1897 to 31st October 1897, when she was towed to Calcutta for general overhaul and was remetalled, the main and mizzen masts being removed. From the 1st of February was at the Intermediate Station.

"Meteor"—Was at the Intermediate Station from 1st April 1897 to 30th November 1897, from 1st December 1897 to 17th January 1898 at the Matla Station; on the latter date, was towed to Calcutta for refit and was remetalled.

"Canopus"—Was at the Lower Gasper Station from the 1st April 1897 From the 15th March 1898 at the Ridge Station.

"Comet"—Was at the Matla Station from that date until the 16th January 1898, and at the Upper Gasper Station, where she remained.

"Star"—Was undergoing extensive overhaul from the 1st April 1897 to the 31st October 1897, when she was towed to the Long Sand Station, where she lay till the 16th January 1898, when she took up the duties of the Lower Gasper Station, where she remained.

"Comet"—Was at the Long Sand Station from 1st April 1897 till 31st October 1897, when she was towed to Calcutta for refit. The vessel was undergoing overhaul till the 16th January, when she again took up duty at the Long Sand Station.

"Planet"—The *Planet* was at the Upper Gasper Station from the 1st April 1897 until the 28th February 1898, when she was towed to Calcutta for general overhaul, and is being remetalled. This vessel was in dry dock at the end of the official year.

The lights at the various stations have been exhibited and have burnt well and brightly throughout the year.

All the lamps of the lighthouses and light-vessels have been converted to burn mineral oil, excepting one light-vessel, and that is practically ready now.

The health of the light-ship crews has been good, and the officers have been relieved in the usual routine.

The *Canopus* at the Lower Gasper Station parted her new studless chain in April 1897 and drifted half-a-mile out of position before bringing up; this was the only light-ship out of position during the year.

Annexed is a statement of oil consumed and the hours the various lamps were burnt in the year:—

Comparative Statement of oil burnt: and the hours the Lights were exhibited in 1896-97, 1897-98.

STATIONS.	Hours of exhibition of the light.		Gallons of coconut oil consumed.		Gallons of mineral oil consumed.		Chimneys broken.		Oil used for riding and other lights.	
	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.	1896-97.	1897-98.
1	2	3	4	5	6	7	8	9	10	11
Outer light-vessels	Hrs. 11,516	Hrs. 11,378	GALS. NIL	GALS. NIL	GALS. 2,331	GALS. 2,472	No. 156	No. 12	GALS. 166	GALS. 70 min.
Inner ditto	16,720	16,733	1,519	658	139	1,999	234	201	228	167 coco. 11 min.
Lighthouses	*12,960	13,123	559	NIL	1,742	12,308	104	108	58	251 coco.

* 7284 hours have been deducted during which mineral oil was burnt at Saugor.
† Increase due to conversion of lamps to burn mineral oil.

Marine Department.

No. 1686 Marine.

The column that has hitherto been shown giving the wicks consumed has been omitted, as, from the variety of wicks used, in some cases expressed in yards and in others numbers, it is impossible, within reasonable limits, to clearly compare the expenditure, and the total cost of wicks is trifling.

Detailed Statement of oil expended in the exhibition of the Light; the number of hours the light has been exhibited, &c., at the Light Vessels and Houses under the direction of the Port Commissioners during 1897-98.

LIGHT-VESSELS AND LIGHTHOUSES.	INNER STATIONS.			OUTER STATIONS.			TOTAL.		Oil burnt in house, &c.	Chimneys broken.	REMARKS.
	Hours.	Oil.	Lamps.	Hours.	Oil.	Lamps.	Hours.	Oil.			
1	2	3	4	5	6	7	8	9	10	11	12
"Torch" ...	...	...	...	3,245	712	8 "A." lamps for 9 months.	3,245	712	35 Mineral.	67	Undergoing refit from 1st December to 25th February 1898.
"Luna" ...	...	...	...	4,347	1,069	9 "A." lamps for 12 months.	4,347	1,069	60 Coconut.	23	At the Sandheads throughout the year.
"Hesperus" ...	729	644	9 "B." lamps for 2 months.	2,429	439	6 "A." lamps for 7 months.	3,158	603	38 Coconut.	19	Undergoing refit from 1st November to 21st January 1898.
"Meteor" ...	2,893	312	8 "C." lamps for 8 months.	634	123	8 "A." lamps for 14 months.	3,734	151	46 Mineral.	64	Undergoing refit from 17th January to 15th March 1898.
"Canopus" ...	3,824	300	9 "B." lamps for 10 months.	203	39	6 "A." lamps for 1 month.	4,350	461	60 Coconut.	47	At the Sandheads throughout the year.
"Star" ...	1,927	174	8 "B." lamps for 5 months.	635	100	8 "A." lamps for 14 months.	1,927	174	25 Coconut.	14	Undergoing extensive overhaul from April to October 1897.
"Comet" ...	3,300	346	8 "C." lamps for 9 months.	...	...	...	3,300	346	60 Coconut.	64	Undergoing refit from 1st November to 16th January 1898.
"Planet" ...	4,000	400	8 "B." lamps for 11 months.	...	...	...	4,373	1,330	127 Kerosine.	22	Undergoing refit from 1st March 1898 to end of year.
False Point ...	...	...	A single six-wick lamp.	...	...	...	4,435	637	41 Mineral.	83	
Saugor ...	...	...	14 "B." lamps 12 months.	...	...	...	4,315	315	Mineral.	3	
Kaukhali ...	...	...	A single 4" diameter wick lamp.	...	...	...	...	...	...	...	

NOTE.—"A" lamps are the lamps used on outer stations.
 "B." lamps are smaller lamps which used to burn coconut oil but have been converted to burn mineral oil.
 "C." lamps are Coconut oil lamps.

The following statement shows the total cost of the up-keep of each of the Light-Ships and Lighthouses during 1897-98:—

LIGHT-SHIPS.	Salaries.	Exchange compensation allowance.	Scarcity allowance.	Repairs.	Stores.	Provision.	Contingencies.	Total.	Totals of 1896-97.
1	2	3	4	5	6	7	8	9	10
"Hesperus" ...	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
"Luna" ...	12,155 5 5	331 11 0	...	15,379 15 9	5,950 14 6	2,005 7 9	21 1 11	21,995 15 6	21,995 15 6
"Torch" ...	13,538 15 2	331 11 0	...	916 11 4	3,302 1 7	2,754 15 8	16 9 11	20,861 0 8	20,861 0 8
"Meteor" ...	13,266 9 2	331 11 0	...	3,932 2 3	2,356 1 0	2,005 2 11	7 1 11	21,341 6 7	21,341 6 7
"Canopus" ...	13,972 6 8	331 11 0	...	6,339 8 5	3,880 0 7	1,418 12 5	7 2 1	26,585 15 8	26,585 15 8
"Star" ...	13,117 6 8	331 11 0	...	2,357 9 3	6,759 2 6	2,005 2 11	7 1 11	24,629 2 10	24,629 2 10
"Comet" ...	13,582 0 5	331 11 0	...	1,028 4 4	4,032 3 7	2,005 2 11	7 2 1	21,832 7 0	21,832 7 0
"Planet" ...	8,703 2 6	331 11 0	...	6,732 13 0	3,008 8 0	1,951 1 7	7 2 1	19,845 13 9	19,845 13 9
"Star" ...	1,596 0 0	...	...	20,385 0 0	4,731 5 1	1,394 3 2	7 2 1	26,510 3 3	26,510 3 3
Total	89,931 14 0	1,990 2 0	24 0 0	67,073 0 4	34,920 5 8	16,192 9 3	80 8 0	1,90,212 7 3	1,90,212 7 3
LIGHTHOUSES.									
False Point ...	7,232 12 0	...	...	629 13 0	2,872 15 8	...	...	10,976 3 6	10,976 3 6
Kaukhali ...	1,225 1 10	...	...	250 4 9	405 12 10	...	...	1,938 3 0	1,938 3 0
Saugor ...	3,502 11 4	...	...	745 12 4	1,500 1 5	...	...	6,508 14 0	6,508 14 0
Total	11,960 9 2	...	...	1,624 14 1	4,778 13 11	...	...	19,253 4 5	19,253 4 5

E. W. PETLEY,

Deputy Conservator.

Dated 16th July 1898.

C. A. P.—Reg. No. 2235J—206—16-8-98.

J. H. APJOHN,

Vice-Chairman.

From

P. A. Clowes, Esq.,

Under Secretary to the Govt. of Bengal,

To

The Secretary to the Government of Madras,
Public Works Department.

Dated Calcutta, the 20th August/98.

Sir,

I am directed to forward to you the enclosed 14 copies of the report on the light houses and lightvessels in the Bengal Presidency for the year 1897-98 for distribution to the officers in charge of light houses in the Madras Presidency.

I have the honor to be,

Sir,

Your most obedient servant,

P. A. Clowes.

Under Secretary.

Accompt.

14 Copies of the report.

H. S.