

# PRECISION CONTROLS

424, Sidco Industrial Estate, Ambattur, Chennai-600 098, INDIA

Tel: 91-44-61344200 -299 (100 lines) ; Email : [info@precons.in](mailto:info@precons.in)

**ANNEXURE – I**

## **6T / 7T / 30 TONNE BELL TYPE ANNEALING FURNACES**

### **I) WIRE ROD PROCESSING INDUSTRIES**

Sl. No.	CUSTOMER	EQUIPMENT DESCRIPTION
1.	Mirra and Mirra Industries Chennai.(PRECON Group)	8 Bells + 10 Bases 1 Bell + 2 Bases <b>(30T)</b>
2	Samrat Wires and Steels – Navi Mumbai	2 Bells + 3 Bases 1 Bell + 2 Bases
3	Light Metal Industries SDN, BHD, Malaysia	2 Bells + 3 Bases
4	Super Screws Pvt. Ltd., Faridabad	3 Bells + 5 Bases
5	Hanumat Udyog Wires Pvt. Ltd., Rohtak	4 Bells + 6 Bases
6	SHRI Chari Wires, Faridabad	4 Bells + 8 Bases & 2 + 4 bases (7 T capacity)
7	Mica Industries Ltd., Bhiwadi	4 bells + 6 bases.
8	Rohit Steels, Rohtak	1 Bell + 2 Bases <b>(30T) &amp;</b> 2 Bell + 3 Bases

### **II) FASTENERS AND AUTO COMPONENTS MANUFACTURERS**

Sl. No.	CUSTOMER	EQUIPMENT DESCRIPTION
1.	Sundaram Fasteners Ltd. Chennai & Madurai Plants	3 Bells + 6 Bases
2.	Virani Fasteners, Rajkot (Through ISPL Industries Ltd., Mumbai)	2 Bells + 4 Bases
3.	Pooja Forge Ltd., Faridabad.	6 Bells + 10 Bases
4.	Punch Ratna Steels Pvt. Ltd., - Rohtak	4 Bells + 6 Bases
5.	Deepak Fasteners International Ltd., Ludhiana <b>(Unbrako)</b>	2 Bells + 3 Bases
6.	KDK Fasteners (Deepak Fasteners Ltd), Ludhiana (Unbrako), Himachal Pradesh	2 Bells + 3 Bases
7.	Lakshmi Card clothing Mfg. – Coimbatore	2 Bells + 3 Bases
8.	Sterling Tools Ltd., - Faridabad	4 Bells + 6 Bases 4 Bells + 6 Bases <b>(7.5 T capacity)</b>
9.	L.G. Balakrishnan & Bros. Ltd., Coimbatore	1 Bell + 3 Bases.
10.	Super Auto Forge Ltd, Chennai	2 Bell + 4 Bases (7.5T)

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## **III) STEEL MILLS**

Sl.No	Customer Name	Description
1.	Usha Martin Limited. Ranchi & Jamshedpur	13 Bells + 18 Bases (7T & 15T)
2.	Kalyani Carpenter Special Steels Ltd., Pune	3 Bells + 3 Bases
3.	Sunflag Iron and Steels, Nagpur	1 Bell + 2 Bases (30T) 2 Bells + 3 bases (30 T) <b>(Commissioned June 2018)</b>

## **IV) MINTS**

Sl.No	Customer Name	Description
1.	India Government Mint – Kolkata, Hyderabad & Mumbai.	6 Bells + 12 Bases

## **V) BRIGHT BAR INDUSTRIES**

Sl.No	Customer Name	Description
1.	Joneja Iron & Steel Co., Faridabad	4 Bells + 7 Bases
2.	Omega Bright Bars	1 Bell + 2 Bases

## **VI) TRANSFORMER INDUSTRIES**

Sl.No	Customer Name	Description
1.	Pauwels Transformer Ltd. <b>USA</b>	2 Bells + 3 Bases

## **VII) INDIAN RAILWAYS**

Sl.No	Customer Name	Description
1.	Loco Works, Perambur	1 Bell + 2 Bases

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**ANNEXURE - II**

## **CONTINUOUS HARDENING AND TEMPERING FURNACES**

### **FASTENERS MANUFACTURERS**

S.No	CUSTOMER	Capacity
1	M/s. Sundram Fasteners Ltd Uttarkhand	1000 Kgs/hr
2	M/S. Punch Ratna Fasteners Pvt. Ltd. Rohtak.	450 Kg/hr
3	M/s. Micro Turners-VI, Harraipur, Solan Distt. Himachal Pradesh.	450 Kg/hr
4	M/s. Mohindra Fasteners Ltd., Rohtak	450 Kg/hr (2 Nos)
5	M/s Deepak Fasteners Ltd – <b>UNBRAKO</b> - Ludhiana	450 Kg/hr (2 Nos)
6	M/s Deepak Fasteners Ltd – <b>UNBRAKO</b> Himachal Pradesh	450 Kg/hr
7	M/s. RBM Industries, Faridabad	200-250 Kg/hr
8	M/s Deepak Fasteners Ltd – <b>UNBRAKO</b> – Doraha Ludhiana	1200 Kg/hr
9	M/s. A.K. Automatics, Rhotak, Haryana. (Micro Turners – Group)	1200 Kg/hr
10	M/s. Nexo Industries, Ludhiana	1200 Kg/hr

### **AUTO COMPONENTS MANUFACTURERS**

Sl.No	Customer Name	Description
1.	M/s. Aurangabad Electrical Pvt. Ltd. ( <b>BAGLA group</b> ) Near Chitegaon, Tq. Paithan Dist. Aurangabad	450 Kg/hr (3 Nos.) & 1200 Kg/hr
2	Avdhoot Heat Treat Pvt. Ltd., Ambad, Nasik	500 Kgs/hr
3	Sangkaj Engineering Pvt Ltd Aurangabad	500 Kgs/hr

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## ANNEXURE - III

### GAS / HSD / OIL FIRED FURNACES :

#### 1) POWER SECTOR

Sl. No.	Customer	Equipment Description
1.	M/s. Bharat Heavy Electricals Ltd., Trichy	<b>1) LPG</b> fired <b>50 T</b> Double Bogie Hearth Furnace for Heat Treatment 15500 L x 4500 W x 2200 H Temp : 1100 ° C
		<b>2) LPG</b> fired <b>40 T</b> Bogie Hearth Heat Treatment Furnace 5000 L x 4000 W x 2000 mm H Temp : 1200 ° C
		<b>3) LPG</b> fired <b>20 T</b> Bogie Hearth Heat Treatment Furnace 8500 L x 4500 W x 500 mm H above job support piers. Temp : 1260 ° C
		<b>4) LPG</b> fired <b>8 T</b> Roller Hearth Furnace for Heat Treatment. (Continuous Discharge Furnace) 16000 L x 3850 W x 800 mm H above roller. Temp : 800 ° C
		<b>5) 2<sup>nd</sup> LPG</b> fired <b>8 T</b> Roller Hearth Furnace for Heat Treatment. (Continuous Discharge Furnace) 16000 L x 3850 W x 800 mm H above roller. Temp : 800 ° C
		<b>6) 3<sup>rd</sup> LPG</b> fired <b>8 T</b> Roller Hearth Furnace for Heat Treatment. (Continuous Discharge Furnace) ; 16000 L x 3850 W x 800 mm H above roller. ; Temp : 800 ° C

#### 2) FORGING INDUSTRIES

1.	M/s. Bay-Forge Ltd. Madurantakam	<b>1) LPG</b> fired <b>100 T</b> Box Type Heating Furnace. Size : 3000 mm L x 5200 mm W x 2850 mm H. Maximum temperature : 1300 ° C
		<b>2) LPG</b> fired <b>60 T</b> Bogie Hearth Heat Treatment Furnace. Size : 5500 mm L x 5500 mm W x 2500 mm H Maximum temperature : 1250 ° C

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## 3) STEEL MILLS

Sl.No	Customer Name	Description
1.	M/s. Sunflag Iron & Steel Co., LTd., - Nagpur	<b>30 T Dual fuel</b> fired Bell Type Annealing furnace Size : 3950 mm dia x 3500 mm H Temp : 900° C
2.	M/s. Gontermann-Peipers (India) Ltd. Kolkatta.	<b>1) 80T LPG</b> fired Bogie Hearth Heat Treatment Furnace - <b>4 Nos.</b> (with pulse firing fuel control) Size : 11000 mm (L) x 4500 mm (W) x 3400 mm (H) Max. working temperature 1150 °C
		<b>2) 50T LPG</b> fired Bogie Hearth Heat Treatment Furnace - <b>2 Nos.</b> (with pulse firing fuel control) Size : 11000 mm (L) x 3500 mm (W) x 3400 mm (H) Max. working temperature 1150 °C

## 4) STEEL PROCESSING INDUSTRIES

Sl.No	Customer Name	Description
1.	Veritas Industries Ltd., Dist. Valsad, Gujarat	<b>6T CNG</b> Fired Bell Type Annealing furnace Size : 1650 mm dia x 3200 mm H Temp : 900 ° C
2.	M/s.Chung Yih steel – Malaysia	<b>3 T LPG</b> fired Bar Hardening furnace - <b>2 Nos</b> Size : 6500 (L) x 800 W) x 500 mm H Temp : 1100° C

## 5) ABRASIVES

Sl.No	Customer Name	Description
1.	Sterling Abrasive Ltd., Ahmadabad	<b>LPG</b> Fired Rotary Kiln Tube dia : 500 mm OD x 7500 mm L Temp : 900 ° C Capacity : <b>200 Kg/hr</b>
2.	Carborandum universal Ltd., Chennai	<b>LPG / Kerosene</b> fired Rotary Kiln Tube dia : 500 mm OD x 7500 mm L Temp : 900 ° C Capacity : <b>200 Kg/hr = 3 Nos.</b>

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## ANNEXURE - IV

### SOLUTION TREATMENT & AGEING FURNACES

#### **1) AEROSPACE INDUSTRIES**

Sl.No	Customer Name	Equipment
1.	Hindustan Aeronautics Ltd., <b>Nasik</b> (Order from VSSC, Trivandrum)	Pit Furnace for 1100° C Size : 2500 Ø x 4000 mm H Rating : 720 KW (For SLV3 Project of VSSC, Trivandrum)
2	Hindustan Aeronautics Ltd <b>Nasik</b>	Box Type Hardening furnace Qty : 2 Nos ; Size : 1500 x 700 x 450 mm Max Temp: 1100° C
3.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore	Oven for Hydrogen De-embrittlement for max. temperature of 300° C Size : 1.9 M x 1.5 M x 1.5 M
4.	Hindustan Aeronautics Ltd., <b>Nasik</b>	Elevated Hearth Drop Bottom furnace for 600° C Size : 800 x 400 x 400 mm ; Rating : 21 KW
5.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore	Ageing Oven Size: 1200 W x 2000 H x 3000 mm L Max. Temp. 180°C
6.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore (Order from VSSC, Trivandrum for PSLV Project)	Bogie Hearth Furnace for Aluminium Solution Treatment. Size : 5000 x 5000 x 4000 mm L Max. Temp. 600° C Rating : 630 KW in 3 zones
7.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore (Order from VSSC, Trivandrum for PSLV Project)	Bogie Hearth Aluminium Precipitation Hardening/Ageing Oven Size : 5.5 W x 5.5 H x 15.0 M L Max . Temp. 250 °C Rating : 525 KW in 5 zones
8.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore	Bogie Hearth Ageing Oven Size : 3 M x 2 M x 2 M ;Max Temp.: 200° C Rating : 90 Kw in 2 zones
9.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> (Order from DRDL , Hyderabad for Prithivi Project.)	Elevated Hearth Drop Bottom Furnace for Al.Solution Furnace. Size : 2000 Ø x 2500 mm H Rating : 210 Kw in 2 zones

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Sl.No	Customer Name	Description
10.	Hindustan Aeronautics Ltd., <b>Aerospace Division</b> Bangalore	Box Type Tempering furnace Size : 800 W x 800 H x 1000 mm L Max. Temp. 750 ° C Rating : 30 KW
11	Hindustan Aeronautics Ltd., Aerospace Division– Bangalore (Order from LPSC – B'lore)	Vacuum Chamber and Vacuum Pumping System for EBW facility Size : 4200 mm dia x 5600 mm Length Vacuum Level 1x 10 <sup>-4</sup> torr
12.	Hindustan Aeronautics Ltd., Engine Division, Bangalore	Air Circulation Furnace Size : 36" x 36" x 36";Max Temp : 750° C Rating : 50 KW in single zone
13.	Hindustan Aeronautics Ltd., Helicopter Division ARDC, ALH Composite Shop LCA Complex, Bangalore	Electric Programmable curing Oven Size : 4000 x 2500 H x 10000 mm L Max. Temp.: 250° C Rating : 960 KW in 5 zones
14.		Electric Programmable curing Oven Size: 3000 W x 2000H x 6000 mm L Max Temp: 250° C; Rating : 520 KW in 4 zones
15	Hindustan Aeronautics Ltd Foundry & Forge Division , Bangalore	Box Type High Temperature Furnace Size : 1000 W x 750 mm H x 1500 mm L Working temp.: 800 to 1200°C; Rating : 74 KW
16	Hindustan Aeronautics Ltd. Foundry & Forge Division Bangalore.	Drop Bottom Quench Furnace for Aluminium Solution Treatment Furnace Size : 1500 mm dia x 1500 mm H. Working temperature : 650 °C Heating rating : 150 KW
17.	M/s.Bay-forge Ltd, Chennai (Formerly Fomas India Ltd) (for VSSC Project)	Drop Bottom Quench furnace Size : 5500 x 5500 x 2500mm H (Movable Type furnace) Capacity : 20T
18.	M/s.Bharat Aluminium Co., Ltd Korba (for VSSC Project)	i)Drop bottom quench Solution Treatment furnace Size : 1000 x 9000 L x 1800 mmH Capacity : 5T charge + 2 T fixture ii) Ageing Oven Size : 1200 H x 1800 W x 9000 L Capacity : 5T + 2 T fixture

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Sl.No	Customer Name	Description
19.	M/s.BrahMos Aerospace Ltd Trivandrum (Formerly : Kerala Hitech Industries Ltd)	Drop bottom quench furnace Size : 3000 mm dia x 1500 mm Height Charge weight : 1T
20	M/s.Larsen & Toubro Ltd Mumbai (for VSSC Project)	i)Electrical Vertical Cylindrical Split type furnace Size : 4000 mm Dia x 9000 mm H Capacity : 6.5T ; Maximum Temp : 600 Deg C  ii)Composite Curing Oven Inner Chamber Size:13000 Lx1200 W x 1200mmH Max Temperature : 400 Deg C
21	M/s.PT Dirgantara Indonesia (Persero), Indonesian Aerospace Industry , Indonesia	Ageing Oven Size : 4000 W x 4500 L x 2500 mm H Temperature : 225 Deg C
22	M/s.Tata Advanced Materials Ltd, Bangalore	Programmable Curing Oven Size : 5000 L x 4000 W x 2100 mm H Temperature : 210 Deg C

## 2) ALUMINIUM AND ALUMINIUM CONDUCTOR INDUSTRIES

Sl.No	Customer Name	Equipment
1.	Sudharsan Aluminium Industries Ltd, Nasik	Bogie Hearth Furnace for Al. Homogenising max temp.700 Deg C Size : 3200 x 1500 x 1000 mm H.
2	Orissa Extrusions Ltd, Balesore	a)Bogie Hearth Ageing Furnace Size : 12000 x 2100 x 1750 mm ; Capacity : 9 tons / Batch Max Temp. 230 Deg C, 500 KW b) Grooved Hearth Furnace for Homogenising of Al. Logs ; Capacity : 13 tonnes / Batch Max temp. 620 Deg Size : 4500 x 2100 x 1700 mm Rating : 750 KW
4.	M/s.Narmada Aluminium Extrusion Ltd, Baruch	Gas Fired Al.Billet Heating Furnace for max temp. 600 Deg C ; Capacity : 1.6 T / Hr Billet Size : 6"- 7" dia x 14"-24" dia
5.	M/s.Kaluwoks Ltd, Kenya	Bogie Hearth Annealing Furnace, Kenya Size : 3750 x 2700 x 2000 mm ; Capacity : 13 tons / Batch. Max temp 500°C, 360 KW.



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Sl.No	Customer Name	Description
6.	Escorts Ltd, Patiala	Drop Bottom Quench Solutionising Furnace - Charge basket size : 850 dia x 1000 mm Ht Oper. Temperature : 480 – 510°C
7.	M/s.Goetz India Limited (formerly ESCORTS Mahle Ltd, Patiala)	Bottom Drop -Quench furnace for Al. Size :850 Ø x 1000 mm Ht;Op. Temp: 480-510°C
8.	M/s.Goetz India Limited (formerly ESCORTS Mahle Ltd, Bangalore)	Bottom Drop -Quench furnace for Al. Solution Treatment. ; Size :850 Ø x 1000 mm Ht; Op. Temp: 480-510°C
9.	M/s.Century Extrusions Ltd, Kolkata	Die Preheaters – 2 Nos 1200 L x 1200 W x 600 D Temp. Max. 550 °C
10.	M/s.Bharat Aluminium Company Ltd, Korba	Soaking Pit for Billet heating furnace Size : 6300 L x 2400 W x 4000 mm D Temperature : 640°C
11.	Sterlite Industries Ltd. Karanjawane.	1) Bogie Hearth Solutionising cum Ageing Furnace for max. 750 °C Size: 2200 L x 1200 W x 1000 H 2) Bogie Hearth Ageing Furnace – 200 °C Size: 2680 L x 2600 W x 800 mm H & 3) Bogie Hearth Ageing Furnace – 200 °C Size: 3800 L x 1850 W x 1700 H.
12	Sterlite Industries Ltd. Silvassa	1) Bell type Furnace for Solution Treatment & Ageing. – Max. 600 °C Size: 5250 L x 1400 W x 1500 H. 2) Double Bogie Hearth Annealing Furnace for 400 °C ; Size: 4250 L x 1500 W x 2100 mm H.
13	Sterlite Industries Ltd. Haridwar.	Double Bogie Hearth Ageing Furnace –2 Nos Max. temperature : 200 °C Size: 7200 L x 1850 W x 1700 mm H.
14	Sterlite Industries Ltd. Jarsuguda	Double Bogie Hearth Ageing Furnace -400°C Size: 5900 L x 2120 W x 900 mm H.

### **3. DEFENCE ESTABLISHMENTS :**

Sl. No.	Customer Name	Equipment
1.	Ordnance Factory, Ambarnath	Vertical Solution Heat Treatment Furnace Charge basket size : 600 x 3600 mm H Max temperature : 600 Deg C

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ANNEXURE – V

## ROTARY TUBE FURNACES / ROTARY KILNS

### DEPARTMENT OF ATOMIC ENERGY

Sl. No.	CUSTOMER	EQUIPMENT DESCRIPTION
1.	Nuclear Fuel Complex Dept of Atomic Energy Hyderabad	Rotary Furnace tube and accessories. Size : 500 OD x 6000 mm L ; Max: Temp: 800 ° C
2.	Nuclear Fuel Complex Dept of Atomic Energy Hyderabad	Rotary Furnace tube and accessories. Size : 500 OD x 6000 mm L Max: Temp: 800 ° C
3.	Atomic Mineral Division Regional Centre; Shillong	Electrically heated Rotary Dryer For Exploration and Research Capacity: 1.5- 2T/8 Hrs ; Size: 800 Ø x 6000mm L Max. Temp:70 – 90° C
4.	DPS, BARC Radio Metallurgy Division Trombay, Mumbai	Resistance Heated Rotary Tube Furnace For: Calcination & Reduction of Ceramic Oxides. Capacity : 5-10 Kg/hr;Tube size: 200 Ø x 2000 mm L Max Temp: 1000 ° C
5.	Directorate of Purchase & Stores – HRPU, Dept of Atomic Energy, NFC, Hyderabad	Rotary Kilns for Calcination, Reduction, stabilization and Reoxidation Size : 500 mm OD x 6000 mm L Temp : 800 ° C;Capacity : 100 Kg/hr approx
6.	Bhabha Atomic Research Centre, Mumbai	Rotary Tubular Converter Tube size : 500 OD x 6400 mm L Capacity:90 Kg/hr approx, Max temp :1000 °C.
7.	Directorate of Purchase & Stores for BARC, Uranium Extraction Division, Mumbai	Electrically Heated Rotary Tube Furnace 2-3 Kg/hr. Temp: 800 °C; Tube Size: 100 dia x 2500 mm L ; Temperature : 1150°C
8.	Directorate of Purchase & Stores for BARC, Materials & Processing Divn	Multi Purpose Rotary Tubular Converter 10 Kg/Hr. ;Tube Size: 200 OD x 6000 mm L Temperature : 1150 ° C
9.	Directorate of Purchase & Stores for BARC, Uranium Extraction Division, Mumbai	Multi Purpose Rotary Tubular Converter 10 Kg/Hr,Tube Size : 200 OD x 6000 mm L Temperature : 1150 °C
10.	Nuclear Fuel Complex Dept of Atomic Energy, Tuticorin	HT Calciner furnace Size : 500 Dia x 6000 mm L;Temperature : 1000°C
11.	Nuclear Fuel Complex, DAE, Tuticorin	Oxidiser Furnace Size : 500 OD x 6000 mm L ; Temperature : 850 Deg C
12.	Uranium Corporation of India Ltd Jharkhand	Rotary Dryer Size : 500 m OD x 6000mm L; Temp : 350 Deg C

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## **PIT TYPE FURNACES WITH SEALED RETORT**

## **Annexue - VI**

<b>SI No.</b>	<b>CUSTOMER</b>	<b>EQUIPMENT DESCRIPTION</b>
1.	Bhabha Atomic Research Centre, Mumbai	Size : 1000 mm dia x 1500 mm D Max Temp : 700 Deg C
2.	Nuclear Fuel Complex, ZSP Hyderabad	(i)Size : 1540 dia x 4330mm H Max Temp : 1000 Deg C = 2 Nos. (ii) Size : 1540 dia x 2200 mm H Max Temp : 1000 Deg C = 2 Nos.
3.	Nuclear Fuel Complex, ZSP Hyderabad	(i)Size : 1730 dia x 5275 mm H Max Temp : 1000 Deg C = 6 Nos. (ii)Size : 1540 dia x 4480 mm H Max Temp : 1000 Deg C = 2 Nos.
4.	Defence Metallurgical Research Lab, Titanium Sponge Plant, Hyderabad	Size : 1745 dia x 5450mm H Max Temp : 480 KW in 8 zones
5.	DGP Windsor (India) Ltd (Formerly M/s.R.H.Windsor India Ltd) Vatva	Size : 800 mm Dia x 3300mm H Max temp : 700 Deg C
6.	DGP Windsor (India) Ltd, For Vatva Plant, Ahmedabad	Size : 1200 Dia x 5500 mm H Max Temp : 700 Deg C
7.	Battenfeld Ahmedabad (formerly : Mafatlal Micro Machines Pvt Ltd)	Size : 1000 dia x 6350 mm H Max Temp : 700 Deg C
8.	Lakshmi Precision Screws Ltd, Rohtak, Haryana	Size : 650 dia x 1600 mm H Max Temp : 950 Deg C
9.	MARC Manufacturers Pvt Ltd, Hyderabad	Size : 1200 dia x 2500 mm H Max Temp : 1050 Deg C = 2 Nos.
10.	Sundram Fasteners Ltd, Hosur	Size : 1050 Dia x 2000mm H Max Temp : 950 Deg C
11.	Lakshmi Precision Screws Ltd, Rohtak	Size : 650 Dia x 1600 mm H Max Temp : 950 Deg C
12.	LG Balakrishnan & Bros Ltd, Coimbatore	Size : 1050 Dia x 2000 mm H Max Temp : 950 Deg C
13.	Hindustan Aeronatics Ltd, Nasik	Size : 2500 dia x 4000 mm H Max Temp : 1100 Deg C

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## **ANNEXURE – VII**

### **VACUUM CHAMBERS AND AUTOCLAVE**

#### **AEROSPACE INDUSTRIES**

Sl.No	Customer Name	Equipment
1.	Liquid Propulsion System Centre Installed at Hindustan Aeronautics Ltd, Aerospace Division Bangalore	Triple Vacuum chambers & Pumping System Chamber I : 3200 mm dia x 2900 mm Ht (SS 304 15 mm thick plate) Chamber II : 1200 mm dia x 1750 mm Ht (SS 304 10 mm thick plate) Chamber III : 640 mm dia x 860 mm Ht (SS 304 6 mm thick plate) Vacuum Level : 1 x 10 <sup>(-5)</sup> torr
2	Liquid Propulsion System Centre Installed at Hindustan Aeronautics Ltd, Aerospace Division Bangalore	Vacuum Chamber and Pumping system for Electronic Beam Welding Facility Hindustan Aeronautics Ltd., Aerospace Divn Chamber Size : 4200 dia x 5600 mm (SS 321 – 22 & 25 mm thick plates) Vacuum Level : 1 x 10 <sup>(-4)</sup> torr
3	ISRO Inertial Systems Unit Vattiyoorkavu, - Trivandrum	Vacuum Chamber Chamber Size : 1250 dia x 1250 mm L (SS 304 8 mm thick plate) Vacuum Level : 1 x 10 <sup>(-6)</sup> m.bar.
4	Liquid Propulsion System Centre Vaiamala, PO : Trivandrum	Vacuum Chamber Chamber Size : 2000 dia x 4200 mm L Vacuum Level : 1 x 10 <sup>(-3)</sup> mbar (Working Pressure) Design Pressure : 1 x 10 <sup>(-6)</sup> mbar
5.	Nuclear Fuel Complex, Hyderabad	Vacuum Chamber for High Vacuum Baking Oven Chamber Size : 750 mm Dia x 3300 mm L
6.	ISRO Satellite Centre Bangalore	Vacuum Chamber Chamber size -1 : 1200 Dia x 1800mm L Chamber size -2 : 1200 Dia x 1200 mm L Vacuum Level : 1 x 10 <sup>(-6)</sup> mbar
7.	Larsen & Toubro Ltd Mumbai	Autoclave Size : 1300mm Dia x 2500 mm H Working Pressure : 10 bar Max. temperature : 400 Deg C

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## ANNEXURE - VIII

### BOX TYPE & BOGIE TYPE FURNACES

Sl.No	Customer Name	Description
<b>A</b>	<b>BOX TYPE FURNACE</b>	
1	Bharat Aluminium Co. Ltd., Korba	80T Soaking Pit Furnace for Al. Slab heating – 640 °C ; Cross Section: 6300 x 2400 mm ; Depth : 4000 mm.
2	Bay-Forge Ltd. Madurantakam.	5T Box type Titanium Heating Furnace for max. 1100 °C ; Size: 2000 D x 4200 W x 1800 mm H
3	Hindustan Aeronautics Ltd. Foundry Forge Division, B'lore	Size : 1500 L x 1000 W x 750 mm H Max. temperature : 1200 °C.
<b>B</b>	<b>BOGIE TYPE FURNACES:</b>	
1	Metal & Steel Factory Kolkatta.	a) Bogie Hearth Furnaces - 750 °C. 1) 2500 L x 1000 W x 600 mm H 2) 2500 L x 1000 W x 1000 mm H 3) 4000 L x 1000 W x 600 mm H b) Bogie Hearth Furnace – 1000 °C 4) 5500 L x 2700 W x 1200 mm H
2	Machine Tool Aids & Reconditioning, Hyderabad	Bogie Hearth Furnace for 850 °C 12000 L x 2500 W x 2000 mm H.
3	Carborandum Universal Ltd., Chennai.	Bogie Hearth Bell Type Electric Furnace for 1150 °C ; Size: 2000 L x 1250 W x 900 mm H
5	Bay-Forge Ltd. Madurantakam.	20T Bogie Hearth Aluminium Heating Furnace for 600 °C Size: 2500 L x 5000 W x 2000 mm H
6	Deepak Fasteners Ltd., Ludhiana	20 T Electric Double bogie hearth Bell Type Bar Annealing furnace for 900 °C Size : 7200 L x 1500 W x 1300 H
7	Usha Martin Industries Ltd., Jamshedpur	15 T Bogie Hearth Bell Type Bar Annealing furnace for 900 °C Size : 6200 L x 1500 W x 1300 mm H
8	Sunflag Iron & Steel Industries Ltd., Bhandara. Nagpur	15 T Bogie Hearth Bell Type Bar Annealing furnace for 900 °C; Size : 6200 L x 1500 W x 1000 mm H

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Sl.No	Customer Name	Description
9	Mangalam Alloys Ltd., - Ahmadabad	15T Double Bogie Hearth Bar Annealing Furnace for 900 °C; Size : 6000 L x 1200 W x 1000 mm H
10	Integral Coach Factory, Chennai	Bogie Hearth Heat Treatment Furnace for temp 1000°C Size : 5000 x 1500 x 1500 mm; Rating : 260 KW = <b>3 Nos.</b>
11	Integral Coach Factory, Chennai	Revamping of Bogie Hearth furnace for temp 700°C
12	Ordnance Factory, Ambernath	Bogie Hearth Furnace for temp 850°C Size : 1100 x 500 x 2000 mm
13	Lakshmi Machine Works Coimbatore	Electrically Heat Bogie Hearth Stress Relieving Furnace Size : 4000 x 2000 x 1500 mm H Max Temp : 1000 Deg C; Rating : 300 Kw
14	Andhra Pradesh Heavy Machinery & Engineering Limited, Vijayawada	Bogie Hearth Stress Relieving Furnace Size : 7000 x 5000 x 5000 mm; Temp : 850°C Rating : 750 KW
15	Hindustan Aeronautics Limited Koraput	Electrically Heat Bogie Hearth Chamber Furnace Size : 1800 x 900 x 900 mm; Temp : 1200 Deg C
16	The Madras Aluminium co. Ltd, Dist : Salem	Electrically Heat Box Type Furnace Size : 1000 x 1000 x 1200 mm; Temp : 1200 Deg C
17	Heavy Vehicles Factory, Avadi	i)Bogie Hearth Normalising Furnace 3000 x 3000 x 900 mm H; Temp : 1000 Deg C ii)3000 x 1500 x 750 mm H; Temp : 1200 Deg C
18	Gun & Shell Factory Kasipur	i)Bogie Hearth Furnace Size : 4000 x 1500 x 600 mm H ; Temp : 1000 Deg C ii)Roller Hearth Furnace – Dryer Size : 3000 x 1200 x 1200 mm H; Temp : 300 Deg C
19	South Central Railway Hubli	Oil Fired Bogie Hearth Furnace Size : 4000 x 1300 x 700mm; Temp : 1000 Deg C