

- (1) பக்கங்களின் எண்ணிக்கை 28
 (2) புதுக்கித் திருப்பிய நாள் Aug 1891
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD குறை

134

அரசாணை எண். 2320 அச்சகம்
 மு. கோப்புத் தாள் எண். பலவகை

நாள் : 20-8-1892 198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

14 Shals

அவன். கா-1-18,006-15-6-87.

No. 1023 OF 1892.

BOMBAY PORT TRUST:
Port Office,
Bombay, 6th April 1892.

FROM

THE PORT OFFICER;

TO

THE SECRETARY, BOMBAY PORT TRUST.

SIR,

In compliance with Government Resolution No. 197, Marine Department, I have the honour to submit, for the information of Government, the annual report of the light-houses and light-vessel in my charge.

1st order dioptric holophotal, 10 seconds flashing. Burner four-wick Fresnel pattern.

Prongs Light-house.—The light was exhibited 4,186.55 hours, being an average of 11 hours and 28 minutes per night.

The quantity of cocoanut oil consumed was 878 gallons, 2 quarts and 1 pint, or an average of 32.09 fluid ounces per hour.

The highest temperature registered in the lantern was 112° at midnight on the 14th June, and the lowest 79° at sunset on the 4th April.

The total number of cylinders broken was 26 and the number of visitors 1,278.

There is no record of any birds having been killed.

The telegraph cable was shifted from the south to the north side of the tower on the 20th October, as owing to friction the outer covering was completely destroyed.

In accordance with Trustees' Resolution No. 510, dated the 7th October 1890, Mr. Warder, the principal light-keeper, was transferred to Kennery on the 10th December and Mr. Dyer to the Prongs.

The health of the staff during the period under report was fairly good.

On the 27th March, during the prevalence of a strong southerly wind, a large buggalow from Karachi, named "Puttey Karim," laden with cotton, struck on the reef about one mile S.S.W. of the light-house and became a total wreck. Mr. Newman, the relief light-keeper, who was then in charge, sent a boat at 6.45 p.m. to render assistance, and succeeded in saving three men, who informed him that the remainder of the crew and passengers had gone ashore in the buggalow's boat. The wreck was floated on the night of the 28th on the flood tide, and was towed from the Colaba Point by three boats on the morning of the 29th.

1st order dioptric fixed with red sector over Chaul Khadu, Burner six-wick Douglass old pattern.

Kennery Light-house.—The light was exhibited 4,157½ hours, being an average of about 11.23 hours per night.

The quantity of cocoanut oil consumed was 1,627¾ gallons, or an average of 62 fluid ounces per hour.

During the month of July the light was burning full power (all six wicks) on two occasions till midnight, twice all night, and five times after midnight.

The highest temperature registered in the lantern was 122° at midnight on the 16th March and the lowest 78° at sunset on the 23rd January.

The number of cylinders broken 29.

There were 162 visitors during the year, including Sir G. Chesney and Captain Hext, who visited the island on the 23rd April. On the 19th November the steam launch "Defence" arrived with three military officers.

There is no record of any birds being killed.

On the 26th May and 11th of June swarms of locusts passed over the island.

On the 10th of June the magazine was broken open and 25 cartridges stolen; the thieves left no trace. The matter was reported to the Police Officer in charge at Alibág.

Telegraphic communication was interrupted from the 25th to the 27th November.

A complaint that the water was undrinkable having been made, the Engineer, Bombay Port Trust, was instructed to arrange to have the tank cleaned; and the Trustees in their Resolution No. 57, dated 9th February 1892, sanctioned the expenditure of Rs. 1,300 for the purpose.

Mr. Dyer, the principal light-keeper, was transferred to the Prongs Light-house and Mr. Warder to Kennery on the 10th December.

The health of the staff has been good.

3rd order dioptric occulting red with two white beams in fair way; occultation every five seconds. Burner four-wick Douglass new pattern.

Sunk Rock Light-house.—The light was exhibited 4,180 $\frac{3}{4}$ hours, an average of 11:27 hours per night.

The quantity of cocoanut oil consumed during the same period was 720 $\frac{1}{2}$ gallons, being an average of 27 fluid ounces per hour.

The highest temperature registered in the lantern was 124° on the 16th June at midnight.

The number of cylinders broken was 29.

There is no record of any birds having been killed.

The light-house was visited by 25 Europeans during the year.

The water-supply was plentiful during the monsoon.

The lightning conductors were examined on the 4th April, and the health of the staff has been good.

The European and Native light-keepers of three light-houses have been granted their usual leave.

5th order dioptric fixed green with white direction beam to mail steamer anchorage. Burner single-wick Douglass old pattern.

Dolphin Light-house.—The light was exhibited for 4,270 $\frac{3}{4}$ hours, being an average of 11:42 hours per night.

The quantity of cocoanut oil consumed was 125 gallons 6 $\frac{1}{2}$ pints, or an average of 4:7 fluid ounces per hour.

Three cylinders were broken.

The highest temperature was 124° on the 14th October.

The health of the staff was good.

The Trustees of the Port inspected the Kennery and Sunk Rock Light-houses on the 8th December, and found everything in good order.

Light Vessel "Bombay".—The light was exhibited for 4,212 $\frac{3}{4}$ hours, or an average of 11 hours and 35 minutes per night.

The quantity of cocoanut oil consumed was 549 $\frac{1}{2}$ gallons, being an average of 21 $\frac{1}{2}$ fluid ounces per hour.

The temperature has never been taken, as the vessel is unprovided with a portable thermometer.

The number of cylinders broken was 800.

The vessel was visited by 8 Europeans.

There is no record of any birds being killed.

There was a succession of light, moderate and fresh variable winds accompanied with torrents of rain from the middle of June to the middle of July. On

the 27th July there was a heavy gale, and the vessel was struck by a high sea, which smashed the front of the poop, split the main deck awning into ribbons, with other minor casualties.

The heaviest roll registered by the ship's chronometer was 47°, and the longest scope of chain out was 165 fathoms, with buffer and claws attached.

There was a great amount of sickness on board during December and January, principally colds and fever.

I have, &c.,

(Signed) MAURICE BEAN, Captain, R. I. M.,

Port Officer of Bombay.

ANNUAL REPORT OF THE PORT OFFICER, KARACHI, ON THE MANORA LIGHT-HOUSE FOR THE YEAR ENDED 31st MARCH 1892.

The light is a fixed 1st order dioptric white light, showing with full brilliancy to seaward on a horizontal arc of 180 degrees, that is from N.W. by W. to S.E. by E., the landward half circle being partially screened by a mirror, which intensifies the light to seaward.

2. The focal plane of the light is 152 feet above mean sea level, and in clear weather is visible from a steamer's bridge 20 nautical miles.

3. The light is in—

Latitude	...	...	...	24 47 37 N.
Longitude	...	...	...	66 58 6 E.

bearing from the site of the former revolving light N. 26°20' W. at a distance of 607 yards, and was first exhibited on the 1st April 1889.

4. During the year under review, no complaints were received from the commanders of vessels visiting the Port regarding the range of visibility of the light.

5. Due care and vigilance have been exercised in working the light, and the strictest economy observed in maintaining it in efficient condition.

6. The heavy guns of the batteries on Manora were fired during the year; and although no precautions were taken beyond watching the effect, no damage was sustained either by the lantern or apparatus.

7. The lightning conductor was tested during the year and found in good condition.

8. The highest temperature registered in the lantern was 98° in July 1891, and the lowest 66° in February 1892.

9. The number of visitors to the light-house during the year under review was 565.

10. The usual ordinary repairs to the buildings were effected during the year at a cost of Rs. 159-8-10.

11. The light-keeper was granted two months' privilege leave from the 8th November last.

12. The health of the staff was generally good.

13. No birds were killed by striking against the outer glass casing.

14. The Cutch Darbár having enquired whether 200 gallons of the mineral oil used in this light could be supplied annually, the Trustees in their Resolution marginally noted expressed their willingness to supply that quantity at cost price, delivery to be taken at Manora.

No. 2 of Meeting, dated 4th September 1891.

15. It may be mentioned that the duties of the signal station are performed by this establishment in addition to those appertaining to the light-house.

16. The annexed statements show the establishment entertained with cost, as well as the quantity and value of stores consumed during the year.

17. Statement showing the establishment entertained at the Manora Light-house during the year ending 31st March 1892:—

Rating.	Number.	Rate of salary per mensem.	Cost per annum.
		Rs. a. p.	Rs. a. p.
Light-keeper ...	1	50 0 0	
Probationary Light-keeper ...	1	30 0 0	
1st class lascar ...	1	18 0 0	
2nd do. ...	1	15 0 0	
3rd class lascar, at Rs. 11 each ...	6	66 0 0	
For 12 months ...			2,158 14 8
Cost of provisions, wood and water ...			817 13 2
Total for Establishment ...			2,976 11 10

N. B.—This amount includes the deputation allowance paid to the Probationary Light-keeper while the Light-keeper was on leave.

18. Statement showing the quantity and value of stores consumed during the year ending 31st March 1892—

Stores.	Number or quantity.	Amount.	Total.
		Rs. a. p.	Rs. a. p.
Brooms, date ...	40 in No.	1 8 0	
Do. Goa ...	8 "	0 10 0	
Brushes ...	8 "	16 0 0	
Buckets, tin ...	1 "	0 8 0	
Cotton waste ...	74 Lbs.	9 4 0	
Chimneys ...	33 in No.	82 8 0	
Chalk ...	8 Lbs.	0 4 0	
Cloth, rainsook ...	4 Yds.	0 12 0	
Cord, Venetian, blue ...	13 "	2 4 0	
Dungari, double ...	48 "	6 5 8	
Leather, chamois ...	2 Sq. feet.	1 0 0	
Looks, galvanized, iron ...	1 in No.	2 0 0	
Matches, small ...	144 boxes.	1 0 9	
Oil, mineral ...	1,986 Gals.	1,949 10 7	
Soap, country ...	76 Lbs.	6 10 1	
Do. Europe ...	15 "	1 8 0	
Sponges ...	4 in No.	2 0 0	
Spirits of wine ...	1 1/2 Gals.	5 0 0	
Wicks, light-house ...	69 Yds.	8 10 0	
Do. keeper's lamp ...	3 Dozs.	3 0 0	
Do. do. lantern ...	1 Lb.	0 8 0	
Deduct—			2,100 15 1
By sale-proceeds of empty drums ...		413 2 7	
Do. do. old stores ...		59 13 0	
Net Cost of Stores Rs. ...			472 15 7
			1,627 15 8

RED LIGHT ON BREAKWATER.

19. This light was first exhibited on the 1st May 1890, and was maintained throughout the year without interruption.

20. The light is of the all-round anchor pattern of ship's light, series of 125 m/m focus, with ruby glass chimney, exhibited at the end of the breakwater and visible in clear weather 5 nautical miles.

21. This light is attended to by the light-house staff.

22. The annexed statement shows the quantity and value of stores consumed during the year under review:—

Description of Stores.	Number or quantity.	Amount.	Total.
		Rs. a. p.	Rs. a. p.
Cotton waste ...	Lbs. 10	1 4 0	
Dungari, double ...	Yds. 10	1 5 8	
Matches, small ...	Boxes 24	0 2 6	
Oil, kerosine ...	Gals. 72	36 0 0	
Wicks, flat ...	Yds. 12	1 6 0	
Total Rs. ...			40 2 2

WALTER POWELL, Capt., R. I. M.,
Port Officer, Karachi.

Manora, 5th April 1892.

REPORT ON THE IMPERIAL LIGHT-HOUSES UNDER CHARGE OF THE PORT OFFICER, ADEN, FOR THE YEAR ENDING 31st MARCH 1892.

PERIM ISLAND PRINCIPAL LIGHT-HOUSE.

This station has been visited twice during the year under report.

The light-house and quarters are in good order.

Mr. Sorábjí Pocháji was in charge from 1st April 1891 to 31st October 1891 and from 18th December 1891 to 14th March 1892. Mr. Jamsetji Merwánji from 15th March 1892 to 31st March 1892.

Establishment.

Rating.	Number.	Salary per mensem.	Cost per annum.
			Rs. a. p.
Engineer ...	1	60	613 1 7*
1st Light-keeper ...	1	25	300 0 0
1st class lascars ...	3	17 each.	612 0 0
2nd do. ...	7	14 "	1,176 0 0
Boat tindal ...	1	14	168 0 0
" lascars ...	4	13 each.	624 0 0
Bhisti ...	1	9	108 0 0
Bhandári ...	1	10	120 0 0
Sweeper ...	1	11	132 0 0
Total Rs. ...			3,853 1 7

* Savings Rs. 106-14-5.

I am unable to state the cost of provisions supplied to the establishment, as the bills are not adjusted through this office.

Statement of Stores expended.

	Quantity.	Cost per annum.		
		Rs.	a.	p.
Oil, cocoanut	Gals. 610	1,861	2	8
Wicks	No. 1,681	48	11	0
Chimneys	" 208	130	0	0
Chalk	Lbs. 6½	1	12	0
Bath bricks	No. 5½	1	0	6
Soap...	Lbs. 28	5	8	0
Flannel	Yds. 3½	4	6	0
Matches	Boxes 60	0	10	0
Cotton yarn	Lbs. 2½	1	9	0
Spirit of wine	Gals. 4	60	0	0
Rouge	Lb. 1	1	0	0
Brooms, Goa	No. 6	1	8	0
Cotton waste	Lbs. 60	8	2	0
Dungari	Yds. 142	35	8	0
Total Rs.	...	1,958	13	2

PERIM OCCULTING LIGHT.

This light was visited simultaneously with the principal light, and everything found in fair order.

Stores expended as follows:—

	Quantity.	Cost per annum.		
		Rs.	a.	p.
Mineral oil	Gals. 89	68	2	0
Wicks	Yds. 10	4	8	0
Chimneys	No. 13	8	2	0
Dungari	Yds. 40	10	0	0
Cotton waste	Lbs. 20	6	4	0
Matches	Boxes 18	0	3	0
Brooms, Goa	No. 8	2	0	0
Total	...	99	3	0

BERBERA AND BULHAR LIGHT-HOUSE.

These lights are in charge of the Political Agent and Consul, Somali Coast, and have been inspected by me twice during the year. Stores are supplied by the Port Department on requisitions. The quantity expended I am unable to state, as no return has been received for the above lights during the year under report.

E. BISHOP, Captain, I. M.,

Port Officer.

Aden, 14th April 1892.

REPORT ON THE ADEN PORT TRUST LIGHTS IN CHARGE OF THE PORT OFFICER, ADEN, FOR THE YEAR ENDING 31st MARCH 1892.

RAS MARSHAG LIGHT-HOUSE.

The lamp is one of Douglass' new pressure 4-wick burners.

This light-house is inspected by me monthly.

The structure and out-houses are in good repair.

The health of the light-keepers has continued good.

The new circular roof ventilator with large hit and min valves in the stone work of pedestal have been fitted, but it is rather early to report as to the result, as the weather up to date has been comparatively cool.

The establishment will be further reduced on and after the 1st April 1892, as shown in the following statement:—

Rating.	1891-92.			1892-93.		
	Number.	Salary per mensem.	Cost per annum.	Number.	Salary per mensem.	Cost per annum.
		Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
Tindal for 4 months only.	1	40 0 0	160 0 0*	1	30 0 0	360 0 0
1st class lascar	1	25 0 0	300 0 0	1	25 0 0	300 0 0
2nd do. do.	7	22 each.	1,848 0 0	6	22 each.	1,584 0 0
Water for do.	...	...	223 9 2	...	...	223 9 2
Total Rs.	...	2,531	9 2	Total Rs.	...	2,467 9 2

* Vacant from 1st July 1891 to 31st March 1892.

The light has burnt well during the year, and been well reported on by commanders of vessels.

When the new ventilator was put on, I took advantage of the scaffolding being up to have the lightning conductor rivetted on to the copper structure (viz. new cap ventilator), in my opinion making a much better connection than there was before. The lightning conductor requires to be tested.

No record is kept of the temperature in the lantern.

The tindal was on the 1st July 1891 invalided, and granted a pension by the Trustees.

The duties of the signal station on Ras Marshag plateau are performed by this establishment, in addition to those appertaining to the light-house. Stores expended as follows:—

Description of Stores.	Quantity.	Value.		
		Rs.	a.	p.
Oil, mineral	Gals. 572	446	2	0
Chimneys	No. 19	22	0	0
Wicks	Yds. 5½	4	0	0
Chalk	Lbs. 26	6	4	0
Soap, Europe	" 60	10	11	5
Dungari	Yds. 120	30	0	0
Matches	Boxes 72	0	12	0
Leather, chamois	No. 12	12	0	0
Cotton waste	Lbs. 24	7	8	0
Total Rs.	...	539	5	5

ADEN LIGHT-SHIP.

This light has worked well throughout the year.

No change has occurred in establishment.

The health of the crew has continued good.

The vessel still continues staunch tight, making little or no water.

Frequent visits of inspection are made.

Estimates for replacing the present cocoanut-oil burners with mineral-oil burners, and having two 21-inch parabolic reflectors instead of, as at present, groups of 3 small ones, will shortly be placed before the Trustees.

Cost of establishment and expenditure of stores is as follows:—

Rating.	Number.	Salary per mensem.	Cost per annum.
		Rs. a. p.	Rs. a. p.
Tindal ...	1	29 0 0	348 0 0
1st class lascar ...	2	20 0 0	480 0 0
2nd do. do. ...	6	17 each.	1,224 0 0
Bhandári do. ...	1	15 0 0	180 0 0
Water for do. ...	.....	.....	324 0 0
	Total Rs. ...		2,556 0 0

Description of Stores.	Quantity.	Cost per annum.
		Rs. a. p.
Oil, cocoannt ...	Gals. 350	953 2 0
Wicks ...	No. 864	23 7 4
Chimneys ...	" 37	23 2 0
Soap, Europe ...	Lbs. 48	8 9 1
Plate powder ...	No. 12	12 0 0
Chamois leather ...	" 6	6 0 0
Spirit of wine ...	Bottles 6	15 0 0
Matches ...	Boxes 72	0 12 0
Cotton waste ...	Lbs. 26	30 0 0
	Total Rs. ...	1,072 0 5

E. BISHOP, Captain, I. M.,
Port Officer, Aden.

Aden, April 1892.

No. 175 of 1892.

FROM

THE STATE KARBHARI,
Janjira;

TO

THE COLLECTOR AND POLITICAL AGENT,
Kolaba.

State Karbhari's Office,
Murud-Janjira, 15th April 1892.

SIR,

With reference to Government Resolution No. 134 (Marine Department), dated 20th March 1886, I have the honour to submit the annual report on the light-house at Nanowli on Rajpuri Point in the Janjira State for the official year ending 31st March 1892.

2. During the year under report the fixed white light at Nanowli, which is of the 4th order dioptric, was maintained in a thoroughly efficient manner. The building and the lighting apparatus continue to be in perfect order. The tower was repaired and white-washed in March last. The lightning conductor of the light-house is also reported to have been in a sound state.

3. The light was regularly exhibited from its white masonry tower throughout the whole year, and no complaints as to its range of visibility or about any other matter were received from any quarter. 160 gallons of cocoanut oil were consumed, as last year, on the exhibition of the light.

4. The working establishment consisted, as usual, of one head light-keeper and 2 subordinate light-keepers, who were all in good health during the year under report.

5. The charges in connection with the light-house are detailed below:—

	Rs. a. p.
Establishment ...	312 0 0
Cocoanut oil ...	225 6 0
White-washing and petty repairs ...	26 1 11
Contingencies ...	44 2 0
Total ...	607 9 11

I have the honour to be,
Sir,

Your most obedient Servant,
SHALOM BAPUJI,
State Karbhari, Janjira.

No. 1826 of 1892.

Camp Chowk, 21st April 1892.

Forwarded to Government in the Political Department with reference to Government Resolution No. 1962 of 5th April 1886.

R. M. KENNEDY,
Acting Collector and Political Agent, Kolaba.

Through the Commissioner, S. D.

No. 109 of 1892.

POLITICAL DEPARTMENT.

Kanara Districts,
Camp Bellikeri, 27th April 1892.

Forwarded.

J. F. FLEET,
Acting Commissioner, S. D.

No. 4835 of 1892.

FROM

LIEUT.-COLONEL F. H. JACKSON,
Officiating Agent to the Governor General at Baroda;

To

THE SECRETARY TO GOVERNMENT,
POLITICAL DEPARTMENT,
Bombay.

SIR,

Dated Baroda, 9th May 1892.

I have the honour to forward copies of the annual reports of the light-houses at Madhwa Point, Sayani and Dwarka for the year ending 31st March 1892.

I have the honour to be,

Sir,

Your most obedient Servant,

F. H. JACKSON, Lieut.-Colonel,
Officiating Agent to the Governor General at Baroda.

No. 238 of 1892.

FROM

LIEUT.-COLONEL F. H. JACKSON,
Assistant to the Agent to the Governor General,
Amreli;

To

COLONEL E. S. REYNOLDS,
Agent to the Governor General,
Baroda.

Amreli, April 8th, 1892.

SIR,

I have the honour to make the report on the light-house at Madhwa Point, Kodinár District, for the year ending the 31st March 1892.

2. The Chief Engineer, Baroda State, and myself visited the light-house in October last, and remained at Velan for three days for the purpose of making a full inspection, and superintending certain repairs.

According to Mr. Douglass' suggestions.

3. The repairs were executed by a skilled artificer lent by the Bombay Port Trust.

4. The following improvements have been made during the year:—

The tower white-washed and wood work varnished.

The keepers' houses repaired.

New furniture supplied.

Two cupboards with glass doors constructed.

Two oil tanks to hold six months' supply obtained from Bombay.

A thick quilted cover made for the lantern.

Minor necessities supplied.

5. The supervision by local officers during the year was as follows:—

Visitors.	Date of visit.
Mr. Nagesh Vynaik, Vahivátdár of Kodinár ...	24th May 1891.
Mr. Jamsetji Ardesar Dalal, Suba of Amreli ...	24th May 1891.
Mr. Amratlal Damodar, Vahivátdár of Kodinár ...	6th February 1892.
Mr. Vishnu Jiwaji, Overseer ...	4th March 1892.

6. It has been arranged that the Vahivátdár of Kodinár shall for the future visit the light-house once a month. A change has been ordered among the light-keepers.

7. The cost of maintaining the light for the year was:—

	Rs.	a.	p.
Cost of cocoanut oil per annum ...	226	7	2
Contingencies... ..	48	1	0
Total ...	274	8	2

Establishment.

Head keeper, at Rs. 20 per month ...	240	0	0
2 Assistants, at Rs. 12 ...	288	0	0
	528	0	0
Total per annum ...	802	8	2

8. The light has been exhibited without fail all through the year.

I have the honour to be,

Sir,

Your most obedient Servant,

F. H. JACKSON, Lieut.-Colonel,
Assistant to the Agent to the Governor General at Amreli.

No. 76 of 1892.

FROM

THE ASSISTANT TO THE AGENT
TO THE GOVERNOR GENERAL,
Okhámandal;

To

THE AGENT TO THE GOVERNOR GENERAL,
Baroda.

Dwarka, 4th May 1892.

SIR,

I have the honour to make the following report on the Dwarka and Sayani light-houses for the year ending 31st March 1892.

2. No changes have been made since last year's report. Both lights have been burning regularly and satisfactorily throughout the year.

3. The cost to the Baroda State for the year was as follows :—

<i>Dwarka Light-house.</i>		Rs.	a.	p.
2 keepers	...	228	0	0
Cocconut oil	...	296	1	10
New chamois leather	...	2	8	0
Painting and petty repairs	...	19	0	0
Washing expenses	...	4	8	0
Total	...	550	1	10

<i>Sayani Light-house.</i>		Rs.	a.	p.
3 keepers	...	336	0	0
Allowance for water	...	24	0	0
Cocconut oil	...	188	15	10
New towels and chamois leather	...	9	6	3
New water tank...	...	49	10	6
Painting and repairs	...	35	0	0
New curtains and contingencies	...	12	2	11
Boat hire	...	81	0	6
	...	736	4	0
Total	...	1,286	5	10

4. Orders have recently been issued for the construction of a store-room and oil tanks for each establishment, and the work will be put in hand without delay.

5. Since my last report the two light-houses have been painted. It may be mentioned that this work is generally done once a year after the close of the monsoon.

6. Both towers are in good repairs.

I have the honour to be,

Sir,

Your most obedient Servant,

H. HARRISON,

Assistant to the Agent to the Governor General at Dwarka.

No. 72 of 1892.

FROM

THE POLITICAL AGENT,

Cutch ;

TO

THE SECRETARY TO GOVERNMENT.

POLITICAL DEPARTMENT,

Bombay.

*Cutch Political Agency,
Bhuj, 13th May 1892.*

SIR,

I have the honour to forward herewith the reports on light-houses in Cutch for 1891-92, received from the Cutch Darbar.

2. The Tuna Light-house has no lightning conductor attached to it.

I have the honour to be,

Sir,

Your most obedient Servant,

J. M. HUNTER,

Political Agent, Cutch.

KRISHNAJI VINAYAK,
Sar-karkun of Anjanvel.

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*Sketches
pages 13 to 24
Munir*

Iron tank	...	1
Brass locks with keys	...	2
Screw-spanner	...	1
Screw-driver	...	1
Hammer	...	1
Coal chisel	...	1
Feather brushes	...	2
Bottle brushes	...	2
Iron oil tin	...	2
Piece of small chain	...	1
White metal tube for fixing in wicks	...	1
Brass burners, complete	...	2
Brass caps for burners	...	2
Kerosine-oil burner	...	1
Iron screws	...	2
Metal dabu with a drawer	...	1
Wooden ladder	...	1
Kerosine burner	...	1
Brass flat piece	...	1

*Da'bhul Custom House,
23rd April 1892.*

List of Dead Stock Articles belonging to the Ratnagiri Light-house, as per column 18 of the ...
from the Assistant-Collector of Salt Revenue, Ratnagiri Range, for the year 1891-92.

As per last report.			Articles lost or destroyed since last report.			Addition since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
1	Lamp, dioptric	...	40	Chimneys.	Owing to im- proper re- gulation of the wick as well as breakage.	...	.....	.....
1	Brass oil receiver burner complete.	...						
1	Reflector.	...						
1	Brass small lamp.	...						
1	Brass save-all	...						
1	Copper draught pipe	...						
1	Brass chimney stand.	...						
1	Do. tray for small lamp and 1 chimney.	Strainers bro- ken.						
2	Pair scissors.	Much worn.						
1	Canvas cover, brad, for top of lamp.							
1	Zinc tube for fixing wick.							
2	Chimney brushes.							
1	Brass funnel with strainer.							
1	Brass oil measure.							
6	Inside curtains.							
1	Outside curtain	...						
2	Iron oil tanks with stands and 1 iron and 3 brass locks.	Cut up into 2 by Mr. Payne.						
1	Iron bucket.							
1	Hour-glass.							
2	Brass oil receivers.							
2	Brass tubes with burners attached.							
3	Do. burner with one extra minor tube.							
9	Copper tubes for issue of burners (out of repair).							
11	Brass rings for fixing wicks on.							
11	Do. for supporting chimneys							
4	Brass lamps with thumb screw.							

26

Is broken.

1	Brass save-all with gauze wire broken.	Unserviceable.						
1	Socket with 3 screws.	...						
2	Tin oil-feeders.	...						
2	5-gallon iron drums for oil.	...						
2	Copper conical-shaped glass frames.	...						
1	Zinc plate, conical shaped.	...						
1	Iron padlock.	...						
2	Flag.	...						
4	Storm-signal lamps with three spare glasses.	Unserviceable.						
1	Day storm-signal, complete.	...						
2	Hand lamps	...						
1	Brass gun	...						
1	Bucket and one cask for use of gun.	...						
5	Chimney brushes	...						
4	Feather chimney brushes.	...						
1	Pair scissors.	...						
1	Zinc bucket.	...						
1	Bundle of pieces of rope.	...						
4	Copper plates	Unserviceable.						
2	Do. chaffies.	...						
1	Do. kettle.	...						
302	Glass chimneys.	Unserviceable.						
1	Sand-glass.	...						
1	Copper plate	Unserviceable.						
1	Do. cooking pot	...						
1	Lota	...						
1	Storm-warning signal called drum	...						
1	Signal of canvas cover (cone)	...						
1	Tin oil measure of 3 sers	...						
2	5-gallon iron cans	...						
1	Flag	...						
1	Scissor	...						
2	Zinc buckets	...						

27

Old ones
taken by
Mr. Payne.

3 taken to
Bombay.
Taken to
Bombay.

2 taken to
Bombay.

Broken.

Taken to
Bombay.

2320
8

Ratnagiri Custom House, }
13th April 1892.

SADA SHIV GOVIND,
Sar-karkun.

Statement of Articles that are kept for use of the Light-house at Jaitapur, submitted to the Assistant Collector of Salt Revenue, Ratnagiri Range.

No.	As per last report. Description.	Condition.	Articles lost or destroyed since last report.		Additions since last report.		Condition.
			No.	Description.	No.	Description.	
1	11 screws ...	...	10	Glass chimneys ...	...	Broken ...	...
2	2 pairs of scissors ...	...					
3	6 locks with keys ...	...					
4	2 triangular copper frames ...	...					
5	1 knife ...	...					
6	2 boxes for keeping glass chimneys ...	...					
7	2 iron tanks for oil ...	...					
8	2 iron dahas ...	...					
9	1 gun ...	...					
10	Telescope ...	...					
11	2 brass pipes ...	...					
12	1 trip of brass with 8 screws ...	...					
13	1 case of firwood ...	...					
14	1 funnel ...	...					
15	1 hanging (screen) ...	...					
16	2 triangular frames ...	...					
17	7 brushes ...	...					
18	10 triangular glasses ...	...					
19	1 measure of half ser ...	...					
20	1 do. of gallon ...	...					
21	1 iron wank for hanging ...	...					
22	1 hour-glass ...	...					
23	36 glass chimneys ...	...					
24	1 pincer for holding chimneys ...	...					
25	1 pole with French degrees (foot rule) ...	...					
26	1 pair of instruments for removing nails ...	...					
27	1 tin pipe for taking out oil ...	...					
28	2 other pipes ...	...					
29	1 tin bucket ...	...					
30	2 lamps to light the larger one ...	...					

All articles are in good order.

31	1 tin case for white paint ...	...
32	1 do. for red paint ...	...
33	2 dahas for pouring oil ...	...
34	1 tin box for wicks ...	...
35	2 copper measures for oil ...	...
36	2 girmits ...	...
37	1 triangular instrument for scratching (turning) ...	...
38	2 instruments for removing nails ...	...
39	2 flat instruments of the above kind ...	...
40	1 screw-driver ...	...
41	1 hammer ...	...
42	1 spanner ...	...
43	2 pairs of joint iron instrument ...	...
44	2 spirit levels ...	...
45	1 copper case with thermometer ...	...
46	1 hand vice ...	...
47	1 pair of instruments for cutting nails ...	...
48	1 pair of kinkra ...	...
49	1 hand-saw ...	...
50	3 pairs of brushes ...	...
51	1 pair of brush of feather ...	...
52	1 hand brush ...	...
53	1 pair of brush for paint ...	...
54	1 pair of clock-maker's brush ...	...
55	1 case of daily use ...	...
56	1 case of instrument ...	...
57	1 case of articles ...	...
58	1 iron nut ...	...
59	2 pairs of iron bolts ...	...
60	1 hand light ...	...
61	1 brass pot for collecting oil ...	...
62	1 tin pipe ...	...
63	2 pairs of trip of glass for keeping on the mouth of lamp ...	...
64	3 do. of tin ...	...
65	1 flag, blue ensign ...	...
66	1 copper pot for boiling water ...	...
67	1 canvas screen ...	...

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List of Dead Stock Articles belonging to the Floating Red Light Boat and the Coast Green Light at Malcom for the year 1891-92 to be submitted to the Assistant Collector of Salt Revenue, Ratnagiri Range, as per his No. 375, dated 20th November 1885.

AS PER LAST SUPPLY.			ARTICLES LOST OR DESTROYED DURING THE YEAR.			ADDITION SINCE LAST SUPPLY.		
Number.	Articles.	Condition.	Number.	Articles.	Causes.	Number.	Articles.	Condition.
1	2	3	4	5	6	7	8	9
1	Boat, complete	Good.	...	Floating Red Light Boat.	.....	...	Iron chain	Good.
2	Iron anchors	Good.	...	.....	.....	...	...	...
3	Four pieces of chain	Good.	...	.....	.....	...	...	...
4	Five red lanterns	Good.	...	.....	.....	...	...	...
5	A lantern with brass wires	Good.	...	.....	.....	...	...	...
6	One box for lanterns	Good.	...	.....	.....	...	...	...
7	A pair of scissors	Good.	...	.....	.....	...	...	...
8	Storm-warning drum	Good.	...	.....	.....	...	...	...
9	Weights (34), each of one maund	Good.	...	.....	.....	...	...	...
10	Lamp post with a ladder	Good.	...	.....	.....	...	...	...
11	Two green lanterns	Good.	...	.....	.....	...	...	...
12	A pair of scissors	Good.	...	.....	.....	...	...	...
13	Two boxes for lanterns	Good.	...	.....	.....	...	...	...
14	A box for chimneys	Good.	...	.....	.....	...	...	...

*Malcom Custom House, }
9th April 1892.*

*LAXUMAN MAHADEV,
Sar-karkun.*

Description of articles as per last report.			Description of articles lost or destroyed since last report.			Description of additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Condition.	Number.	Description.	Condition.
1	Crabwinch	Good.	...	Vengurla Rock Light-house.	...	...	...	...
1	Jangli large stick	Good.	...	...	...	...	...	...
95	Large glass chimneys	70 good	25	Broken.	...	...	...	...
8	Iron tanks for keeping oil in	6 good	2	...	...	...	...	...
1	Telescope	...	...	...	...	...	...	...
2	Copper pots	...	...	...	...	...	...	...
10	Blinds	Worn out.	...	...	...	...	...	...
3	Iron casks for keeping oil in	Good.	...	...	...	...	...	...
48	Corrugated iron sheets	27 good, 16 useless.	...	...	...	...	...	...
9	Lanterns	Good.	...	...	...	...	...	...
1	Iron anchor	...	...	...	...	...	...	...
1	Box, teakwood	...	...	...	...	...	...	...
2	Tin buckets	...	...	...	...	...	...	...
5	Flags	...	...	...	...	...	...	...
1	Buoy	...	...	...	...	...	...	...
2	Small anchors	...	...	...	...	...	...	...
1	Hour-glass	...	...	...	...	...	...	...
2	Iron chains	...	...	...	...	...	...	...
2	Shackles and hooks for the buoy	...	...	...	...	...	...	...
1	Octangular glass	...	...	...	...	...	...	...
82	Glass pans	29 good, 3 broken.	...	...	...	...	...	...
5	Scissors	Good.	...	...	...	...	...	...
1	Pulley	...	...	...	...	...	...	...
3	Tin dabas	...	...	...	...	...	...	...
1	Gutter	...	...	...	...	...	...	...
2	Wooden screws for raising wicks	...	...	...	...	...	...	...
1	Iron lamp post	...	...	...	...	...	...	...
6	Tin cocks	...	...	...	...	...	...	...
6	Cots, teakwood	...	...	...	...	...	...	...
6	Brass and tin lamps	...	...	...	...	...	...	...
5	Do. tongs	...	...	...	...	...	...	...
3	Copper gallon, quart and pint	...	...	...	...	...	...	...
2	Boxes for keeping pots	...	...	...	...	...	...	...
9	Small chimneys	...	...	...	...	...	...	...
1	Copper funnel	...	...	...	...	...	...	...
2	Tin perforated sheets	1 good, 1 worn out.	...	...	...	...	...	Good.
9	Pipes	Good.	...	...	...	...	...	...

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Description of articles as per last report.		Description of articles lost or destroyed since last report.		Description of additions since last report.	
Number.	Description.	Condition.	Number.	Description.	Condition.
1	Flag-staff ...	Good.		<i>Vengurla Rock Light-house</i> —continued.	
1	Brass chimney-stand ...	"			
1	Box for red earth ...	"			
1	Piece of sponge ...	Worn out.			
1	Copper spade ...	Good.			
1	Level bottle ...	"			
1	Lightning conductor ...	"			
1	Steel crowbar ...	"			
1	Brass small lamp ...	"			
4	Brushes ...	"			
1	Cast-iron weight ...	"			
1	Buoy ...	"			
2	Rails for crane ...	"			
1	Wrench screw ...	"			
1	Ventilator ...	"			
1	Boat ...	"			
1	Hand lamp, brass ...	"			
1	Platform ...	"			
3	Screw jacks ...	"			
3	Knives ...	"			
1	Pair of tongs, iron, large ...	"			
1	Hook for raising lantern ...	"			
10	Water casks ...	6 good, 4 broken.			
1	Tarpaulin ...	Good.		<i>Vengurla Port Light-house.</i>	
20	Water casks ...	"			
1	Lantern ...	Good.			
1	Crane ...	"			
1	Telescope ...	"			
2	Wooden ladders ...	"			
2	Panes ...	"			
1	Lever for lock ...	"			
2	Iron locks ...	"			
1	Coupling fliers ...	"			
8	Glass panes ...	"			
4	"	"			
1	"	"			

1	Cutting fliers ...	"			
4	Wooden screws for raising wicks ...	"			
2	Pulleys ...	"			
1	Small iron carriage for lantern ...	"			
4	Iron wheels ...	"			
129	Glass chimneys ...	119 good	10	Broken.	
4	Brass iron cans ...	Good.			
1	Iron feeder ...	"			
2	Galvanized iron ropes ...	"			
2	Nippers (one pair) ...	"			
1	Funnel ...	"			
2	Copper plates ...	"			
1	Bucket ...	"			
1	Brass funnel ...	"			
8	Lanterns ...	"			
1	Pier ...	"			
1	Brush ...	"			
2	Brass hand-lamps ...	"			
1	Handle ...	"			
1	Iron wheel ...	"			
1	Small iron chains ...	"			
2	Sponges ...	"			
4	Brass burners ...	"			
4	Chain ...	"			
1	Knives ...	"			
2	Copper hangers ...	"			
2	Do. hooks ...	"			
1	Chabina boat ...	"			
2	Wooden lamp-posts ...	"			
2	Flags ...	"			
24	Glass chimneys ...	8 good, 16 broken.			
1	Drum, storm-warning ...	Good.			

MA'DHAVRA'O,
Sar-karkun.

List of Articles of Dead Stock in charge of the Light-house-keeper, Oyster Rock, Kárwár.

Names of Articles.	No.	Remarks.	Names of Articles.	No.	Remarks.
Telescope, small ...	1		Signal flag staff ...	1	
Do. large, on stand ...	1		Drill frame ...	1	
Do. night ...	1		Bits for do. ...	6	
Binoocular ...	1		Cramps, large ...	2	
Files, large and small ...	11		do. small ...	3	
Three-foot rule ...	1		Hand brace ...	1	
Putty knives ...	2		Paint brushes ...	3	
Moving spanners ...	2		Screw-drivers ...	4	
Hammers ...	2		Punches ...	2	
Pincers ...	4		Signal gun ...	1	
Scissors ...	7		Sponge staff for gun ...	1	
Spectacles ...	2		Gun screw ...	1	
Chisels, cold ...	3		Hand spikes ...	2	
Plumb ...	1		Marker, iron ...	1	
Drill, bow and shield ...	1		Priming irons ...	2	
Drill for bow and shield ...	6		Bradawl ...	1	
Gimlets ...	5		Lamps with stand ...	2	
Metal saws ...	2		Do. stand for wall ...	1	
Scrapers, small ...	2		Wooden box for do. ...	1	
Vice, large ...	1		Lanterns ...	2	
Hand vice ...	1		Hoe ...	1	
Wood plane ...	1		Crowbars ...	2	
Stone hammer ...	1		Time-piece ...	1	
Soldering irons ...	3		Cooking copper pots ...	3	
Hone ...	1		Copper dish, large ...	1	
Small lamps ...	2		Water chatties ...	2	
Oil filter can ...	1		Lota ...	1	
Filter for do. ...	2		Accommodation ladder ...	1	
Copper buckets ...	2		Posts for ladder ...	2	
Lamp spanners ...	3		Large wood box for holding flags, spare stores, &c. ...	1	
Small keys for lamps ...	3		Commercial code signal flag set, complete ...	1	
Tongs for lamp chimney ...	1		Signal books for do. ...	2	
Models for wicks ...	4		Additions to the signal books ...	11	
Spirit level ...	1		Universal code signal books ...	2	
Spare chimneys ...	2		Steamer flag ...	1	
Burners for lamps ...	6		Blue ensign ...	1	
Piston shaft ...	1		Red ensign ...	1	
Leather for piston ...	1		St. George's ensign ...	1	
Spare guide rods ...	3		Light-house and light-vessel's list ...	1	
Brushes for piston shaft ...	2		Oil register ...	1	
Wooden chisels ...	2		Daily register of observations, &c. ...	1	
Cartridge pouch ...	1		Wood horses ...	4	
Copper pump with tin tube ...	1		Tool box ...	1	
Tin oil trays ...	3		Union Jack ...	1	
Trimming tray ...	1		Cautionary signal drum ...	1	
Wood box, small ...	1		Do. south cone ...	1	
Tin box for wicks ...	1		Powder box ...	1	
Set of curtains ...	1		Wooden cot ...	1	
Do. for lamp ...	1		Wash-hand table ...	1	
Thermometer ...	1		Sideboard ...	1	
Trays for piston ...	2		Table, small ...	1	
Hair brushes ...	3		Wood chairs ...	4	
Fountain lamp ...	1		Commode ...	1	
Oil measures, tin ...	3		Ventilation copper tube ...	1	
Copper gallon ...	1		Spring balance ...	1	
Leather belts with brass plates ...	5		Pick-axe ...	1	
Iron buckets ...	2		Signal flags marked B, C, D, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, W, ...	18	
Wood blocks ...	3		Red ensign, merchant navy ...	1	
Iron blocks ...	2				
Screw plate ...	1				
Bits for the same ...	8				
Oil tanks, iron, large ...	2				
Do. do. small ...	2				
Iron padlocks for do. ...	6				
Storm signal lamps ...	4				
Brass locks ...	2				
Lock for store-room ...	1				
Oil casks, wood ...	2				
Brass taps ...	2				
Stop cocks, brass ...	2				
Gig with mast and sail ...	1	Un serviceable.			
Short canvas top for do. ...	1				
Minimum rule ...	1				
Ladders ...	4				
Rain gauges ...	2				

(Signed) R. G. C. WESTBROOK,
Port Officer.

Kárwár, 18th May 1892.

List of Articles of Dead Stock belonging to the Light-houses at Tadri, Kumta and other places in the Kárwár Range.

Names of Articles.	No.	Remarks.	Names of Articles.	No.	Remarks.
<i>Light-house at Tadri.</i>			<i>Light-house at Honore.</i>		
Lantern, large, with burners and chimneys ...	1		Wooden lamp mast with brackets, complete ...	1	
Wooden lamp-post with brackets, complete ...	1		Storm-warning signals (drums) ...	2	
Pair of scissors ...	1		Wooden yard for hoisting storm-warning signals with ropes, &c. ...	1	
Small lantern ...	1		Storm-warning lanterns, red ...	4	
Brushes ...	2		Lantern, large, with burners and chimneys ...	1	
Funnel ...	1		Scissor ...	1	
Lock ...	1		Hand lantern ...	1	
Wooden stool ...	1		Hemp rope, bundle ...	1	
Cover for lantern ...	1		Iron frame for hanging lanterns ...	1	
Box for the lantern ...	1		Brushes ...	2	
Iron hoe ...	1		Funnel ...	1	
Do. pick-axe ...	1		Powras ...	2	
Lantern ...	1		Chimneys ...	20	
Copper pots ...	9				
Rope for hanging lanterns ...	1				
(All in good condition.)			Additions since last report—		
<i>Light-house at Kumta.</i>			Wooden box for keeping lanterns ...	1	
As per last report—			Padlock, brass ...	1	
Signal mast with its appurtenances ...	1		Wooden stool ...	1	
Storm-warning drum ...	1		Cover for lantern ...	1	
Iron pick-axe ...	1		Pick-axe, iron ...	1	
Wooden yard for hoisting storm-warning signals with ropes, &c. ...	1		Lantern ...	1	
Lanterns, storm-warning ...	4		Copper pots ...	6	
Do. for the use of the men in charge ...	1		Iron powra ...	1	
Light-house, iron, with its appurtenances ...	1		<i>Article to be written off during the year 1891-92.</i>		
Glasses ...	2		Chimney ...	1	Being broken.
Chains ...	2		<i>Light-house at Bhatkal.</i>		
Tin box ...	1		Lantern, large, with burners and chimneys ...	1	
Brass burners ...	2		Hand lamp ...	1	
File, steel ...	1		Brushes ...	2	
Scissors ...	2		Rope ...	1	
Oil measures, copper 1 and tin 1 ...	2		Scissor ...	1	
Snuffers, iron ...	3		Iron rigging ...	1	
Firwood box ...	1		Wooden lamp-post with brackets, complete ...	1	
Brass screws ...	4		Funnel ...	1	
Iron screws ...	6		Glass chimneys ...	19	
Do. do. for chain ...	2		Instruments for turning screws ...	6	
Firwood box for keeping stores, &c. ...	1		Brass clock ...	1	
Chimneys ...	57		Additions since last report—		
Storm-warning signal ...	1		Box for keeping lanterns ...	1	
Spincers ...	3		Padlock for box for keeping lanterns ...	1	
Cooking copper pots ...	9		Wooden stool ...	1	
Iron basin ...	1		Cover for lantern ...	1	
Copper dish ...	1		Iron powra ...	1	
Lantern ...	1		Pick-axe, iron ...	1	
Hoe, iron ...	1		Hand lantern ...	1	
Ensign ...	1		Cooking copper pots ...	6	
Hour-glass ...	1				
<i>Articles written off during the year 1891-92.</i>			<i>Articles written off during the year 1891-92.</i>		
Chimneys ...	7		Nil.		
(The remaining articles are in good condition.)			(All in good condition.)		

E. H. AITKEN,
Assistant Collector of Salt Revenue.

Kárwár, 5th June 1892.

No. 412 of 1892.

FROM

SIR E. CHARLES K. OLLIVANT, K.C.I.E., C.S.,
Political Agent in Kathiawar;

TO

LIEUT.-GENERAL B. H. POTTINGER,
Secretary to Government,
Bombay.

MARINE DEPARTMENT.

Kathiawar Political Agent's Office,
Camp Veraval, 16th June 1892.

SIR,

With reference to Government Resolutions noted in the margin, I have the honour to forward herewith a statement showing particulars regarding the light-houses belonging to the Native States under this Agency for the official year 1891-92.

I have the honour to be,

Sir,

Your most obedient Servant,

E. C. K. OLLIVANT,
Political Agent in Kathiawar

Through the Secretary to Government,
Political Department,
Bombay.

Statement showing Particulars regarding Light-houses belonging to Native States in the Province of Kathiawar for the year 1891-92.

No.	Name of Light	Location.	Latitude N.	Longitude E.	Number and relative position of lights.	Colour of Lights.	Fixed, flashing, intermittent, or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Area of illumination (bearing in mind the position of the light).	Nature of construction, colour or any peculiarity of light-house.	Height in feet of building from base of water.	Character and order of illuminating apparatus.	Year lighted.	State of lighting conductors.	Remarks.
1	Hidder Point	On Road temple 2 1/2 miles S. E. part of Road at the mouth of the N. V. Nagar Creek.	22° 32'	69° 01'	1	White	F	..	7	125° or between the bearings of S. 45° E. and S. 45° W. by the North to S. W. by W. 4 W.	The light is carried on a small square tower, painted white.	42 0	Three common kerosene lamps.	1877	In good order, recently put up new copper tape in one place.	Erected by His Highness the Jam Sahib of Navar.
2	Karnabhar or Pata Pir.	At the entrance to the Tala Pir Creek on the westernmost point of the Island of Karnabhar.	22° 30'	69° 09'	1	White	F	..	10	227° or from S. 45° E. to S. 45° W. to S. 15° W.	Small square tower, painted white.	35 0	Two common kerosene lamps.	1884	In good order, put up last year new copper tape in one place.	Do.
3	Sarad Point.	Sea-face of town ..	21° 58'	69° 09'	1	White	F	..	15	From N. 45° W. to S. 45° E. to S. 15° W.	White stone tower.	50 0	Dioptric, 4th order.	1739 October 1885.	In good condition.	
4	Mangrol	On a bungalow situated opposite the Subcarriage.	21° 06'	69° 16'	1	White	F	..	5	Unknown	On the top of a square house with wooden roof having a dark appearance.	75 0	A country lantern containing five kerosene burning kerosene oil.	1877	No lightning conductor.	
5	Veraval	On the Veraval wharf.	21° 53'	69° 22'	1	White	F	..	10 or 12	120° seaward	White octagonal building in the form of a plain tower.	55 0	Dioptric, 4th order.	1885, altered 1886.	Do.	This light has been pronounced unsatisfactory, and complete reconstruction is being carried out. The new light is of the same height and is of the same diameter. It is of the same height and is of the same diameter. It is of the same height and is of the same diameter.
6	Jatridal	Near the mouth of the N. V. Nagar Creek, distant nearly 1 1/2 miles from the town.	21° 45'	69° 21'	1	White	F	..	6 (doubt)	..	The lantern is fixed at the top of a building specially constructed for the purpose. The building painted white and has two stories. The second, at the top of which the lantern is fixed, is a round one.	75 0	Seven 2-wick kerosene lamps in the form of seven pressed glass cylinders 4 inches diameter.	1876, altered 1884.	In good condition.	This light has been pronounced unsatisfactory, and complete reconstruction is being carried out. The new light is of the same height and is of the same diameter. It is of the same height and is of the same diameter. It is of the same height and is of the same diameter.
7	Mawa or Mahava	Mainland, on a prominent cliff, called Kadiwar near the entrance to the N. V. Nagar Creek.	21° 02'	69° 21'	1	White	F	..	13	300°	Masonry. The lantern is fixed on a square tower, painted white.	60 0	Dioptric, 4th order.	1871	Lighting conductor was laid on the 25th May 1881 and was found to be in good order.	For local purposes only.
8	Gopabli	Mainland, on a hill, 2 1/2 miles S. E. of the mouth of the N. V. Nagar Creek.	21° 35'	69° 12'	1	White	F	..	6	180°	Limestone-masonry tower.	61 7	Cathodic, 4th order.	1879	Lighting conductor was laid on the 25th May 1881 and was found to be in good order.	For local purposes only.
9	Elavangar	On the island at the mouth of the N. V. Nagar Creek.	21° 46'	69° 22'	1	White	F	..	8	300°	An iron cable, 12 feet square and 10 feet high, to the tower erected on the roof of which runs a wrought-iron ladder, made of high quality iron, of light, all painted white.	45 0	Dioptric, 4th order.	1891	Lighting conductor was laid on the 25th May 1881 and was found to be in good order.	For local purposes only.

E. C. K. OLLIVANT,
Political Agent in Kathiawar.

Kathiawar Political Agent's Office,
Camp Veraval, 11th June 1892.

No. 548 of 1892.

FROM

THE DEWA'N OF CAMBAY;

TO

THE SPECIAL POLITICAL AGENT,
Cambay.*Cambay Dewan's Office,
15th June 1892.*

SIR,

I have the honour to submit herewith the annual report on light vessels at Cambay for the year 1891-92.

The light is a fixed white light, and is exhibited during the fine weather, viz. from the 1st of October to the 15th of June. It consists of a large kerosine lamp without any reflector, and is attached to the mast-head of a wooden boat specially built for the purpose, and painted red.

The boat is anchored at the mouth of the creek to mark the shifting of the harbour, and is in the same position as it occupied during the last year. A coloptric light was provided for it in the beginning of the season, but the arrangement did not succeed, and the use of the older lamp was again resorted to.

The height of the lantern above the high-water level is 25 feet, and the light is visible in clear weather from some 8 miles.

The light was exhibited regularly every night during the above period, and no complaint in connection with it was received from any quarter.

The cost of maintaining it amounted to Rs. 161 as against Rs. 157 in the previous year.

No ship was wrecked or damaged in the Cambay creek in the year under report.

I have, &c.,

(Signed) KESHAVLA'L HIRA'LA'L
Dewan.

No. 652 of 1892.

*Special Political Agent's Office,
Cambay, 15th June 1892.*

Forwarded with compliments to the Collector and Political Agent, Kaira, with reference to his Nos. 1886 of 6th May 1892 and 2276 dated 7th June 1892.

(Signed) W. P. KENNEDY, Major,
Special Political Agent,
Cambay.

(True Copy.)

H. R. COOKE,
Collector and Political Agent.

Statement showing description, &c., of the Light-house in Cambay State during the year 1891-92.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Number.	Name of Light.	Location.	Latitude N.	Longitude E.	Number and relative position of Lights.	Colour of Light.	Fixed, flashing, intermittent, alternating or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Number.	Area of illumination.	Nature of construction, colour or any peculiarity of Light-house.	Height in feet of centre of lantern above high water.	Height in feet of flagpole from base to vane.	Character and order of illuminating apparatus.	Year lighted.	Remarks regarding condition.
1	Cambay Harbour light vessel.	In the harbour of Cambay at the mouth of the creek.	23° 16' 50"	72° 37' 40"	1	White.	Fixed.	1	8 to 10 miles.	28	.	Wooden boat painted red.	25 feet.	25	A ship's fore mast lantern.	November 1885.	* Please refer to endorsement No. 1886 dated 6th May 1892, from the Political Agent, Kaira, to the Dewan of Cambay, a report from the Dewan No. 548, dated 15th June, copy of which is hereto appended. A coloptric light was provided for in the beginning of the season, but the arrangement did not succeed, and the use of the old lamp was again resorted to, and the light was exhibited from 1st October to the 15th of June.

No. 2445 of 1892.

Kaira, 20th June 1892.

Submitted with compliments to the Secretary to Government, Political Department, Bombay.

H. R. COOKE,
Collector, Kaira.

Through the Commissioner, N. D.

No. 447 of 1892.

POLITICAL DEPARTMENT.
Ahmedabad, 23rd June 1892.

Forwarded.

W. W. LOCH,
Acting Commissioner, N. D.

Received from
Marine Dept
(Madras)

Recd: 12.8.92

No. 2320 W. of 20 August 1892

Recorded.
Recd.

0013
17.8.92

See

14

14

0/16/8

St. 125-8
M. 18-8
220.8-92
J. 24/8.
X.C. 23/8