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|----------------|------------|---------------|
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| Dated          | 17-5-1860. |               |

**Not to be folded or roughly handled**

## PUBLIC WORKS DEPARTMENT.

No. 29 of 1860.

TO THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

RIGHT HONORABLE SIR,

1. We transmit a letter from our Chief Engineer, giving cover to one from Captain Haig, District Engineer of the Upper Godavery, with an Estimate of Machinery and other Plant required for the execution of the proposed works of improvement on the River. The Estimate amounts in the aggregate to £7,412-5-9, and is accompanied by a specification and sketch of the Engines, &c., applied for. It is stated to be in addition to an emergent list or indent amounting to £2,694-14-6, which Captain Haig submitted to you when in England, and which was sanctioned by you.

2. Captain Haig states that he made a very small demand on that occasion, partly to avoid the loss of a season by delay in complying with a large indent, and partly because he thought that the execution of the order at the Dowlaishwaram Workshop might help that useful Establishment. But he finds not only that the Workshop has full employment, the difficulty being not want of orders but of skillful Native Artificers, but also that almost the whole of the Tools and Machinery which he requires can be obtained more cheaply from England. Captain Haig's present Estimate is based on the supposition that operations are to be carried on simultaneously at the lower two barriers, viz. the Sinterála and the Enchampilli; and it therefore comprizes larger quantities of Tools, &c., than originally intended, reference being then had to one barrier only. But he argues that supposing funds are available, there can be no question as to the policy of carrying out the contemplated improvements, as rapidly as is consistent with good workmanship and the security of the various structures; and that while it is not his province to say what amount shall be immediately appropriated to these works, it is his duty to recommend a provision for their prosecution on the scale most consistent with efficiency. He states that the works at each barrier will occupy two years, those at Sinterála possibly more, according to the supply of labor; that the earthwork there would employ three thousand men for sixteen months; and that if five and three quarter lacs can be appropriated annually to the works, three hundred miles of the River may be opened for traffic in the third year, if operations are commenced at both points at once.

3. Captain Haig's letter and indent give full particulars not only of the articles required, but of the Makers from whom they may respectively be best obtained, and the prices; this information being the result of Captain Haig's personal enquiry when lately in England. The Estimate includes the usual allowance of five per cent. for packing charges, and £3 per ton for 180 tons for freight.

4. The total amount, (£7,412-5-9,) added to £2,694-14-6, the value of the things already ordered, with an addition of £200, the calculated cost of freight and shipping charges for the latter, makes the total cost of the whole Plant delivered at Madras, or Cocanada, £10,307-0-3 or a little over one lac of Rupees, which was the outlay for Plant included in the Estimate of 29½ lacs for the whole of the works designed by Captain Haig. Both this Officer and the Chief Engineer recommend that the Plant now indented for may be sent out in time for the next working season, and that the several Makers should be instructed to despatch every article as soon as ready.

*which*

5. In our Despatch of the 4th April 1860, No. 14, we pressed on your consideration the necessity of making a special grant for the Upper Godavery improvements, and of the importance of taking advantage of the present time, when Captain Haig is available to carry out his own designs: we have now only to support that Officer's requisition for the necessary Plant.

We have the honor to be,

Right Honorable Sir,

Your most obedient humble Servants,

FORT SAINT GEORGE,  
17th May 1860.

which

FORT SAINT GEORGE.  
PUBLIC WORKS DEPARTMENT.

Letter to the Right Honorable  
the Secretary of State for India,  
Dated 17th May,  
No. 29 of 1860.

Transmit letter from the Chief Engineer giving cover  
to one from Captain Haig, District Engineer of the  
Upper Godavery, with an Estimate of Machinery  
and other Plant required for the execution of the  
proposed works of improvement on the River.

No. 29. P. W. D. 5+

The Right Honorable the  
Secretary of State for  
India.

Right Honorable Sir,

31<sup>st</sup> March 1860. No. 11961, with  
enclosures.  
Proceedings of Govt. 7<sup>th</sup> May 1860  
No. 1030.

We transmit a  
letter from our Chief  
Eng<sup>r</sup>, giving cover to one  
from Captain Haig, Dist<sup>t</sup>  
Eng<sup>r</sup> of the Upper Godavery,  
with an estimate of ma-  
chinery and other plant  
required for the execution of the  
proposed works of improvement on  
the river. The estimate amounts to the  
aggregate sum of  
£7412-5-4, and is accompanied by  
a specification and sketch of the  
engines &c. applied for.  
This estimate is stated to  
be in addition to an  
emergent list or indent  
amounting to £2694-10-6,  
which

W. M.

W. M.

which Captain Haig submitted to you when in England, and which was sanctioned by you.

2. Captain Haig states that he made a very small demand on that occasion, partly to avoid the loss of a season by delay in complying with a large order, and partly because he thought that the execution of the order at the Goulbusha iron workshop might help that useful establishment.

But he finds not only that the workshop has full employment, the difficulty being not want of orders but of skillful native artificers, but also that almost the whole of the tools and machinery which he requires

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can be obtained more cheaply from England. Captain Haig's present estimate is based on the supposition that operations are to be carried on simultaneously at ~~both~~ the lower two barriers, viz the Sinkrala and the Enchamilli; and it therefore contemplates larger quantities of tools &c than originally intended, reference being then had to one barrier only. But he argues that supposing funds are available, there can be no question as to the policy of carrying out the contemplated improvements, as rapidly as is consistent with good workmanship and the security of the various

various structures; and  
that while it is not  
his province to say  
what amount shall  
be immediately ap-  
propriated to these  
works, it is his duty  
to recommend a pro-  
-vision for their prose-  
-cution on the scale  
most consistent with  
efficiency. He states  
that the works at each  
barrier will occupy  
two years, those at  
Jintarala possibly  
more, according to  
the supply of labor;  
that the earthwork  
there would employ  
three thousand men  
for sixteen months;  
and that if five and  
three quarter lacs  
can be appropriated  
to the project annually to the works,  
three hundred miles  
of

of the river may be<sup>9+</sup>  
opened for traffic in the  
third year, if opera-  
-tions are commenced  
at both points at once  
3. Captain Haig's  
letter and indent give  
full particulars, not  
only of the articles re-  
-quired, but of the mar-  
-kets from whom they  
may respectively be  
best obtained, and the  
prices; this information  
being the result of  
Captain Haig's person-  
-al enquiry when  
late in England.  
The estimate includes  
the usual allowance  
of five per cent for  
packing charges, and  
£3 per ton for 180 tons  
for freight. ~~and the~~  
4 The total amount, (£9,412-  
5-9,) added to £2,694-14-6  
the value of the things  
already

already ordered, with  
an addition of £ 200 the  
calculated cost of freight  
and shipping charges  
for the latter, makes the  
total cost of the whole  
plant delivered at  
Madras, or Cocanada,  
~~will be~~ £ 10,307-11-3  
or a little over one  
lac of rupees, which  
was the outlay for  
plant included in the  
estimate of 29 1/4 lacs  
for the whole of the  
works designed by  
Captain Haig.  
Both this officer and  
the Chief Eng<sup>r</sup>. recom-  
mend that the plant  
now intended for being  
sent out in time  
for the next working  
season, and that the  
several makers should  
be instructed to despatch  
every

every article as soon as  
ready.

5. In our despatch  
of the 4<sup>th</sup> April 1860,  
N<sup>o</sup> 14, we pressed on  
your consideration  
the necessity of making  
a special grant for  
the Upper Godavery  
improvements, and of  
the importance of  
taking advantage of  
the present time when  
Capt<sup>y</sup> Haig is available  
to carry out his own de-  
signs: we have now only  
to support that officer's  
requisition for the  
necessary plant.

Fort St George  
17<sup>th</sup> May 1860

PWD

No 29.

Letter to the Right Honble  
the Secretary of State  
for India

Dated 17<sup>th</sup> May 1860.

Right Honble the Secretary of State  
for India  
Whitehall 23<sup>rd</sup> May/60

Copy to the Secy of India 23<sup>rd</sup> May/60

Transmit letter from the  
Chief Engineer giving cover to  
one from Captain Haig Dis-  
trict Engineer of the Upper Go-  
down with an Estimate of  
machinery and other plant  
required for the execution of the  
proposed works of improvement  
on the river.

Recd 21 May/60 A.S.

Capl. R. L. May