

P. H. D.

Gobt. of {1886} Madras.

MILITARY.

To
THE QUARTER MASTER GENERAL,
&c., &c., &c.

Dated February, 12th.

Issued

Recd.

Encl.

G.O., 12th February 1886, No. 943.

FEBRUARY.

Nos. 123-124.

Pay and Allowances—House-rent.

Clerk, Major R. M., Deputy Assistant Adjutant-General.—Claim of — to a refund of house-rent deducted from his pay for the period of his absence on privilege leave, disallowed.

With order

no-6470-17-2-85-
6480-
1510-18-6-
1720-14-1-86
480-6-1-86
30640-9-12-85-
28355-26-11-85-
27040-12-11-85-
24670-20-10-85-
28090-19-11-84-
N-1785 W 2719 February 1886

Returned with remarks
opposite each item. H.

17.11.85

19.2.86

N-455 Wd/Levy 23.1886

To the Secy. to the G.O.
P.W. Dept.

Sir, In continuation of
my telegram of the 17th
February, I am directed
to forward a list of the
models of irrigation works
sent from this Presidency
to the London Colonial &
Indian Exhibition of 1886,
with brief descriptions
and remarks against each.

Yours etc.

19/2/86

Cur

W

No. 647C

Government of Madras.

P. 2362.

PUBLIC WORKS DEPARTMENT.

Chepak, 17th Febry 1886.

OFFICE NOTE.

From

D.W.

To

Genl Supt. P. W. Works.

If practicable, please complete the enclosed list by the entry opposite each item of a few suitable ~~descriptions~~ remarks descriptive of the models.

Kindly return the paper with the least possible delay, as the Govt of India have telegraphed for it.

17/2/86

Description of Model.	Number marked on the case.	Number of Model.	Remarks.
II. General Model of Grand Shirent and "Caveri" and "Vannar" Regulators...	"	1	The Grand Shirent is an old nature work between the Caveri and Cheron near the head of the Sangre Satta. It has been improved under the British Govt, and is now being further improved while Regulators are being built across the Caveri and Vannar rivers which will enable the supply of water to over 800,000 acres of irrigated land in Sangre to be controlled. The model shows the work as they will be on completion.
Model of "Vannar" Regulators - one vent showing shutters and gearing.	75	1	This model shows the gearing used for raising and lowering the shutters, and the operation of the large shutters of these Regulators. The 2 screws to raise one shutter are made to work exactly together by means of gear wheels and a chain, working round in them.
III. General model of Lower Cheron Shirent and a portion of intervening Island...	57	2	This model gives a general view of the ancient across the Cheron river some 50 miles lower down than the Grand Shirent, which irrigates a considerable extent of country in the Sangre Satta on the south side and in the South Shirent Satta on the north side.

Colonial Exhibition of 1886

List of models to represent Irrigation branch Madras P. W. Dept., manufactured at the Presidency P. W. Workshops as per G.O. No. 2009 W of the 19th November 1884.

Description of model	Number marked in the cases	Number of Model	Remarks -
General models of Krishna Shirees Eastern and Western Delta	56	2	I. Of these two models, one shows the head works and a portion of the shiree across the Krishna at Begowda on the eastern bank, and the other the head works and a portion of the shiree on the western bank. -
Cross section of Krishna Shiree	56	1	II. The cross section of the Krishna Shiree is modelled to a large scale and shows the walls on which the lady mulls are built, and the approximate position of the stone apron. -
Model of Begowda Head Shiree Eastern Delta 2 1/2 vents showing shutters and gearing. -	74	1	III. This model represents the Head Shiree attached to the ancient across the Krishna river at Begowda the head of the Delta supplying the whole of the E. & W. & S. & N. it was originally constructed in 1854, but heavy floods in the river have shown the necessity of raising and strengthening the original work! It is shown here as improved. -
Model of Begowda Under Shiree 2 1/2 vents showing shutters & gearing	73	1	IV. This model shows the gearing used for raising the shutters of the under shiree; only one screw rod carried on the tramway is used for lifting the shutters, the shutters when raised are held up by means of a bar of iron placed through the hole in the T head attached to the shutter. -
Model of Godavari Central Delta Head Shiree - one vent showing shutters and gearing. -	72	1	V. This Head Shiree is attached to the shiree across the Godavari at Daulaishuram the head of the Delta. The old work having failed the shiree was rebuilt in 1878 the design is therefore one of the latest approved. -

Lower Colerain sluice - one sluice of
2 sets phewing shutters and gearing
with the 2 adjacent ones.

Model of the boat raised from
the Sankarapuram Workshop.

IX. This model shows one of the under sluices of the
Lower Colerain sluice. It is raised by the officers of the
S. H. S. and others and a system of the sluice
on each side.

X. This model shows the boat used by the
officers of the S. H. S. and others and a system of the sluice
on each side.

Description of Model.

Number
on the
case.

Number
of
Model.

Remarks.

General Model of Grand sluice and
"Canvri" and "Venuar" Regulators.

Model of "Venuar" Regulators - one set
phewing shutters and gearing.

General model of Lower Colerain sluice
and a portion of Intervening Island.

II. The Grand sluice is an old native work between the Canvri
and Colerain near the head of the Vengur Sutta. It has been
improved under the British Govt. and is now being further
improved while Regulators are being built across the Canvri
and Venuar rivers which will enable the supply of water to
over 800,000 acres of irrigated land in Vengur to be controlled.
The model shows the work as they will be on completion.

III. This model shows the gearing used for raising the shutters
of the Regulators. The 2 persons to raise one shutter are made
to work exactly together by means of gear wheels and a
chain, working round in them.

IV. This model gives a general view of the sluice across the
Colerain river some 50 miles lower than the Grand
sluice, which irrigates a considerable extent of country
in the Vengur Sutta on the south side and in the South
Sutta on the north side.

General Model of Grand Anicut and "Caveri" and "Vannar" Regulators.

General Model of Grand Anicut and "Caveri" and "Vannar" Regulators.

Model of "Vannar" Regulators - one next plowing shutters and gearing.

General model of Lower Caveri Anicut and a portion of intervening channel.

Number of Model.

75

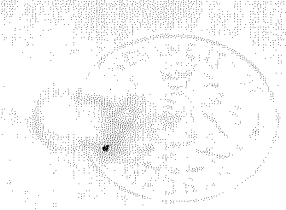
59

Remarks.

II. The Grand Anicut is an old native work between the Caveri and Coleroon near the head of the Tropic Delta. It has been improved under the British Govt, and is now being further improved, while Regulators are being built across the Caveri and Vannar Rivers which will enable the supply of water to over 800,000 acres of irrigated land in Tanjore to be controlled. The model shows the work as they will be on completion.

III. This model shows the gearing used for raising the shutters and plowing shutters and gearing. The 2 persons to raise one shutter are made to work together by means of jipsey wheels and a chain, working round in them.

IV. This model gives a general view of the anicut across the Coleroon river some 50 miles lower down than the Grand Anicut, which irrigates a considerable extent of country in the Tanjore Dist. on the south side and in the South Arcot Dist. on the north side.



To Mr

No 41

I do not think the remarks are sufficiently explanatory as to the substitution of the following:

III. The Grand Anicut is an old native work between the Caveri - Coleroon ^{near} the head of the Tropic Delta. It has been improved under the British Govt, and is now being further improved while Regulators are being built across the Caveri & Vannar Rivers which will enable the supply of water to over 800,000 acres of irrigated land in Tanjore to be controlled. The model shows the work as they will be on completion.

IV. This model gives a general view of the Anicut across the Coleroon River some 50 miles lower down than the Grand Anicut, which irrigates a considerable extent of country in the Tanjore District on the South side and in the S. Arcot District on the North side.

V. This Grand Anicut is situated on the Anicut across the Godavari at Dowlaishewaram the head of the

Delta. The old work being failed the
Chain was rebuilt in 1878, the design
is therefore one of the latest approved.

II. This model represents the Head
Chain stretched to the ancient crosses the
Tribine River at ~~Delaware~~ beyond the
head of the Delta, supplying the whole
of the Eastern Delta of the River, it
was originally constructed in 1854, but
heavy floods in the river have shown
the necessity of raising & strengthening
the original work. It is shown here
as improved.

I think it would be advisable to
add the precedents of the models
named in the list, so that those
relating to the same work should
come together. See I request numbering
them as shown in blue pencil on
list.

J. A. C.
20/2/86.

Now

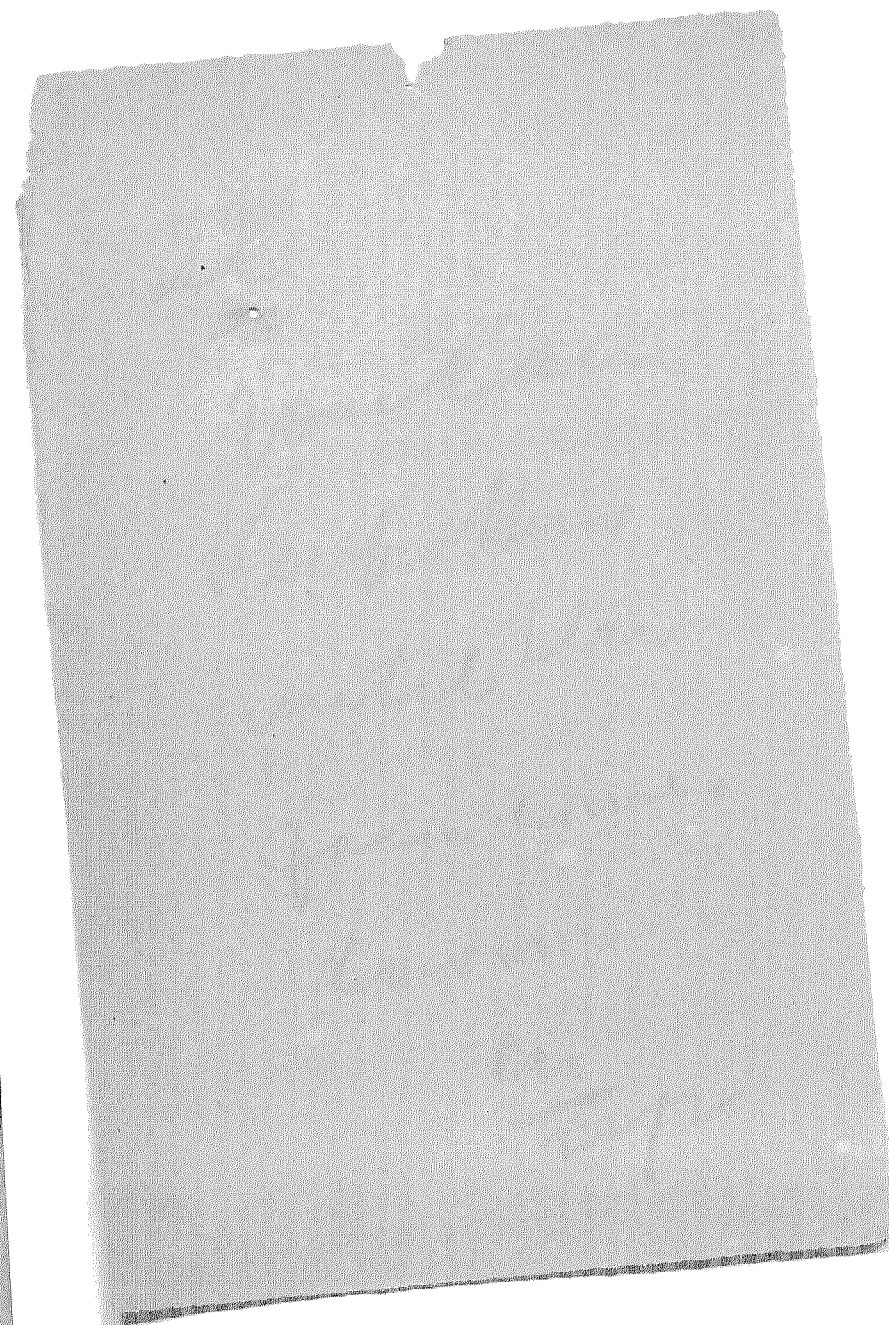
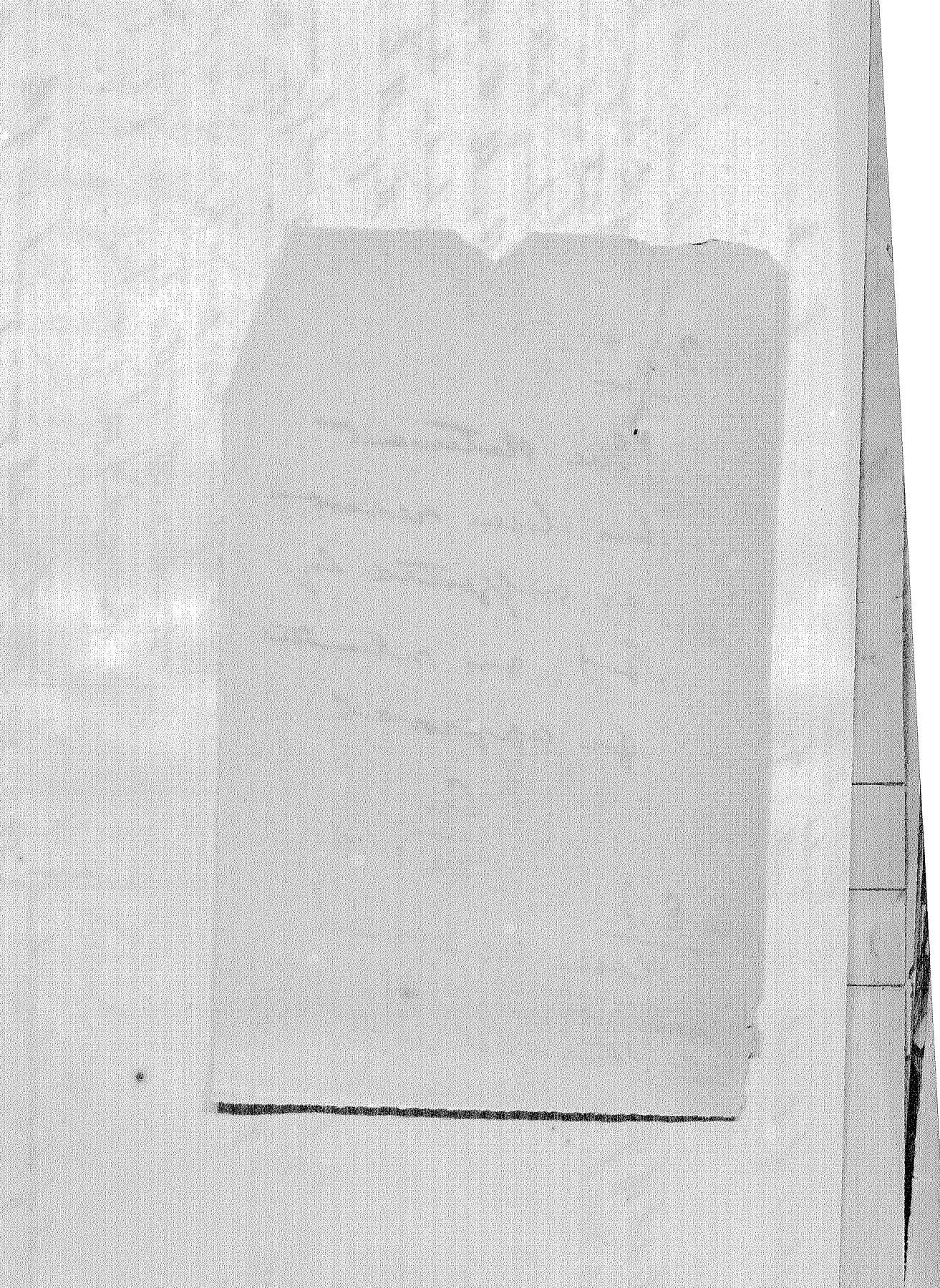
The statement
has been recast
as suggested by
S.J. & is submitted
for approval.

Cu
22.2.16

To S.J.

Please see revised
statement.

To Mr I think it is all right.
done 22/2/16. 22.2.16



II. G. P. C.

1566 h

Colonial Exhibition

List of Models to represent Irrigation Branch Madras Public Works Department, manufactured at the Presidency P.W. Workshops as per G. O. No. 2809, dated the 19th November 1884.

Description of Model	No. of models on the Case Model	Remarks
General Models of Western & Eastern Belka Western and Eastern Belka Cross Section of ^{Western} Western ^{Eastern} Eastern	56	I. These 2 models show the head works & a portion of the Aricut on the Western bank of the river at Ponnai ^{of the river at Ponnai} and the other the head works & a portion of the Aricut on the Western bank. Ponnai ^{Ponnai}
General Model of Grand Aricut and "Tannary" & "Vennam" Regulators.	1	II. The "Cross Section" of the Aricut is modelled to a large scale and shows the walls on which the long walls are built, and the approximate position of the Stone Spillway.
General Model of Lower Eastern Aricuts and a portion of intervening Island	57	III. The Grand Aricut was laid out when the country was under British Government, has since been improved by the British Government, but the old alignment has been altered. The Lowery & Vennam Regulators are new works which are just approaching completion.
Model of Godwin's Belka Head Regulator	58	IV. This model gives a general view of the two Belkas across the Coleroon River.
one Vent showing Shutters and Gearing	59	V. This Head Regulator was rebuilt in 1878 and shows the form for being generally adopted for large head sluices in the Madras Presidency.
Model of Regulator Head Regulator	60	
Eastern Belka 2 1/2 Vents showing Shutters & Gearing	61	

Sept

6.

1235/22
12/22

Model of Regatta under Licence 2 1/2 Vents Shewing
Shutters and Gearing
Model of Venturian Regulator - one Vent Shewing
Shutters and Gearing.

Model of Staff Boat received from the Pondicherry
Workshop

Lower Coleridge Aircraft
one of 2 Vents Shewing Shutters & Gearing
with the two adjacent sprakes

Madras
Mr. Mahalingam
10 - February 1886

- (VI) This model shows the addition which it was found necessary to make to the original Patent device, owing to the floods in the River rising to a much greater height than was anticipated.
- (VII) This model shows the gearing used for raising the shutter of the inner sluice, only one screw rod comes on a tramway is used for lifting the shutter, the screw when raised are held up by means of a bar of iron placed through the hole in the 7 bars attached to the shutter.
- (VIII) This model shows the gearing used for lifting the large shutters of these Regulators. The 2 screws to raise one shutter are made to work exactly together by means of 4 Gipsy wheels and a chain working round in them.
- (IX) This model shows the boat used by the Officers of the Public Works Department when travelling by Canal.
- (X) This model shows one of the inner sluices of the Lower Coleridge Aircraft & a portion of the sluiceway on each side.

Marked & Counsel
Genl. Superintendent
P. H. Mahalingam

From
THE CONSULTING ARCHITECT
TO THE GOVERNMENT OF MADRAS,
To
The Chief Engineer
Public Works Dept.



No. 1704

Dated 20 February 1886.
Received

Recorded.
The permission
solicited in the
last paragraph
is granted.

22/2/86

22-2-86

No. of ENCLOSURES.

Subject.

Reports having des-
patched the Exhibits
for the London Colo-
nial Exhibition

C. A. Logart. ✓

BEC 25/2

23/2

With order

Ende M

With order