

Public Works (1896) Department.

Beest & Co's Petroleum

G.O., No. 16824

DATED

*6 June 96**Installation
at
Bellary.*

[Despatch Abstract.]

*Petroleum tank at Bellary. Pro
Judicial Dept withdrawing the condition
imposed in one of its orders that the
should be provided with a covering shed
recorded*

BACK PAPERS.

FURTHER PAPERS.

$$\left[\frac{G}{15}\right]$$

Govt. of 1896 Madras.

To

The Public Works Dept.

1966c d/ 11.4.96
1490c d/ 17.3.96
737wd d/ 28.2.96
845c d/ 13.2.96
266D d/ 30.5.95
252D d/ 28.5.95
37D d/ 23.4.95
1262wd d/ 8.5.93
900 d/ 5.5.93.
985wd d/ 11.4.93.

Proceedings, No. 885 dated 21-5-1896

295 R 4/10-2-83
1459 cd, 25-3-83 Subject.

Withdrawing the condition imposed in G. O. No. 620 of 26-3-96. that the petroleum tank at Bellary proposed to be erected by Messrs. Best & Co should be provided with a covering shed.

Records.
Recorded

Curry
u. b. 56

$$\frac{C_n}{2\pi} \frac{2\pi}{9\%}$$

ah 145 @ 1/1

Judicial Department.



PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers—

From Messrs. Best & Co., Madras, dated 2nd
April 1896,

Memorandum from the Public Works Department,
dated 11th April 1896, No. 1966 C.

From Messrs. Best & Co., Madras, dated 22nd
April 1896.

From the Chemical Examiner, Madras, dated 11th
May 1896., No. 481:-

With reference to endorsement No. 903, dated
Ootacamund, 28th April 1896, referring for my opinion
whether it is necessary that covering sheds should be con-
structed over petroleum tanks as advised by the Chief Engi-
neer, I have the honour, in returning all the originals of

General Plan of Installation at :	correspondence and the three plans noted
Royapooram. :	
Plan of Station yard at Bellary. :	in the margin, to ^{state} ~~state~~ that it does not
Plan of Petroleum Installation :	appear to me to be necessary to insist
at Bellary. :	upon a covering roof for petroleum tanks.

2. There appears to be some confusion as to
what has been advised regarding this roof by the Public Works
Department. It is stated in their memo. No. 37 D of 23rd

April

April 1895 that it is "very inadvisable not to protect the tank from the direct rays of the sun", and in their memo. No. 1966 C, dated 11th April 1896 that "the tanks should be covered to protect the oil from the rays of the sun". As far as I understand it, from the correspondence and plans, each tank is covered with a covering which has three openings (a ventilator, a man hole and a sounding hole) which can ^{be} securely locked; and the question therefore is not whether the oil should be protected from the rays of the sun (which I understand it is) but whether a roof over these covered tanks is necessary.

3. I concur in the Chief Engineer's opinion that it is advisable that the oil should be stored at the lowest temperature which in the circumstances of the case may be possible; and that dispersion of petroleum vapour should be encouraged. He proposes to effect these ends by the erection of a roof and by leaving the sides open. The temperature of the atmosphere, however, is for months higher than the temperature at which the vapour will inflame on the application to it of an open flame - roof or no roof, this must actually be the case; and if the escape of inflammable vapour is to be guarded against something more than a bare roof with open sides, will be necessary. I further doubt ~~whether~~ whether a light roof, constructed of thin metal plates, would reduce the temperature of the oil to such an extent as to be of any practical advantage. Besides this, it also seems to me that if any vapour escapes through the covering of the tank, the best way to ensure

its ready diffusion and dispersion would be by maintaining its ^{it and favouring its} temperature, so lightening its diffusive power and its removal by wind currents at the mouth of the tank; and not by cooling it under a roof and encouraging its descent and dispersion through the open sides.

4. In addition to these theoretical considerations there seems to be abundant experience accumulated to show that a roof over the covered tank is not necessary. Mr. Boverton Redwood's opinion, which is quoted by Messrs. Best & Co., is

entitled

entitled to great weight. He is one of the highest living authorities on petroleum, and his opinion would not be lightly given upon an important subject of this sort.

5. Under all these circumstances, I see no necessity for insisting upon the erection of a roof over a covered petroleum tank.

O R D E R:-No. 885, dated 21st May 1896.

On reconsideration the Government is pleased to withdraw the condition imposed in G.O. No. 620, Judicial, dated 26th March 1896, that the petroleum tank at Bellary should be provided with a covering shed.

(True Extract)

J. H. M.

Under Secretary, P.W.D.,
for Chief Secretary.

To

Messrs Best & Co.

The District Magistrate, Bellary.

,, Public Works Department. ✓