(1) பக்கங்களின் எண்ணிக்கை 34

(2) புதுக்கித் திருப்பிய நாள் 12.90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

63

தமிழ்நாடு அரசு

P.W.D. துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 2536

அச்சகம்
பலவகை

நாள் : 21-9-1891 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

17 sheets.

ஆவண. கா-1—18,000—15-6-87.

2536/1

ANNUAL REPORT OF THE PORT OFFICER, KARA'CHI, ON THE LIGHT-HOUSE AT MANORA, FOR THE YEAR ENDING 31ST MARCH 1891.

The light is a fixed first 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.

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

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.

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.

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

On the 5th of February last, the heavy guns of the batteries on Manora were fired in connection with the rehearsal of the scheme for the defence of this port, and although no precautions were taken beyond watching the effect, no damage was sustained either by the lantern or apparatus.

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

The number of visitors to the light-house during the year under review was 231.

The usual ordinary repairs to the buildings were effected during the year under review at a cost of Rs. 153.

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

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 :—

Statement showing the Establishment entertained at the Manora Light-house during the year ending 31st March 1891.

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 lascars, at Rs. 11 each	6	66 0 0	
For 12 months @ ...		179 0 0	2,148 0 0
Cost of provisions, wood and water ...			824 2 5
Total for Establishment ...			2,972 2 5

B 575—1

2. The light was burning full power (all six wicks) all night for eleven nights, and from midnight for five nights in consequence of foggy rainy weather.

3. Highest temperature registered in the lantern was 126° on the 6th of May. Health of establishment good. Number of chimneys broken eight.

4. The number of visitors during the year was 247. His Excellency Lord Harris, Governor of Bombay, and party visited the station on the 10th of April, while *en-route* to Bombay in the Indian Government Steamer "*Tenasserim.*"

5. On the 14th September four fishermen were picked up from a capsized boat and landed.

There is no record of any birds having been killed.

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

Sunk Rock.—The light was exhibited for 4,156 hours, being an average of 11 hours and 23 minutes per night. The quantity of cocoanut-oil consumed in the exhibition of the light was 722 gallons, an average of 27 fluid ounces per hour.

2. Highest temperature registered in lantern was 124° on the 14th October. Number of chimneys broken 28. Number of visitors 25. Water-supply during the monsoon plentiful. The lightning conductor was tested on the 4th of April and found in good order.

There is no record of any birds having been killed.

Health of staff has been good.

On the 16th January 1891, a native boat collided with the light-house, damaging the signal boon, which was repaired by the Engineer's Department.

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

Dolphin Light.—The light was exhibited for 4,156 hours, or an average of 11 hours and 23 minutes per night. Quantity of cocoanut-oil consumed 125 gallons 3¾ pints, being an average of 4·7 fluid ounces per hour.

The number of chimneys broken was six.

Highest temperature 124° on the 14th of October.

The health of the establishment was good.

The Tindal was granted one month's leave without pay in October.

Light Vessel, Bombay.—The light was exhibited 4,060 hours, being an average of 11 hours per night. 548 gallons of cocoanut-oil was consumed, giving an average of 20 fluid ounces per hour.

The number of chimneys broken was 107.

The temperature has never been taken, there being no portable thermometer on board. Number of visitors twelve, exclusive of the Trustees' official inspection on the 2nd December.

There is no record of any birds having been killed.

I have, &c.,

(Signed) HENRY MORLAND, Kt., Captain, I. M.

REPORT ON THE LIGHT-HOUSES AND LIGHT-SHIP UNDER THE CHARGE OF THE PORT OFFICER, ADEN, FOR THE YEAR ENDING 31ST MARCH 1891.

Ras Marshag Light-house.

This light-house is inspected by me monthly.

The structure and outhouses are in good order.

The new pressure lamp constructed by Messrs. Chance Brothers to burn heavy mineral oil was put up on the 4th July 1890, and is now working well and giving no trouble, the cylinders or chimneys seldom crack by the heat, and on

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this head alone a good saving is effected; total cost of lamp, erection, &c., was Rs. 1,868; this includes 50 chimneys and 50 wicks.

The establishment was reduced by one lascar at Rs. 22 per mensem, from 21st December 1890.

The health of the light-keepers has continued good.

Stores expended as follows:—

Oil, cocoanut	Gals.	201
Wicks, No. 1	No.	34
Do. „ 2	„	34
Do. „ 3	„	34
Do. „ 4	„	34
Chimneys	„	5
Chalk	Lbs.	50
Soap	„	50
Dungari	Yds.	100
Matches	Boxes	72
Leather, chamois	No.	12
Cotton waste	Lbs.	15
Mineral oil	Gals.	387
Chimneys for new pressure lamp	No.	13
Wicks for do.	Yds.	5

(For old lamp.)

Aden Light-ship.

Frequent visits are made to this vessel. The repairs carried out last year seem to have been very effective, as in spite of an unusual heavy monsoon, the vessel has kept staunch and tight.

The light has worked well throughout the year.

No change has occurred in establishment. The Tindal in charge was granted three months' privilege leave, commencing from 13th January 1891.

The health of the crew has been fairly good, one case of Biri Biri occurring.

The expenditure of stores is as follows:—

Oil, cocoanut	Gals.	288
Wicks	No.	738
Chimneys	„	32
Soap	Lbs.	48
Plate powder	No.	12
Dungari	Yds.	93
Chamois leather	No.	6
Spirit of wine	Bottles	10
Matches	Boxes	72
Cotton waste	Lbs.	96

Telephonic communication between the light-ship and shore has been established for the use of the different Shipping Agents.

Mr. Douglass, the officer appointed by Government to inspect all the Indian light-houses, visited the above lights in April 1890—*vide* his report to Government forwarded with Government Resolution No. 271 of 4th November 1890.

Perim Island Principal Light-house.

This station has been visited three times during the year, once with Mr. Douglass, the officer appointed by Government to inspect, and twice on inspection by me.

The light-house and quarters are in good order.

Mr. Jemsetji Merwanji was in charge from 15th September 1890 to 18th March 1891, when he was removed suffering from fever, &c., on the recommendation of the medical officer visiting the military outposts. From 19th March to 3rd April 1891 the Tindal was in charge.

Stores were expended as follows:—

Oil, cocoanut	Gals.	635½
Wicks	No.	1,390
Chimneys	„	275
Chalk	Lbs.	7½
Bath bricks	No.	4

Soap	...	...	...Lbs.	20
Flannel	...	...	...Yds.	5
Dungari	...	...	... „	100
Matches	...	...	...Boxes	29
Cotton yarn	...	...	...Lb.	1
Spirit of wine	...	...	...Gals.	5½
Leather, chamois	...	...	...No.	11
Rouge	...	...	...Lb.	½
Brooms, Goa	...	...	.. No.	14
Cotton waste	...	...	...Lb.	70

PERIM OCCULTING LIGHT.

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

Stores expended are as follows :—

Mineral oil	...	...	...Gals.	73
Wicks	...	...	...Yds.	10½
Chimneys	...	...	...No.	21
Dungari	...	...	...Yds.	40
Cotton waste	...	...	...Lbs.	23
Matches	...	...	...Boxes	20
Brooms, Goa	...	...	...No.	10

BERBERA AND BULHAR LIGHT-HOUSES.

These lights are in charge of the Political Agent and Consul, Somali Coast, but are inspected by me. The Berbera lights were visited twice, but at Bulhar on first round of the Government steamer, the vessel did not call as the swell was too heavy ; on second visit the ship's boats could not land without risk.

Stores are supplied by the Port Department on requisitions. The quantity expended as per returns is as follows :—

Berbera Light.

Oil, cocoanut	...	...	...Gals.	92
Wicks	...	...	...Yds.	19
Chimneys	...	...	...No.	16
Spirit of wine	...	...	...Bottles	2¼
Matches	...	...	...Dozen	6
Whiting	...	...	... ...	...
Soap	...	...	...Lbs.	43
Dungari	...	...	...Yds.	54
Chamois leather	...	..	...No.	3
Cotton waste	...	...	...Lbs.	46

Berbera Harbour Light.

Oil, mineral	...	...	...Gals.	47
Wicks	...	...	...Yds.	14
Chimneys	...	...	...No.	8
Spirit of wine	...	...	...Bottle	1
Matches	...	...	...No.	50
Whiting	...	...	...Lbs.	9
Soap	...	...	... „	7
Chamois leather	...	...	...No.	3
Dungari	...	...	...Yds.	15

Bulhar Light.

Oil, mineral	...	...	...Gals.	48
Chamois leather	...	...	...No.	2½
Wicks	...	...	...Yds.	10
Spirit of wine	...	...	...Bottles	2
Matches	...	...	...No.	40
Dungari	...	...	...Yds.	7½
Whiting	...	...	...Lbs.	7
Soap	...	...	... „	8
Chimneys	...	...	...No.	5

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

Aden, 15th April 1891.

2536/11

No. 1725.

FROM
H. E. WINTER, ESQUIRE,
Political Agent, Kolaba ;

To
THE SECRETARY TO GOVERNMENT,
Political Department.

Pen, 24th April 1891.

SIR,

With reference to Government Resolution No. 1962 of 5th April 1886, I have the honour to forward herewith a report from the State Kárbhári, Janjira, on the light-house at Nánowli on Rájpuri Point, for the official year 1890-91.

2. A statement showing the causes of increase in expenditure during the year 1890-91, as compared with the preceding year 1889-90, accompanies.

I have the honour to be,
Sir,
Your most obedient Servant,
H. E. WINTER,
Political Agent, Kolába.

Through the Commissioner, Southern Division.

No. 172 OF 1891.

FROM
THE STATE KÁRBHA'RI,
Janjira ;

To
H. E. WINTER, ESQUIRE, C. S.,
Political Agent, Kolába.

State Kárbhári's Office,
Murud-Janjira, 8th April 1891.

SIR,

In compliance with Government Resolution No. 134 (Marine Department), dated 20th March 1886, I have the honour to report that the fixed white light at Nánowli on Rájpuri Point, which is of the 4th order dioptric, was maintained in a thoroughly efficient state during the official year 1890-91.

2. The building and the lighting apparatus continue to be in perfect order. In April 1890 the lightning conductor of the light-house was tested by an Overseer of the Bombay Public Works Department deputed for the purpose, and after repairs was reported to be in a satisfactory condition. The tower was also repaired and whitewashed during the year.

3. The light was regularly exhibited from its white masonry tower throughout the 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 on the exibition of the light.

4. The working establishment consisted, as usual, of one head light-keeper and two subordinate light-keepers, who all enjoyed good health during the year.

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

	Rs.	a.	p.
Establishment	374	11	3
Cocoanut-oil	216	0	0
Whitewashing and petty repairs	123	8	2
Contingencies	433	0	0
Total Rs. ...	1,147	3	5

I have the honour to be,
Sir,
Your most obedient Servant,
SHALOM BAPUJI,
State Kárbhári, Janjira.

Statement showing the details of expenditure incurred for the maintenance of Light-house at Nánowli in the Janjira State during the year 1890-91.

Items.	1889-90.	1890-91.	Increase.	Causes of increase.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Establishment ...	312 0 0	374 11 3	62 11 3	The excess of Rs. 62-11-3 during 1890-91 was due on account of the pay and travelling allowance of an Overseer of the Bombay Public Works Department, who had been twice to Nánowli for testing the lightning conductor.
Cocoanut-oil	198 0 0	216 0 0	18 0 0	The excess on account of cocoanut-oil charges was due to the enhanced prices for oil during the year 1890-91.
Whitewashing and petty repairs.	36 11 1	123 8 2	86 13 1	The excess of Rs. 86-13-1 was due to the making improvements in the lightning conductor as suggested by the Overseer of the Bombay Public Works Department specially deputed by Government to examine the lightning conductor.
Contingencies... ...	37 12 0	433 0 0	395 4 0	Out of Rs. 433 spent on account of contingencies, Rs. 393-12-0 were paid for purchasing 600 feet of new wicks and Rs. 39-4-0 for ordinary stores, such as cotton yarn, dungari, leather chamois, spirit of wine, rum, soap, matches, &c. The new wicks obtained from England during the year will last for more than four years; the quantity of wicks used in a year being 144 feet.

SHALOM BAPUJI,
State Kárbhári, Janjira.

State Kárbhári's Office,
Murud-Janjira, 18th April 1891.

No. 5559 of 1891.

From

General Sir H. N. D. PRENDERGAST, K.C.B., V.C., R.E.,
Agent to the Governor General at Baroda;

To

The SECRETARY to GOVERNMENT,
Political Department, Bombay.

Dated Baroda, 21st May 1891.

Sir,

I have the honour to forward the annual reports on the light-houses in Baroda territory for the year ending 31st March 1891, submitted by my Assistants in Amreli and Okhamandal.

2. Mr. Douglass' suggestions regarding these light-houses are under consideration.

I have the honour to be,
Sir,
Your most obedient Servant,
G. E. HYDE CATES, Captain,
for Agent to the Governor General at Baroda.

2536/5

No. 186 of 1891.

From

Lieut.-Colonel F. H. JACKSON,
Assistant Agent, Governor General,
Amreli;

To

General Sir H. N. D. PRENDERGAST, R.E., K.C.B., V.C.,
Agent to the Governor General,
Baroda.

Amreli, April 16th, 1891.

Sir,

I have the honour to make the report on the Madhwa Light-house for the year ending on the 31st March 1891.

2. The light-house is in good condition. No important damage, either to the structure or to the apparatus, has occurred. Minor repairs to the keepers' houses have been executed, and the tower has been whitewashed.

3. When Mr. Douglass visited this light he reported the supervision to be good (*vide* his report dated 19th June 1890), although he found the ventilation faulty, and the apparatus not quite good enough. There have, however, never been any complaints from seafaring people that the light is not good enough. The supervision for the year 1890 and up to 31st March 1891 was as follows:—

Visitor.	Date of visit.
The Suba of Amreli...	17th May 1890.
Vahivátdár of Khodinár	17th May 1890 and two other occasions.
The Sir Suba of Baroda on tour ...	9th February 1891.
The Naib Suba of Kodinár ...	17th October 1890 and 9th February 1891.

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

	Rs. a. p.	Rs. a. p.
Cost of oil per annum	218 8 0	
Contingencies at Rs. 4 a month	48 0 0	
		266 8 0
Establishment.		
Head keeper at Rs. 20 per month, per annum	240 0 0	
Two Assistant keepers at Rs. 12 each per month, per annum	228 0 0	
		528 0 0
Total per Annum Rs. ...		794 8 0

I have the honour to be,
Sir,
Your most obedient Servant,
F. H. JACKSON, Lieut.-Colonel,
Assistant Agent, Governor General, Amreli.

No. 84 of 1891.

From

The ASSISTANT to the AGENT
to the GOVERNOR GENERAL,
Okhámandal;

To

The AGENT to the GOVERNOR GENERAL,
Baroda.

Dwárka, 13th May 1891.

Sir,

I have the honour to submit the following report on the Dwárka and Sayani Light-houses for the year 1890-91.

2. Both lights are in good working order and the towers are in good repair.

3. The cost of the two establishments is defrayed by the Baroda State. The particulars of expenditure furnished by the Dwárka Vahivátdár are as follows:—

Dwárka Light-house.

	Rs.	a.	p.
Two keepers (1st and 2nd) at Rs. 12 and 7 respectively.	228	0	0
Cost of cocoanut-oil	214	2	1
One Dhobi at 6 annas per mensem	4	8	0
	446	10	1

Sayani Light-house.

Three keepers (1st, 2nd and 3rd) at Rs. 12, 9 and 7 respectively	336	0	0
Allowance for carrying water to Sayani Island at Rs. 2. per mensem	24	0	0
Cost of cocoanut-oil	155	11	11
Boat-hire	19	0	6
New curtain and chamois leather	7	4	8
Cost of two new brass burners and repairs to old one...	102	6	8
Chunam painting to tower	100	0	0
	744	7	9
Total Expenditure ...	1,191	1	10

4. The Dwárka light is a fixed white dioptric of the 4th order. Illumination arc 180°. The bearings of the limits of the arc lie between 18° N.W. and 18° S.E. No records having been furnished by the Marine Department. These bearings must be considered approximate only.

Sayani Light-house.

5. *Description.*—Dioptric 4th order. No portion of this light is observed. It gives an illumination arc of 360°.

6. A red ray is shown over the Chiuri reef between the bearings of S 37° 30″ W and S 67° 30″ W. Sayani is an island at the entrance of the Beyt harbour, latitude 22° 29′ 18″ N., longitude 69° 04-41″ E. The above figures were furnished by the Indian Marine Department in June 1883.

7. Sanction has recently been given for repainting the two light-houses, and the work will be shortly carried out by the State Public Works Department.

8. Neither of the buildings are furnished with lightning conductors.

I have the honour to be,
Sir,
Your most obedient Servant,
H. HARRISON,
Assistant to the Agent to the Governor General.

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No. of 1891.

Ra'o Baha'dur MOTILAL LALBHAI,
Diván of Cutch, Bhúj.

Mándvi, 5th April 1891.

Sir,

I have the honour to submit my annual report ending official year 1890-91 for lights and light-houses.

The Mándvi light is a fourth order holophotal revolving white light, group flashing, giving three flashes at short intervals every 30 seconds, and is visible 18 miles. It has been kept in good order, and has been burning well and brightly throughout the year.

The only change in the establishment is the appointment by His Highness of a man to look after the machinery. The men in charge of the light-house have done their work satisfactorily.

The following is the expenditure of establishment and oil, &c., for the year under report:—

	Rs.	a.	p.
Establishment	420	5	1
Oil and contingencies	328	6	0
Fixing new light and lantern	97	9	6
Total ...	846	4	7

Port Light at head of Breakwater, Mándvi.—This light, owing to some repairs to Breakwater, was extinguished for a few months, but was re-lighted in March, of which due notice was given to the Marine Department.

It is a fixed 6th order dioptric red light, height of focal plane 31·5 feet above mean sea-level.

The cost of this light for the time it was exhibited is as under:—

	Rs.	a.	p.
Oil and contingencies	10	12	7
Painting	25	4	0
Total ...	36	0	7

Navinall.—This temporary light has continued to burn well and cost Rs. 242-10-0.

The tower will be finished this year and the fourth order catadioptric light which used to burn at Mándvi will be placed in position.

I have the honour to be,
Sir,
Your most obedient Servant,
(Signed) C. M. SYKES, A.M.I.C.E.,
Superintendent, Harbour Works, Cutch-Mándvi.

No. 7 of 1890-91.

To

Ra'o Baha'dur MOTILAL LALBHAI,
Diván of Cutch,
Bhúj.

Bhúj, 10th April 1891.

Sir,

I have the honour to submit the annual report on the Tuna Light-house for the year ending 31st March 1891.

During the year under report petty repairs were executed to the light-house building and the store-room and a canvas curtain was provided to the lantern at a total cost of Rs. 82.

No change has occurred in the establishment, which was in good health throughout the year.

The present light is a common lamp light fixed on a stone building, and is 17 feet 3 inches high above high water and visible about six miles. The total expenditure for the up-keep of the light-house during the year comes to Rs. 429, as detailed below :—

	Rs.
Wages of two men with boat	... 220
Cocoanut-oil, wicks and contingencies ...	... 209
Total ...	429

I have the honour to be,
Sir,
Your most obedient Servant,
(Signed) HATHIRAM TRIKAMJI,
In charge State Engineer.

No. 412 of 1891.

To
COLONEL F. M. HUNTER, C.B., C.S.I.,
Political Agent,
Cutch.

Cutch Diván's Office,
Bhúj, 24th May 1891.

SIR,

With reference to your letter No. 531 of the 8th instant, I have the honour to inform you that it appears from further reports received from the officers concerned that the lightning conductor attached to the Mándvi Light-house last year is in good order, and an instrument for testing it has been ordered. The Tuna light, it is stated, has no conductor attached to it.

I have the honour to be, &c.,
(Signed) RANNCHHODABHAI M.,
for Diván of Cutch.

No. 329 of 1891.

FROM
THE DIVA'N OF CAMBAY;

To
THE SPECIAL POLITICAL AGENT,
Cambay.

Cambay Diván's Huzúr Office,
10th June 1891.

SIR,

I have the honour to submit the annual report on the light-vessel at Cambay for the year 1890-91.

2. The description of this light-vessel, as given in the late Diván's letter No. 268, dated 2nd March 1890, and published under No. 38 in the list of light-

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houses and light-vessels in British India corrected up to the end of 1889, is incorrect in certain respects, and I think I cannot do better than bring the inaccuracies to notice in this place.

(1) The light is a fixed *white* light, not red as stated in column 7 of the list.

(2) The number of miles from which the light is visible in clear weather is not 3, as mentioned in column 10 of the list, but varies from 8 to 10 miles according to the report of the traders making the creek of Cambay. The latter number appears to be nearer to the truth than the former according to the table of distances printed on the 3rd page of the list.

(3) The arc of illumination cannot possibly be 220°, as given in column 12 of the list. There is no arc, as a matter of fact, for a large kerosine lamp, without any reflector, is exhibited from the mast-head of a boat (built specially for the purpose and stationed or anchored at the mouth of the creek) ; and the light is shed on all sides except the one occupied by the mast.

(4) The height of the centre of the lantern above the high water-level is 25 feet, not 15 as given in column 14 of the list.

3. During the period under report from the 1st October to the 15th June *i. e.*, 8½ months, the light was regularly exhibited every night, and no complaint as to its range of visibility or about any other matter was received from any quarter.

4. It was maintained by two Lascars at a monthly cost of Rs. 18 (Cambay currency), equal to Rs. 14-6-6 (British currency), including the charges for kerosine-oil, wicks, &c.

5. With reference to the Government Resolutions mentioned in the margin directing that "the limits of the arc of illumination should show the bearings by compass as well as the number of degrees in azimuth," I have the honour to state that whereas, in the case of Cambay, the light consists only of an exposed kerosine lamp without any reflector, it is not worth the while to make endeavours for collecting this information which cannot but be imperfect after all.

No. 62 of 5th March 1891, Marine Department.
No. 105 of 25th April 1891, Marine Department.

6. In conclusion I beg to add that steps are in progress for providing a catoptric light for the light-vessel, and that the new light will be brought into use from the 15th October next.

I have, &c.,
(Signed) KESHAVLAL H.,
Diván of Cambay.

No. 318 of 1891.

Special Political Agent's Office,
Cambay, 11th June 1891.

Forwarded to the Collector of Kaira with compliments.

Looking to the description and unpretending character of this light, I concur in the Diván's views as expressed in paragraph 5.

When the present lamp is replaced by something more orthodox, Government will be called to depute some one to make the necessary observations if they cannot be made locally.

Evidently the light has undergone much modification since it was first established and should in future be more correctly described.

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

B 573—4

Statement showing description, &c., of the Light-house in Cambay State during the year 1890-91.

1	Number.	Name of Light.	Location.	Latitude N.	Longitude E.	Number and relative position of Lights.	Colour of Lights.	Fixed, flashing, intermitting, alternating or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Arc of illumination (bearings are magnetic and from seaward).	Nature of construction, colour, or any peculiarity of Light-house.	Height in feet of centre of Lantern above high water.	Height in feet of Building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	State of Lightning conductors.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	Cambay Harbour light vessel.	In the Harbour of Cambay.	22° 16' 50"	72° 37' 40"	One.	White.	Fixed.	...	Varies from 8 to 10 miles.	33	...	Wooden boat painted red.	23' 6"	29	A ship's foremast lantern.	November 1885.		Condition good. With reference to information required to be filled in column 12 please refer to Enclosure No. 113, dated 11th June 1891, from the Special Political Agent, Cambay, on a report from the Bystar, No. 329, dated 1891 idem, herein appended. Steps are in progress for providing a catoptric light for the light-vessel and the new light will be brought into use from the 15th October 1891.

No. 583 of 1891.

FROM

COLONEL G. E. HANCOCK,
Acting Political Agent,
Káthiáwár;

To

THE SECRETARY TO GOVERNMENT,
Marine Department,
Bombay.

Káthiáwár Political Agency,
Rájkot, July 9th, 1891.

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 1890-91.

No. 134, dated the 20th March 1886.
No. 274, dated the 4th September 1889.
No. 208, dated the 21st August 1890.

I have the honour to be,
Sir,
Your most obedient Servant,
G. E. HANCOCK, Colonel,
Acting Political Agent.

Statement showing particulars regarding Light-houses belonging to Native States in the Province of Káthiáwár for the year 1890-91.

No.	Name of Light.	Location.	Latitude N.	Longitude E.	Number and relative position of Lights.	Colour of Lights.	Fixed, flashing, intermitting, alternating, or revolving.	Interval of revolution or flash.	Miles visible in clear weather.	Arc of illumination (bearings are magnetic and from seaward).	Nature of construction, colour, or any peculiarity of Light-house.	Height in feet of centre of Lantern above high water.	Height in feet of Building from base to vane.	Character and order of illuminating apparatus.	Year lighted.	State of Lightning conductors.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Bálár Prádt.																	
1	Rajl or Nayál.	On Rajl temple N.E. part of Hoji Island at the mouth of the Narbadá creek.	22° 32'	72° 10' 0"	1	White ..	F ..	..	7	120°, or between the bearings of S.E. round by E. 1 E., round by the North to S. W. by W. 1 W.	Stone masonry white ..	42' 0"	50' 0	Three common kerosine lamps.	1867 ..	In good order, recently put up new copper tape in one piece.	Erected by His Highness the Jam Sáhib of Navánagar.
2	Kanmbhár Pála Tár.	At the entrance to the Pála Tár Creek on the westernmost point of the Island of Kanmbhár.	22° 35'	72° 09' 54"	1	White .	F ..	..	10	257° or from S. 25° W. through South to N. 18° W.	Stone masonry white square tower, painted white.	30' 0	36' 0	Two common kerosine lamps.	1884 ..	In good order, put up last month, new copper tape in one piece.	Do. do.
	Scratch Prádt.																	
3	Pochandar ..	Entrance of town ..	21° 38'	72° 00' 30"	1	White ..	F ..	..	15	From N. 48° W. through North to S. 48° E.	Stone masonry white stone tower ..	90' 0	73' 0	Dioptric, 4th order.	17th October 1887.	In good condition.	
4	Mángrol ..	On a bungalow standing on the top of a square building with wooden roof and having a dark appearance.	21° 06'	0° 70' 15"	1	White ..	F ..	..	4	Unknown ..	Stone masonry white ..	45' 0	73' 0	A country lantern containing five burners burning kerosine-oil.	1877 ..	No lightning conductor.	
5	Verával ..	On the Verával wharf.	20° 53'	70° 22'	1	White ..	F ..	..	10 or 12	180° seaward ..	White, octagonal building with two outside galleries in the form of a plain tower.	50' 0	60' 0	Dioptric, 4th order.	1365, altered 1576.	Do.	
6	Jáfaráb ád ..	Near the mouth of the creek, distant nearly 1½ miles from the town.	20° 47'	0° 71' 72"	1	White ..	F ..	..	12	.....	The lantern is fixed at the top of a building specially constructed for the purpose. The building, painted white, has been square, and the second, at the top of which the lantern is fixed, is a round one.	75' 0	90' 0	Five dioptric lights, four in a circle and one in the centre.	1876, altered 1884.	In good condition.	
	Gohelwár Prádt.																	
7	Moya ..	On the fernden roof of the light keeper's residence, situated on a low eminence at the south-west corner of the entrance, Moya Creek.	21° 02'	71° 48'	1	White ..	F ..	..	13½	All round the compass.	Stone masonry white ..	99' 0"	36' 0"	Catoptric, 3rd order.	1871 ..	Lightning conductor fixed on the 27th May 1891 and was found to be in good order.	For local purposes only.
8	Gopnáth ..	On a hillock, 350 yards inshore, of Gopnáth Point.	21° 11'	71° 52'	1	White ..	F ..	..	6	180° ..	Stone masonry white ..	67' 7"	82' 6"	Catadioptric, 6th order.	1879 ..	Do. examined on the 9th June and was found to be in good order.	Constructed and maintained by the Bhávnagar Darbár for the safety of the entrance to Bhávnagar Creek. Erected specially to mark the Gopnáth reef.
9	Bhávnagar ..	On the mainland at the entrance to the Bhávnagar Creek.	21° 46'	72° 14'	1	White ..	F ..	..	4	All round the compass.	Timber pole ..	35' 6"	31' 4"	Ship's lantern ..	1871 ..	No lightning conductor.	For local purposes only.

Káthiáwár Political Agency,
Rájkot, July 9th, 1891.

G. E. HANCOCK, Colonel,
Acting Political Agent.

2536
8

No. 3025 of 1891.

From

J. POLLEN, Esquire, C.S., LL.D.,
Acting Collector of Salt Revenue,
Bombay;

To

W. W. LOCH, Esquire, C.S.,
Acting Commissioner of Customs,
Salt, Opium and Abkári,
Bombay.

Poona, 13th June 1891.

Sir,

I have the honour to submit the annual report on the light-houses under the supervision and control of this Department for the official year 1890-91.

2. There are in all 22 sea and harbour lights, out of which 7 are in the Northern and 15 in the Southern Division. Three new lights have been exhibited during the year under report on the Kánara Coast.

3. I append a statement, similar to the one furnished last year, giving a detailed description of each light with the cost of its exhibition and maintenance. The only points calling for special notice are the following:—

Lights in the Northern Division.

4. *Deojagan Light.*—The wooden structure, on which stood the old lantern belonging to this light, was sold by the Executive Engineer during the year under report, and the value realized amounted to Rs. 55-10-0, which has been credited to the Northern Ports Fund.

5. *Perim and Tapti Lights.*—As the question of using kerosine-oil for these lights is still under consideration, the new burners received from Messrs. Chance Brothers (referred to in paragraph 5 of last year's report) could not be utilized during the year now being reported on.

Lights in the Southern Division.

6. *Anjanvel or Tolkeshwar Light.*—It is satisfactory to find that no complaints were made by the Commanders of Messrs. Shepherd and Company's coasting steamers this year as to insufficiency of light in this light-house, and due provision has been made in the current year's budget to remedy the want of accommodation for establishment, &c., noticed in last year's report (paragraph 6).

7. *Vengurla Rock Light-house.*—Mr. Douglass, the special officer deputed by the Government of India to visit light-houses, &c., has pointed out certain defects in the construction of the Vengurla Light-house building, and has, at the same time, made several suggestions for improving and increasing the power of this important light. His proposals are being separately considered, and the revised plans and estimates called for from the Executive Engineer, Ratnágiri, for the several improvements are still awaited.

8. *Tadri, Honávar and Bhatkal.*—The mast-head lights for these ports referred to in paragraph 12 of last year's report were set up during the year under report, and the lights were exhibited for the first time on the 27th January 1891, the 21st March 1891 and 10th December 1890, respectively. The sanction of Government to the entertainment of additional establishment for the maintenance of these lights was not obtained during the year, and the lights were temporarily in charge of men deputed from other establishments.

9. *Oyster Rock Light-house.*—The light-keeper brought to notice the leaky condition of the roof and walls of the tower, and on the matter being reported to the Public Works Department the repairs, required to remedy the defects, were undertaken by the Executive Engineer concerned.

10. The work of the Committee alluded to in paragraph 9 of last year's report has, owing in part to the changes in the office of Collector, made little

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progress. I myself took over charge too late in the season to do anything; but I find my predecessor, Mr. Wingate, has left on record a note dated 29th October 1890, to the following effect:—

> "I have to-day seen Sir Henry Morland and he concurs with me in thinking it useless to call another committee meeting, until—
>
> (*a*) the Committee have had an opportunity of perusing Mr. Douglass' promised report with special reference to his remarks in paragraph 7 of the preliminary report quoted in Government Resolution No. 363, Marine Department, dated 19th December 1889, or
>
> (*b*) the Committee have had an opportunity of visiting the places for which lights and beacons are proposed."

The visit which the Collector, in company with the Committee, proposed to pay to the coast in November last had unfortunately to be postponed owing to the inability of one of the members to attend. But Mr. Douglass' long expected report has now been received and Mr. Wingate's personal inspection of the coast, supplemented by certain information supplied by Mr. McCann, has rendered possible the formulation of certain proposals to be laid before the committee as soon as local officers have discussed them. This course will lighten the labours of the committee, and enable them to come to a definite conclusion without further delay or prolonged discussion.

11. The question as to the suitability of heavy mineral-oil flashing 250° for lights in this Presidency has not yet been disposed of.

12. Mr. Douglass' report contains many useful comments on the present system and suggestions for improving it; and, as already reported in this office No. 1072, dated the 11th March last, several of his suggestions have been, or are being, acted upon, so far at least as existing light-houses are concerned. But, in addition to existing lights, he has recommended the exhibition of new lights at the following places:—

1. Revdanda.
2. Bánkot.
3. Harnai.
4. Jaygad.
5. Devgad.
6. Tadri.
7. Honávar.

As already noted above in paragraph 2, new lights have been put up at the ports of Tadri and Honávar, and the claims of the other places named are being considered with reference to their relative importance and the funds at the disposal of the department for the purpose.

13. The Superintending Engineer, Northern Division, and the Chief Engineer, Southern Division, have both reported that the lightning conductors attached to light-houses in those divisions were duly inspected and tested by a subordinate of the Public Works Department, and that they were found to be in good order. Mr. Douglass having criticised the method of fixing lightning conductors at the several stations, inquiry is now being made as to whether those belonging to the Salt Department are open to similar criticisms.

14. All the lights and light-houses have been efficiently maintained and kept in good repair. They have been repeatedly visited and inspected during the year by the Coast Guard Inspectors and by the Assistant Collectors in charge of the different ranges, while Mr. Wingate himself inspected the Vengurla Rock and the Oyster Rock Light-houses. The various members of the light-house establishments have, on the whole, worked well, and the few irregularities reported have been promptly and duly dealt with.

I have the honour to be,
Sir,
Your most obedient Servant,

J. POLLEN,
Acting Collector of Salt Revenue.

B 575—5

No.	Nature of Particulars required.	Bulsár.	Tápti.	Bhagvádándi.
1	Latitude and longitude	20° 37' 15" N. 72° 58' 0" E.	21° 1' 0" N. 72° 37' 0" E.	21° 19' 30" N. 72° 34' 30" E.
2	General description of position.	At the mouth of Anrunga River in the Gulf of Cambay.	At the mouth of the Tápti River (north side) in the Gulf of Cambay.	On spot of land or mound to westward of Bhagvádándi village.
3	Technical description of light apparatus.	6th order dioptric kerosine.	4th order dioptric, coconaut.	6th order dioptric without any additional armament, kerosine.
4	General description of light apparatus and armament.	6th order dioptric without any additional armament to hoist.	4th order dioptric enclosed in a plate glass lantern. Fixture.	6th order dioptric without any additional armament to hoist.
5	Description of tower, mast, &c., used for elevation of light and armament.	Wooden staff with service cabin at base.	Stone masonry column.	Wooden staff with service cabin at base.
6	Elevation of sight above sea-level.	Not known.	34·35 feet.	12·18 feet.
7	Height of mast or tower.	62 feet.	91 feet.	61 feet.
8	Elevation of light above sea-level.	Not known.	125 feet.	73·18 feet.
9	Distance visible in clear weather.	9 to 10 miles.	15 miles.	9 to 10 miles.
10	Arc of illumination.	180°.	288°.	180°.
11	For what period exhibited.	9-monthly, 1st September to 31st May.	Yearly.	9-monthly, 1st September to 31st May.
12	When first exhibited.	1883.	1867.	1886.
13	Initial cost.	Rs. 2,718-0-7.	Rs. 7,548-14-6.	Rs. 1,793-3-7.
14	From what source defrayed.	Ports Fund.	Ports Fund.	Ports Fund.
15	Annual cost of exhibition and maintenance, as per account of last financial year. By P. W. D.	Rs. 529-8-2.	Rs. a. p. 888 8 6 Current repairs. 213 2 8 Total ..Rs. 1,101 11 2	Rs. 483-11-2.
16	How defrayed.	Ports Fund.	Ports Fund.	Ports Fund.
17	Establishment employed and cost per month.	1 Tindal on Rs. 14 } 12 monthly. 1 Khalási ,, 10 } 1 Do. ,, 10 9 do. Rs. 31-8 per month.	1 Syrang on Rs. 18 1 Khalási ,, 12 1 Do. ,, 10 1 Do. ,, 8 Rs. 48 per month.	1 Tindal on Rs. 14 } 12 monthly. 1 Khalási ,, 10 } 9 do. 1 Do. ,, 10 Local allowance Re. 1 to each. Rs. 34-8-0 per month.
	Articles lost or destroyed since last report.	Nil.	An old curtain condemned and destroyed.	Nil.
18	List of depôt-stock with remarks as to its condition. As per last report.	2 oil tanks. 2 cupboards. 2 burners with oil reservoirs. 1 reflector. 5 water-casks. 1 chain. 3 Copper pots. 3 buckets. 1 hand lantern. (In good order.)	3 burners. 2 oil reservoirs. 1 reflector. 1 sledge. 2 curtains. 2 oil tanks. 3 copper pots. 1 crust-stand. 2 guns. 2 storm panes. 2 dripping pans. 1 store-box. 2 leather buckets. 1 guard light. (In good order.)	1 water-cask. 4 water-breakers. 2 burners with 2 oil reservoirs. 2 copper pots. 1 chain. 1 bucket (galvanized). 1 leather bucket. (In good order.) × Condemned
	Additions since last report.	2 leather buckets. 1 water-cask. 1 canvas cover for lantern.	2 new cloth curtains for lantern-house.	1 New canvas cover for lantern.
19	Instructions, Circulars, &c., supplied and their condition.	Nil.	Nil.	Nil.

Porim.	Lohara.	Deojagan.	Dhulera.
21° 27' 15" N. 72° 20' 0" E.	21° 32' 0" N. 72° 30' 0" E.	21° 58' 0" N. 72° 30' 20" E.	22° 13' 0" N. 72° 18' 52" E.
On the Island of Perim three miles from mainland.	At the entrance of the Narbada River, Gulf of Cambay.	On the north shore at the entrance of the Dhádhar River, Gulf of Cambay.	Western shore, Gulf of Cambay, 2 miles south of the Chikhari or Whittle Bandar.
4th order dioptric, coconaut.	Common lantern with Kosmos burner, kerosine.	5th order dioptric kerosine.	5th order dioptric kerosine.
4th order dioptric enclosed in a plate glass lantern. Fixture.	Lantern with one circular wick burner, to hoist.	5th order dioptric with two flat wicks. Fixture.	5th order dioptric with two flat wicks. Fixture.
Stone masonry column.	Wooden staff with wire rope Travellers.	Brick masonry column.	Wooden structure with platform at top for lantern.
51 feet.	51·02 feet.	44·28 feet.	49 feet.
64 feet.	28 feet.	40½ feet.	42 feet.
115 feet.	79·02 feet.	84 feet.	91 feet.
17 miles.	7 miles.	12 miles.	12 miles.
288°.	180°.	248°.	270°.
Yearly.	9-monthly, 1st September to 31st May.	9-monthly, 1st September to 15th June.	9-monthly, 1st September to 31st May.
1865.	1887.	16th December 1889.	8th January 1883.
Rs. 6,501 2 11 „ 101 12 4 6,602 15 3	Rs. 253-4-0.	Rs. 3,723-11-3.	Rs. 2,076-8-8.
*By P. W. D. for providing stone pitching round the platform of the light-house tower.			
Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.
Rs. a. p. 1,255 4 6 Current repairs .. 224 5 5 Special repairs .. 1 11 2 Total ..Rs. 1,481 5 2	Rs. 336-12-6.	Rs. a. p. 502 7 6 Current repairs. 79 11 1 Special repairs . 198 6 11 Total ..Rs. 720 9 0	Rs. a. p. 726 2 7 Current repairs. 113 2 9 Total ..Rs. 839 5 4
Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.
1 Syrang on Rs. 25 1 Khalási ,, 12 1 Do. ,, 10 2 Khalásis ,, 8 Local allowance Rs. 2 each. Boat-hire Rs. 6. Rs. 79 per month.	3 spare hands at Rs. 10 each. Rs. 22-8-0 per month.	1 Tindal on Rs. 16 } 12 monthly. 1 Khalási ,, 12 } 1 Do. ,, 10 9 do. Local allowance Re. 1 to each. Rs. 38-8-0 per month.	1 Tindal on Rs. 16 1 Khalási ,, 12 1 Do. ,, 10 2 Khalásis ,, 8 Local allowance Re. 1 each. Rs. 59 per month.
An old curtain condemned and destroyed.	Nil.	Nil.	Nil.
1 oil tank. 3 burners with 2 oil reservoirs. 1 reflector. 1 crust-stand. 1 store-box. 1 Telescope (broken). 1 cannon. 1 curtain. 2 dripping pans. 1 hand-lantern. 1 leather bucket. 2 copper frames for storm panes at present at Bombay. (In good order.)	2 screw couplings. 1 store-box. 2 reflectors. 1 canvas cover for lantern. 1 spare four-wick Kosmos burner. 1 leather bucket. (In good order.)	1 store-box. 3 swords. 5 copper pots. 3 water casks. 2 hair brushes. 2 scissors. 2 burners with oil reservoirs. 1 dripping pan. 2 lamp-feeders. 1 scraper. 1 bucket. (In good order.)	1 Store-box. 1 Water tank. 2 burners with oil reservoirs. 10 water casks. 6 muskets 1 ensign. 4 cutlasses. 1 canvas cover. 1 canvas cover for lantern. (In good order.)
1 flag, old. 1 new cloth curtain for lantern-house. 1 leather bucket.	1 fat trap.	4 padlocks. 1 hand-lantern.	1 flag, old. 1 bucket. 1 new water cask. 1 canvas cover for lantern. 1 hand-lantern.
Nil.	Nil.	Nil.	Nil.

* In places to be struck off.

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Bhatkul Light-house.

the summit of the hill which forms e northern boundary of the bay.

oden mast.

feet.

et.

foot.

Res.

ward between the bearings of S.E. S. round to N. by E.

8 months from 15th September 15th June.

December 1890.

302-7-0.

s Fund.

Rs. a. p.

of stores from Bom-
... ... 30 14 8
ellaneous 2 6 6
Rs. ... 33 5 2

s Fund.

dishment not sanctioned yet. ...ed by existing Port Fund ...blishment.

list appended.

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No.	Nature of Particulars	Venguria Port Light-house.	Venguria Rock Light-house.	Kárwár Oyster Rock Light-house.
1	Latitude and longitude	15° 51' 12" N. 73° 36' 22" E.	Not known.	14° 49' 25" N. 74° 2' 50" E.
2	General description of position	On the north point of the bay.	East by north ½ north distant 3¾ cables from the old light-house which was in latitude 15° 52' 20" N., longitude 73° 26' 45" E.	On the summit of the Oyster Rocks.
3	Technical description of light	Dioptric 6th order.	Dioptric 4th order.	1st class dioptric.
4	General description of light and armament.	Two vertical bright lights one over the other about 21 feet apart, hoisted by crabwinch and single chain in two iron rods attached to mast 30 feet high. Argand burners 7 18th diameter.	Fixed white light double burners, outer 1' 1½" and inner 1' diameter.	White fixed light circular brass burner with 4 wicks by Chance Brothers and Co.
5	Description of tower, mast for elevation of light and a	White pyramid masonry tower.	Masonry circular tower.	Circular white masonry tower.
6	Elevation of sight above sea	Upper light 380 feet. Lower light 300 feet.	110 feet.	138 feet above high water mark.
7	Height of mast or tower.	41 feet.	32 feet.	72 feet.
8	Elevation of light above sea	Upper 371 feet. Lower 350 feet.	132 feet.	210 feet.
9	Distance visible in clear wea	9 to 12 miles.	12 to 15 miles.	25 miles.
10	Arc of illumination.	180° of horizon.	270° of horizon.	180° of horizon.
11	For what period exhibited	9 months and 10 days, 1st September to 10th June.	Throughout the year.	Throughout the year.
12	When first exhibited.	1st December 1869.	1st March 1869.	1864.
13	Initial cost.	Rs. 2,396-1-5.	Rs. 18,187-8-1.	Imperial Fund ... ... Rs. 82,243 0 8 Provincial ,, ... 13,101 0 0 Rs. ... 95,344 0 8
14	From what source defrayed	Ports Fund.	Ports Fund.	Ports Fund.
15	Annual cost of exhibition a ance, as per account of l year.	Establishment charges ... ... 434 10 8 Contingencies, repairs, &c., by Sar-Sarkún ... ... 4 4 5 Do. by Assistant Collector, Coast Guard ... ... 205 11 10 Do. by Public Works Department ... ... 157 4 8 Rs. ... 801 15 3	Establishment charges ... ... 1,678 0 2 Contingencies repairs, &c., by Sar-Sarkún ... ... 61 7 3 Do. by Assistant Collector, Coast Guard ... ... 389 1 8 Provisions ... ... 363 2 6 Rs. ... 2,491 11 7	Establishment charges ... ... 3,131 0 0 Provisions to establishment ... 692 0 1 Contingencies ... ... 48 14 11 Miscellaneous ... ... 15 6 0 Cost of oil and other stores from Bombay ... ... 1,506 10 3 Do. of current repairs ... ... 230 7 5 Do. of special do. ... ... 177 0 7 Rs. ... 5,801 1 3
16	How defrayed.	Ports Fund.	Ports Fund.	Ports Fund.
17	Establishment employed month.	1 Headman ... ... Rs. 16 1 Lascar ... ... ,, 14 1 Do. ... ... ,, 12 Rs. ... 42 The services of two lascars are dispensed with from 11th June to 31st August.	1 Syrang ... ... Rs 23 1 Lascar ... ... ,, 14 1 Do. ... ... ,, 13 2 Do. Rs. 10 each ... ... ,, 20 Local allowance at Rs. 3 per head ... ,, 15 Provisions ... ... ,, 35	1 Light-keeper, inclusive of an allowance of Rs. 55 per month ... Rs. 180 1 Tindal ... ... ,, 18 3 Lascars at Rs. 14 each ... ... ,, 42 1 Sweeper ... ... ,, Rs. ... 248
18	List of dead-stock with remarks as to its condition.	Articles h ed since As per li Addition report.	*Vide* list annexed.	As per list appended.
19	Instructions, Circulars, and their condition.	None.	None.	In good condition.

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Baitkul Kovey Light-house.	Tadri Light-house.	Kúmta Light-house.	Honávar Light-house.	Bhatkul Light-house.
14° 48' 20" N. 74° 0' 20" E.	.....	14° 20' 0" N. 74° 29' 0" E.	.....	.....
Exhibited from the Port Office, Kárwár.	On the summit of the hill forming the northern boundary of the Tadri Creek.	On the head of land forming the north horn of the bay.	On the right bank of the creek.	On the summit of the hill which forms the northern boundary of the bay.
Red lantern.	.....	5th order dioptric.	.....	.....
.....	.....	Bright fixed light hoisted and lowered by a small chain leading through an iron tubular mast.	.....	.....
Flag-staff.	Wooden mast.	Iron tubular mast with two iron rods for the lamp to travel on.	Wooden mast.	Wooden mast.
.....	100 feet.	87½ feet.	23 feet.	100 feet.
.....	20 feet.	28½ feet.	.....	20 feet.
.....	120 feet.	116 feet.	.....	120 feet.
8 miles.	8 miles.	12 miles.	6 miles.	8 miles.
In every direction seaward.	Seaward between the bearings of S.E. by S. and S.W. by W.	270° of horizon.	Seaward between the bearings of S.E. through West to N.N.W.	Seaward between the bearings of S.E. by S. round to N. by E.
Throughout the year.	For 8 months from 15th September to 15th June.	Throughout the year.	For 8 months from 15th September to 15th June.	For 8 months from 15th September to 15th June.
1864.	27th January 1891.	1st June 1888.	21st March 1891.	10th December 1890.
Unknown.	Rs. 216-1-0.	Rs. 3,846-7-3.	Rs. 304-7-6.	Rs. 302-7-0.
Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.
Establishment charges ... Rs. 156 0 0 Cost of stores supplied from Bombay ... 178 4 0 Rs. ... 334 4 0	Cost of stores supplied from Bombay ... 20 14 8	Establishment charges. 528 0 0 Cost of stores from Bombay ... ... 240 8 0 Cost of annual repairs ... 82 15 0 Miscellaneous ... ... 0 5 9 Rs. ... 852 12 9	Cost of stores from Bombay ... ... 30 14 8 Miscellaneous ... ... 1 6 11 Rs. ... 32 3 7	Cost of stores from Bombay ... ... 30 14 8 Miscellaneous ... ... 2 6 6 Rs. ... 33 5 2
Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.	Ports Fund.
One lascar who is entered in the list of Port lascars at Rs. 13 per month.	Establishment not sanctioned yet. Managed by existing Port Fund establishment.	1 Tindal ... ... Rs. 18 1 Lascar ... ... ,, 14 1 Do. ... ... ,, 12 Rs. 44	Establishment not sanctioned yet. Managed by existing Port Fund establishment.	Establishment not sanctioned yet. Managed by existing Port Fund establishment.
.....	.....	.....	.....	.....
.....	As per list appended.	As per list appended.	As per list appended.	As per list appended.
.....	.....	.....	.....	.....
.....	None.	None.	None.	.....

J. POLLEN,
Acting Collector of Salt Revenue

List of Dead Stock Articles belonging to the Red Light at Dábhol.

Names of Articles.	Condition.
1 Post for lantern	Good.
2 Lanterns	Do.
1 Box for lanterns	Do.
1 Iron drum with cock	Do.
1 Pair scissors	Do.
1 Ladder	Do.

F. W. M. BUTLER,
Acting Assistant Collector of Salt Revenue.

List of Dead Stock Articles belonging to the Green Light at Anjanvel.

Names of Articles.	Condition.
1 Post for lantern	Good.
2 Green lanterns	Do.
1 Box for lanterns	Do.
1 Store box, teakwood	Do.
1 Iron drum with cock	Do.
1 Pair scissors	Do.
1 Ladder	Do.
1 Lantern, screen	Do.
1 Hand-lamp	Do.

F. W. M. BUTLER,
Acting Assistant Collector of Salt Revenue.

2536/13

List of Dead Stock Articles of the Anjanvel Light-house to be submitted to the Assistant Collector of Salt Revenue, Ratnágiri Range, as per his Vernacular No. 84, dated the 5th May 1886.

Articles as per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Condition.	Number.	Description.	Condition.
	Anjanvel Light-house.							
1	Lantern with apparatus	Good.						
2	Scissors	„						
1	Iron dabs	„						
1	Iron dabs for gunpowder	Unserviceable.						
1	Funnel	Good.						
1	Tin pot	„						
1	Sieve	„						
1	Kanas	„						
1	Hourglass	„						
2	Flat pieces of brass (pattyas)	„						
1	Deal box	„						
2	Locks with keys	„						
2	Keys only	„						
1	Measure of one-fourth of a gallon	„						
2	Iron strings to support the mast as they do in the case of a tent	„						
1	Brass hand-lamp	„						
1	A covering made of flannel together with a piece of cotton green cloth for the lantern	„						
1	Ordinary lantern	„						
2	Iron buckets	„						
1	Copper pot	„						
1	Scythe	„						
1	Pot in the form of a gallon together with a funnel	„						
1	Wooden frame for placing the iron tank for oil	„						
1	Iron tank	„						
2	Brass locks with keys	„						
1	Screw-spanner	„						
1	Screw-driver	„						
1	Hammer	„						
1	Coal chisel	„						
2	Feather-brushes	„						
2	Bottle-brushes	„						
	Iron oil tins	„						

As per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
				Anjanvel Light-house —continued.				
1	Piece of small chain	Good.						
1	White metal tube for fixing in wicks.	,,						
2	Brass burners, complete ...	,,						
2	Brass caps for burner	,,						
1	Kerosine-oil burner	,,						
2	Iron screws	,,						
1	Metal daba with a drainer ...	,,						
1	Wooden ladder	,,						
1	Kerosine-oil burner	,,						
1	Brass flat piece	,,						
				Ratnágiri Light-house.				
1	Lamp, dioptric	Good.	36	Chimneys	Owing to the improper regulation of the wick and breakage.	1	Tin oil measure of three seers...	Good.
1	Brass oil receiver with tube and burner, complete	,,				2	Five-gallon iron cans ...	,,
1	Reflector	,,				1	Flag	,,
						1	Scissor	,,
1	Brass small lamp	,,						
1	Do. save-all	Strainer broken.				2	Zinc buckets	,,
1	Copper draught pipe	Much worn.						
1	Brass chimney-stand	Good.						
1	Do. tray for small lamp and a chimney	,,						
2	Pair scissors	Unserviceable.						Taken to Bombay.
1	Canvas cover lined for the top of lamp	Good.						
1	Zinc tube for fixing wick ...	,,						
2	Chimney brushes	,,						
1	Brass funnel with strainer ...	,,						
1	Do. oil measure	,,						
6	Inside curtains	,,						
1	Outside curtain	,,						
2	Iron oil tanks with stands and 1 iron and 3 brass locks ...	,,						
1	Iron bucket	,,						
1	Spyglass	,,						
1	Hourglass	,,						
2	Brass oil receivers	,,						
2	Do. tubes with burners attached	,,						
3	Do. burners with one extra inner tube	,,						
9	Copper tubes for soldered burners out of repair ...	,,						
11	Brass rings for fixing wicks on ...	,,						
11	Do. for supporting chimneys.	,,						
4	Brass clamps with thumb screw ...	,,						
1	Do. save-all with gauze wire broken	,,						
1	Socket with three 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	Flags	,,						Old, so taken to Bombay.
4	Storm-signal lamps with three spare glasses	,,						
1	Day storm-signal, complete ...	,,						
2	Hand lamps	Unserviceable.						
1	Brass gun	Good.						
1	Bucket and one cask for use of gun.	,,						
5	Chimney brushes	Unserviceable.						Taken to Bombay 3 out of them.
4	Feather chimney brushes ...	Good.						
1	Pair scissor	,,						
1	Zinc bucket	,,						
1	Bundle of pieces of rope ...	,,						
	Copper Utensils.							
4	Copper plates	Unserviceable.						Two taken to Bombay.
2	Do. chatties	Good.						
1	Do. kettle	,,						
302	Glass chimneys	,,						Broken.
1	Sand glass...							
1	Lota	Unserviceable.						
1	Copper plate	Good.						
1	Do. cooking pot	,,						
1	Lota	,,						
1	Storm warning signal called drum...	,,						
1	Signal of canvas cover (cone) ...	,,						
				Jaitápur Light-house.				
11	Screws	All articles are in good order.	9	Glass chimneys	Broken ...	1	Canvas screen	In good order.
2	Pairs of scissors							
6	Locks with keys							
2	Triangular copper frames ...							
1	Knife							
2	Boxes for keeping glass chimneys...							

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As per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
				Jaitápur Light-house—continued.				
2	Iron tanks for oil							
2	Iron dabas							
1	Gun							
1	Telescope							
2	Brass pipes...							
1	Trip of brass with 3 screws ...							
1	Case of firewood							
1	Funnel							
1	Hanging (screen)							
2	Triangular frames							
7	Brushes							
10	Triangular glasses							
1	Measure of a half seer... ...							
1	Do. of gallon							
1	Iron wank for hanging ...							
1	One hourglass							
51	Glass chimneys							
...	Pincer for holding chimneys ...							
1	Pole with French degress (Foot rule.)							
1	Pair of instrument for removing nails							
1	Tin pipe for taking out oil ...							
2	Other pipes							
1	Tin bucket...							
2	Lamps to light the larger one ...							
1	Tin case for white paint ...							
1	Do. for red							
2	Dabas for pouring oil							
1	Tin box for wicks							
2	Copper measures for oil ...							
2	Gimits							
1	Triangular instrument for scratching (tarning)							
2	Instruments for removing nails ...							
2	Flat instruments of the above kind.	All articles are in good order.						
1	Screw-driver							
1	Hammer							
1	Spanner							
2	Pairs of joint iron instrument ...							
2	Spirit levels							
1	Copper case with thermometer ...							
1	Hand-vice							
1	Pair of instruments for collecting nails							
1	Pair of kinkra							
1	Hand-saw							
3	Pair of brushes							
1	Pair of brush of feather ...							
1	Hand-brush							
1	Pair of brush for paint... ...							
1	Pair of clock-maker's brushes ...							
1	Case of daily use							
1	Do. of instruments							
1	Do. of articles							
1	Iron nut							
2	Pairs of iron bolts							
1	Hand-light							
1	Brass pot for collecting oil falling down							
1	Tin pipe							
2	Pairs of trip of brass for keeping on the mouth of lamp ...							
3	Do. of tin							
1	Flag, blue ensign							
1	Copper pot for boiling water ...							
				Floating Red Light Boat (Málvan).				
	Boat, complete	Good.				2	Buoy chains	Good.
	Iron anchors					1	Storm-drum	
	Two chains					34	Iron balance weights ...	
	Red round lanterns		2	Iron chains	Being unserviceable.			
	Lantern with brass wires ...							
	One box for lanterns							
	A pair of scissors							
				Coast Green Light (Málvan).				
	A lamp-post with ladder ...	Good.		Nil.			Nil.	
	Two green lanterns							
	A pair of scissors							
	Two boxes for lanterns ...							
	One box for chimney							
				Vengurla Rock Light-house.				
1	Crabwinch...	Good.				1	Tarpaulin	Good.
1	Jangaly large stick	"				2	Tin buckets	"

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As per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
				Vengurla Rock Light-house —continued.				
95	Large glass chimneys	71 good.	24	Broken		20	Water casks	Good.
8	Iron tanks for keeping oil in ...	Good.						
1	Telescope	,,						
2	Copper pots	,,						
10	Blinds	Worn out.						
3	Iron casks for keeping oil in ...	Good.						
43	Corrugated iron sheets... ...	27 good, 16 useless.						
9	Lanterns	Good.						
1	Iron anchor	,,						
1	Box, teakwood	,,						
2	Tin buckets	Worn out.	2	Sent to the Assistant Collector of Salt Revenue Coast Guard Service.				
5	Flags	Good.						
1	Buoy	,,						
2	Small anchors	,,						
1	Hour-glass...	,,						
2	Iron chains	,,						
2	Shackles and hooks for the buoy ...	,,						
1	Octangular glass	,,						
32	Glass panes	29 good, 3 broken.						
5	Scissors	Good.						
1	Pulley	,,						
3	Tin dabas	,,						
1	Gutter	,,						
2	Wooden screws for raising wicks ...	,,						
1	Iron lamppost	,,						
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.						
9	Pipes	Good.						

1	Flag-staff	Good.	1					
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	8 good, 2 broken.						
1	Tarpaulin	Worn out.	1	Sent to the Assistant Collector of Salt Revenue Coast Guard Service.				
				Vengurla Port Light-house.				
1	Lantern	Good.				1	Drum storm-warning ...	Good
1	Crane	,,						
1	Telescope	,,						
2	Wooden ladders	,,						
2	Panes	,,						
1	Lever for lock	,,						
2	Iron locks	,,						
1	Coupling fliers	,,						
8	Glass panes	,,						
4	Scissors	,,						
1	Coupling	,,						
1	Cutting fliers	,,						
4	Wooden screws for raising wicks ...	,,						
2	Pulleys	,,						
1	Small iron carriage for lantern ...	,,						
4	Iron wheels	,,						
129	Glass chimneys	122 good, 7 broken.						
4	Brass iron cans ...	Good.						

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Articles as per last report.

Number.	Description.	Condition.
1	Iron feeder ...	Good.
2	Galvanized iron ropes ...	"
2	Nippers ...	"
1	Funnel ...	"
2	Copper plates ...	"
1	Bucket ...	"
1	Brass funnel ...	"
8	Lanterns ...	"
1	Pliers ...	"
1	Brush ...	"
2	Brass hand-lamps ...	"
1	Handle ...	"
1	Iron wheel ...	"
2	Small iron chains ...	"
1	Sponge ...	"
4	Brass burners ...	"
1	Chain ...	"
4	Knives ...	"
2	Copper hangers ...	"
2	Do. hooks ...	"
1	Chabina boat ...	"
2	Wooden lamp-posts ...	"
2	Flags ...	"
24	Glass chimneys ...	12 good, 12 broken.

Articles lost or destroyed since last report.

Number.	Description.	Clause.
	Vengurla Port Light-house —continued.	

Additions since last report.

Number.	Description.	Condition.

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

Names of Articles.	No.
Telescope, small	1
Do. large, on stand... ...	1
Do. night	1
Binocular	1
Files, large and small	11
Three-feet rule	1
Putty knives	2
Moving spanners	2
Hammers	2
Pincers	4
Scissors	7
Spectacles	2
Chisel, cold	3
Plumb	1
Drill, bow and shield	1
Drill for do.	6
Gimlets	5
Metal saw	1
Scrapers, small	2
Vice, large	1
Hand-vice	1
Wood plane	1
Stone hammer	1
Soldering iron	1
Hone	1
Small lamps	2
Oil filter case	1
Filter for do.	2
Copper buckets	2
Lamp spanners	3
Small keys for lamps	3
Tongs for lamp chimney ...	1
Models for wicks	1
Spirit level...	1
Spare chimneys	2
Burners for lamp	6
Piston shaft	1
Piston, spare	1
Leather for do.	1
Spare guide rods	8
Brushes for piston shaft	2
Wood chisels	2
Cartridge pouch	1
Copper pump with tin tube ...	1
Tin oil trays	3
Trimming tray	1
Wood box, small	1
Tin box for wicks	1
Set of curtains	1
Do. for lamp	1
Thermometer	1
Tray for piston	3
Hand-brushes	1
Fountain lamp	3
Oil measure, tin	1
Copper gallon	1
Iron bucket	2
Wood blocks	2
Oil tanks, iron, large	2
Do. small	6
Iron padlocks for do.	4
Storm signal lamps	2
Brass locks	1
Lock for store-room	2
Oil casks, wood	2
Brass taps	1
Gig with mast and sail	1
Short canvas top for do.	1
Minimum rule	4
Ladders	1
Rain gauge...	

Names of Articles.	No.	Remarks.
Signal flag-staff	1	
Drill frame	1	
Bits for do.	6	
Cramps, large	2	
Cramps, small	3	
Hand-brace	1	
Paint brushes	3	
Screw-drivers	4	
Punches	2	
Signal gun	1	
Sponge staff for do.	1	
Gun screw	1	
Hand-spikes	2	
Marker, iron	1	
Priming irons	3	
Bradawl	1	
Lamps with stand	2	
Lamp-stand for wall	1	
Wooden box for do.	1	
Lanterns	2	
Hoe	1	
Crowbars	2	
Timepiece	1	
Cooking copper pots	3	
Copper dish, large	1	
Water chatty	1	
Lota	1	
Accommodation ladder	1	
Posts for do.	2	
Large wood box for holding flags, spare stores, &c....	1	
Commercial code signal flags, set complete	1	
Signal books for do.	1	
Additions to the above	11	
Universal code signal books ...	2	
Steamer flag	1	
Blue ensign	1	
St. George's ensign	1	
Light-house and light-vessel list...	1	
Oil register...	1	
Daily register of observations, &c..	1	
Wood horses	4	
Tool box	1	
Union jack	1	
Cautionary signal drum	1	
Do. cone	1	
Powder box	1	
Wooden cot	1	
Wash-hand table	1	
Sideboard	1	
Table, small	4	
Wood chairs	1	
Commode	1	
Ventilation copper tube	1	
Spring balance	1	
Pick-axe	1	
Signal flags marked C, D, F, H, J, K, L, M, N, P, Q, R, S, T, W ...	15	
Red ensign, merchant navy ...	1	
Additions since last report.		
Iron buckets	2	
Soldering irons	12	
Rain gauge...	1	
Articles written off during 1890-91.		
Lantern	1	
Clock	1	
Pick-axe	1	
Wooden block	1	

R. G. C. WESTBROOK,
Port Officer, Kárwár.

Kárwár, 25th May 1891.

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As per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
				Jaitápur Light-house—continued.				
2	Iron tanks for oil							
2	Iron dabas							
1	Gun							
1	Telescope							
2	Brass pipes...							
1	Trip of brass with 3 screws ...							
1	Case of firewood							
1	Funnel							
1	Hanging (screen)							
2	Triangular frames							
7	Brushes							
10	Triangular glasses							
1	Measure of a half seer... ...							
1	Do. of gallon							
1	Iron wank for hanging ...							
1	One hourglass							
51	Glass chimneys							
...	Pincer for holding chimneys ...							
1	Pole with French degress (Foot rule.)							
1	Pair of instrument for removing nails							
1	Tin pipe for taking out oil ...							
2	Other pipes							
1	Tin bucket...							
2	Lamps to light the larger one ...							
1	Tin case for white paint ...							
1	Do. for red							
2	Dabas for pouring oil							
1	Tin box for wicks							
2	Copper measures for oil ...							
2	Girnits							
1	Triangular instrument for scratching (turning)							
2	Instruments for removing nails ...							
2	Flat instruments of the above kind.	All articles are in good order.						
1	Screw-driver							
1	Hammer							
1	Spanner							
2	Pairs of joint iron instrument ...							
2	Spirit levels							
1	Copper case with thermometer ...							
1	Hand-vice							
1	Pair of instruments for collecting nails							
2	Pair of kinkra							
1	Hand-saw							
3	Pair of brushes							
1	Pair of brush of feather ...							
1	Hand-brush							
1	Pair of brush for paint... ...							
1	Pair of clock-maker's brushes ...							
1	Case of daily use							
1	Do. of instruments ...							
1	Do. of articles							
2	Iron mat							
1	Pairs of iron bolts							
1	Hand-light							
1	Brass pot for collecting oil falling down							
2	Tin pipes							
1	Pairs of trip of brass for keeping							
6	Do. of tins							
1	Do. of hemp							
1	Flags, blue, ensigns							
1	Copper pot for boiling water ...							
				Floating Red Light Boat (Málvan).				
						2	Buoy chains	Good.
						1	Storm-drum	
						34	Iron balance weights ...	
		Good.	2	Iron chains	Being unserviceable.			
				Coast Green Light (Málvan).				
		Good.		Nil.			Nil.	
				Vengurla Rock Light-house.				
						1	Tarpaulin	Good.
						2	Tin buckets	"

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As per last report.			Articles lost or destroyed since last report.			Additions since last report.		
Number.	Description.	Condition.	Number.	Description.	Cause.	Number.	Description.	Condition.
				Vengurla Rock Light-house—continued.				
95	Large glass chimneys	71 good.	24	Broken		20	Water casks	Good.
8	Iron tanks for keeping oil in ...	Good.						
1	Telescope	,,						
2	Copper pots	,,						
10	Blinds	Worn out.						
3	Iron casks for keeping oil in ...	Good.						
43	Corrugated iron sheets... ...	27 good, 16 useless.						
9	Lanterns	Good.						
1	Iron anchor	,,						
1	Box, teakwood	,,						
2	Tin buckets	Worn out.	2	Sent to the Assistant Collector of Salt Revenue Coast Guard Service.				
5	Flags	Good.						
1	Buoy	,,						
2	Small anchors	,,						
1	Hour-glass...	,,						
2	Iron chains	,,						
2	Shacklos and hooks for the buoy ...	,,						
1	Octangular glass	,,						
32	Glass panes	29 good, 3 broken.						
5	Scissors	Good.						
1	Pulley	,,						
3	Tin dabas	,,						
1	Gutter	,,						
2	Wooden screws for raising wicks ...	,,						
1	Iron lamppost	,,						
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.						
9	Pipes	Good.						

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1	Flag-staff	Good.	1					
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	8 good, 2 broken.						
1	Tarpaulin	Worn out.	1	Sent to the Assistant Collector of Salt Revenue Coast Guard Service.				

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				Vengurla Port Light-house.				
1	Lantern	Good.				1	Drum storm-warning ...	Good
1	Crane	,,						
1	Telescope	,,						
2	Wooden ladders	,,						
2	Panes	,,						
1	Lever for lock	,,						
2	Iron locks	,,						
1	Coupling fliers	,,						
8	Glass panes	,,						
4	Scissors	,,						
1	Coupling	,,						
1	Cutting fliers	,,						
4	Wooden screws for raising wicks ...	,,						
2	Pulleys	,,						
1	Small iron carriage for lantern ...	,,						
4	Iron wheels	,,						
129	Glass chimneys	122 good, 7 broken.						
4	Brass iron cans	Good.						

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Articles as per last report.

Number.	Description.	Condition.
	Vengurla Port Light-house—continued.	
1	Iron feeder ...	Good.
2	Galvanized iron ropes ...	"
2	Nippers ...	"
1	Funnel ...	"
2	Copper plates ...	"
1	Bucket ...	"
1	Brass funnel ...	"
8	Lanterns ...	"
1	Plug ...	"
1	Brush ...	"
2	Brass hand-lamps ...	"
1	Handle ...	"
1	Iron wheel ...	"
2	Small iron chains ...	"
1	Sponge ...	"
4	Brass burners ...	"
1	Chain ...	"
4	Knives ...	"
21	Copper hangers ...	"
21	Do. hooks ...	"
1	Chalona boat ...	"
21	Wooden lamp-posts ...	"
2	Flags ...	"
24	Glass chimneys ...	12 good, 12 broken.

Articles lost or destroyed since last report.

Number.	Description.	Clause.

Additions since last report.

Number.	Description.	Condition.

2536/17

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

Names of Articles.	No.	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	
Binocular	1	Cramps, large	2	
Files, large and small	11	Cramps, small	3	
Three-feet 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 do.	1	
Spectacles	2	Gun screw	1	
Chisel, cold	3	Hand-spikes	2	
Plumb	1	Marker, iron	1	
Drill, bow and shield	1	Priming irons	3	
Drill for do.	6	Bradawl	1	
Gimlets	5	Lamps with stand	2	
Metal saw	1	Lamp-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	Timepiece	1	
Soldering iron	1	Cooking copper pots	3	
Hone	1	Copper dish, large	1	
Small lamps	2	Water chatty	1	
Oil filter case	1	Lota	1	
Filter for do.	2	Accommodation ladder	1	
Copper buckets	2	Posts for do.	2	
Lamp spanners	8	Large wood box for holding flags, spare stores, &c....	1	
Small keys for lamps	3	Commercial code signal flags, set complete	1	
Tongs for lamp chimney	1	Signal books for do. ...	2	
Models for wicks	4	Additions to the above	11	
Spirit level...	1	Universal code signal books ...	2	
Spare chimneys	2	Steamer flag	1	
Burners for lamp	6	Blue ensign	1	
Piston shaft	1	St. George's ensign	1	
Piston, spare	1	Light-house and light-vessel list...	1	
Leather for do.	1	Oil register...	1	
Spare guide rods	3	Daily register of observations, &c..	1	
Brushes for piston shaft	2	Wood horses	4	
Wood chisels	2	Tool box	1	
Cartridge pouch	1	Union jack	1	
Copper pump with tin tube ...	1	Cautionary signal drum	1	
Tin oil trays	3	Do. cone	1	
Trimming vay	1	Powder box	1	
Wood box, small	1	Wooden cot	1	
Tin box for wicks	1	Wash-hand table	1	
Set of curtains	1	Sideboard	1	
Do. for lamp	1	Table, small	1	
Thermometer	1	Wood chairs	4	
Tray for piston	1	Commode	1	
Hand-brushes	3	Ventilation copper tube	1	
Fountain lamp	1	Spring balance	1	
Oil measure, tin	3	Pick-axe	1	
Copper gallon	1	Signal flags marked C, D, F, H, J, K, L, M, N, P, Q, R, S, T, W ...	15	
Iron bucket	1	Red ensign, merchant navy ...	1	
Wood blocks	2	*Additions since last report.*		
Oil tanks, iron, large	2	Iron buckets	2	
Do. small	2	Soldering irons	12	
Iron padlocks for do.	6	Rain gauge...	1	
Storm signal lamps	4	*Articles written off during 1890-91.*		
Brass locks	2	Lantern	1	
Lock for store-room	1	Clock	1	
Oil casks, wood	2	Pick-axe	1	
Brass taps	2	Wooden block	1	
Gig with mast and sail	1			
Short canvas top for do.	1			
Minimum rule	1			
Ladders	4			
Rain gauge...	1			

R. G. C. WESTBROOK,
Port Officer, Kárwár.

Kárwár, 25th May 1891.

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

Names of Articles.	Number.	Remarks.
Light-house at Tadri.		
Lantern (large) with burners and chimneys	1	
Wooden lamp-post with brackets, complete	1	
Pair of scissors	1	
Small lantern	1	
Brushes	2	
Funnel	1	
(All in good condition.)		
Light-house at Kumta.		
As per last report—		
Pair of scissors	2	
Signal mast with its appurtenances	1	The cross yard of this mast has been written off.
Copper pot	1	
Chimneys	8	
Iron basin	1	
Iron pail	1	
Lanterns, storm-warning	4	
Do. for the use of the men at the light-house	1	
Storm-warning signal	1	
Chain, iron	1	
Tubular iron mast with lantern, chimneys, &c.	1	
Spade, iron	1	
Pick-axe, iron	1	
Snuffers	3	
Ensign	1	
Hóurglass	1	
Storm-warning drum	1	
Wooden yard for hoisting storm-warning signals with ropes, &c.	1	
Additions since last report—		
Hand-lantern	1	
Copper pots	6	
Do. pot, large	1	
Do. lota	1	
Do. pail	1	
Articles lost or destroyed—		
Copper pot	1	
Chain, iron	1	Written off.
Chimneys	6	Broken.
The remaining articles are in good condition.		
Light-house at Honávar.		
Lantern (large) with burners and chimneys	1	
Pair of scissors	1	
Small lantern...	1	
Brushes	2	
Funnel	1	
Wooden lamp-post with brackets, complete	1	
Square lantern	1	
Powras	2	
(All in good condition.)		
Light-house at Bhatkal.		
Lantern (large) with burners and chimneys	1	
Pair of scissors	1	
Small lantern	1	
Brushes	2	
Funnel	1	
Wooden post with brackets, complete	1	
Square lantern	1	
(All are in good condition.)		

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

Kárwár, 1st June 1891.

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