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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

Cons. 17.2.57

G.O. No.	<i>305</i>	Press
		Mis.
Dated	<i>13-2-</i>	18 <i>57</i>

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 17th February 1857.

tain that in such Factories both economy and efficiency may be best obtained when circumstances admit of their being maintained on a large scale; and it will be far better to make the establishment at Dowlaishwaram thoroughly efficient, than to have two of an inferior character. The Government cannot therefore countenance the design of having any large works at Bezoarah or of the whole services of a Covenanted Civil Engineer being given up to it; and they trust that Mr. Merrall, has other occupation besides the charge of the workshop. This should be kept up merely on a scale sufficient to furnish such articles as could not be economically procured from Dowlaishwaram.

(Signed) H. FORBES,
Acting Secretary to Government.

No 107
3
To The Chief Engineers
in the P. W. Works.
Madras.

Sir,

1. As when commencing operations at the Hestmah Quicut, it was necessary to entertain an Establishment of Artificers for the fabrication and repair of Tools and Apparatus for the Construction of the Railways, with their turn tables, Waggons &c., and for the putting together and maintenance of the Cranes, and other Machinery which were extensively employed, a Workshop was formed at Bezoarah, which, although small at first, was found so useful as gradually to be enlarged, as the works proceeded, till it has assumed considerable dimensions, and become of so much importance as to deserve more attention being given to it than was originally intended.

2. I enclose a letter to my address regarding it from Mr. C. E. Merrall, who is at present in charge of it, and who, being a thorough theoretical and very good practical Mechanical Engineer, has done much for it, and if assisted with the additional Machinery which he asks for, will be able to put it on a footing of the utmost efficiency, so as to enable us to make many articles which are now prepared in a rough way, at an unnecessary expense by unaided Manual labor, and to supply ourselves on the spot, with a great deal

deal of apparatus which would be most valuable to us, but which, being now procurable only from England, is most inconveniently dispensed with.

3. As Government is now supplying machinery of various kinds for the use of the Public Works, and as it has taken measures for obtaining for employment at this place, two steam Dredges of 12 H.P. each, and of a large Steam Eng of 80 H.P. the organization of such a Workshop, as the small outlay proposed will be sufficient to Establish here, seems absolutely indispensable, and I therefore confidently recommend Mr. Merrall's letter to your favorable consideration, trusting that there will be no objection on the part of Govt. to grant the comparatively trifling amount of money, as I feel for especially as nothing will be needed for the erection of buildings or Offices, as in other situations.

4. The Machinery which Mr. Merrall recommends being procured, will probably cost as below Rs 5000 and would add tools to the value of Rs 3000 making with the probable cost of erection of a small Cupola the sum of Rupees 10000 for which I solicit sanction.

- | | |
|--|-------------------|
| 1. Iron planing machine, with slow motion.
Capable of planing a surface about 2 feet
wide and 6 feet long. | 1000---- |
| 1. Small planing machine, with quick motion
and reversing gear. | 1200---- |
| 1. Small lathe for turning brass and Iron | 1000---- |
| 1. Slotting machine | 1200---- |
| Tools and Charges &c. | 3000---- |
| Setting up a small Cupola | 2000---- |
| <u>Total Rupees</u> | <u>10,000----</u> |

Berarrah
30th October 1836.

I have &c.
J. Charles Esqr Esq
Civil Eng. in Ch. H. D.

Berarrah
October 4: 1836.
To Captain C. A. Orr.
Civil Engineer. Madras Division

Dr. Sir. Our Workshop Establishment at this place, which was, I imagine, originally intended merely to facilitate the execution of the works connected with the Amicut, &c. is now beginning to assume a degree of importance which appears to me, it would be highly desirable to turn to account, in promoting the interests of the Government, the extension of improvement among the people, and the more effective completion of those great works now contemplated in this District, even in its present imperfect state, the Workshops has already proved so valuable that it would, I think, be a matter of much regret if its benefits were allowed to cease when the present works were finished.

In order however to reap the full advantage of this Establishment, it would be highly desirable to make some additions to our present Stock of Machinery, more especially as we have now the command of steam power, which can never be made to do its proper duty, without a few more machines. At present, the large Lathe, and Drilling Machine, and the Saw Mill, are the only available machines for the application of steam power, and the two former, in particular, have already been found so useful, that operations which would otherwise take some days to accomplish, can be done in a few hours, and many

without

without such assistance, could not be performed at all.

Under these circumstances, I respectfully submit for your consideration the propriety of addressing the Board upon this subject, and enquiring if they would sanction the expenditure of a moderate sum, say about Rupees 5,000, or thereabouts, in the purchase of such additional Machinery &c. as we stand most in need of. The benefits derivable from such an addition to our means, no one I think will be able to appreciate better than yourself.

The following machines are amongst the most useful that we could possess, which I think might be purchased for the amount I have named viz.

1. Iron Planing Machine, with slow motion, capable of Planing a surface about 3 feet wide, and 4 or 5 feet long.
1. Small do. with quick motion, and reversing gear.
1. Small Lathe for turning Brass and Iron.
1. Slotting Machine.

If in addition to these the Company would allow us about Rupees 2,000 more, we could then erect a small Iron Foundry, which would be a most advantageous, as well as economical adjunct to our Executive operations.

Perhaps

7
Perhaps you will kindly think over this subject, and act according to your judgment in the matter.

I Remain &c.
/ Sd/ C. E. Merrill C.E.

/ Sd/ Charles A. Orr Captain
Civil Eng. in Charge Victoria Is.

/ True Copies /

W. A. Peter Colonel
Chief Engineer

9 PWD
No 315

Extract from the Minutes of Convention
Under date the 13th February 1857

Read the following
letter from the Chief
Engineer.

(Filed under 15 Dec 56.
No 8881)

In this letter the
Chief Engineer sends up
with his recommendation
one from the Civil Engineer
of the Tistna Division
giving cover to a com-
munication from Mr.
Merrall, ^{containing} propositions with
the view of
making the Bezarah
workshop more efficient.
In these propositions are out-
lay of Rs. 5000 for Ma-
chinery, of 3000 for tools
and of 2000 for a Cupola, ^{advocate,}
making

x 30th October 1856 No 107.

• 4th October 1856 -

[Signature]

[Signature]

Copy of a letter from the
Chief Engineer dated 13th Feb 1857

1856 A.P. 11

Enclosed in a letter
from the Chief Engineer
to the Secretary & Clerk
R. D. D. 11

1856 A.P. 11
1856 A.P. 11

1856 A.P. 11

Copy of a letter from the
Chief Engineer dated 13th Feb 1857
regarding additional housing
for the Tistna Division and
the Bezarah workshop.
The letter is in an official style
and is signed by the Chief
Engineer.

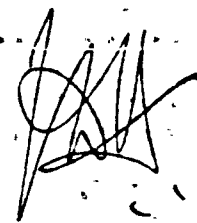
making in the aggregate
10,000 Rs ~~is suggested~~.
Colonel Faber supports
the recommendation, proposes
that the Plant required
should be included
in the indent on the
Honble Court, and requests
sanction for Rs 2000, for
building the cupola.

2 The Right Ho-
norable the Governor in
Council is not prepared
to give assent to the plan thus
put before him. In an order
of this day's ^{date} ~~Executive~~ ^{13th},
Govt have ~~assented~~ agreed
to a proposal for greatly
improving
the workshop at Dow-
lataberam, with the
intention of making it
thoroughly efficient and
capable of supplying
the work of all parts
of

of the Presidency as far
as distance may permit.
Bezoarah is within 100
miles of that place
and there is shortly to
be water communication
the whole distance which
will reduce the cost of
transport between the
two places to a totally
insignificant rate.

Under these circumstances
Govt do not consider it
at all advisable to incur
expense in creating large
workshops at Bezoarah
also. It is certain that
in such factories, as
both economy and effi-
ciency may be best
obtained when circumstances
admit of their being maintained
on a large scale, and
it will be far better to
make the Establishment
at Dowlataberam
thoroughly efficient than
to

to have two of an inferior
character. The Govt.
cannot therefore ~~entirely~~
countenance the design
of having any large
works ~~as~~ at Ber-
-poorah or of the whole
services of a Covenanted
Civil Engineer being given
up to it, & they trust that
Mr. Minnall has other
occupations besides
the charge of the work-
-shop. This should be kept up
merely on a scale sufficient
to furnish such articles
as could not be econo-
-mically procured from
Dowlaheram.



4 Copies to the Chig Eng.
Disps 147.

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of 3 days/58 ch: 14

Public Notice 1857
Disbury February

10305

Extracts from
J. 13th February 1871.

From the Quakerly 17/18 Nov.
 1858 your friend
 W. A. C.

Let me know to be engaged to
be admitted to the profession of
writing the Despatch. I shall
then more willingly have
I should be in a position to
say to the President that
I have agreed to accept
of the position in pursuing
the Presidential order on this
matter. I shall be prepared
to submit 100 miles of that
place, then it is likely to be
a great communication. I shall
write. I shall be able to

1849.

reduce the cost of travel -
first. Secure the best
places to a stay -
independent hotels -