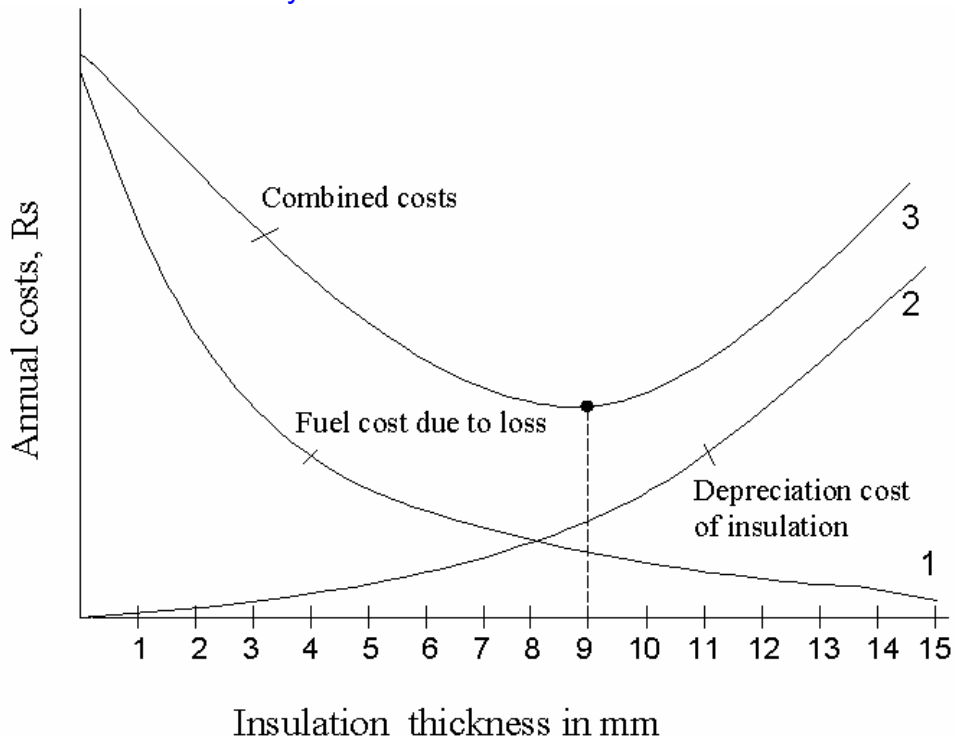


Observations on technical paper issue # EE 07

We invited technical papers on issue # EE 07 and received total 25 contributions, of which 8 were very good, 3 good, 10 average and rest were below average.

Issue # 7

Insulating a hot surface against ambient temperature is common with steam pipes, boiler or furnace walls. Most recommendations in this regard refer to manufacturers tables and do not calculate the required most economical thickness or check on financial attractiveness. It is pointed out that there is only one correct insulation thickness as shown in the picture. It is the thickness where the sum of the fuel cost due to losses and the annual depreciation costs of insulation is the smallest, (the lowest point of curve 3). This lowest point of the curve is not necessarily the insulation thickness where curve 1 and 2 intersect.



Tell us how you select insulation material and on what basis a decision is made concerning material selection and costs.

It is observed that most article have only stressed on the theoretical aspect of the articles. The main point of *calculating the required most economical thickness or check on financial attractiveness* has been missed by many. We are interested in the actual practical industry experience from your site. Technical references should be given for making the papers concise.

Mr. R V Nesari, give correct prospective of payback period, with examples of investment on standard vs. economic insulation thickness. His article is awarded the first prize

Mr. C Sethuraman, rightly points out that proper selection of Insulation is an art, he has explained through logical steps, the selecting procedure through a very simple flow chart

diagram. He has also illustrated the economical thickness, and also explained through a case study giving details and computation of pay back period. , we award him second prize.

Mr. Braj Nandan Singh, has touched every aspect of insulation categorically, with special mention to the degradation of insulation and the economics of the thickness calculation. He has also attached a software for calculating the economic thickness of insulation, we found the calculator very useful. We encourage industry members to send such technical calculators for the benefit of industry members. (Calculator uploaded in our website's home page section "Useful Tools"). We award him third prize.

The winners are:

| | | |
|----------------------------------|--------------|-------------|
| (1) Mr. RV Nesari (RCFL) | First Prize | (Rs. 5,000) |
| (2) Mr. C Sethuraman (CSIO) | Second Prize | (Rs. 3,000) |
| (3) Mr. Braj Nandan Singh (BSES) | Third Prize | (Rs. 2,000) |

There are two other appreciable papers worth mentioning though no award is given, these are submitted by:

1. Mr. Pandurang S Jalkote
2. Mr. Manish Khandelwal

Congratulations to all the winners! Keep up the good work.

Due to the increased number of papers, we will in the future award five prizes at Rs. 7,000, Rs 6,000, Rs 4,000, Rs 3,000, Rs 2,000.