



INDO THERM ENGINEERS PVT. LTD.

Since 1985.....



Introduction



We introduce ourselves as specialist in the field of various type of Heat Treatment Equipment and its accessories .

Over decades we are manufacturers, stockiest and global sellers for various Heat Treatment Equipments such as **Power Sources, Micro Based Programmable Temperature Controller, High / Low Velocity Combustion System, Heating Element i.e. Ceramic Flexible Coil and Ceramic Flexible Mat Heaters, Finger Elements, Channel Heaters, Thermocouple Attachment Unit, Ancillary Equipments and Ceramic Insulation Fiber.**

Apart from Equipment Sales we have been successfully carrying out various types of In-House Heat Treatment services such as **Stress Relieving, Hardening , Tempering, Annealing, Normalizing, Solution Annealing, Flame Hardening, Spherodising , Thermal Refining** also for over three decades, we have been providing on-shore and off-shore Heat Treatment services such as **Pre-heating, Post weld heating, Hydrogen diffusion, Stress Relieving, Normalizing, Annealing, Re-factory dry out, Curing, Paint Baking, etc.** by Internal firing method using gas/oil, fired burners or localized heating by electrical heating method or by modular furnace for our esteemed customers in India and abroad.

We are also designers and manufacturers of Hi-Tech Semi-Automatic Micro-Processor based Programmable Controlled Permanent and Modular Furnace.

Apart from the above, all **Non-Destructive Examination services (RT, UT, MPI, and LPT)** are undertaken by our sister concern **M/s. "INDO THERM TEST HOUSE".**

We are fully geared up with advanced equipments, its technologies, engineers and technicians experienced in carrying out different NDT and Heat Treatment services.



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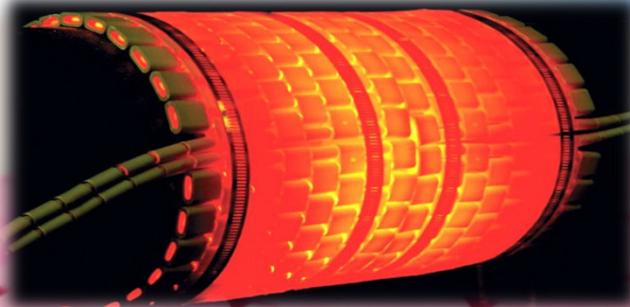
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Equipment Details - Electrical Heating Method

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50 KVA, 70 KVA, 125KVA. Transformer/ Heat Treatment Unit.
Provides safe Low Voltage power of 60/65 V and 80/85V to feed flexible heating elements for the purpose of Pre- heating, Post-heating and Post-weld Heat Treatment.

Ceramic Flexible Mat/ Finger (Coil) Heater:
Heaters are rated at low voltage of 30V, 32.5V, 40V, 42.5V, 60V, 65V and 85V available in wide range of sizes.



PID Temperature Controller :

The Micro processor based programmable temperature controller is used for controlling the rate of heating, soaking and rate of cooling for heat-treatment operations of 6/8/12 channels individually or simultaneously in conjunction with the power source unit or other contactorised unit.



Channel Heaters:

Channel Heaters are main voltage heating elements. The elements can be connected in 'STAR' or 'DELTA' and operated from 380/415/440V 3 phase supply.





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Internal Firing : Horton Sphere

We are proud to inform you that we successfully performed heat treatment of **more than 700 Horton Sphere in INDIA and ABROAD** ranging from 6 Mtr to 22.5 Mtrs.

Below are few of our job details :-

1. 22.5M DIA x 66MM Thk. x 11 Nos. RPL-JAMNAGAR - 2000
2. 20.60M DIA x 45.7/60MM x 4 Nos. LRIS SRI LANKA - 1999
3. 22.5M DIA x 66MM Thk. x 8 Nos. BVIS JAMNAGAR - 2009
4. 18 M DIA x 60MM Thk X 13 Nos. EIL DAHEJ OPAL -2013

And many more

We have carried out heat treatment of innumerable numbers of **mounded bullets , vessels and reactors** in workshop, site , in-situ conditions in India and abroad **ranging from 1mtr dia upto 9mtr and length from 5 mtr upto 90 mtr (in sections/full).**

Below are few of our job details :-

1. 5.2M I/D x 20 THK x 32.5M (L) PDIL IOCL, UNA -2003
2. 7.0M I/D x 28 THK X 51.4M (L) IRS HPCL, CHERAPALLI -2009
3. 7.8M I/D X 32 THK x 66.6M (L) EIL HPCL, VISAKHAPATNAM
4. 7.8M I/D x 32 THK x 70.0M(L) EIL HPCL BHATINDA-2012

And many more





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Internal Firing : Thin Wall Tank

We are proud to inform you that we successfully performed heat treatment of **more than 500 Thin wall storage tank** ranging from Dia 3 Mtr to 17.5 Mtrs and height from 3 Mtrs to 13.5 Mtrs.

Below are few of our job details.

1. 17.5M x 13.5M E.I.L. Newton Engg. Const.C. Ltd. MRPL, Mangalore
2. 11.3M x 9M E.I.L. Newton Engg. Constn.Co. Ltd. MRPL, Mangalore
3. 8M x 6M E.I.L. Newton Engg. Constn.Co. Ltd. IOCL, Haldia.
4. 10M x 13M E.I.L. Expo Gas Containers Ltd., Haldia.
5. 9.5M x 12M E.I.L. Larsen & Toubro Ltd. IOCL, Barauni.

And many more

Localized Electrical heating method

We are proud to inform you that we successfully performed localized per heating, post heating and post weld heat treatment by low voltage or mains supply of cir-seam / long-seam joints of bullets / columns ranging from Dia 1 Mtr to 12 Mtrs.

Pipeline joint heat treatment site details.

1. Chambal Fertilizer - Kota L&T-ECC
2. FCI Tata Project - Babrala - L&T-ECC
3. CSP Plant - Pokaran - L&T-ECC
4. North Refinery - Baghdad (Iraq) -OGSGL
5. Saipem - Ratbaa (Iraq) - NDT International
6. RIL - Jamnagar - RIL

And many more





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MODULAR / TEMPORARY FURNACES



Modular furnace at Godrej
Size : 37M L. x 7 M x 7M



Modular furnace at Godrej for
carrying reactor dome
Size : 11M L. x 11 M x 11M



Modular furnace at INDO THERM AMB for
M/s Larsen&Toubro - Powai.
Size : 18M L. x 6 M x 6M weighing 110 Tonnes

Modular furnace are temporary furnaces made with ISMC, ISMB, ISA, Flats and Ceramic fiber insulation.

We have successfully constructed and carried out heat treatment for various clients all over India at their works or site for furnaces ranging from various sizes

Length ranging from:-

- 10 Mtr to 45 Mtr

Width ranging from :-

- 4 Mtr to 11 Mtr

Height ranging from:-

- 4 Mtr to 11Mtr

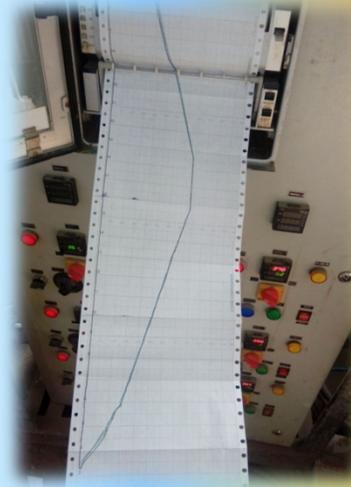


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MODULAR / TEMPORARY
FURNACES



Modular furnace installed at Reliance - Jamnagar
Size : 15M (L) x 5M (W) x 5M (H)
For carrying Stress Relieving of various size of pipe
spools of CS/ AS / P91 grade material.



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**Permanent Diesel Fired Furnace installed at
M/s Techno Process -Dahej Works , for carrying out
stress relieving , tempering and normalizing
Furnace Size : 7M (L) x 7 M (W) x 3M (H)
Charge weight -25 Tonnes**



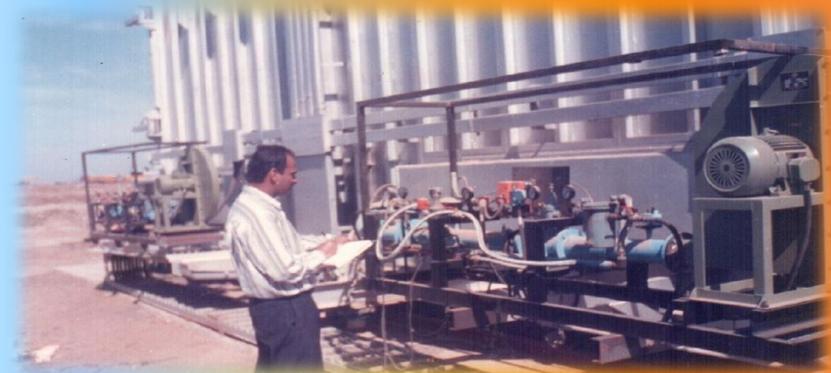


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RELIANCE
JAMNAGAR



Reliance Industrial Infrastructures

PURCHASE ORDER

PLANT: REL-IND-175

DATE: 04/07/99

OFFER REF: 99-010-010-1/2/99

DISCUSSION ON: 27/7/99

Sl. No.	Description	Units	Rate	Amount
1	Test and supply of ...	1	47,25,000.00	47,25,000.00
Grand Total: Rs. Fifty Lakh Only.				

Approved (Signature) "A", "B", "C", "D"
shall form part of this Purchase Order.

Roller cover with two fixed hearth Permanent Diesel Fired Furnace installed at M/s Reliance Industries LTD at Jamnagar site , for carrying out stress relieving of spools

Furnace Size : 14M (L) x 5 M (W) x 5M (H)

Charge weight -40 Tonnes

CONFIRMATION ORDER AGREEMENT

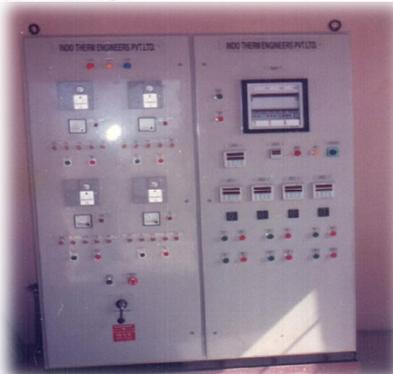
PROPERTY OF: M/S. RELIANCE INDUSTRIES LTD.

DATE: 04/07/99

AMOUNT: 47,25,000.00

STATUS: PAID

REMARKS: ...





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IN-HOUSE HEAT TREATMENT FACILITIES

Unit - I Thane Works.

1: - Bogie Hearth Furnace No. 1	:	5M(L) x 5M(W) x 2M(H)
2: - Bogie Hearth Furnace No. 2	:	3M(L) x 3M(W) x 3M(H)
3:- Muffle Furnace No. 5	:	0.6M(L) x 0.6M(W) x 0.5M(H)

Unit - II Ambernath Work.

1:- Bogie Hearth Furnace No.6	:	6M(L) x 6M(W) x 3M(H)
2:- Furnace No.7 (Modular)	:	16M (L) x 5M (W) x 5M (H)
3:- Furnace No.8 Bogie Hearth	:	6.5M(L) x 3.4M(W) x 2.5M(H)
4:- Furnace No.9 Bogie Hearth	:	5M(L) x 5M(W) x 2M(H)
5:- Furnace No.10 Bogie Hearth(Gas fired)	:	2M(L) x 2M(W) x 1.5M(H)
6:- Muffle Furnace No. 11	:	1.2M x 0.6M x 0.5M

Our both Thane and Ambernath works are approved by M/s LRIS , M/s IBR , M/s BAX-COUNCEL, M/s EIL, M/s TUV, M/s BVIS, M/s TOYO etc.



- We had carried out hardening and tempering of 600 dia x 6000 Lg ,wt. 13.30 M.T. in single piece in our Ambernath Furnace.
- Apart from the above, all Non-Destructive services (RT, UT, MPI, and LPT) are undertaken by our sister concern M/s. "INDO THERM TEST HOUSE".
- INDO THERM ENGINEERS PVT. LTD.** Also undertake on-site and off-shore heat-treatment services, in India and abroad.



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INDO
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Our Non-Destructive Testing Activities (Sister Concern- **INDO THERM TEST HOUSE**)



We take privilege to introduce ourselves as a competent and fast growing service engaged for last two decades in the field of Industrial Testing and Inspection Work, under **INDO THERM TEST HOUSE** geared up with a Team of highly qualified and well-experienced professionals, Engineers and Technicians. Our professionals are having Eight to Twenty years experience in their field of activities with various organization in India and over seas and are very much conversant with the latest Techniques and Technology. We execute work to National and International specification to the satisfaction of National and International surveillance agencies.

Detail activities of services we provide :

- Industrial Radiography with Ir-192 Source
- Industrial Radiography with X-ray.
- Ultrasonic Flaw Detection for welding, casting etc.
- Ultrasonic Thickness Measurement with D-Meter.
- Magnetic Particle Testing using Wet and Dry method (Fluorescent and Non -Fluorescent)
- Dry penetrate Testing
- Hardness Test.

We trust, you will give us an opportunity to serve you in near future and look forward to your long understanding association.



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Thank You..