

Me Ta  
22/12/22


----- Forwarded message -----

From: Thermochem Furnaces N.P.Sompura <thermochemfurnace@hotmail.com>  
Date: Thu, Dec 22, 2022 at 6:06 PM  
Subject: Re: REG. OFFER FOR SUPPLY OF CONTINUOUS AGING OVEN, BATCH AGING CUM ANNEALING OVEN  
To: purchase . <purchase@jindalaluminium.com>, info@thermochemfurnaces.com <info@thermochemfurnaces.com>  
Cc: Chintan Patel <marketing@thermochemfurnaces.com>, Vijay Kumar Singh <vksingh@jindalaluminium.com>, T. Nithyanand <tnithyanand@jindalaluminium.com>  
Date:- 22-12-2022

*Spallets  
Mr Hardik  
Agreed for  
final* 65,00,000

Dear Sir.,

Reference to our discussion held ., regarding the price inclusive of Erection & Commissioning Charges for 2 hot trials is as below :-

1-Aging Oven at Rs. ~~69,00,000/-~~ *68,00,000* / inclusive. *67,00,000* - FOR at your Bhiwadi Plant inclusive of E & C - 

2-Batch Aging Cum Annealing Furnace at Rs. ~~83,00,000/-~~ *82,00,000* / inclusive. *78,00,000* - FOR at your Bhiwadi Plant inclusive of E & C

Payment Terms :- 25% Advance against CAG.  
65% Basic with 100% GST against proforma invoice before dispatch after inspection by Jindal representative at our works ,

10% After successful commissioning against submission of bank guarantee for 1 year from the date of commissioning

Regards,

*Valid*

Hardik Sompura.

*Valid  
22/12/22*

Thermochem Furnaces Pvt Ltd,  
1603 & 1604, Phase ??? IV,  
G.I.D.C Estate, Wadhwan-363 035,  
Dist. Surendranagar, Gujarat.  
Tel:-?? 02752 243811  
Fax:- 02752 241813  
Mobile:- 09601551009  
Email:- [info@thermochemfurnaces.com](mailto:info@thermochemfurnaces.com), [thermochemfurnace@hotmail.com](mailto:thermochemfurnace@hotmail.com)



Jindal Aluminium

purchase . <purchase@jindalaluminium.com>

## REG. OFFER FOR SUPPLY OF CONTINUOUS AGING OVEN, BATCH AGING CUM ANNEALING OVEN

1 message

purchase . <purchase@jindalaluminium.com>

Thu, Dec 22, 2022 at 12:31 PM

To: info@thermochemfurnace.com, "Thermochem Furnaces N.P.Sompura" <thermochemfurnace@hotmail.com>

Cc: Chintan Patel <marketing@thermochemfurnaces.com>, Vijay Kumar Singh <vksingh@jindalaluminium.com>, "T. Nithyanand" <tnithyanand@jindalaluminium.com>

Msg. dtd. 22.12.2022

M/s. Thermochem Furnaces Pvt. Ltd.,  
Surendranagar, Gujarat

Kind attn : Mr. Hardik Sompura

With reference to your e.mail msg. dtd. 14.12.2022 for supply of Continuous Aging Oven and Batch Aging Cum Annealing Oven and also discussions we had with you.

As agreed, you will provide Safety Vent and shut off Valve in the Gas Train and also Safety Exhaust Provision in the Continuous Aging Oven.

You have also mentioned that you will check the feasibility of Mounting the Centrifugal Recirculation Fan at the top of the Aging Oven, kindly confirm.

As discussed we would like you to confirm the price of Aging Oven at Rs. 60,00,000/- and Batch Aging Cum Annealing Furnace at Rs. 72,00,000/-, free delivery at our Works with installation and commissioning within 15 days of time all inclusive.

→ Shall provide boarding and lodging facility for your Engineer / Technicians.

As informed to you installation and commissioning is part of your supply, separate charges indicated by you is not acceptable to us.

Kindly confirm your final price as discussed and can agree on the payment terms asked for:

01. 25% advance against CAG.

02. 65% basic with 100% GST will be paid against delivery of all the material as per BOM and certified by both of our Team.

03. 10% after successful commissioning against Performance Bank Guarantee valid for one year from the date of commissioning.

Warm Regards

T.Nithyanand

General Manager - Purchase

M: +91 9611-195-341

T: +91 8023-715-563 (382)

E: tnithyanand@JindalAluminium.com

Jindal Aluminium Limited

Jindal Nagar, Tumkur Road  
Bengaluru - 560073, India.



www.JindalAluminium.com



THERMOCHEM FURNACES PVT.LTD.



Plot No. 1604, C.I.D.C, Phase IV, Wadhwan City-363035 Dist. Surendranagar (Gujarat)  
Plt. No. (02752)243811 Fax : (02752)241813 E-mail : thermochemfurnace@hotmail.com

TF/2022/12/05/RO

Dec 05, 2022

To,  
JINDAL ALUMINIUM LTD  
SP 233, Riico Industrial Area,  
Sohna Road,  
Bhiwadi-301019  
Tel: 91 9611195368;

- ① There should be safety vent and shutoff valve in the gas train.
- ② Safety exhaust provision should be there to avoid any explosion

Email:-abhatia@jindalaluminium.com,rajgopal@jindalaluminium.com

Kind Attn:- Mr. Rajgopal Sharda (Purchase Department)

Sub. :- Techno- Commercial offer for 04 Ton/hr. Double Door Continuous Type Ageing Furnace for Aluminum Profiles for 250 C.

Dear Sir,

This has reference to our discussion regarding requirement of only ageing not annealing for 04 Ton/hr. Double Door continuous Type Ageing Furnace for Aluminium Profiles. Please find herewith the offer as per the requirement.

Thanking you and assuring you of our best attention and prompt services at all times.

Regards

N.P.Sompura M:-09426215943  
Hardik Sompura M :- 09601551009

*Diwakar*  
13/12/22  
Mr. Diwakar / Vikramjeet / S. Mishra  
*Vikramjeet*  
14/12/22

*Satyam* → RPS

*S. Paliwal*  
13/12/22

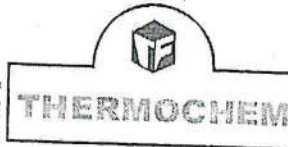
for your comments.



Thermochem Furnaces Pvt Ltd,

Note → O.K. Proceed. Aging Furnace is perfect as per production requirements  
→ DIWAKAR PANDEY

- ① Party confirmed on mail to check & implement the feasibility of mount the centrifugal Recirculation fan on top of furnace.
- ② Party confirmed that there will be trolley system for loading/unloading of material through chain Drive. — Satyam Paliwal



**A. Technical Specification.**

Sr. No	Description	
1	Furnace Capacity	04 MT/Per Hr.
2	Furnace Charge Weight	Charge Weight 18 Ton Charge Support Weight 4 Ton Apprx <b>Total 22 Ton Approx.</b>
	<b>Furnace Dimension (Approx)</b>	
3	Basket Loaded Size	Length 3660 mm Width 1140 mm Height 955 mm
4	Oven Inside Chamber dimensions- Aprx	Length 12000 mm Width 2600 mm Inside Height 3000 mm
5	Over all Dimension	Length 12800 mm Furnace Width 3400 mm Height 6000 mm (Considering door opening & duct)
6	Charge Material Details	Aging Aluminium Alloy Profiles
7	Electrical Supply Requirements	415V,3-Phase,50 Hz,4 Wire A.C  55 KW Recirculation Motor 2.2 KW Door-1 2.2 KW Door-2 3.7 KW Chain drive  Total 64 KW Approx

**THERMOCHEM FURNACES PVT.LTD.****THERMOCHEM**

Plot No. 1604 , G.I.D.C, Phase IV , Wadhwan City-363035 Dist. Surendranagar (Gujarat)  
Ph. No.(02752)243811,Fax :(02752)241813 E-mail :thermochemfurnace@hotmail.com

8	Natural Gas requirement	0.5-0.8 Bar Inlet Pressure, Flow :- 100 Nm <sup>3</sup> /Hr ( LNG)
9	Water Requirement	NILL
10	Max. Furnace Air Temp	250 C
11	Furnace Normal Operating Temp	180 C – 250 C
12	Metal Temperature Uniformity	+/-3 C at the end of Soaking
13	Skin temperature	25 °C above the ambient temperature
14	Rate of Heating	Min: - 50 °C/ Hr Approx Max: - 250 °C/ Hr Apprx
15	Total Cycle Time Aging Process Apprx	Every 6 No's of basket in 1.5 hours. Apprx
16	Furnace Atmosphere	Air
17	Fuel to be Used	LNG/LPG. Natural Consumption:- 15 m <sup>3</sup> /T ( LNG ) Apprx
18	Oven Zone	Oven have a 1 Nos control zone of both side of the oven
19	Gas Fired Burner	Furnace have the provision of 01 Nos of Gas Fired Burner with Auto ignition , flame Failure system , Combustion blower with Double solenoid valve with valve closure proving system of Honeywell/Dungs ( Gas Leak Test Detection & Valve Closure proving system )  Temperature Control Type :- High-Low Gas Fired Burner Capacity :- 600000 Kcal/Hr Burner Model :- EPB series Package burner
20	Gas Train Specification	Manual Valve – DN25 Qty : 01 Nos Gas Filter T- DN25 Qty :- 01 Nos Pressure Gauge :- 01 Nos Manual Cock –DH 15R40 Regulator Type :- J125 2-4 Bar Pressure Switch :- DG Qty :- 01 Nos



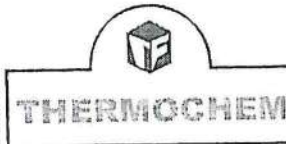
# THERMOCHEM FURNACES PVT.LTD.



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		Pressure Gauge :- 0-250 mbar Pointer Qty :- 01 Nos Solenoid valve Model :- VAS / DUNGS Tightness Control Model :- TC Regulator – DN 25
21	Control For gas Flow	Butterfly valve with Servo Motor Size :- DN25 Motor M7284
22	Burner Sequence Controller	Make :- ESA Pyronices  Ignition Transformer :- ESA Pyronices
23	Temperature Control	Through High/Low Temperature Controller fitted in the Control panel & Burner Regulator
24	Zone Thermocouple	Furnace have the following "K" type thermocouples  1-Air 03 No's for Indicating Thermocouples 2-Air 03 No's for Indicating thermocouples
25	Air Guide baffle	Oven have a provision of top side baffle MS for 02 Guide the hot air fan etc
26	Centrifugal Recirculation Fan	Furnace have the provision of 01 Nos Centrifugal mounted on the Side of the furnace.  Oven have Reversible horizontal Air Flow through change over valve via charge material length wise as per below flow direction From Right to Left and Left to right direction  Each rated at 55 KW VFD operated Drive Flow :- 60000 m3/Hr Pressure :- 125mmWC Impeller Dia :- 1120mm Impeller & Shaft Material :- MS Casing insulation :- 150 mm Ceramic fibre blanket RPM :- 900 Apprx

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		Speed :- VFD Control Dynamic Balancing as per ISO G6.3 Grade
27	Furnace Casing	Furnace outer body fabrication from 3mm Thick M.S Plate with suitable section.
28	Furnace Insulation	Furnace All side walls, Roof and Bottom all will be lined with Ceramic Fibre blanket lining covered with having various density of 64& 96 Kg/m <sup>3</sup> Total Thickness of insulation :- 150 mm
29	Furnace inner cladding	Furnace have the provision of 2 mm Thick MS cladding
30	No. of Door	02 No's
31	Door Structure	Fabricated from 3 mm Plate with Suitable Sections
32	Type of door operation	Electro mechanically operated Top opening type with Air Guide Deflector
33	Door motor rating	3 HP Brake-Motor with Gear Box Induction Motor make :-Crompton/ABB Gear Box-PBGL(Elecon)
34	Door Speed	5 Mtr/Min
35	Door Insulation	Door Will be lined with 150 mm Ceramic Fibre Blanket Lining with MS 2mm cladding
36	Chain drive system	Oven have the provision of chain drive system for basket movement. Chain drive by gear box with motor :-3.7 KW
37	Safety Interlocks	Following Safety interlocks will be Provided <ul style="list-style-type: none"><li>Broken thermocouple and over temperature protection.</li></ul>



		<ul style="list-style-type: none"> <li>• All motor shall be provided with overload protection.</li> <li>• Heating cannot start unless door is closed.</li> <li>• Unless the door is opened, the Charging trolley cannot charge into the furnace.</li> <li>• Unless the charging trolley is completely retracted from the furnace, the door should not Close.</li> </ul>
38	Door control limit switch	2 Nos. of Limit Switch will be provided for door up/down Position
39	Electric Power Control Panel	<p>01 No. Panel is fabricated from M.S. Sheet Power Control Panel and powder coated of Silvery Grey in housing with following electrical accessories &amp; equipment Make:-Rittal /Eldon/Pyrotek/Pragati</p> <p>Each Furnace will have the provision of Power &amp; Temperature Control Panel.</p> <p>→Process Temperature Controller ; - 01 Nos                  →Safety Temperature Controller :- 01 Nos</p> <p>→PLC will be Siemens-1200 Make                  →SCADA - Simantic Win CC will be Siemens Make                  →TIA Portal :- 15.1 version                  →VFD Drive for ACS 580 for Recirculation Blower Motor                  → MCC with short circuit and over current trip                  →HRC Fuse Base with links will be provided                  → Control Switches                  → Safety Fuses                  → Indicating Lamp Sets                  → Auxillary Contactors                  →Amp. &amp; Volt Meters</p>



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### **Purchaser Scope:-**

#### **1-POWER & CONTROL CABLES**

All power and control cables excluding cable trays along with cable accessories from MCC panel to respective equipment will be provided by Purchaser.

Incoming supply from client's distribution board to individual MCC will be Supplied by Purchaser

#### **2-Charge Basket**

#### **3-Civil Works with Trolley track etc**

#### **4-Gas & Power Line upto Control Panel**

#### **PAINTING**

We include for the following paint specification for the furnace casing and structure:

→ Two coats of Heat resistant Aluminum paint will be provided on all mild steel structure before DISPATCH. Final one coat of Aluminum paint will be provided after repairing of initial painting at site once cold trail of the furnace is over.

All bought out components will maintain manufacturer's standard finish painting.

**THERMOCHEM FURNACES PVT.LTD.**



**THERMOCHEM**

Plot No. 1604 , G.I.D.C, Phase IV , Wadhwan City-363035 Dist. Surendranagar (Gujarat)  
Ph. No.(02752)243811 Fax :(02752)244813 E-mail :thermochemfurnace@hotmail.com

**COMMERCIAL OFFER:-**

Description	At Our Works Unit Price(Rs.)	Qty	Total Price (Rs.)
4 Ton/hr Gas Fired Double Door continuous Type Ageing Furnace with Control Panel For Aluminium Profiles  Without Charge Baskets	78,00,000/-	01	<del>78,00,000/-</del>
Erection & Commissioning Charges To & Fro tickets , Loading & Boarding on purchaser scope	3,50,000/-	01	<del>3,50,000/-</del>

Thermochem Furnaces Pvt.Ltd.

Director

Rs. 67,00,000/-

**THERMOCHEM FURNACES PVT.LTD.**



**THERMOCHEM**

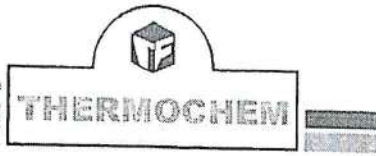
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Ph. No.(02752)243811,Fax :02752)244813 E-mail :thermochemfurnace@hotmail.com

**Terms & Conditions:-**

→ PRICE BASIS	At your <u>Works Bhiwadi</u> ✓
→ FREIGHT	<u>Paid Basis</u> ✓
→ PACKING & FORWARDING	<del>30,000/-Rs Extra</del> <u>Nil</u> (Included) ✓
→ GST	<u>18% Extra</u> ✓
→ TRANSIT INSURANCE	Has to be arranged by <u>Purchaser</u> . However we will immediately dispatch the particulars ✓ <u>JAL ALC.</u>
→ DELIVERY TIME	<u>Within 6 Months</u> ✓  The above time schedules are from the date of receipt of your order technically and commercially clear in all respects & timely approval of GA and Layout drawings.  The delivery has been offered with good faith subject to force measure conditions.
→ PAYMENT TERMS	<u>85%</u> <u>65%</u> <u>10%</u>  <del>40% as advance along with the order</del> <del>50% of Ex-works value+100% taxes &amp; duties after pre dispatch inspection and prior to dispatch.</del> <del>10% after commissioning</del>
→ ERECTION & COMMISSIONING PAYMENT	<u>Included</u>  <del>30% as advance at time of deputation of man power.</del> <del>30% after 50% work Completion</del> <del>30% after 75% work completion</del> <del>10% after 100% work completion</del>
→ WARE HOUSE CHARGES	<u>Nil</u>  If Furnaces delivery has not been taken within 30 days after readiness of furnace  Ware house charges @ 1.5% interest on balance amount will be charges per month
→ INSPECTION	<u>will be done by JAL</u>  If you require physical/visual inspection of the equipment in knocked down condition, can be had at our works before dispatch by your authorized



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	representatives. The final inspection and test can be carried out at consignee's Site after erection and commissioning.
LATE DELIVERY	No Late Delivery clause is applicable, unless agreed upon in written. <i>— Nil</i>
UNLOADING OF THE EQUIPMENT <i>JOL SCOP</i>	Our offer does not include unloading of the dispatched consignment at Consignee's site/stores. The consignee has to arrange for unloading the incoming consignment, bringing the materials to proper erection site when erection starts. The materials received by the consignee should be properly stored under covered area to prevent from rain.
SUB-CONTRACTING <i>N.A</i>	We reserve the right to buy parts, semi-finished parts from sub-contractors and also to sub-contract any portion of the work as may be found necessary for betterment of the equipment. However, we will be responsible for the complete supply of the equipment.
WARRANTY	We stand <u>WARRANTY</u> for the equipment against defective design/faulty workmanship for a <u>period of 18 months from the date of dispatch of equipment or 12 months from the date of commissioning whichever is earlier.</u> However this Warranty does not apply of parts which are subject to normal wear and tear and require periodical replacement such as rubber parts, refractory items electrical/electronic items and other perishable items and if the components are found damaged during transit to bad storage, misuse or mishandling of the equipment by you.
VALIDITY	30 Days
JURISDICTION	All dispute are subject to Surendranagar jurisdiction
CANCELLATIONS	In case of cancellation of LOI / Purchase order, following cancellation charges will apply. Within 1 month of LOI / Order: 20% Within 2 month of order: 50% After 2 months of order: 100%