

IPM offers the ultimate solution to protect boiler tubes from erosion, corrosion & high temperature oxidation.



Boiler tube coating being done by IPM at site.

IPM **A trusted name in Thermal Spray Technology.**

Established in **1972** & promoted by engineers.

INDIA LOSES THOUSAND OF CRORES OF RUPEES DUE TO BOILER TUBE FAILURE !

IPM offers *THERMAL SPRAY*:

A Reliable coating technology to prevent boiler tube failures due to external erosion, abrasion, corrosion & high temperature oxidation.

WHAT IS THERMAL SPRAY?

Thermal spray is a generic term for a group of processes in which a powder or wire feedstock is heated, either by electrical or chemical means, to its melting point, atomized by use of compressed air or gas and then propelled onto the prepared substrate. The molten particles strike the prepared surface and freeze instantly, build up layer upon layer to form a coating.

HOW THERMAL SPRAY CAN BE USED TO PREVENT BOILER TUBE FAILURE?

IPM offers, Thermal spray coating technology to provide a high temperature wear and corrosion resistant coating on the boiler tubes. A vast variety of coating materials such as metals, alloys, carbides, ceramics, cermets and composites are available. Hence suitable coating can be applied on the tubes to combat specific problem without affecting the tube material.

WHAT ARE THE ADVANTAGES OF THERMAL SPRAY TECHNOLOGY?

Thermal spray technology offers the following unique advantages that make it the most suitable process for doing protective coating on boiler tubes:

1. **COLD PROCESS:** Thermal spray is cold process so there is no risk of distortion or change in any property of the tubes.
2. **PORTABLE EQUIPMENT:** At IPM, we have a completely portable equipment to provide protective coatings on boiler tubes at site, in situ without dismantling the boiler accessories.

3. **REDUCED DOWN TIME:** Because of high deposition rate, as compared to conventional welding, and instant solidification of the sprayed material the down time is drastically reduced.
4. **HEAT TRANSFER:** There is negligible loss of heat as compared with conventional shields or refractories because the coatings have high thermal conductivity, low thickness and are applied directly to the tubes.
5. **THERMAL EXPANSION:** Coating can be tailored to match its thermal expansion with that of the tubes.
6. **LOCALISED REPAIR POSSIBLE:** Special attention can be given to erosion/corrosion prone areas by giving higher thickness or by using premier quality coating. Coating may only be applied on selected areas.
7. **NO LIMITATION OF SIZE:** Coating can be applied on the tubes already in place as well as to new tube assemblies prior/after installation, without any constraint of size or length of the tubes.

IS THERMAL SPRAY A PROVEN TECHNOLOGY?

This technology is being used all over the world with encouraging results, especially in the U.S.A. A number of studies conducted there have shown a many fold reduction in corrosion and erosion rate of the tubes by use of thermal sprayed protective coatings. More information is available on request.

WHO DOES THERMAL SPRAY IN INDIA?

Thirty-eight years of untiring commitment to excellence have made **IPM** an acknowledged leader in the field of Thermal spraying. The company, being managed by highly qualified and motivated Engineers is dedicated to service and total quality and is always ready to assist you to specify the most suitable and cost effective coating for your specific requirement. With proper selection and by adopting perfect technical process, our coatings provide outstanding service, even in highly abrasive environments. This will save your money on repeated replacement and down time.

For more information contact:

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