

6687 + 7438
Public Works (1896) Department.

G.O., No. 2681-2 W

DATED 19th September 1896

22/9/96

[Despatch Abstract.]

Observatory at Kodaikanal: Ordered that the plans & estimates for the proposed — be forwarded for the approval of the Govt of India.

Ditto: Forwarding for the early approval of the Govt of India plans & estimates amounting to Rs. 35,000 for the construction of the proposed —.

Dec 19/96

INDEXED
[P. W. D.]
[500-15-96]
Rev 21/9 24/9.

80/4 20/2

Forwarding, for the early approval of the Government of India, plans and estimates amounting to Rs. 35,060 for the construction of the proposed —.

No. 2682 W., 19TH SEPTEMBER 1896.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LETTER—from

THE HON'BLE COLONEL D. McNEIL CAMPBELL, R.E.,
Joint Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

In continuation of my letter No. 1589 W., dated 23rd May 1896, applying for sanction to the construction of a residence at Kodaikānal for the Government Astronomer, I am now directed to forward, for the early approval of the Government of India, plans and estimates amounting to Rs. 35,060 for the construction of the proposed Observatory at that station.

2. The plans and estimates have been drawn up after much careful consideration and in communication with the Government Astronomer, and are approved by this Government.

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

Colonel, R.E.,
Joint Secretary to Government.

OOTACAMUND,
19th September 1896.

Ed. T. E. Narayana Aiyangar.

No. 2681 W., 19TH SEPTEMBER 1896.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From the Consulting Architect to Government, dated 22nd July 1896, No. 2154.

From C. MICHIE SMITH, Esq., Government Astronomer, Madras, to the Chief Secretary to Government, dated 23rd July 1896, No. 148.

I have the honour to forward, herewith, the plans and estimate of the Kodaikānal Observatory received from the Consulting Architect yesterday.

No. 1638, Public.

Transferred to the Public Works Department in view to the plan and estimate being forwarded for the approval of the Government of India.

OOTACAMUND,
14th August 1896.

(Signed) J. F. PRICE,
Chief Secretary.

Note by the Chief Engineer, Public Works Department.

The estimates are being forwarded to the Government of India for approval, in anticipation of submission by the Superintending Engineer of satisfactory data in support of the high rates. These data should be submitted without delay.

Footings of only 9 inches are provided for the concrete part of the foundations, the continuation of which to ground level, as would be preferable, would give footings of a foot, thus making the concrete 2 feet, instead of 1 foot 6 inches, broader than the superincumbent masonry.

(Signed) D. McNEIL CAMPBELL, Col., R.E.,
Chief Engineer.

11th September 1896.

ORDER—No. 2681 W., dated 19th September 1896.

The plans and estimates will be forwarded for the approval of the Government of India.

2. Attention is drawn to the note by the Chief Engineer recorded above.

[Here enter No. 2682 W., dated 19th September 1896.]

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, VI Circle.
" Consulting Architect to Government.
" Public Department.

Exd. T. K. Narayana Aiyangar.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government { 1896 } of Madras.
PUBLIC WORKS.

Recd.

Enclosures

1896.

Regd.

Spare copies

G.O., No. 2681 W., 19th September 1896.

SEPTEMBER.

Observatory at Kodaikanal

Ordered that the plans and estimates for the proposed —, be forwarded for the approval of the Government of India.

DEPARTMENT.

*Observatory building
at Kodaikanal*
No 2681 W, d, 19th September 1896.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

M. S. W.
READ the following

*Letter from the Consq: Archt: to
Gout: } H.E. No. 2154 d/22nd July/96.*

*Letter from the Gout: Astronomer
Madras } " " 148 d/23rd July/96.*

*Encl: thereon in the Public
Dept: } " " 1638 d/14 August/96.*

*Note by the Chief Eng
at 11/9/96.*

*The plans & estimates
will be forwarded for the
approval of the Gout: of
India.*

*S.E. VI. Circle ✓
C. A. to Gout: ✓
Public Dept: ✓*

16.9.96

(H.E. No. 2682 W d/19th Sept/96.)

*2. Attention is drawn to the
note by the Chief Eng
above.*

*The Secretary to the
Gout: of India, P.W.D.*

Sir,

*In continuation of my
letter No. 1589. W d/23rd May/96,
applying for sanction to the
construction of a residence
at Kodaikanal for the
Government astronomer,*

I am now directed to forward for the early approval of the Govt: of India plans & estimates amounting to ~~Rs 35,053~~ ³⁵⁰⁶⁰ for the construction of the proposed observatory at that station.

2. The plans & estimates have been drawn up after much careful consideration, and in communication with the Govt: astronomer & are approved by this Government.

I have &c

14/9/96
W

CH-818
11.9.96.

CH

35060

CH-818
17.9.96

T
B

Secy to the Chief Engineer B.W.D.

The estimates are being forwarded to the Secy of India for approval in anticipation of submission by the Superintending Engineer of satisfactory data in support of the high rates. These data should be submitted without delay.

[P. W. 58
250-5-8-96]

Footings only
9 inches are provided

No 2687-2W, of 19-
Public Works Department.

Current No. 7438
Letter No. 1638
Dated 14. August 1896

From the Public Department.

TECHNICAL NOTE.

Name of Work Constructing a new Observatory at Kodakand, Madras District.

Amount of Estimate, Rs. 35060

PARTICULARS OF ESTIMATE.

Main Building Observatory Rs. 32608

Subsidiary Buildings 2250

Contingencies 590

Petty Supervision 2570

Land Compensation 822

Total Rupees ... 35060

PARTICULARS OF CONSTRUCTION.

Surface soil Reported the decomposed rock

Sub-soil 3 feet below surface.

Foundations are proposed to be laid to a depth of 3 feet, the lower 2 feet to be of concrete & the upper 1 foot built with masonry & covered outside in mortar.

Basement is to be raised 18 inches and built with masonry & covered outside in mortar.

Walls are to be raised, as per dimensions noted on the design, and built with masonry & covered outside with architrave over doors & windows.

Plastering or Pointing

The interior surface of walls are to be plastered with 3 coats of chunam & the exterior painted with Portland cement

Flooring is to be boarded with 1 1/2 inch planks on wooden joists, dwarf walls to be except for the dark & spectrograph rooms which will be of concrete plastered with cement.

Roofing will be of corrugated iron & pan tiles laid over thick gusses, purlins &c.

Doors and Windows are to be of teakwood of the descriptions noted in the estimate & painted with 3 coats of oil paint.

Roof timbers are to be of teakwood & painted with 3 coats of oil paint.

Scantlings are correct.

Rates cannot be checked, vide remarks.

The plinth area of the main building is 3750 square feet, and the cost per square foot will be Rs. 9.5.7.

The plan and estimates have been countersigned by the Government Commissioner and transferred to this Dept in view to obtaining the approval of the Govt. of India.

REMARKS.

The plan & estimate under review, amounting to Rs 35053, have been framed with reference to G.O. No. 2265 dated 12. Sept. 1895 and provision for constructing a new observatory at Kodakur in the Madras District.

The new observatory building will consist of the following rooms.

Observation — 45' x 18'
Computing room — 15' x 18'
Dark room — 10' x 18'
Spectrograph — 25' x 25'
with passage 40 feet long & 4 feet wide, also 3 towers each 15 feet diameter.

for the concrete part of the foundation, which, if continued to ground level, as would be preferable, would give footing of a foot, thus making the base concrete 2 feet, instead of 1-6", broader than the superincumbent masonry.

OK'd 11.5.96.

Diameter with spiral stair cases attached as shown on plan.

In setting out the new observatory building, it is stated in the report, that very great care should be taken that the axes of the long passage in the spectrograph room is made parallel to the earth's axis. The north & south lines must be true & not magnetic and the walls must run accurately north & south & east & west.

The floor of the spectrograph room will be 9 feet below the floors of the other rooms & the passage floor sloped with a rise of nearly 1 in 11. The entrance from the spectrograph room to the other rooms will be by a flight of steps.

The towers will have two floors, the first floor will be 15 feet & the 2nd floor 6 feet high, the upper or 2nd floor will be reached by spiral stairs built outside the towers. The towers will have cylindrical domes made to revolve on a circular rail fixed on top of the wall, there will also be a balcony round each tower supported by stone corbels & fitted with iron railings.

The rates cannot be checked for want of a schedule for Kodakur, they appear to be high due probably

probably to the carriage of all materials, except outside stone, from the plains to the

~~11/10~~
9.9.96

No 2681-2W, d, 19-9-96

Print Note by the Chief Eng. S.W.S.

The estimates are being forwarded to the Eng. & Suda for approval, in anticipation of submission to the Supt. Engineer of satisfactory data in support of the high rates. These data should be submitted without delay.

Footings of only 9 inches are provided for the concrete part of the foundations, the continuation of which, to ground level, as would be preferable, would give footings of a foot, thus making the concrete 2 feet, instead of 1'6", broader than the superincumbent masonry.

17/9/96

Coverd 29.96

EW

Public Works (1896) Department.

CURRENT No. 7438

Order

From

The Public Department.

No. 1638

Dated 14.8.96

Received 17.8.96

Enclosures 4 (1 plan)

Spare copies

SUBJECT.

Solar Physics Observatory
at Kodaikanal:

Transferring plan and
estimate for constructing
the —.

For only Secretary
vide order
in the
of the
17/8

02.5.390

BACK PAPERS.

G.O.	No.	Department.	Date.
S.O.	185W	P.W.	20-1-94
"	281W	"	31-1-94
"	314B-9W	"	8-12-94
"	3254W	"	18-12-94
"	141W	"	19-1-95
"	142W	"	19-1-95
"	515W	"	6-3-95
Memo.	929-30C	"	8-3-95
S.O.	1407W	"	12-6-95
Memo.	2339C	"	22-7-95
"	648B	"	30-7-95
"	671B	"	3-8-95
"	696B	"	7-8-95
"	831B	"	24-8-95
S.O.	2265W	"	12-9-95
Memo.	3197C	"	30-10-95
S.O.	1588W	"	23-5-96
"	1589W	"	23-5-96
"	2120W	"	21-7-96

FURTHER PAPERS.

CURRENT No. 2395
THE OBSERVATORY,
NUNGUMBAUKUM,
Madras, 23^d July 1896

FROM

THE GOVERNMENT ASTRONOMER,
Madra

To

The Honble Mr. J. F. Price,
Chief Secretary to Government.

I have the honor to forward _____
herewith the plans and estimate of the
Kodakkinal Observatory received from
the Consulting Architect yesterday.

I have the honor to be,
Sir,

Yours most obedient Servant

Charles Smith
Govt. Astronomer

From

Public Works.

The Govt. Astronomer,

Madras.

Oct. 14/96.

Date 23 July 1896.

Recd. 24 — 96
Regd 24 — 96

Enclosures - 3.

(of which one is a plan)



Forwarding the plans
and estimates of the Madras
Observatory received from the
Consulting architect on the 22nd inst.

Transferred

Pub 908 ²²³ 213-2-96
1024 216-12-95
55 218-5-96 Rodh
723-4 230-8-95 hms
309 215-4-95
P.W.C.N. 90 215-2-95
39 218-1-95
969 210-12-94
524 210-1-94
Rev: 14/8 1 214-1-94 orid
940-41 214-11-93
3 214-1-93

Each No. 1638.

Transferred to the
Public Works dept
in view to the plan
and estimate being
forwarded for the
approval of the
Govt of India.

Respectfully
Chief Secretary

Not recommended } 50B.
14 "August 1896" } 13/8/96.

Civil in Public dept

Papers 22/10/96
for the Civil Engineering
at 1030 D. 1030 D.
1030 D. 1030 D.
1030 D. 1030 D.

For very early scrutiny
14/8/96
C.M.M.
14.8.96

C.A. 2,000-13-7-15.
1st.

No. 2157

Note

The fair
note by the Chief
Engineer and the addition
of para 2 to draft Co.
require initials.

17/9/96

C.M.M.
12.9.96.

Enclosure

2-96

252

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plan

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6.

C. A. 2,000-13-7-15.
12.

Office of the Consulting Architect to Govt.,
Chennai, Madras,
22 July 1896

No. 2154

From

Henry Irwin, Esq., C.I.E.,
The Agt. Consulting Architect
to the Government of Madras,

To

The Chief Engineer
Public Works Department

Sir,

Enclosures.

I have the honour to report that I for-
warded the plan & an estimate amounting to Rs 35⁰⁰
for the Kodai Kanal Observatory building to the
Government Astronomer for counter signature and
submission to Government on the 22 Inst.

I have the honour to be,
Sir,

Your most obedient Servant,

Chelam

22/7/96

Lt. Colonel R.
Agt. Consulting Architect to Govt.

T for

14.8.96

27/7/96

6687

No 127

Ans: 24.7.96

From

THE CONSULTING ARCHITECT

TO THE GOVERNMENT OF MADRAS,

To

THE *Chief Engineer*
J. W. D.

No. 2154

Dated 22

Despatched

Received

July 1896.

No. of ENCLOSURES.

Subject.

Reporting that a plan & an
estimate amounting to Rs 55,000
for the KodaiKanal Observatory
was forwarded for counter-signa-
ture to the Government
Astronomer on the 22.7.96

*Annul the receipt
of the plan and
estimate -
W. J. 20/7/96*

M.S. 283 1/18