

marine
marine
~~Public Works~~ (1899) Department.

G.O., No. 779 *marine*

DATED 17th Aug 1899.

N. 8 639. 100
21-8-00

[Despatch Abstract.]

Report on the Light houses & Light vessels
in the Bengal Presidency -

Ordered that 14 copies of the —
for the year 1898-99 be distributed
to the officers concerned.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	759	7.9.96					

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	639	Marine	21.VIII.00				

Marine Public Works (1899) Department.

CURRENT No. ¹¹¹²~~6453~~

From Helgoot of Bengal

Order Indt. 2^o 889 D of 15-8-99

Transferred to
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No. 1402 Marine

Dated 2-8-99

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SUBJECT.

Forwarding the 14 copies
of the Report on the Light Houses
and light vessels in the
Bengal Presidency for the
year 1898-99.

BACK PAPERS.

FURTHER PAPERS.

No.	Date.
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No.	Date.

ANNUAL REPORT ON THE LIGHTHOUSES IN THE BENGAL PRESIDENCY FOR THE YEAR 1898-99.

PURI LIGHTHOUSE.

Was last inspected by me on the 13th February 1899, and a detailed report on it submitted to Government on the 24th idem.

2. The light burnt well during the year, and no complaints against it were made by any vessel. Both the burners of the light were, however, found in a bad condition, one of which has since been repaired and replaced, and the other repaired and is being returned to Puri.

3. The lantern apparatus, lightning-conductor, and the masonry pillar supporting the lantern are all in good order.

4. There has been no change in the exhibition of the light, the position of the lantern, and the establishment of the lighthouse during the year under review.

5. The oil used in lighting was kerosine, and there was a very slight increase in its consumption as compared with that of the preceding year. This might be attributed to the leaky condition of the oil-tanks. Indents have, however, been made on the Government Dockyard for new oil-tanks to replace the old ones.

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

DHAMRAH.

SHORTT'S ISLAND LIGHTHOUSE.

7. Was last inspected by me on the 7th February 1899, and an elaborate report on the condition and working of the light submitted to Government.

8. The lights have been burning well throughout the year, and no complaints made with regard to them.

9. With the exception of the slight defects noticed in my last inspection report, the lighthouse apparatus and the buildings are in good order.

10. The Port Officer of Chandballi visited the island several times during the year. A Public Works Department officer is said to have landed on the island on the 14th May 1898 and inspected the lightning-conductor, also taking measurements for the extension of the mound. The Superintending Engineer and the Executive Engineer of the division are said to have also inspected the lighthouse in November 1898. His Honour the Lieutenant-Governor and party visited the island in December 1898.

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

12. Shortt's Island is still cutting away, and the erosion of the island on the east side was considerable.

13. Mr. W. D'Crutz was appointed lighthouse-keeper, and relieved Mr. Tasker on the forenoon of the 2nd December 1898. Mr. D'Crutz is well spoken of by the Port Officer of Chandballi.

BALASORE LIGHT.

14. The Chandipur light was last inspected by me on the 8th February 1899.

15. The flagstaff is in good order, except that the top-mast has slightly gone at the heel with dry-rot. The lamp is of the 6th order, and is in good repair, and shows a clear uniform light. Heavy mineral oil was used throughout the year.

CHITTAGONG COAST.

NORMAN'S POINT.

16. The lighthouse was last inspected by me on the 7th March 1899, and a report submitted to Government on the 11th idem. The light house tower is in good order, and was painted by the Public Works Department during the year.

17. The light burnt well, and no complaints were received regarding it. The lantern-room is kept clean and tidy.

18. The dwelling-houses of the light-keeper and his subordinates were thoroughly repaired.

19. The lighthouse was inspected several times by the Port Officer of Chittagong.

KUTUBDEA LIGHTHOUSE.

20. This lighthouse was inspected by me on the 7th March last.

21. The tower is in good order. The temporary light was exhibited during the period of erection of the new light, which is a third order, dioptric group, flashing light obtained from Messrs. Chance Brothers and Company, of Birmingham, England. The new light was first exhibited on the 24th January 1899. It gives a clear and powerful flash, and is visible in clear weather 18 to 19 miles from the deck of a vessel.

22. Temporary houses are erected as dwellings for the light-keepers until permanent quarters are built.

23. The following statement shows the total cost of the upkeep of each lighthouse during 1898-99:—

LIGHTHOUSES.	Salaries.	Repairs.	Stores.	Provisions.	Contingen- cies.	Cyclone grant.	Total.
1	2	3	4	5	6	7	8
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Puri	384 0 0	.....	144 15 2	.....	.....	...	528 15 2
Shortt's Island ...	3,667 13 7	.....	242 13 0	...	.....	.....	3,910 10 7
Chandipur (Balasore) ...	270 11 10	28 0 0	.....	.....	7 14 10	.....	306 10 8
Norman's Point ...	667 0 0	24 0 0	242 6 0	.....	13 13 6	.....	947 3 6
Kutubdia	2,342 0 0	723 3 6	8,897 4 6	.....	366 0 6	.....	12,328 8 6

24. 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 cocoanut oil.		Chimneys broken.		Oil used for riding and other lights.		Wicks.	
	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.
1	2	3	4	5	6	7	8	9	10	11	12	13
	HRS. M.	HRS. M.	GALS.	GALS. PT.	GALS.	SEERS.	No.	No.	GALS.	GALS.	INCHES.	INCHES.
Puri	4,339 19	4,339 19	109	109 ½	...	...	29	33	6½	5	254½	254½
Shortt's Island ...	4,442	4,440 36	980½	981	4½	...	77	54	48	48	Yds. ft. in. 49 1 7	45 1 10
Chandipur (Balasore) ...	4,289½	4,334 0	91 1	91 1	½	3	3	5	...	...	7 2 1	7 2 5
Norman's Point ...	4,338	4,339 20	70 1	69 3	...	...	7	6	31½	Gals. qt. 31 2	Ft. in. 15 4	Ft. in. 17 1
Kutubdia	4,229	4,337 39	1,294 1	1,388 0	...	...	15	3	72	Kerosine oil. Gals. qt. 75 2	13 6	13 6½

CALCUTTA PORT OFFICE,
The 16th May 1899.

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 1898-99.

False Point.—The light burnt well throughout the year and with but one interruption, of ten minutes' duration, on the night of the 8th October 1898, caused by the spring of the occulter snapping and smashing the glass cylinder of the lamp. The health of the station was only moderate. The quadrennial

repairs were executed in November and December, and the lighthouse, out-houses, and grounds were put in thorough order. The Deputy Conservator inspected the lighthouse in December.

Saugor.—The light burnt well throughout the year.

The machinery for working the flash was an old-fashioned oscillating machine that continually gave trouble; it has been converted into revolving gear and has proved a success. The health of the station has been satisfactory; slight repairs were carried out, and the dwelling-houses whitewashed. The lighthouse was inspected by the Deputy Conservator and other officers.

Kaukhali.—The lamp burnt well throughout the year, and the health of the crew has been fair.

The lighthouse was inspected by the Deputy Conservator and other officers, and slight repairs were executed.

Anchoring Lights.—Were shown from stations at Fisherman's Point, Diamond Harbour, and Kulpee from the 1st of April 1898; they have proved of assistance to vessels when anchoring in their vicinity, or when moving at night.

LIGHT SHIPS

"Torch"—Was at the Mutlah station throughout the year.

"Luna"—Was at the Eastern Channel station from 1st April to 20th November 1898, when she was towed to Calcutta for general overhaul. On the 20th February she was towed to the Ridge station.

"Hesperus."—On the Intermediate station from 1st April to 30th November, and at the Eastern Channel station from 1st December to end of the official year.

"Meteor"—Kept the Ridge station till the 21st February 1899, when she was towed to Calcutta for slight repairs.

"Canopus"—Was at the Upper Gasper station till the 31st July, and in town as spare light-ship from 1st August to 31st October. On the 1st November she was towed to the Lower Gasper station, where she remained until the end of the official year.

"Star"—On the Lower Gasper station from 1st April to 31st October, when she was towed to town for general overhaul and refit. Placed on the Intermediate station from 1st February to end of official year.

"Comet"—Kept the Long Sand station throughout the year.

"Planet"—Under extensive overhaul up to end of July 1898, when she was towed to the Upper Gasper station, where she remained at end of official year.

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

All the lamps now in use in the lighthouses and light-ships burn heavy mineral oil. The use of vegetable oil in the lanterns has been discontinued.

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

The light-ship at the Ridge station used formerly to be removed from 15th November to 15th March. A light-vessel now keeps this station throughout the year.

The Lower Gasper station has been converted from a fixed to a flashing light station of the same power as the Ridge station.

Below, 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 1897-98 and 1898-99.

STATIONS.	Hours exhibited.		Gallons of mineral oil consumed.		Chimneys broken.		Oil used for riding and other lights.	
	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.	1897-98.	1898-99.
1	2	3	4	5	6	7	8	9
Outer light-vessels ...	11,378	13,303	2,472	*2,660	12	153	70 min. 167 coco.	61 min. 220 coco.
Inner ditto	16,133	18,035	999	+1,661	201	155½	11 min. 237 coco.	224 coco. 135 ker. 66 min. 8 coco.
Lighthouses	13,123	13,220	2,308	2,270	108	119	41	

* Increase due to the Ridge being kept on station throughout the year.
+ To all the vessels burning mineral oil.

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 light-houses under the direction of the Port Commissioners during 1898-99.

LIGHT-VESSELS AND LIGHT-HOUSES.	INNER STATIONS.			OUTER STATIONS.			TOTALS.		Oil burnt in house.	Chimneys broken.	REMARKS.
	Hours.	Oil.	Lamps.	Hours.	Oil.	Lamps.	Hours.	Oil.			
1	2	3	4	5	6	7	8	9	10	11	12
"Torch" ...	...	...	.....	4,454½	938½	8 "A" lamps for 12 months.	4,454	939	60 Coconut	40 D	At the Sandheads throughout the year.
"Luna" ...	...	...	.....	2,818½	635	9 "A" lamps for 8 months.	3,299	710	15 Mineral 75 Coconut	32 D	Undergoing overhaul from 1st December 1898 to 20th February 1899.
"Hesperus" ...	2,892½	306	8 "B" lamps for 8 months.	1,572	367	9 "A" lamps for 4 months.	4,404	673	46 Mineral 49 Coconut	14 C 44 D	At the Sandheads throughout the year.
"Meteor" ...	...	...	.....	3,977	585	6 "A" lamps for 10½ months.	3,977	585	55 Coconut	37 D	Undergoing overhaul from 21st February 1899 to end of official year.
"Canopus" ...	1,816½ 1,961	122 3-9	8 "B" lamps for 4 months. 6 "A" lamps for 5 months.	...	...	.....	3,277	451	45 Coconut	14 C 19 D	Spare L.-V. from 1st August to 31st October 1898 and being fitted for the revolving L. G. station.
"Star" ...	3,174	265½	8 "B" lamps for 9 months.	...	...	.....	3,174	265	60 Coconut	14 C	Spare L.-V. from 1st November 1898 to 31st January 1899 also undergoing refit.
"Comet" ...	3,708½	359	8 "B" lamps for 10 months. 8 "C" lamps for 2 months.	...	...	.....	3,708	359	60 Coconut	57 C	This vessel burnt coconut oil during the first two months of the year and mineral oil the remainder. The coconut oil expended has not been taken into comparison. At the Sandheads throughout the year.
"Planet" ...	3,043	270	8 "B" lamps for 8 months.	...	...	.....	3,043	270	40 Coconut	37 C	Undergoing extensive overhaul from 1st April to end of July.
False Point ...	4,375	1,319	A single six-wick lamp.	...	...	.....	...	...	135 Kerosine 3 Coconut	...	...
Saugor ...	4,415	645	14 "B" lamps for 12 months.	...	...	.....	...	...	55 Mineral 5 Coconut	104	...
Cowcolly ...	4,430	306	A 4 ins. dia. single-wick lamp for 12 months.	...	...	.....	...	...	11 Mineral	8	...

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.
Chimneys. "C." = converted "D." = Douglas.

The following statement shows the total cost of up-keep of each light-ship and light-house during 1898-99:—

Light ships.	Salaries.	Exchange compensation allowance.	Scarcity allowance.	Repairs.	Stores.	Provision.	Contingencies.	Total.	Total of 1897-98.
1	2	3	4	5	6	7	8	9	10
"Hesperus" ...	Rs. A. P. 13,062 1 10	Rs. A. P. 234 15 9	Rs. A. P. ...	Rs. A. P. 10,928 14 7	Rs. A. P. 6,612 12 6	Rs. A. P. 1,479 11 0	Rs. A. P. 90 3 4	Rs. A. P. 32,408 11 0	Rs. A. P. 35,844 8 4
"Luna" ...	14,525 15 9	234 15 9	...	8,723 3 4	7,637 12 0	396 3 9	123 5 3	31,646 7 10	20,561 0 8
"Torch" ...	12,946 9 7	234 15 9	...	939 13 5	3,512 14 9	961 12 3	60 3 3	18,686 5 0	21,343 6 7
"Meteor" ...	11,626 1 4	234 15 9	...	6,046 8 8	5,781 3 8	815 9 1	98 2 0	24,602 8 6	26,585 15 8
"Canopus" ...	12,591 3 7	234 15 9	...	2,284 0 3	6,727 5 8	1,368 15 0	23 10 6	23,230 2 9	24,629 2 10
"Planet" ...	18,207 15 10	234 15 9	...	24,777 15 7	3,564 13 10	1,347 1 3	121 1 6	43,253 15 9	21,832 7 0
"Comet" ...	9,327 0 9	...	...	4,846 6 3	1,979 15 2	1,363 3 7	107 3 6	17,623 13 3	19,845 12 9
"Star" ...	1,596 0 0	...	18 0 0	8,562 13 6	5,744 13 4	988 12 10	106 11 9	17,012 3 5	28,270 1 5
Total ...	88,883 0 8	1,409 14 6	18 0 0	67,109 11 7	41,661 10 11	8,716 4 9	765 9 1	2,08,464 3 6	1,99,212 7 3
Light-houses.									
False Point ...	7,192 10 11	...	27 0 0	876 7 11	4,478 14 0	49 8 8	184 10 9	12,781 4 3	10,976 3 6
Kankhal ...	456 0 0	...	...	183 12 7	275 2 10	6 10 8	24 9 6	973 3 7	1,958 3 0
Saugor ...	3,552 0 0	...	...	1,140 13 9	885 15 0	661 14 10	20 5 6	6,261 1 1	6,598 14 0
Total ...	11,200 10 11	...	27 0 0	2,200 2 3	5,639 15 10	718 2 2	229 9 9	20,015 8 11	19,533 4 6

P. J. FALLE,

Offg. Deputy Conservator.

E. W. PETLEY,

Offg. Vice-Chairman.

13th June 1899.

S. M. D.C.—Reg. No. 22

All communications to be addressed to the Secretary, Government of Bengal, Marine Department.

MARINE DEPARTMENT.

No. 1402. Marine.

From *A. H. L. Macgarry, Esq.,*
Under Secretary to the Government of Bengal,

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

Dated Calcutta, the 2nd Aug. 1899.

Sir,

I am directed to forward to you the enclosed 14 copies of the Report on the Light-houses and Light-vessels in the Bengal Presidency for the year 1898-99 for distribution to the officers in charge of light-houses in the Madras Presidency.

I have the honor to be,
Sir,

Yours most obedt. Servt.,

Accompl^d
14 Copies of the report
refd. to.

W. H. L. Macgarry
Under Secretary.

2-8-99

Am
28/7