

ENERGY SAVING EQUIPMENT LIST

(ESEL)

Release 8.2

Prepared for



Supported by



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Chapter 1: How to use Energy Saving Equipment List

The following sections present features of the Energy Saving Equipment List (the List), their inter-relations, and tips to make quick and efficient use of the List. Readers are advised to obtain an updated version of the List from nearest SIDBI office or download as PDF document from <http://jica.org.in>.

Chapter 2 contains equipments having energy saving potential more than 10% and only these equipments are eligible for financial assistance under JICA Phase-III.

The List has been classified into two categories namely, General and Industry Sectors. Each category consists of information fields, namely, 'Sl. No.', 'Eligible equipment/technology', 'Energy saving potential (%)', 'Advantages', 'Specifications', 'Financial/Fiscal Incentives', and 'Equipment Suppliers'. These information fields provide details of each equipment / technology, and are explained as below:

- (i) **Sl. No.:** Each listed equipment / technology can be identified with a unique Sl. No. dedicated to it. The Sl. No. is in the form of XX.YY, where XX represents the General or Industry Sector and YY presents the unique position number of the particular equipment / technology within the General or Industry Sector.
- (ii) **Eligible Equipment / Technology:** All the equipment / technologies listed under this head are eligible for financing under the Project. The column presents the generic name of the equipment / technology.
- (iii) **Energy Saving Potential (%):** The column presents the expected energy conservation (in percentage value), if any eligible equipment / technology is installed and operated as against the otherwise most probable scenario for carrying out the same task in Indian MSME sector.
- (iv) **Other Advantages:** Generally, each of the upgraded technologies mentioned in the List have added advantages other than energy savings, like improved quality or finishing, reduced rejection, increased automation etc. The section lists such important aspects associated with the listed technologies.
- (v) **Specifications:** The broad specification of each equipment / technology and reference thereof, Standards applicable are provided in the specifications column.
- (vi) **Financial / Fiscal Incentives:** The prevailing regulations in Indian MSME sector have provisions for promotion of specified new, upgraded and cleaner technologies for various end-use sectors. Deemed as highly useful information for quicker adoption of technology at reduced cost burden, such information has been listed out in this column as to whether the particular equipment/technology is eligible for further grant/assistance/ subsidy under any or combination of presently ongoing initiatives like Credit Link Capital Subsidy Scheme (CLCSS) and Technology Upgradation Fund Scheme (TUFS).
- (vii) **Equipment suppliers:** It provides some of the available / leading suppliers' name for listed equipment / technologies from the available sources. The details of the equipment supplier will be available at separate section "Equipment Suppliers Details". The technology providers highlighted in "BLUE" color shows EE equipment suppliers from Japan and their alliances in India.

In Chapter 3, equipment having energy saving potential less than 10% are mentioned.

Chapter 4 'Equipment Suppliers Details' contains contact details of the suppliers.

DISCLAIMER

The List of suppliers has been furnished for informative purpose only and is not binding on any user to select suppliers from the List. The user can avail services of suppliers given in the List or from other suppliers for the same equipment/technology. Neither, SIDBI nor JICA acknowledges any responsibility towards cost, quality and operation of equipment from any of the suppliers and users are advised to exercise their own discretion in this matter.

Chapter 2: Energy Saving Equipment List (Eligible under JICA)

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier | |
|----------------|--|-----------------------------|---|---|------------------------------|---|---|
| GENERAL | | | | | | | |
| 1 | Electrical | | | | | | |
| 1.1 | Variable Frequency Drives | 30-40 | Extended equipment life, reduced maintenance, reduced peak demand, safety against power fluctuations | JEM201, 225, 226, 227, C62.41.2-2002 | | * Fuji Electric * Mitsubishi Electric Corp. * ABB India * Schneider Electric India * Siemens Ltd. | |
| 1.2 | Energy Efficient Transformers | 70 | Increased efficiency at no and low loads | IS 2026, 1180, 11171; IEC 60076; ANSI C57.12.20 | CLCSS | * Kotsons * Sigma Electricals * Vijai Electricals Ltd. | |
| 1.3 | Energy Efficient Fluorescent Lamps | 25 | Longer life, less heat produced | Luminous efficiency over 60lm/w, JIS C 7601:2004 | | * GE Consumer & Industrial India * Phillips Electronics India Ltd. * Surya Roshini Ltd. | |
| 1.4 | Compact Fluorescent Lamps | 25 | Produce little to no heat | Luminous efficiency over 80lm/w, IEC/TS 62257-12-1 Ed. 1.0:2007 | | * Havells India Ltd. * Phillips Electronics India Ltd. * Surya Roshini Ltd. | |
| 1.5 | Metal Halides Lamps | 25 | Longer life, equally suited for indoor and outdoor use | Luminous efficiency over 60lm/w, IEC 61167 Ed. 1.0:1992 (b), ANSI C78.1382-1996, ANSI C78.1376-1996, ANSI C78.1384-1997, ANSI C78.1379-1997, ANSI C78.1377-1996, ANSI C78.1378-1997, ANSI C78.1375-1996, ANSI C78.1374-1996, ANSI C78.1372-1997 | | | * Havells India Ltd. * Phillips Electronics India Ltd. * Surya Roshini Ltd. |
| 1.6 | High Pressure Sodium Vapor Lamps | 25 | Long life, emits more light energy in the yellow/orange/red region of the spectrum | Luminous efficiency over 110lm/w, IEC 60662 Ed. 1.1:2002 (b) | | * Havells India Ltd. * Phillips Electronics India Ltd. * Surya Roshini Ltd. | |
| 1.7 | Light Emitting Diode | 90 | High reliability, highly rugged, produce no UV radiation and little heat | BS EN 61347-2-13, ANSI/UL 8750 | | * Havells India Ltd. * Phillips Electronics India Ltd. * Surya Roshini Ltd. | |
| 1.8 | Microprocessor Based Intelligent Control | 20-30 | Reduces energy cost by regulating light output according to available daylight, increases lamp life | NEMA, NEC, UL, IECFCC | | * ABB India * Crestron Electronics India Pvt. Ltd. * Schneider Electric India | |
| 1.9 | Exclusive Transformer for Lighting | 15 | Compact, easy to install, power quality enhancement, provide speed/torque control, safety enhancement | JIS C 8109:1999 | | * ABB India * Osram India Pvt. Ltd. * Schneider Electric India | |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|--|------------------------------|---|
| 1.10 | Servo Stabilizer | 7-12 | Gives stable output under severe unbalanced voltage, increases equipment life, low internal impedance, works over wide input frequency range and no waveform distortion | IS 9815, IS 2026 | | * Industrial Electrical Corporation * Sai Electricals * Wintech Power Private Limited |
| 1.11 | Electronic Ballast | 35 | Low internal core loss, improved light output quality, operate at a much higher frequency than magnetic ballasts, instant glow with no flickering increases tube life, no heat generated | JIS C 8117:2008 , IS 13021 : Part 1 : 1991, IS 13021 : Part 2 : 1991, IEC 60929 | | * Gayatri Electrotech Co. Pvt. Ltd. * Intelux Electronics Pvt. Ltd. * Shah Electronics |
| 1.12 | Energy Efficient Air Compressors / Blowers | 30-50 | Easy to install and operate | ASME B19.1 | | * Hitachi Industrial Equipment Systems Co. Ltd. * Atlas Copco India Ltd. * Pecma Air Systems Pvt. Ltd. |
| 1.13 | Energy Efficient Fans / Pumps | 25-30 | Lesser heat generated, reduced maintenance requirements | IEC 60335-2-40 | | * Encon (India) * Seemsan Pumps & Equipments Pvt. Ltd. * Usha International Ltd. * Grundfos Pumps India Pvt Ltd. |
| 1.14 | Capacitors | 10 | Improve Power Factor, Release System Capacity, Improve Motor and Lighting Performance, Reduce Current and Losses | JIS C 4908:2007, IS 2993 : 1998, IEC 831-1/2 | | * ABB India * Schneider Electric India * Siemens Ltd. |
| 1.15 | Automatic Powerfactor Controller | 10 | Reduce reactive power, reduce total current from the source | IEC 831-1/2 , IEC 439-1, IEC/EN 61010-1, IEC/EN 61000-6-2, CISPR 11/EN 55011 | | * ABB India * Schneider Electric India * Sai Electricals |
| 1.16 | Soft Starter for Motors | 15 | Provides smooth and stepless acceleration and deacceleration of AC Induction Motor, less mechanical stress, improved power factor, lower maximum demand | IEC 60947-1, IEC 60947-4-2, EN 60947-1, EN 60947-4-2, UL 508, CSA C22.2 No. 14 - M91, LRS 00/00154 | | * ABB India * Schneider Electric India * Siemens Ltd. |
| 1.17 | Maximum Demand Controller | 15 | Energy Saving achieved by monitoring power end use turn off non- essential loads during higher power end use | IEC 60211 Ed. 1.0:1966 (b) | | * Riken Instrumentation Ltd. * Schneider Electric India * Trinity Energy Systems Pvt. Ltd. |
| 1.18 | Automatic Temperature Controller | 10 | Accurate temperature regulation, prolongs life of equipment | BS EN 14597:2005 | | * Yokogawa Electric Corp * Yokogawa India Ltd. * Electrotherm (India) Ltd. * Meta Therm Furnace Pvt. Ltd. |
| 1.19 | High-frequency Induction Irradiation | 10-15 | Higher efficiency due to skin effect by high frequency, non-contact in nature, less risk of workpiece contamination | IEC 62076 Ed. 1.0 b:2006, ISO TC 244, ISO/NP 13577/13578/13579, IEC 60519-1 | | * Doshi Technologies Pvt. Ltd. * Eddymelt * Electrotherm (India) Ltd. |
| 1.20 | High-frequency Melting Furnace | 10-15 | Small volume, less environmental pollution | ISO TC 244, ISO/NP 13577/13578/13579, IEC 60519-1 | | * Electrotherm (India) Ltd. * Inductotherm (India) Pvt. Ltd. * Pioneer Furnaces |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--|------------------------------|--|
| 1.21 | Highly Sensitive and Responsive Arc Furnace | 10-15 | Reduce electrode usage and refractory wear, wide range of current setting, hot and cold phase compensation, longer furnace life | IEC 60239 Ed. 4.0:2005 (b) , IEC 60676 Ed. 2.0, ISO TC 244, ISO/NP 13577/13578/13579 | | * JP Steel Plantech Co * Doshi Technologies Pvt. Ltd. * Electrotherm (India) Ltd. * Tenova Hypertherm Pvt Ltd |
| 1.22 | High-performance Electrolytic Furnace | 25-30 | Uninterrupted production & better product quality, prolonged equipment life | ISO TC 244, ISO/NP 13577/13578/13579 | | * Allied Consulting Engineers Pvt. Ltd. * Electrotherm (India) Ltd. * Tenova Hypertherm Pvt Ltd |
| 1.23 | Electromagnetic Irradiation | 50 | Selective heating (heats water rather than substrate or surrounding air), ideal for materials with non-uniform moisture content | | TUFS | * Acmefil Engineers Pvt. Ltd. * Electricoil Super Thermal Engineers * Tecknotrove Systems Pvt Ltd. |
| 1.24 | Common Incinerator Alongwith Power Generation Facilities | 91-99 | Destruction of hazardous and toxic waste | 15A NCAC 02D .1204, UFC 3-240-05A, 401 KAR 61:011 | MNRE | * Selco International Ltd. * Shriram Energy Systems Ltd. * Thermax Ltd. |
| 1.25 | Screw Compressor | 30-50 | Low leakage levels and low parasitic | GB/T 13280-1991, ISO 8573-1 CLASS 0 | | * Hitachi Industrial Equipment Systems Co. Ltd. * Atlas Copco India Ltd. * Kaeser Compressors India Pvt. Ltd. |
| 1.26 | Computer Desktop Virtual Machine | 50-80 | Multiple OS environments can exist, high reliability, disaster recovery system | | | * Citrix R&D India Pvt Ltd. * Parallels Optimized Computing * VM ware Software India Pvt. Ltd. |
| 1.27 | Cooling Towers (Fills with PVC Honey Comb) | 30-35 | Extended contact area having high heat transfer efficiency | 2825/TEMAI ASHAREI ASME | | * Airtech Cooling Process (Pvt.) Ltd. |
| 1.28 | Wide Belt Sander | 15-20 | Easy to operate and monitor the operation | IEC 60745-2-4:2002 | | * GRIGGIO SPA * EXCEL * PARTH INDUSTRIES |
| 1.29 | Spindle Moulder | 10-20 | Higher productivity due to higher spindle speed | EN 61029-2-9 | | * GRIGGIO SPA * Ruei Industries * Dreamworld Enterprises# |
| 1.30 | Multi-boring machine | 10-15 | With advance PLC control for higher productivity | ISO 9265:1988 | | * GRIGGIO SPA * Xinmin Bangyou Woodworking Machinery Works * Qingdao Zhongding Machinery Co., Ltd." |
| 1.31 | Visicooler | 45-50 | High quality cooling performance,Forced air evaporator provides frost free operation, except in static models | IEC-77 | | * Voltas Ltd * Seaga India * Polfrost Aircon Pvt. Ltd |
| 1.32 | Robot Arms | 50-60 | Hihg efficient, automated operation | ISO/IEC 9506-4 | | * Yaskawa Robotics India Ltd. * Mitsubishi Electric Corp. * Changzhou Boer Precision Powder Engineering Co. Ltd * Guangzhou Jasu Precision Machinery Co., Ltd. * Hangzhou Hongli Machinery Co., Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---|------------------------------|--|
| 1.33 | Enginator based on Natural Gas | 30 | Increase in fuel efficiency due to use of cleaner fuel | | | * Dresser Waukesha |
| 1.34 | CNC Router | 20-60 | Improved product quality, less rejection, higher productivity | ISO 30 | | * Angel India Cad Cam Private Limited * HSD S.p.A. * Kothari Brothers Tech Pvt Ltd." |
| 1.35 | Vacuum forming machine with thermostat control | 30-40 | PLC controlled, easy to operate | | | * Bel-O-Vac * Sai Thermoformers * Henglongji vacuum forming machine corporation |
| 1.36 | Edge Bander Sprint with Power-PC Control | 95 | Fast heat-up time | | | * HOLZHER * Qingdao Jianlong Machinery Co., Ltd. * Huanghua Weichang Woodworking Machinery Co., Ltd. |
| 1.37 | Enterprise Resource Planning (ERP) (with PPC module) | 40-50 | Integration of design, planning & production | ISO 9126 Standard, FAHP | | * Miven Mayfran Conveyors Pvt. Ltd. * Info,641 Avenue of the Americas * New York, NY 10011 |
| 1.38 | Automatic Book Sewing Machine | 10-15 | Easy operation, quick make-ready, high quality sewing and high output | IEC 61000-6-4:19 | | * Book Automation, Inc. * Wenzhou Xinguang Machinery Co., Ltd * Kalsi Machinery Co. vt. Ltd. |
| 1.39 | Tunnel Dryer for mosquito coil industry | 50 | Environmental friendly and less pollution | | | * SUNTRACK Energy Systems Pvt. Ltd. * Henan Gelgoog Commercial & Trading Co., Ltd * R R & Sons |
| 1.40 | Induction Lighting | 40-60 | Unmatched durability, Extremely long life (100,000 hours), Instant ignition, No flickering or cycling, Performs well in extreme cold, Superior color rendering index (CRI) > 80 | EN 55022 + A1:2000 + A2:2003, EN 61000-6-3:2001 | | * RA Energy Systems Pvt. Ltd. * APSARA INTERIOR SOLUTIONS * Foshan Kinglight Lighting Equipment Co., Ltd. |
| 1.41 | SCADA system | 15-30 | Reduced operation cost, improves efficiency of the setup, can make immediate corrections in the operational systems thus increasing life period of the equipment | | | * Fuji Electric * Rockwell Automation * Ashida Electronics Pvt. Ltd. * Altis Autmation * Mitsubishi Electric Corp. |
| 1.42 | Energy Management System | 15-30 | EMS support the energy efficient operation by monitoring the supply and demand of energy in factories, buildings, residential, retail shops or community. | | | * Fuji Electric |
| 2 | Thermal | | | | | |
| 2.1 | Water-tube Boiler (by replacing conventional Smoke-tube Boiler) | 10-25 | Handle high pressure and high temperature, recover faster than smoke-tube | ISO R 831, IS 2825,TIMA, BS EN 12952-1:2001, ASTM A 192/A 192M, ASME BPVC SEC I | | * Ross Boilers * Thermax Ltd. * Veesons Energy Systems Private Ltd. |
| 2.2 | Condensate Recovery & Recycle System | 15-20 | High Temperature and good quality Feed water, low blowdown losses, low water treatment costs | IS 10496 : 1983, ASME BPVC SEC VIII DIV I | | * Precision Controls Pvt. Ltd. * Thermax Ltd. * Veesons Energy Systems Private Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---|------------------------------|---|
| 2.3 | Energy Efficient Boilers | 6-10 | Reduces carbon dioxide emissions by around 12 | UL 2096, ASME BPVC SEC VIII D1 | | * Cheema Boilers * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 2.4 | Recuperators | 20-25 | Increase in overall efficiency | BIS IS 12392:1988 (R2000), BIS IS 6728:1972 (R2002), UNI 8729:1997, UNI 8729:1997, UNI 8448:1991, NFE 38 200:1987 | TUFS | * ENCON THERMAL ENGINEERS (P) LTD. * Indaid Engineers Pvt. Ltd. * Laimura Technology (P) Ltd. |
| 2.5 | Cogeneration | 30-50 | Waste heat utilization, lowers carbon emissions leading to carbon credits | TS B 0022:2006 , JIS B 8124:2006, ASME PTC 22 | MNRE | * Kawasaki Heavy Industries * Mitsubishi Heavy Industries * Green Power International Pvt. Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 2.6 | Heat Pumps | 35-50 | Same systems used for cooling & heating, extract available heat from the outside air, simplicity in operation and maintenance | ANSI/ARI 340-360-2004, ARI 210/240 | | * Mayekawa Manufacturing Company Ltd. * Daikin Industries Ltd. * Mitsubishi Electric * Daikin Air-conditioning India Pvt. Ltd. * Thermax Ltd. * Trane India Pvt. Ltd. * Carrier Air-conditioning & Refrigeration Ltd. * LG Electronics India Pvt. Ltd |
| 2.7 | Energy Efficient Refrigeration System | 25 | Less heat dissipation, increase in refrigeration capacity, low noise levels | Turbo ref.COP 2.2up, DIN EN 378-2:2009, ASME B31.5-2001, ANSI/ASHRAE 15-2007 | | * Daikin Industries Ltd. * Mitsubishi Electric * Mayekawa Manufacturing Company Ltd. * Daikin Air-conditioning India Pvt. Ltd. * Blue Star India * Frick India Ltd. * Sea Bird Refrigeration Pvt. Ltd. * Thermax Ltd. * Trane India Pvt. Ltd. * Carrier Air-conditioning & Refrigeration Ltd. * LG Electronics India Pvt. Ltd |
| 2.8 | Automatic Combustion Control for Boilers / Furnaces | 5-10 | Ensures optimal fuel and air ratio, reduce fuel wastage, safe & stable operation, improves equipment life | JIS B 8412:1981, ISA MC96.1 | | * Yokogawa Electric Corporation * FUJI Electric * ENCON THERMAL ENGINEERS (P) LTD. * Technoplus Services |
| 2.9 | Regenerative Burners for Furnace | 30 | Increase in production, furnaces size smaller for new installations | BS EN 267:1999, 40 CFR 266.102 | | * Chugai Ro Co., Ltd. * Bloom Combustion India Pvt. Ltd. * Eclipse Combustion Pvt. Ltd. * The Wesman Engineering Company Pvt. Ltd. |

CHAPTER 2

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--|------------------------------|--|
| 2.10 | Heat Recovery Systems for Boilers (Economizer, Air Pre- heater) | 5-10 | Reduce equipment size, reduce auxiliary energy consumption, reduce pollution | NSF/ANSI 5 | | * Atlas Copco India Ltd. * ENCON THERMAL ENGINEERS (P) LTD. * Veasons Energy Systems Private Ltd. |
| 2.11 | Outdoor Intake Control / Variable Air Volume / Heat exchanger | 40-60 | Efficient air distribution in buildings enables control for better indoor air quality, air supply provided on local thermal load and occupancy | JIS B 8628:2003, BSR/AHRI Standard 1060-1997, 10 CFR 434.517, AS 4254—2002, ASHRAE Standard 62 | | * Johnson Controls India * Trane India Pvt. Ltd. * Zeco Aircon Industries Pvt. Ltd. |
| 2.12 | High Efficiency DG Set for Power Generation (Low Fuel Consumption with Pollution Control & Canopy) | 43-45 | Better power quality, lower emissions | ARAI, BS 5514, ISO 8528/1, ISO 3046/1, IS-10002, BS-5514, DIN-6271 | | * Caterpillar (TIL Ltd. - Regional Indian Dealer) * Cummins India Ltd. * Kirloskar Oil Engines Ltd. |
| 2.13 | Waste Heat Recovery Boiler | 7-19 | Reduce equipment size and auxiliary energy consumption, reduces pollution | ASTM, ASME | | * JP Steel Plantech Co. * Nippon Steel & Sumikin Engineering Co. Ltd. * Kawasaki Heavy Industries, Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. * Veasons Energy Systems Private Ltd. |
| 2.14 | Thermal Insulation for Hot & Cold Systems | 6-10 | Reduces surface heat loss, emissions and increase safety | IS,BS, ASTM | | * ENCON THERMAL ENGINEERS (P) LTD. * Llyod Insulation India Ltd * Minwool Rock Fibres |
| 2.15 | Dehumidification Dryer | 30 | Adsorbent is non toxic / non flammable & fully water washable, minimum heat carry over | ANSI/AHAM DH-1-2008 | | * Aerodry Plastics Automation Pvt. Ltd. * Bry-air * Matsui Technologies |
| 3 | Commercial Buildings | | | | | |
| 3.1 | Building Energy Management System | 20-35 | Controls - lighting, HVAC, lift, security management system, facility management, reduce operation cost | BS EN 15603:2008, BS EN 15316-4-4:2007, BSR/ASHRAE/IESNA 90.1-1989R, ANSI/ASHRAE/IESNA Standard 100-2006 | | * Toshiba Corporation * Fuji Electric * Johnson Controls India * Schneider Electric India * Siemens Building Technologies Pvt. Ltd. |
| 3.2 | Energy Efficient Air Conditioner | 20-40 | Inverter based technology, Individual control, Self demand control, Wide Working Range, Flexible Refrigerant Piping and connectable indoor units, Refrigerant Piping and connectable indoor units, Compact and light design | SEER 16-23, IEC 60335-2-40 JIS B8616 | CLCSS | * Daikin Industries Ltd. * Mitsubishi Electric * Hitachi Home & Life Solutions (India) Ltd. * Carrier Airconditioning & Refrigeration Limited * LG Electronics India Pvt. Ltd * Trane India Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|--|---|---|
| 3.3 | Energy Efficient Refrigerators (High Efficiency Compressors, Improved Insulation and Precise Temperature and Defrost Mechanisms to Improve Energy Efficiency) | 20 | Precise temperature and defrost control, improve insulation | BEE rating (3 star - 5 star), IS 15750: 2000 | | * Haier Appliances India Pvt. Limited * Samsung * Videocon Industries Ltd. |
| 3.4 | Vapour Absorption Refrigeration | 30 | Less operating cost, work on lower evaporator pressure without affecting COP, no effect on load reduction on performance, easy automatic operation to control capacity | COP=0.65-0.70, DIN EN 378-2:2009, ASME B31.5-2001, ANSI/ASHRAE 15-2007 | | * Hi Tech Cooling Systems * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 3.5 | Heat Pumps | 35-50 | Same systems used for cooling & heating, extract available heat from the outside air, simplicity in operation and maintenance | ANSI/ARI 340-360-2004, ARI 210/240 | | * Daikin Airconditioning India Pvt. Ltd. * Thermax Ltd. * Trane India Pvt. Ltd. |
| 3.6 | Fuel Cell Cogeneration System | 22 | Stable opearation in wide range of heating value, 37 reduction of CO2 emission | | | * Panasonic Asia Pacific Pvt Ltd. * Horizon Fuel Cell Technologies Pte. Ltd. * Sukan Engineering Pvt. Ltd. |
| 3.7 | Cogeneration | 30-50 | Waste heat utilization, lowers carbon emissions leading to carbon credits | TS B 0022:2006 , JIS B 8124:2006, ASME PTC 22 | MNRE | * Green Power International Pvt. Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 3.8 | Energy Efficient Elevators | 40 | Smooth & quiet performance, does not require extra lubrication, less heat generation | ASME A17.1, ASME A17.5, CAN/CSA-B44.1, IS14665 | | * Mitsubishi Elevator Eta India Private Limited * Johnson Lifts Pvt. Ltd. * Kone India * Otis India |
| 3.9 | Equipment, Machinery and Construction Material Contributing to Increased Energy Savings | 10-30 | Eco-friendly construction material saves water, metal, timber and other natural resources; improves occupants health | ISO 21931, LEED, GRIHA | Rebate in property tax, reimbursement of registration fees, cash incentives to architects and consultants | * Schneider Electric India * Siemens Building Technologies Pvt. Ltd. * Trane India Pvt. Ltd. |
| 3.10 | Heat Reclaim Ventilation / Air Conditioning System | 80 | Compact, smooth & quiet operation, good indoor air quality, load reduction 20-30 of air conditioning load | | | * Daikin Airconditioning India Pvt. Ltd. * Honeywell Automation India Ltd. * LG Electronics India Pvt. Ltd. |
| 3.11 | High Efficiency Escalator | 30 | Reducue operational cost, operates smoothly in all climatic conditions, caters continuous and large crowd, safe and reliable | ASME A17.1, ASME A17.5, CAN/CSA-B44.1, IS14665 | | * Mitsubishi Elevator Eta India Private Limited * Johnson Lifts Pvt. Ltd. * Kone India * Otis India |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--|------------------------------|--|
| 3.12 | Inorganic Textile Insulator | 5-10 | Versatile and corrosion resistant material, used in both reinforced and non-reinforced applications, good fire-proofing | JIS A 9510:2009, ASTM E96, CAN/ULC-S704, ASTM C1289 | | * Insulation Associates * Llyod Insulation India Ltd * Owens Corning |
| 3.13 | Forming Plastic Insulator | 30-40 | Durable & moisture resistant | JIS A 9511:2006R/AMENDMENT 1:2009, ANSI/UL 1256, ASTM C666, ASTM E96, CAN/ULC-S704, ASTM C1289 | | * Dow Chemical Int'l Pvt. Ltd. * Llyod Insulation India Ltd * Owens Corning |
| 3.14 | Heat insulating opening material | 35 | Thermal insulation stops transfer of heat between inside & outside room | ASTM E96, CAN/ULC-S704, ASTM C1289 | | * Colt India Pvt. Ltd. * Tech Dry (India) Pvt. Ltd * SGR India Engineering Company |
| 3.15 | Air Sealing Support Material | 30-40 | Controls hot or cold temperatures, fills cracks and crevices preventing bugs and vermin from entering home | ASTMC 1029, IS 13205, CAN/ULC-S704, ASTM C1289 | | * Dow Chemical Int'l Pvt. Ltd. * Llyod Insulation India Ltd * Owens Corning |
| 3.16 | Heat Absorbing Glass / Low Emissivity Glass (Window Panel) | 30-50 | Makes room warmer in winter and cooler in summer | E'MARK (ECE 43), DOT MARK (AMERICAN NATIONAL STANDARD), JIS/JASO (JAPANESE STANDARD), ASTM C552 - 07 | | * Asahi Group AIS * Gold Plus Group * Saint Gobain Glass India Ltd. |

| 4 | Renewable Energy Technologies | | | | | |
|-----|--|---------------------------------|--|---|------|--|
| 4.1 | Windmills | Replaces fossil fuel | Clean form of energy, decentralized power, negligible operation cost | EN 61400-2: 2006, BS 7671, G83/1: 2003 | MNRE | * Shriram EPC Ltd. * Unitron Energy Systems Pvt. Ltd. * Vaigunth Ener Tek (P) Ltd. |
| 4.2 | Solar Photovoltaic | Completely replaces fossil fuel | Clean form of energy, decentralized power, negligible operation cost | IEC 61215, IEC 61730, MNRE guidelines, CAN/CSA-F378-87 (R2004), CAN/CSA-C61215-08 | MNRE | * Sharp Corporation * Kaneka Corporation * Fuji Electric * Anchor Electricals Pvt. Ltd. * JFE Engineering Corporation * Kotak Urja Pvt. Ltd. * Reliance Solar Energy * Tata BP Solar India Ltd. |
| 4.3 | Micro Hydro | Completely replaces fossil fuel | Clean form of energy, decentralized power, negligible operation cost | IEC 60308 Ed. 2.0 b:2005, JIS B 8103:1989, IEC 61362 Ed. 1.0:1998 (b) | MNRE | * Bharat Heavy Electricals Ltd. * HPP Energy (India) Pvt. Ltd. * Pentafo Hydro Engineers |
| 4.4 | Biomass / Bagasse (Gasifier or Cogeneration) | Completely replaces fossil fuel | Eco-friendly reduces GHG emissions, utilizes agricultural / industrial waste, carbon credits can be earned | EN 22 858 / ISO 2858 / ISO 5199, CEN/TS 15439:2006 | MNRE | * Ankur Scientific Energy Technologies Pvt. Ltd. * Southern Carbon Pvt. Ltd. * Thermax Ltd. |
| 4.5 | Municipal Solid Waste Based Power Generation | 40 | Reduces GHG emissions, reduces waste by 60-90, slurry produced can be used as fertilizer | ASTM D4503 -08, 401 KAR 61:011, UFC 3-240-05A | MNRE | * Hitachi Zosen Corporation * JFE Engineering Corporation * Green Power International Pvt. Ltd. * Mailhem Engineers Pvt Ltd. * Selco International Ltd. |
| 4.6 | Biomass Gasifier Based Hot Water Generator | Completely replaces fossil fuel | Eco-friendly reduces GHG emissions, utilizes agricultural / industrial waste, carbon credits can be earned | | MNRE | * Ankur Scientific Energy Technologies Pvt. Ltd. * Infinite Energy Pvt. Ltd. * Southern Carbon Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|----------|---|-----------------------------|--|---|---|--|
| 4.7 | Solar Water Heater | Replaces fossil fuel | Reduction in operation cost, no pollution at site, cost savings in higher altitude regions | JIS A 4111:1997 | MNRE | * Borosil Glass Works Limited * Tata BP Solar India Ltd. * Wipro Eco Energy |
| 4.8 | Wind Ventilator (Wind Powered Exhaust Fan) | Replace fossil fuel | Wind powered, no electricity is used | | | * Shrijee Heavy Projects Works Ltd. * Air Solutions India * Ainer Natura Pvt.Ltd. |
| 4.9 | Building Energy Management System (BEMS) & Concentrated Solar Thermal Power (CSP) | 30-50 | Controls - lighting, HVAC(Heat Ventilation Air Conditioner), lift, security management system, facility management, reduce operation cost Clean form of energy Energy Peak cut Reduces GHG emissions | IEC/ TC117 | | * Mistui Engineering & Shipbuilding Co., Ltd * Mie university * Hikari KikaiSeisakusho Co., Ltd. |
| 4.10 | Solar Power Inverters | | High efficiency up to 98.7 | 300-415V / 500-1400kVA IEC | | * Hitachi Hi-Rel Power Electronics Pvt. Ltd. |
| 4.11 | Renewable Energy based Steam Boiler | | Generate steam from variety of solid Biomass, high efficiency heat recovery | As per IBR standards | | * Value Max Systems Pvt. Ltd. |
| 4.12 | RDF based Power Generation Plant | | Use of alternative energy sources to generate power and / or energy | As per IBR standards | | * Rochem Green Energy Pvt. Ltd. |
| 4.13 | Powerless Ventilators | | Ventilation without power consumption | | | * Samruddhi Enterprises |
| 4.14 | Semi/Automatic Solar PV Module manufacturing Line | 10-15% | | 10 MW and above, Minimum 6 modules per hour | | |
| 5 | Others | | | | | |
| 5.1 | Common Effluent Treatment Plant | 40 | Reduce capital cost & operating cost, less space requirement, proper disposal of treated waste, improve recycling and reuse possibilities | BS EN 12255-14:2003, BS EN 12255-16:2005 | State Subsidy - 25 of total project cost, Central Subsidy (MoEF) - 25 of total project cost | * Advent Envirocare Technology Pvt. Ltd. * SSP Private Limited * The Green Environment Services Co-op. Soc. Ltd. |
| 5.2 | Vehicle using CNG / LPG as Fuel | Replace diesel fossil fuel | Lower operational cost, no spill or evaporation loss, replacement of diesel fuel | ISO 11439 CNG-3, 4, IS 15716:2006, ANSI | 100 income tax depreciation on CNG kit | * Force Motors Ltd. * Swaraj Mazda Ltd. * Tata Motors Limited |
| 5.3 | Bioreactor with PLC | 20-25 | Automatic pH Control, Automatic Temperature Control, Automatic Vessel Sterilization | ISO, ASME | | * Andel Equipment Pvt. Ltd * Akar Impex Private Limited * Western Enviro Solutions |
| 5.4 | Batching Plant with Microprocessor Control | 15-30 | Smooth Operation with highest reliability | ISO 9001:2008 : OHSAS 18001: 2007: ISO 14001:2004 | | * Schwing Stetter India Pvt. Ltd. * Feaster India * Parv Engineers |
| 5.5 | Wire Condenser Welding Machine equipped with PLC | 20-30 | High speed of operation for high product volume, flexible and less maintenance | | | * Mechelonics Engineers * Delta International * Jaya Hind Sciaky Limited |
| 5.6 | 2 Stations Auto Balancing Machine equipped with PLC | 15-30 | Dynamic Balancing, Ability to handle a wide variety of part shapes and sizes, easy to operate , touch screen computer | | | * Hines Industries * SCHENCK RoTec India Limited * Fuel Instruments & Engineers Private Limited |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|----------------|------------------------------|---|
| 5.7 | Compact Scan Digitizing System | | Low maintenance cost, High quality measurement data, Fast scanning for large components | | | * APM Technologies * GOM mbH |
| 5.8 | Spray pre-treatment system using LPG fuel | | | | | * Auto Coat Engineering (I) Pvt. Ltd. * Techserve * Prism Surface Coating Private Limited |
| 5.9 | Camel back dry off oven using LPG fuel | | Space saving, designed to minimize heat loss, accurate back- tracking on the time and temperature of any particular job | | | * Auto Coat Engineering (I) Pvt. Ltd. * Omkar Enterprise * Intech Surface Coating Pvt. Ltd. |
| 5.10 | Standing Seam Roofing and Curving Machine | 10-20 | Save labour, time and cost | | | * Xiamen Xinhonghua Machinery Co., Ltd. * Infra93 * Fast Construction |

INDUSTRY SECTORS

| 6 | Glass | | | | | |
|-----|---|-------|---|----------------|-------|---|
| 6.1 | Waste Heat Recovery from Regenerative Tank Furnace | 10-15 | Utilization of waste heat, reduction in flue gas equipment sizes | | CLCSS | * Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd |
| 6.2 | Waste Heat Recovery from Recuperative Tank Furnace | 10-15 | Utilization of waste heat, Reduction in flue gas equipment sizes, Reduction in fuel consumption | | CLCSS | * Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd |
| 6.3 | Mechanical Conveyor for Soda Ash (by Replacing Pneumatic Conveyor) | 30 | Reduce cycle time, productivity improvement, reduce wastage | | | * Auto mech handling pte Ltd. * Henan Pingyuan Mining Machinery Co., Ltd, |
| 6.4 | Natural Gas Fired Pot Furnace with Recuperator | 20-25 | Utilize clean energy source, productivity improvement, less harmful to workforce | | CLCSS | * Encon Thermal Engineering Pvt Ltd * Shikovi Heat Gen Technologies Pvt Ltd |
| 6.5 | Natural Gas Fired Muffle Furnace | 20 | Utilize clean energy source, productivity improvement, less harmful to workforce | IS & A ST M | | * Thermal Tech Engineering * Advance Heating Systems * Thermal Tech Engineering * Meta Therm Furnace Pvt Ltd |
| 6.6 | Thermal Gasifier (Biomass / Coal as Fuel) | 35-60 | Utilize clean energy | | CLCSS | * Associated Engineering Works * Radhe Renewable Energy Development Pvt Ltd. |
| 6.7 | Oxy-Fuel Fired Glass Melting Technology | 10-15 | Increase production, improve glass quality | | | * Honeywell Automation India Ltd. * Meta Therm Furnace Pvt Ltd |
| 6.8 | Automatic Controllers & Recorders for Furnace Temperature / On-Line Oxygen Analyzer | 3-10 | Productivity improvement, furnace efficiency improvement | IS 5780,IS2148 | CLCSS | * Huakeyi * United Process Controls, Germany * United Process Controls, Germany |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|---|------------------------------|--|
| 6.9 | LPG Fired Bead Making Furnace | 20 | Better temperature, improve product quality | | CLCSS | * Encon Thermal Engineering Pvt Ltd * Anping County Xiangan Wire Mesh Machinery Co., Ltd. * Shenzhen Love Jewelry Co., Ltd. |
| 6.10 | Horizontal Flat and Bent Glass Electric Furnace for Tempering with Automatic Controller and Recorders | 5-15 | Improve production & product quality, easy in operation | ECE R43, ANSI Z97.1 GB9963 | CLCSS | * Glass & Glazing technologies (India) Pvt Ltd. * Luoyang Easttecglass Automation Equipment Co.,Ltd * Hardun Furnace Co. Ltd. |
| 6.11 | Convectional Horizontal Roller Hearth Tempering Furnace | 15-20 | PC based programmable logic control system | | | * Luoyang Land Glass Technology Co. Ltd. * SECO WARWICK Allied Pvt. Ltd. * Shanghai Eastern Glass Technology Machinery Co., Ltd. |
| 6.12 | CNC Based Glass Cutting Machine | 45-50 | Can cut different shapes, can optimize layout with optimization software | EN 13035-3:2003+A1:2009 | | * CMS Industries * A Innovative International Limited * Pearl CNC |
| 7 | Ceramics | | | | | |
| 7.1 | Insulation for Kiln, Top Chamber & Furnace | 3-10 | Heat loss reduction, improve safety, prevents damage to equipment from exposure to fire or corrosive atmosphere | IS 9428, IS 8154, BS 3958, ASTM C533-90 | | * Lloyds Insulation * Megha Insulation Pvt Ltd |
| 7.2 | Low Thermal-mass Cars | 15-20 | Productivity improvement, reduce cycle time | | | |
| 7.3 | Recuperator for Kiln (Hot Air Generation) | 28-30 | Utilize waste heat from Kiln cooling zone, elimination of fuel for drying zone | EN 60439-1 | | * Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd |
| 7.4 | Variable Frequency Drives for Circulation Air Fans in Vertical Dryer | 15-35 | Energy saving depends on the motor loading, reduce motor heating and stress | JEM201, 225, 226, 227, C62.41.2-2002 | | * Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited * ABB Drives |
| 7.5 | Roller Kiln (by Replacing Conventional Tunnel Kiln) | 50 | Productivity improvement, reduce cycle time to half | | | * Micro Thermal Inc * Perfect Mechanical System |
| 7.6 | Ballmill with High Alumina Tile Lining, High Alumina Balls of Different Size (Raw Material Processing) | 10-15 | Improvement in grinding, reduction in grinding time | | CLCSS | * Laxmi Engineers * Precious Fab Cast Pvt Ltd |
| 7.7 | Isostatic Press, Fettling Machine, Stacking Equipment (Fabrication) | 10-20 | Reduce breakage & cracking, reduce rejection & wastage | EN/AS 9100 | CLCSS | * Rajesh Engineering Works |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------------------------|------------------------------|--|
| 7.8 | Fully Automatic Vertical Copying Machine for Insulator (Fabrication) | 10-20 | Reduce breakage & cracking, reduce rejection & wastage | | CLCSS | * Rajesh Engineering Works |
| 7.9 | Roller Head Machine for Cup & Saucer (Fabrication) | 10-20 | Reduce breakage & cracking, reduce rejection & wastage | | CLCSS | * Rajesh Engineering Works |
| 7.10 | Pressure Casting Plant (Fabrication) | 4-10 | Reduce breakage & cracking, reduce rejection & wastage | | CLCSS | * Rajesh Engineering Works |
| 7.11 | Humidity Driver Chamber (Drying) | 25-30 | Less drying time, less tiles breakage | | CLCSS | * Via G.M. Dallari |
| 7.12 | Gas / Oil Fired Roller Hearth Kiln (Firing Section) | 30 | Uniform temperature distribution, ease of operation | | CLCSS | * Machinotherm Engineers * Ramiconsultancy |
| 7.13 | Gas / Oil Fired Tunnel Kiln (Firing Section) | 20-30 | Lower maintenance, productivity improvement | | CLCSS | * Machinotherm Engineers * Ramiconsultancy |
| 7.14 | Gas / Oil Fired Shuttle Kiln (Firing Section) | 20-30 | Lower maintenance, productivity improvement | | CLCSS | * Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd |
| 7.15 | Automatic Tile Pressing Unit | 5-10 | Uniform force on tiles, productivity improvement, wastage reduction | | CLCSS | * Bernur Engineering Machinery Co. |
| 7.16 | Recuperator | 20-25 | Utilize waste heat, reduce flue gas equipment sizes, reduce fuel consumption | | | * Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd |
| 7.17 | Control Instruments for Firing System | 5-10 | Productivity improvement, quality improvement, reduce cycle time | | CLCSS | * MIFA Systems |
| 7.18 | Continuous Tunnel Dryer with Indirect Fired Hot Air Generator | 20-30 | Higher safety, easy to operate, less maintenance | | CLCSS | * New AVM Systech Pvt. Ltd. |
| 7.19 | Vertical Vibrating Machine | 15-25 | High productivity, 15-20 material saving, better quality spigot and socket | ASTM C 76 | CLCSS | * Qingzhou Water Conservancy Machinery Co., Ltd. * Suzhou Kexing Concrete And Cement Product Equipment Co.Ltd. * Weifang Ocean Construction Machinery Co. Limited. |
| 7.20 | Mixing Plant with Pan Mixture Alongwith Attachment, Computerized Weighing Setup | 15-25 | PLC controled, 15-20 material saving, accurate quality of spigot and socket, higher productivity, less wear and tear | ASTM C 685/C 685M, ACI 304.6R-91 | CLCSS | * Atlas Industries * Macons Equipments * Maruti Equipments Ltd. |
| 7.21 | Oil Fired Tunnel Kiln with Recycling of Waste Heat through Recuperators | 20-25 | Uniform temperature control, continuous process, higher productivity, easy operation, low wastage | | CLCSS | * Laimura Technology (P) Ltd. * Machinotherm Engineers * Sabin Enterprises |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------------------------|---|-----------------------------|--|--|------------------------------|--|
| 7.22 | Squaring Line | 25 | Equipped with PLC control, frequency inverter and heavy duty type grinding assembly | | | * Sunworld Vitrified Pvt. Ltd |
| 7.23 | Glazed Line | 33 | High quality performance & stability | | | * Sunworld Vitrified Pvt. Ltd * Triple Sonic Enterprise Co. Ltd. |
| 7.24 | Ceramic Tiles Printing Machine (Double Chain Print) | 20-30 | Equipped with AC Variable Frequency Drive, All operations run with Programmable Logic Card (PLC). It ensures automatic operations of machine. | MIM 600 | | * Maruti Intelli Mech |
| 8 Pulp & Paper | | | | | | |
| 8.1 | Variable Frequency Drive (by Replacing Dyno Drives) | 30-40 | Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation | JEM201,225,226,227, C62.41.2-2002 | | * ABB India * Schneider Electric India * Siemens Ltd. |
| 8.2 | Seven-effect Free Flow Falling Film Evaporator | 50 | Liquid does not get overheated due to short hold-up time | | | * Advanced Drying Systems * Raj Process Equipments & Systems Pvt. Ltd. * Shachi Engineering Pvt. Ltd |
| 8.3 | Chemical Recovery Unit for Spent Liquor | 30 | Utilise spent liquor as fuel, saving in chemicals like Urea and DAP in effluent treatment plant | | | * Bharat Heavy Electricals Ltd. * Hari Machines Ltd. * Pressels Boilers Pvt. Ltd. |
| 8.4 | High Efficiency Turbine Pump for Water Intake | 80-85 | Flexibility of operation, low initial cost, minimal maintenance cost | ANSI B58.1, CE, GS, EMC, CUL, DIN-24256, ISO-2858, IS – 5120, HIS, IS - 1520 | | * Kirloskar Brothers Ltd. * Mather and Platt Pumps Ltd. * Sintech Precision Products Ltd |
| 8.5 | Boiler with Paper Sludge & Other Solid Waste as Fuel | 80-85 | Lower particulate emission, lower GHG emissions, 30-60 fuel cost savings, carbon credits can be earned | BS EN 303-5:1999 | MNRE | * Elite Thermal Engineers Pvt. Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 8.6 | Heat Recovery Boilers for Waste Combustion | 25-30 | Reduction in equipment size, reduction in auxillary energy consumption | NSF/ANSI 5 | | * Japan Paper Association/ ECCJ (JIEC) * JFE Engineering Corporation |
| 8.7 | High-concentration size press | 50 | High-concentration size fluid, reduced drying load, and makes high- speed coating possible | | | * Japan Paper Association/ ECCJ (JIEC) * C&D Paper Co. Ltd. |
| 8.8 | High-concentration pulper | 23 | Easy maceration, by slowly whirling and agitating it at a high concentration of about 15, consumes same level of power as a low- concentration pulper. | BS EN 1034-5:2005 | | * Japan Paper Association/ ECCJ (JIEC) * Zhucheng Kyrgyzstan Hengtai Machinery Co., Ltd. |
| 8.9 | Dryer with dryer bars installed inside for paper-making machine | 15-20 | By installing 25 bars on one-third of the dryers, productivity is increased by 20 and specific steam con-sumption is decreased by 20 | | | * Japan Paper Association/ ECCJ (JIEC) |
| 8.10 | Steam-recompression heat pump | 20-25 | The hood on the dryers is sealed to minimize the leakage of air from outside. The circulating water is recycled back to the condenser top | | | * Japan Paper Association/ ECCJ (JIEC) |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|----------|--|-----------------------------|--|----------------|------------------------------|--|
| 8.11 | Integration of punched metal screen, slit screen and maceration machine for processing waste paper | 26-31 | Shorter operation period and energy saving | | | * Japan Paper Association/ ECCJ (JIEC) |
| 8.12 | Multi-functional combined screen | 24-59 | Primary and secondary screens are operated at high rejection rates, high internal recycle rate, high rate of separation and a high yield at the same time. | | | * Japan Paper Association/ ECCJ (JIEC) |
| 8.13 | Crown controlling roll | 39-71 | Non-contacting pressuring part to reduced friction loss. | | | * Japan Paper Association/ ECCJ (JIEC) * IHI Corporation |
| 8.14 | High-temperature soft calender for paper making | 40 | The high-temperature soft calender to make the coated paper smooth and glossy | | | * Japan Paper Association/ ECCJ (JIEC) * C&D Paper Co. Ltd. |
| 8.15 | Adoption of AC Driving for Papermaking Machine and Winder System | 20-30 | Energy Efficient | | | * Japan Paper Association/ ECCJ (JIEC) |
| 8.16 | Calendaring Machine with AC Variable Frequency Drive | 30-35 | Low specific power consumption due to VFD, Easy to operate, Higher production rate | | | * Uttam Rubtech Machinery (P) Ltd, Jiangyin Guoguang Calender & Fibre Roller Co. Ltd. |
| 8.17 | Wide Web Inspection Rewinder with VFD controls | 30-40 | A handy and invaluable machine. The output of the Printing Machine is screened for printing defects such as mis-register, blade lines, shade variations etc. 100 defect free reels are obtained. | | | * U.S. Webcon * ACE * UFLEX LIMITED |
| 8.18 | Rewinding Machine with VFD controls | 25-30 | Extended equipment life, reduced maintenance, reduced peak demand, safety against power fluctuation, reduced installation and operating cost | | | * S. L. Exports * Authentic Designers * Rhetoric Technologies Private Limited |
| 8.19 | Armature Paper Inserting Machine equipped with PLC | 10-30 | Self Lubricating, Low noise | | | * Suzhou Slayer Automation Technology Co. Ltd. * Ningbo Nide Mechanical Equipment Co. Ltd. * Murty Enterprises |
| 8.20 | Armature Winding Machine equipped with PLC | 10-30 | Improved Serviceability, stability, easy maintenance | | | * Naman Enterprises * Shyam Electric * Cimtrix Systems Private Limited |
| 9 | Foundry | | | | | |
| 9.1 | kWh Indicator for Induction Furnace | 5-10 | Monitoring & control of electrical energy consumption | | | * ABB Ltd |
| 9.2 | Heat Recovery System for Stress Relieving Furnaces | 5-30 | Waste heat recovery system, reduction in equipment size | | | * Heatech Engineers * Transparent Energy Systems Private Limited |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|--------------------------------------|------------------------------|---|
| 9.3 | Variable Frequency Drive for Screw Compressors | 25-30 | Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | | * ABB India * Sirus Electronic India Pvt. Ltd. * Vacon Drives and Controls Pvt Ltd. |
| 9.4 | Oil Fired Core Drying Oven | 50 | Complete combustion, easy to operate, low maintenance cost, better product quality | | | * MV International (GBM Industries) * NSW India Limited |
| 9.5 | Gas fired Aluminium Melting Furnace (replace Oil Fired Furnace) | 5-30 | Reduction in Thermal Energy consumption | | | * Electrol * Meta Therm Furnace Pvt. Ltd. |
| 9.6 | Divided Blast Cupola | 25-65 | Replace conventional cupola with divided cupola furnace reduces CO2 emissions by 10 | Design as per requirement | | * Tata Energy Research Institute * WESMAN GROUP |
| 9.7 | Gas Fired Cupola | 5-10 | Eco friendly, higher tapping temperature, better melt quality, reduce thermal energy consumption, de-sulphurization not required | Design as per requirement | | * Mammon Furnace & Fabricators Co. * WESMAN GROUP |
| 9.8 | Oil Fired Rotary Furnace | 10-20 | Reduce initial / subsequent heating time, auto on/off control | Design as per requirement | | * Axial Thermal Engineering Company * Prakash Fabricators |
| 9.9 | Induction Furnace with Cooling Tower & Water Treatment Plant | 10-25 | Flexibility to produce ferrous castings, flexibility to select charge mix, better melt quality | Design as per requirement | | * SECO Warnick Pvt. Limited * WESMAN GROUP |
| 9.10 | Induction Ladle Refining Furnace | 10-25 | Value added casting, eco friendly | ASME SA516/ SA516M-07 MT LTV ZT | | * Doshi Associates * Electrotherm (India) Ltd. |
| 9.11 | Natural Gas Based Power Generating Set | 5-10 | Environmental-friendly, high efficient, low emission | IEC 60034-1, NEMA MG1.22, ISO 8528/3 | | * DSR Power Systems * Reddy Generators |
| 9.12 | Intensive Mixers (Molding / Core) | 10 | Reduce defective casting, better cast surface finish | | | * J K Foundry Engineers * Sree Sakthi Equipments Company |
| 9.13 | Simultaneous Jolt / Squeeze Moulding Machine | 23-30 | Higher productivity, dimensional accuracy, less skill requirement | | | * L. S. Engineering Corporation * The Zanvar Group of Industries |
| 9.14 | Spun Pipe Casting Machine | 10-15 | Easy to install, resistance to corrosion, high impact resistance, durable with high load taking capacity | | | * LTP Engineering * Maa Santoshi Casting Company |
| 9.15 | Induction Hardening Equipment (100KW, 500Hz to 3KHz) | 95 | Higher productivity, consistency in quality, can lead to saving in heat-treatment operation | | | * Balaji Engineers * Dawei Induction Heating Machine Co. Limited |
| 9.16 | Removable Hearth Type Chamber (F/C upto 1200 deg C with Computer Compatible Temperature Controller) | 5-15 | Better temperature control, improve quality | Design as per requirement | | * WESMAN GROUP |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|---|------------------------------|---|
| 9.17 | CNC Milling Machine | 55-60 | Higher productivity, dimensional accuracy, less skill requirement, improve quality | BS 4656-30, ISO 14649 | | * Makino Asia Pvt. Ltd. * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 9.18 | CNC Lathe Machine | 55-60 | Higher productivity, dimensional accuracy, less skill requirement, improve quality | ANSI/ASME B5.55 | | * Yamazaki Mazak Singapore Pvt. Ltd. * Kaizen * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 9.19 | CNC Milling (Pattern Shop) | 55-60 | Higher productivity, dimensional accuracy, less skill requirement, improve quality | BS 4656-30, ISO 14649 | | * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 9.20 | Exothermic / Insulating Sleeves (Oven for Baking Sleeves, Molding Machines, Vacuum System) | 15-25 | Insulating and exothermic sleeves improves feeding efficiency upto 20 and 25 respectively | Design as per requirement | CLCSS | * Protech Industries * Quality Metal Products |
| 9.21 | Waste Heat Recovery System for Exhaust Gases | 25 | Utilise waste heat, reduce pollution, reduce auxiliary energy consumption | | | * JP Steel Plantech Co. * Combustion Research Associates |
| 9.22 | Hot Blast Cupola | 30-50 | Lower sulphur pick-up, higher carbon pick-up (blast air temperature should be above 400 degree C) | | | * FTL Foundry Equipment Ltd. * MS Furnace |
| 9.23 | Automatic Pouring System | 10-15 | Higher-quality casting with precision pouring, eliminates underpours and wasteful overpours | P³™ Control Technology - Automatic Pouring system | | * Inductotherm India * Sree Sakthi Equipments Company |
| 9.24 | Energy Efficient Thermal Reclamation Plant | 5-10 | Thermal reclamation is economical compared to mechanical reclamation | | | * J K Foundry Engineers * Sree Sakthi Equipments Company |
| 9.25 | Energy Efficient Short Blasting Machine | 10-15 | Rugged design of the machine reduces fettling cost, save labour cost, tooling cost, reduce rejection | ISO-8501-1 | | * Patel Furnace & Forging Pvt. Limited * Precicut Engineers |
| 9.26 | Online Shot Blasting Machine (for Cleaning the Returns) | 20 | Airless centrifugal suitable for cleaning railway and power transmission casting | | | * Foundmatic Engineers * Patel Furnace & Forging Pvt. Limited |
| 9.27 | High Efficiency Centrifugal Fans | 25-30 | Long life, abrasion resistant | | | * Aerovent Projects Pvt. * R.K. Engineering Works |
| 9.28 | High Efficiency Power Generating Set | 5-10 | Able to the rated load within 10 seconds in a single step, high reliability, low life cycle cost, low operating and maintenance cost | | | * Acoustic Power Gensets * Asian Diesel Corporation |
| 9.29 | Automatic Flaskless Molding Machine | 15 | Higher production efficiency, mold hardness is excess of 85 | ASTM D3359 Standards | | * Sinto Kogio Group * Sree Sakthi Equipments Company * Zeta India Inc. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|---|-----------------------------|--|--|------------------------------|--|
| 9.30 | Core Setter and Automatic Mold Conveyor | 5-15 | High-precision mould transport with no shifting, distortion or displacement of moulds | EN-60204.1/92 and the IEC directives IEC-204.1/92. | | * DISA India Ltd. * Sree Sakthi Equipments Company |
| 9.31 | Compact Vertical Moulding Machine | 15-20 | Higher production capacity upto 350 moulds/hour (uncored), PLC system for optimum production, less space requirement | AWS D1.1/ D1.1M:2010 · CSA Z662-11 IEC 61496-3:2008. EN ISO 3744:2009. ISO 3744:1994 | | * DISA India Ltd. * Zeta India Inc. |
| 9.32 | Automatic Cold Box Core Shooter | 5-15 | Can shoot in volume of 5 to 20 kgs, the average cycle time is from 10 second onwards without gassing, shoot and exhaust | Design as per requirement | | * Galaxy Machines * G.S. Machineries * Sree Sakthi Equipments Company |
| 9.33 | Electrically Heated Die- Heating Furnace | 25-30 | Uniform temperature, pollution free compared to conventional furnace, Auto controll, noise free | Design as per requirement | | * Deep Furnaces * THERMOTEC Furnaces (India) |
| 9.34 | Electrically Heated Nitriding Furnace | 40-50 | Reduce use of working gas 50 - 100 times, reduce treatment time by 3 - 5 | Design as per requirement | | * Manometer India Pvt. Ltd. * Welmech Engineering Company Pvt. Ltd. |
| 9.35 | Mechanized Moulding Machines (with PLC control) | 25-70 | High static & high dynamic squeeze force results in high quality moulds, uniform moulds properties, reduce rejection, reduce mould preparation costs | ANSI B151 | | * Moulding Machine Manufacturing Pvt. Ltd. |
| 9.36 | Mechanical Sand Reclamation (PLC controlled) | 60-65 | Low running cost | | | * I.M.F. |
| 9.37 | Automatic On-line Sand Controller | 60-65 | Low running cost | | | * Rhino Machines Pvt Ltd. |
| 9.38 | Variable Speed Sand Mixer | 10-30 | Improved flowability, permeability, reduced operating moisture level, efficient mixing | | | * Rhino Machines Pvt Ltd. |
| 9.39 | Computer Controlled Sand Cooler-Mixer | | Streamlined sand handling, transport equipment, and reduced maintenance, more evenly, higher efficiency of the sand , a direct reduction in the loss of the excipients | | | * Rhino Machines Pvt Ltd. |
| 9.40 | Liquid Metal Supply | 25-30 | Re-heating is avioded | | | * Genphoal Technology Co., Ltd. * Daviz Solution |
| 9.41 | Automatic Manganese Phosphating Plant | 30-40 | Innate lubrication properties, these phosphate coatings can also absorb large proportions of lubricants by their porosity. | | | * Biosafe Solutions |
| 9.42 | Automatic Core blowing machine | 15-20% | Fully automatic process and PLC controlled | | | |
| 10 | Textile | | | | | |
| 10.1 | High Efficiency Atomizers in Humidification Plant | 10-20 | No cleaning required, 1/3 water flow required, lower flow due to better atomization, atomized water density is adjusted | | | * Acmefil Engineering Systems Pvt. Ltd. * Amoto Engineers Pvt. Ltd. * Swish Technologies |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--------------------------------------|------------------------------|---|
| 10.2 | Energy Efficient Fans | 25 | Lesser heat generated, reduced maintenance requirements | IEC 60335-2-40 | | * Castfab Engineering India (P) Limited * Mantra Composites |
| 10.3 | Variable Frequency Drive for Humidification Fan | 25-30 | Eliminates external humidification controller | JEM201, 225, 226, 227, C62.41.2-2002 | | * Vacon Drives and Controls Pvt. Ltd. |
| 10.4 | Variable Frequency Drive for Autocore Suction Motor | 15-20 | Smooth start / stop operation, better process control | JEM201, 225, 226, 227, C62.41.2-2002 | | * ABB India * Vacon Drives and Controls Pvt Ltd. |
| 10.5 | Variable Frequency Drive for Water Circulating Pump | 25-30 | Smooth start / stop operation, better process control | JEM201, 225, 226, 227, C62.41.2-2002 | | * ABB India * Vacon Drives and Controls Pvt Ltd. |
| 10.6 | Transvector Nozzle for Cleaning Application | 5-10 | Sucks atmospheric air along with airjet, reduce air consumption by 50 | | | * Vortexair |
| 10.7 | Yarn Conditioning Machine | 15-20 | Non corrosive stainless steel used for construction, precise software with multi- cycle process facility, maintenance free trolley feeding unit, can run on electricity, steam, oil | | | * Alidhra Weavetech Pvt. Ltd. * Blue Moon Engineering & Manufacturing Company |
| 10.8 | Automatic Rotor Spinning Machine with MRPS System | 20-25 | Every spinning position shows production rate, spinning components are directly accessible & replaceable without tools | | | * Oerlikon Textile India Pvt. Ltd. |
| 10.9 | Open-width Continuous Scouring and Bleaching Range with Microprocessor Control | 15-20 | Controlled cloth tension, low chemical consumption | | | * Swastic Group of Companies * Texfab Engineers (I) Pvt. Ltd. |
| 10.10 | Ring Frame Machine | 15-21 | Higher production rate | BS ISO 96-2:2009, ICS 59.120.10 | | * Applied Automation Systems Private Limited * Blue Moon Engineering & Manufacturing Company |
| 10.11 | Speed Frame Machine | 10-15 | Smooth start / stop operation, better process control | | | * Kirloskar Toyoda Textile Machinery Pvt. Ltd. * Sri Lakshminarasimha Engineers (P) Ltd. |
| 10.12 | Extrusion Lamination Line with Frequency Control Motors | 10-30 | Smooth start / stop operation, better process control | | | * Ocean Extrusions |
| 10.13 | High Speed Mouldar Mounter | 20-30 | Improvements in actual throughput | | | * Juki India Private Limited |
| 10.14 | Warp / Raschel Knitting Machine (Manufacturing of Knitted Fabric) | 25-30 | Inverters to control speed, operate conveniently | | | * Fung Chang Industrial Co. |
| 10.15 | High Speed Computerized Warping Machine for Knitting | 15-25 | Broken & lost end can be memorised | | | * Rabatex Industries |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|------------------|------------------------------|--|
| 10.16 | Modern Industrial Humidification System (for Controlling Relative Humidity & Temperature) | 90-95 | Ease to maintain, longer life, multiple axial fans with direct drive, PVC diffusers | | | * Excel Airechnics (P) Ltd. * Samarth Air Tech Pvt. Ltd. |
| 10.17 | Wet Fabric Spreading and Squeezing Machine (Dyeing) | 20-30 | Excellent squeezing and spreading performance, increase roller life | | | * Ramsons Garment Finishing Equipments (Pvt) Ltd. |
| 10.18 | Roller Steamer / Polymeriser (Dyeing) | 10-20 | Less maintenance and operating cost | | | * Urja Process & Technologies Pvt. Ltd. |
| 10.19 | Washing Range with Arrangement of Tension Free Fabric Drying and Reduced Water Consumption / Water Reuse System (Dyeing) | 5-10 | Improvement in product quality | | | * Swastic Group of Companies * Texfab Engineers (I) Pvt. Ltd |
| 10.20 | Hydro Extractor (Dyeing) | 20 | Very high speed results in quick and maximum hydro extraction, AC Inverter drive for soft start / stop, dynamically balanced to high accuracy | | | * Sparrow Tex Engineering Works * Swastic Group of Companies |
| 10.21 | Tumble Dryer (Dyeing) | 15-20 | Fully programmable electronic control, cool down feature minimizes wrinkling & guarantees longer fabrics life, timer controlled operation | BS EN 61121:2005 | | * Prashant Manufactures Company * Whirler Centrifugals Pvt Ltd. |
| 10.22 | Multi Chamber Stenter (min 4 Chambers) with Arrangement of Oil / Gas Heating (Finishing) | 10-20 | Close circuit air circulation chamber, wide internal chamber space for easy cleaning, zig-zag arrangement of motors | | | * Stenmech Engineering Works Pvt. Ltd. |
| 10.23 | Radio Frequency / Infrared Radiant Gas Fired / Microwave / Loop / Relax Dryer (Finishing) | 15-20 | Optimum residual shrinkage with softer, fuller, bulkier handle of fabrics, shape stability | | | * Swastic Group of Companies |
| 10.24 | Heat Recovery System for Stenters | 30 | Utilise waste heat | | | * Swastic Group of Companies |
| 10.25 | Balloon Padding Machine | 10-15 | Compact in size, high durability, motors controlled by A.C. invertors | | | * Q-tek CNC * Swastic Group of Companies * Whirler Centrifugals Pvt Ltd. |
| 10.26 | Slit Opener with Squeeze Mangle | 40 | Excellent Squeezing performance, increase in roller life | | | * ANDRITZ Küsters GmbH Eduard-Küsters-Straße |
| 10.27 | PLC Based Compacting Machine | 20-30 | Sensitive load cells, variable frequency drive, PLC control, lowest residual shrinkage values | BS EN 500-4:2006 | | * Swastic Group of Companies |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|-------------------------------|------------------------------|---|
| 10.28 | PLC Based Mercerizing Machine | 20-30 | Saving of dyestuff in subsequent processing, increase penetration of printing paste, improve response to sueding or raising | | | * Texfab Engineers (I) Pvt. Ltd. |
| 10.29 | Fabric Reversing and Slit Opening Machine | 5-15 | Smooth and fast working | | | * Eastman Exports * Swastic Group of Companies |
| 10.30 | Air Tight Hot Air Stenter Machine (using AC Interver Drive) | 25-30 | Electronic air flow control, high efficient drying zone, unique air flow system with individual blower for top / bottom jet box | | | * Harish Tex-Mach Pvt. Ltd. |
| 10.31 | Energy Efficient Boiler with Combustion Control System (Steam Heating System) | 15 | Measures & monitors for design parameters, safe working range, facility for alarm & tripping during emergency | | | * Mitsubishi Chemical Engineering Corporation * Thermax Ltd. |
| 10.32 | Thermo Pac (Heating System) | 10-25 | Easy access to parts for maintenance, easy to monitor | ASTM Standard B-499 | | * Thermopac Boilers Pvt. Ltd. |
| 10.33 | Biomass Gasifier Based Hot Water Generator | 5-20 | Reduce cost of operation, reduce auxiliary energy consumption, reduce Fuel consumption | | | * Heatech Engineers * Transparent Energy Systems Private Limited. |
| 10.34 | High Speed / Ultra High Speed Knitting Machines | 20-30 | Higher production rate, less maintenance, vibration absorbing system for machine legs, inverter controller motor system, tripping during emergency | BS ISO 10223:2005 | | * Virka Textile (P) Ltd. * Yuvraj MERCH-X |
| 10.35 | 3 Thread Fleece Machines (Ploy Plating) | 15-30 | Higher production rate, needle detector, inverter controlled motor, anti- dust device, tripping during emergency | | | * Yuvraj MERCH-X * Xiamen Xinglin Zhenlihua Industry & Trade Co., Ltd * YITAI Group,Jinjiang DONGTAI Knitting Machine Co.,Ltd |
| 10.36 | Interlock Knitting Machines | 5-20 | Higher production rate, needle detector, inverter controlled motor, anti- dust device, tripping during emergency | D1894, ISO8295 and TAPPI T549 | | * Yuvraj MERCH-X * Parma machineries * YITAI Group,Jinjiang DONGTAI Knitting Machine Co.,Ltd |
| 10.37 | RIB Pointel Jacquard Machines | 10-30 | Higher production rate, needle detector, inverter controlled motor, anti- dust device, tripping during emergency | | | * Yuvraj MERCH-X * KALSI MECHANICAL WORKS * Qingdao Shunxinyuan Machinery Imp. & Exp. Co., Ltd |
| 10.38 | RIB Knitting Machines | 30 | Higher production rate, needle detector, inverter controlled motor, anti- dust device, tripping during emergency | | | * Yuvraj MERCH-X * KALSI MECHANICAL WORKS * Qingdao Shunxinyuan Machinery Imp. & Exp. Co., Ltd |
| 10.39 | High Speed Single Jersey Knitting Machines | 10-25 | Higher production rate, less maintenance, anti- dust device Quality Wheel fear box, High quality cam surface for improving sinkers & needle lifetime and tripping during emergency | | | * Virka Textile (P) Ltd. * Yuvraj MERCH-X * YITAI Group,Jinjiang DONGTAI Knitting Machine Co.,Ltd, |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---------------------------|------------------------------|---|
| 10.40 | Single Jersey Machines with Open Width Take Up System | 15-30 | Higher production rate, require less manpower, less maintenance, smooth fabric edge cutting, compressor not required, tripping during emergency | | | * Pardota Overseas * Yuvraj MERCH-X |
| 10.41 | Single Jersey Auto Stripper Machines | 10 | Faster pattern setting, generous stitch-forming area, minimum strain on yarn, reliable striping of even extreme fabric | | | * Anusam Knitting Mills * Yuvraj MERCH-X |
| 10.42 | Terry Knitting Machines | 15-30 | Higher production rate, Inverter motor control, RS-485 communication interface, less maintenance, Vibration Absorbing system for machine legs, frame design to withstand at high speeds, Anti-dust device and tripping during emergency | ASTM A268 | | * Yuvraj MERCH-X * Zhuji Fengzu Computer Knitting Machine Co. Ltd. |
| 10.43 | Float Plating Denim Machine | 15-30 | Higher production rate, less maintenance, high quality cam surface, increase needle life, tripping during emergency | | | * Yuvraj MERCH-X |
| 10.44 | Double Knit Electronic Jacquard Machine | 20-30 | Latest generation electronics | | | * Aroma Tech |
| 10.45 | Woven Like Corduroy Machine | 5-15 | Higher production rate, less maintenance, tripping during emergency | | | * Anusam Knitting Mills * Yuvraj MERCH-X |
| 10.46 | High Speed Circular Knitting Machines | 20-25 | Higher production rate, less maintenance, vibration absorbing system for machine legs, inverter controller motor system, tripping during emergency | BIS IS 12385:1988 (R1998) | | * Anusam Knitting Mills * Yuvraj MERCH-X |
| 10.47 | High Speed Flexible Chip Shooter | 30-40 | Sixth generation high- speed modular chip shooter, combined with the laser centering system gives more accurate components | | | * Juki India Private Limited |
| 10.48 | Grey Heat Setting | 20- 30 | PLC, suitable for removal of snarling and curling effects, stabilise moisture level in dry yarn, variable frequency drive systems | | | * Guruson International * Jogindra Industries |
| 10.49 | Soft Flow / Jet Flow Dyeing Machine (Low MLR of 1:5 or Lower) | 30-35 | Variable frequency drive for centrifugal pump in jet-dyeing machine, energy saving by avoiding pressure loss across control valve | ASME -50 D | | * Devrekha * Whirler Centrifugals Pvt Ltd |
| 10.50 | Squeezer with Slit Opener | 15-30 | PLC, magnetic stretcher, variable frequency drive | | | * Dezhou Yaxing Textile Machinery Co., Ltd * Guruson International |
| 10.51 | Balloon Padding | 10-25 | Compact in size, high durability | | | * Q-tek CNC * Swastic Group of Companies |
| 10.52 | Relax Dryer | 5-30 | Optimum residual shrinkage with softer, fuller, bulkier handle of fabrics, shape stability | | | * Swastic Group of Companies |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|------------------------------------|------------------------------|---|
| 10.53 | Specialty Fabric Finisher such as Brushing, Sueding, Raising, and Compacting | 5-15 | Creaseless drying | | | * Swastic Group of Companies |
| 10.54 | PLC Based Package Dyeing Machine | 10-15 | PLC controlled, highly reliable | BS EN 61496-1:2004 | | * Micro Services Group |
| 10.55 | Automatic Hank / Yarn Dyeing Machine | 15-20 | Variable conveyor speed, low fibre loss, equipped with moisture controller or automatic control for moisture retention prior to blending / spinning | ASME B16.34, BS1414, API600, API6D | | * Swastic Group of Companies * Universal Textile Industries * Unimech Engineers Pvt. Ltd |
| 10.56 | Direct-drive, High Speed, Lockstitch Machine with Automatic Thread Trimmer | 10 | Increase in feed, broadend sewing range, prevent sewing problem | | | * Juki India Private Limited * Taizhou Fit Garment Equipment Co., Ltd. * Shanghai Kinglion Sewing Machine Co., Ltd. |
| 10.57 | Lockstitch Machine with Automatic Thread Trimmer | 5-10 | Easy to operate, sure thread trimming mechanism | | | * Juki India Private Limited |
| 10.58 | Semi-dry-head, High Speed, Overlock Stitch Machine | 10-15 | Eliminate oil stains on sewing product, cutting edge dry technology to achieve lubrication free mechanism | | | * Juki India Private Limited |
| 10.59 | Computer-controlled, High Speed, Lockstitching Buttonholing Machine | 25 | 30 stitch patterns for buttonhole | | | * Juki India Private Limited * Nakita - Asia * MC Thompson |
| 10.60 | Computer-controlled, High-speed, Lockstitch, Button Sewing Machine | 25 | Different sewing patterns, better seam quality, auto lifter mechanism, oil stains are eliminated, sewing starting point can be corrected | | | * Juki India Private Limited * Nakita - Asia * MC Thompson |
| 10.61 | High-speed, Flatbed, Top & Bottom Coverstitch Machine | 20-25 | Stitch type as per sewing items, simplified maintenance mechanism | | | * Juki India Private Limited * Pegasus Corp of America * Kansai Special |
| 10.62 | High-speed, Cylinder-bed, Top & Bottom Coverstitch Machine | 20-25 | Stitch type as per sewing items, simplified maintenance mechanism | | | * Juki India Private Limited |
| 10.63 | Computer-controlled, High-speed, Bartacking Machine | 10-30 | Faster speed, high productivity, better seam quality, wider sewing area, different sewing pattern | | | * Juki India Private Limited * M.M. Enterprises |
| 10.64 | Servo-motor Stitching Machines | 60-65 | Clutch-less operation, variable speed, Reverse Motor rotation Up to 4000 RPM / High Torque 400 watts, | | | * Westchester Sewing Machine Co. |
| 10.65 | Clutch Motor Stitching Machines with 3-phase Motor | 10 | Accurate clutch operation permits instant start / stop, vibration & noise is minimized | | | * ADLEE Powertronic Co. Limited * Wuhu Surmount Machinery & Equipment Co., Ltd |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|----------------|------------------------------|---|
| 10.66 | Computerized Embroidery Machine | 15-20 | Advance Dahoo program gives high quality performance, colour LCD displays current embroidery design, use servomotor, high precision | TL912 | | * Laxmi Creation * Vidhi Creations * Hefeng Embroidery Machines Limited |
| 10.67 | Automatic Printing Machine | 10-30 | Auto start / stop with auto counters, aluminium honey comb pallets, half index to clean screen | | | * Mimaki Engineering Co.,Ltd. * Jaya Industries * Screenotex Engineers Pvt. Ltd. |
| 10.68 | Industrial Washing / Drying Machine / Tumble Dryers | 10-15 | Programmable electronic control, timer controlled operation, cool down feature to minimize wrinkle to guarantee longer fabric life | IEC 61121 | | * Whirler Centrifugals Pvt Ltd. |
| 10.69 | Draw Winder | 40-50 | Inverter driven motor drive system offers stepless parameter setting in running condition | | | * Aalidhra Textile Engineers Ltd. * BHAGAT TEXTILE ENGINEERS * K&K International |
| 10.70 | Air Draw Texturising Machine | 40-50 | Inverter driven motor drive system offers stepless parameter setting in running condition | | | * Aalidhra Textile Engineers Ltd. |
| 10.71 | Draw Texturising Machine | 40-50 | Inverter driven closed loop speed control for individual drives | ICS 59.120.10 | | * Aalidhra Textile Engineers Ltd. * Himson Engineering Private Limited * Ambica Textile Engineers |
| 10.72 | Filament Twisting Soultons | 40-50 | Electronic NXG Power Saver Control System | | | * Aalidhra Textile Engineers Ltd. |
| 10.73 | Spun Twisting Solutions | 40-50 | Electronic NXG Power Saver Control System | | | * Aalidhra Textile Engineers Ltd. |
| 10.74 | Industrial Twisting Solutions | 40-50 | Electronic NXG Power Saver Control System | | | * Alidhra Weavetech Pvt.Ltd. |
| 10.75 | Thread Manufacturing Solutions | 40-50 | Electronic NXG Power Saver Control System | | | * Alidhra Weavetech Pvt.Ltd. |
| 10.76 | Crepe Yarn Solutions | 40-50 | Electronic NXG Power Saver Control System | | | * Alidhra Weavetech Pvt.Ltd. |
| 10.77 | Automatic Cone Winder | 15-20 | Variable frequency draive controlled, vacuum sensor & electronic circuit to optimize suction pressure | | | * Nota Industries * Reshma Industries (India) Pvt Ltd. * Veejay Lakshmi Engineering Works Limited |
| 10.78 | Yarn Guided Machine with Precision Crossing with Inverter Control | 10-30 | High winding, Electronic yarns sensor | | | * Sheards Ltd |
| 10.79 | Tape Winder (Using Frequency Drive) | 10-30 | Highest precision and flawless quality | | | * Lohia Starlinger Ltd. |
| 10.80 | High Speed Shuttleless Velcro Machine | 5-20 | Even feeding of yarn and efficient operation | | | * Ningbo Keguang Mechanical & Electrical Products Co. Ltd. |
| 10.81 | Water Jet Looms | 50 | High Speed, low vibration, lowest power consumption per meter of fabric manufactured | JWYC408-II | | * Alidhra Weavetech Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|--|------------------------------|---|
| 10.82 | Air Jet Looms | 50 | Lowest power consumption per meter of fabric manufactured | CE / IEC 61000 -4 EMC | | * Alidhra Weavetech Pvt. Ltd. |
| 10.83 | Rapier Looms | 50 | Lower production cost due to higher efficiency | IEC 117884 | | * Alidhra Weavetech Pvt. Ltd. |
| 10.84 | Jacquard Machine with Electronic Control | 45-50 | Easy to adapt and versatile, Easy Integration, Extremely resilient, Minimum Maintenance | IEC 60947-4, GB14048-4 | | * Bonas Textile Machinery NV |
| 10.85 | Condensate Recovery & Recycle System | 20-40 | Depend on the pressure during condensation, water temperature may be 100 degC or more. Sub-cooled condensate is below 99 degC. | | | * Forbes Marshal |
| 10.86 | Heat Recovery Systems for Boilers (Economizer, Air Pre-heater) | 5-10 | Reduce auxiliary energy consumption, equipment size, fuel consumption, pollution | NSF/ANSI 5 | | * Heatech Engineers * Transparent Energy Systems Private Limited |
| 10.87 | High Efficiency Diesel Generating Sets with High Specific Energy Generation Ratio | 10 | Able to the rated load within 10 seconds in a single step, high reliability, low life cycle cost, low operating and maintenance cost | | | * Acoustic Power Gensets * Asian Diesel Corporation |
| 10.88 | Energy Efficient Fan, Blower, Pump | 25-30 | Lesser heat generated, reduced maintenance requirements | IEC 60335-2-40 | | * Aerovent Projects Pvt. Ltd. * R. K. Engineering Works |
| 10.89 | Variable Frequency Drives for Fan, Blower, Pump | 25-30 | Extended equipment life, reduced maintenance, reduced peak demand, safety against power fluctuations | JEM201,225,226,227, C62.41.2-2002 | | * ABB India * Sirus Electonet India Pvt. Ltd. * Vacon Drives and Controls Pvt. Ltd. |
| 10.90 | Automatic Power Factor Controller | 10 | Reduce reactive power, reduce total current from the source | IEC 831-1/2 , IEC 439-1, IEC/EN 61010-1, IEC/EN 61000-6-2, CISPR 11/EN 55011 | | * Baron Power Ltd. * Epcos India Pvt. Ltd. |
| 10.91 | Polishing Line with High Efficient Electric Motors using AC drives | 10-30 | Follows International Design and quality, easy operation and maintenance | | | * Sunworld Vitrified Pvt. Ltd |
| 10.92 | Circular Weaving Machine | 20-25 | Optimum output of fabric and quality from the machine corresponding to the quality of tape | | | * Lohia Starlinger Ltd. |
| 10.93 | Tape Extrusion Line | 25-30 | Equipped with automatic screen changer with in-line gear pump system | | | * Lohia Starlinger Ltd. |
| 10.94 | Cheese Winder | 20-30 | Capable of producing high quality packages even at the highest operating speed, flexibility in changing wind ratios for processing variety of tapes | | | * Lohia Starlinger Ltd. |
| 10.95 | Automatic Stitching Machine | 20-25 | High nonstop speeding machine | | | * Shanghai Eterna Machinery Co., Ltd. |
| 10.96 | Bridge Guiding machine | 20-25 | High Accuracy and faster operation | | | * Erhardt leimer |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------|------------------------------|--|
| 10.97 | Carding machine | 18-20 | Digitally controlled, reduced electrical power losses, improved quality and production rate. Maximum speed and control accuracy at low speed. | | | * Truelzschler India Pvt. Ltd. |
| 10.98 | Blow Room machinery | 15-20 | Higher efficiency rates, Longer lives of clothings and spinning components, Increased economic efficiency, Clean ambient air | | | * Truelzschler India Pvt. Ltd. |
| 10.99 | Open width knitted Inspection machine for fabric with Inverter control | 25-30 | Variable Speed drives, Inverters with built in PLC drive, Easy to operate, Piece-end detector automatically stops machine & thus saves power | | | * ALMAC Vadodara * Suntech Industrial (International) Limited |
| 10.100 | Circular Grain Knitting Machine | 20-25 | Excellent design, solid structure and easy operation, Reduction in the wastage of material and power | | | * Lai Chen Ltd. * Narinder International |
| 10.101 | Four Needle Chain Stitch Machine | 10-15 | Micro adjustment for needle feeding amount, Full Automatic Lubrication, Retractable Looper mechanism for Easy Threading | | | * Yamato Sewing Machine Mfg. Co. Ltd. |
| 10.102 | Automatic Saddle Stitchers (with Variable Frequency Drive) | 10-15 | Reduced energy consumption, High net output, Quick and safe setup, Simple operation, Exceptional process reliability | | | * Muller Martini Corp., Winlycn Printing & Packing Machinery Trading Company |
| 10.103 | Armflat Lock Machine | 10-15 | Different sewing patterns, Easy to operate, Low power consumption, Faster speed, High productivity, Better seam quality, Simple maintenance | | | * J & B Sewing Machine Co Ltd, Al Borj Machinery LLC |
| 10.104 | Automatic Package Winder | 10-15 | High quality, High Productivity, Easy Operation | | | * Murata Macihnery India Pvt. Ltd. * Oerlikon Textile India Pvt. Ltd * Peass Industrial Engineers Ltd. |
| 10.105 | Overhead travelling cleaner using energy efficient motor and PLC control system | 50-60 | Precision design and construction standards for ensuring consistent performance. New design power duct that adds longer service life to brushes, Comes with option of adjustable blowing attachment, Compatible in nature More durable Easily avail this from the market at attractive prices | | | * SKB Systems * Maas Engineering * KAVERI MACHINTEX |
| 10.106 | Ultrasonic Cutting Machine | 10-15 | Efficient Performance, Reduce/Eliminate operators intervention | | | * Dukane Intelligent Assembly Solutions * Bakon USA Food Equipment * Perfect Machine Tools Co. Limited |

CHAPTER 2

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|---|-----------------------------|---|---|--|----------------------------|
| 10.107 | VFD/Servo/PLC driven High Speed Shuttleless Weaving Machine | 10-20% | | | | |
| 10.108 | VFD/Servo/PLC driven High Speed Warping Machine | 10-20% | | | | |
| 10.109 | Automatic VFD/ Servo/PLC driven Fabric Straightening System Machine | | | | | |
| 11 | Engineering | | | | | |
| 11.1 | Energy Efficient Air Compressors | 30-50 | Easy to install and operate | ASME B19.1 | * Sun Engineering Equipments * Elgi Equipments Ltd * Kirloskar Pneumatic Company Limited | |
| 11.2 | Variable Frequency Drive for Screw Compressors | 25-30 | Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | * Gennext Control * Gayatri Control And Automation Private Limited | |
| 11.3 | Heat of Compression Air Dryers (Replacing Desiccant Air Dryer) | 40 | Replacement of desiccant air drier with refrigerated dryer, less maintenance as no moving parts | | * Summits Hygronics (P) Ltd * MAS GASAIR SYSTEMS (P) LTD | |
| 11.4 | Variable Frequency Drive for Oil Pump in Hydraulic Power Pacs | 25-30 | Smooth start / stop, increase life | JEM201, 225, 226, 227, C62.41.2-2002 | * Gennext Control * Gayatri Control And Automation Private Limited | |
| 11.5 | Energy Efficient Exhaust Fans | 25 | Improve in suction | | * Encon * Usha International Ltd | |
| 11.6 | Variable Frequency Drive for Hot Air Circulation Fan for Preheating Furnace | 25-30 | Smooth start / stop, increase life | JEM201, 225, 226, 227, C62.41.2-2002 | * Encon * Usha International Ltd | |
| 11.7 | Air Preheater (for Furnace Flue Gas Waste Heat Recovery) | 5-30 | Reduce auxiliary energy consumption, equipment size, fuel consumption, pollution | | * Precision Controls * Electrotherm (India) Ltd | |
| 11.8 | CNC Cutting Machine with End Former | 45-50 | Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality | ASTM A36/A283, ISO 230-4, ASME B5.54/57 and GB17421.4 | * A Innovative International Ltd * CNP Engineers | |
| 11.9 | Full Automatic CNC Return Bender | 45-50 | Automatic feed, produce return bends at high production speed | ASTM/ASME A213 SA213 | * Waves Aircon Pvt. Ltd. | |
| 11.10 | Automatic Ring Sizing and Loading Machine | 45-50 | Higher productivity, require less maintenance | | * Bluetex Engineering | |
| 11.11 | CNC Vertical Machining Centre | 45-50 | Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality | ISO/IEC 17025 and A2LA | * Makino India Pvt. Ltd. * Automated Industrial Machinery, Inc | |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--|------------------------------|--|
| 11.12 | Vacuum Holding for Non-Ferrous Components for High Speed Milling | 25-30 | Higher productivity, higher accuracy | ASTM E1417, ASTM E415, ASTM E1444, SAE J429, ANSI/ISO/ IEC 17025, ANSI/ NCSL Z-540-1, ANSI/ ASME | | * Europack Machines (I) Pvt. Ltd. |
| 11.13 | CNC Co-ordinate Measuring Machine | 25-30 | Higher productivity, higher accuracy | ASME B5.52 | | * Lipak Metrology Pvt. Ltd. * Cimtrix Systems Pvt. Ltd. |
| 11.14 | CNC Sharpening and Profile Grinding, Automatic Broach Shappingen Machine | 15-30 | Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality | | CLCSS | * MTAB Engineers Pvt Ltd |
| 11.15 | Turning Machine with Variable Frequency Drive with Regenerative Braking System | 30-35 | Variable frequency drive, high speed machining | | CLCSS | * Active Engineering |
| 11.16 | Servo Electric Turret Punch Machine | 10-20 | Punching force: 20 / 30 ton, compact size, low maintenance | ASTM B381 ASTMB348 ASME SB348 ASTM F136 AMS 49283 | | * Weldor Engineering Pvt. Ltd. |
| 11.17 | Abrasive Assisted High Pressure Water Jet Cutting | 20-25 | High cutting speed, Improve cutting quality, no material deformation caused by heat, no change in metal structure, no heat affected zones, No hazardous fumes and vapours | ISO 9001:2008 & AS9100 | | * Flow Master |
| 11.18 | Inverter Based Welding Machine | 60 | Faster response time, low ripple, smaller in size & lighter in weight hence portable, better weld quality | IGBT-400, IGBT-500, IGBT-600 | | * Warpp Engineers Pvt. Ltd. |
| 11.19 | CNC Plasma Cutting Machine | 40-45 | High- precision and control | | | * CNP Engineers * Arndt Engineers * ELEKTROWELD AUTOMATIONS INDIA PVT. LTD |
| 11.20 | Double Polishing Machine (with Inverter Control) | 30 | High efficiency and High quality product output | | | * Pyung Chang Machinery Co. Ltd |
| 11.21 | Pressure Die Casting Machine | 25-30 | Optimum flexibility with processes and procedures | ASTM B86 | | * Buhler Druckguss AG * Dynaquip Machines * Rockman Industries Ltd. |
| 11.22 | Semi Automatic Pillar Type Hydraulic Hot Moulding Press (with PLC Control) | 30-40 | High product quality and high product efficiency | | | * Flowmech Engineers (P) Ltd. |
| 11.23 | CNC Electronic Spring Control Machine | 15-20 | Micro stepping drive for accurate positioning and loading control, Programmable Control | | | * WAFIOS AG |
| 11.24 | Fully Automatic Hydraulic Hot Chamber with Diesel Burner | 20-25 | Well and High Quality Control | | | * Jeu-Wat Zipper Co., Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|--|------------------------------|--|
| 11.25 | Rotary Table Machine for Surface Finishing and Polishing (with Inverter Speed Regulation) | 10-30 | Precision, efficiency, rigidity, stability | | | * Surface Engineering |
| 11.26 | CNC Punching Forming Machine | 25-30 | Consistent quality and dimensional precision | ISO/TS 16949:2002 | | * Murata Machinery (Shanghai) Co. Ltd. |
| 11.27 | CNC Based Gear Tester | | User friendly and reduced cycle time | | | * Klingelnberg, Francis Klein & Co. Pvt. Ltd. |
| 11.28 | Open Back Double Point Press – PLC Controlled | 30-40 | High precision, high strength, high rigidity | | | * Jiansu Yangli Group |
| 11.29 | Automatic Transfer Unit | 35-40 | Independent of the type of switchgear, Up to 32 cubicles with the same remote control unit. | IEC 947-6-1 | | * Lee Yih Automation Co. * Ormazabal |
| 11.30 | CNC Garter Spring Former | 35-40 | High speed production capability | | | * YHM Springtech Machinery Co. |
| 11.31 | Electro-Hydraulic CNC Punching Machine | 25-30 | Machine equipped with standard accessories and CE certified oil pump | ASME 14.5 GD & T | | * TRUMPF (India) Pvt. Ltd. * Murata Machinery (Shanghai) Co. Ltd. |
| 11.32 | Automatic NC Control Bending Machine | 50-65 | Volume production pieces or changing requirements | | | * TRUMPF (India) Pvt. Ltd. |
| 11.33 | Sensor Oxy – Height Control (OHC) and Sensor Plasma Height Control (PHC) | 10-20 | Operator input is reduced, accuracy improves and productivity increases | | | * Hypertherm, Inc. |
| 11.34 | Gasifier Based Heat Treatment Furnace | 20-30 | Utilize clean energy | ASME EA-1-2009, ISO WD 13579-1 | | * ENCON Thermal Engineers Pvt. Ltd. * Shanghai Esong Mining Machinery Co. |
| 11.35 | Insulated Gate Bipolar Transistor Based Inverter | 30-40 | High power factor (0.95), can start up at any load, automatic power & frequency tracking | ASME. ASA-C-39.1-1984. | | * Hitachi Ltd. * Larsen & Toubro Ltd. (Welding Products Business) |
| 11.36 | Insulated Gate Bipolar Transistor Based Inverter (Medium Voltage AC Drives) | | High Efficiency, High Reliability, Sensor Less Vector Control, Cost Reduction | 2kV-11kV / 310-9790kVA IEC,JIS,JEC,JEM | | * Hitachi Hi-Rel Power Electronics Pvt. Ltd. |
| 11.36 | Cylinder Block Boring and Milling Machine (with Variable Speed and Cycle Control) | 10-30 | Easy operation, Life long quality Service, Automatic central lubrication | | | * AMC-SCHOU AS |
| 11.37 | Duplex Roller Polishing Machine | 40-50 | Consistent cleaning, 60 time saving in brushing operation, easy brush replacement, hi-speed turbine blower for inside hole cleaning | ASTM A789 (ASME A789), ASTM A790 (ASME A790) | | * Innovative Technologies |
| 11.38 | Hollow Heading Machine | 10-15 | High speed, fully automatic, high mass production | ASTM C652 | | * Teemable Ltd. * Gwo Ling Machinery Ltd. |
| 11.39 | Heading Machine with Semi Cover | 10-15 | High speed, fully automatic, high mass production | | | * Gwo Ling Machinery Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|---|------------------------------|---|
| 11.40 | Nut Former Machine | 40-50 | All the parts are perfectly covered for proper safety, longer machine-life and lesser maintenance costs. | | | * Perfect Industries |
| 11.41 | Laser Marking Machine | 10-30 | High Accuracy, Enhance Product Quality | | | * Sahajanand Laser Technology Ltd. |
| 11.42 | Double End Chamfering Machine for Pipes | 10-30 | Optimal electric circuit and NC control result in a low maintenance | ANSI B16.9, ANSI B16.28, DIN2605, JIS, GOST, SMS, 3A, | | * Hangjiagang Zhongtai Machinery Co., Ltd. |
| 11.43 | Heavy Duty Plano Milling Machine (using AC Variable Drive) | 10-30 | High machining capacity, easy maintenance, user friendly, | ISO:1708:1989 2.CE | | * Sagar Engineering Works * Simplex Engineering Works |
| 11.44 | Heavy Duty Multi-coil Electromagnetic Rectangular Chuck (with Variable Control Unit) | 10-30 | It generates low heat and economical for power consumption | | | * UPTECH Engineering |
| 11.45 | NC Hydraulic Shearing Machine | 30-40 | Better Cutting accuracy in thin sheets at lower rake angle, Higher cutting capacity at max. rake angle | Ultrasonically tested IS 2062 welded steel plates structure, HCHCr blades suitable to MS and SS | | * Newgen Machineries Ltd. * Energy Mission Engineers |
| 11.46 | NC Flame Cutting Machine | 50-60 | The build-in system has automatic cutting compensation function | PED, NPT, ISO 9001, ISO 14001, CCE | | * Jiangsu BODA NC Complete Equipment Co., Ltd. * Wuxi Pyramid General Machinery Co., Ltd |
| 11.47 | CNC Spring Making Machine | 10-15 | Standard spring shapes are pre-programmed in computer CPU for easy setup. | | | * Wiston Tech Industrial Corporation |
| 11.48 | CNC Wire Bending Machine | 30-60 | Minimum set up time on repeat orders, faster operations | | | * Automated Industrial Machinery, Inc |
| 11.49 | Plano Miller with 3 Cutting Head | 20-30 | Increased Productivity, low break down rates | | | * Simplex Engg. Works |
| 11.50 | Electro Permanent Magnetic - Plate Handling System | 90-95 | No battery backup required, magnetic power remains constant & will not release the lifted load even if power fails, no maintenance | | | * East Coast Magnets Pvt. Ltd. |
| 11.51 | Electro Permanent Magnetic - Telescopic Spreader Beam | 90-95 | System length can be adjusted based on plate length being handled | | | * East Coast Magnets Pvt. Ltd. |
| 11.52 | Electro Permanent Magnetic - Tilting Plate Handling | 90-95 | Self tilting mechanism, spreader beam fitted with elastic suspension, radio remote control integrated | | | * East Coast Magnets Pvt. Ltd. |
| 11.53 | Electro Permanent Magnetic - Billet Handling Machine | 90-95 | Used for storing / unloading / handling of billet, handling of Billets upto 600 degC | | | * East Coast Magnets Pvt. Ltd. |
| 11.54 | Modular Electro Permanent Magnets | 90-95 | Magnets safety factor of 3, multiple modules can be added to handle longer plates, can be used as robotic grip | | | * East Coast Magnets Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|-----------------------------|------------------------------|--------------------------------|
| 11.55 | Battery Operated Electro Permanent Magnetic Lifter | 90-95 | No battery power required for magnets to be on, radio remote control, comfortable for operators even at odd site conditions | | | * East Coast Magnets Pvt. Ltd. |
| 11.56 | Heavy Duty EPM Systems for Rail Machining | 90-95 | High clamping force, accurate & uniform clamping, perfect alignment to the rail, absence of machine vibration | | | * East Coast Magnets Pvt. Ltd. |
| 11.57 | EPM Modules for Fast Mould Clamping | 90-95 | Fail proof holding system for mould during power failure, helps to change mould very fast | | | * East Coast Magnets Pvt. Ltd. |
| 11.58 | Electro Permanent Magnetic Chucks (MAGNASLOT) | 90-95 | Universal clamping directly on magnetic chuck | | | * East Coast Magnets Pvt. Ltd. |
| 11.59 | CMM Machine (Coordinate Measuring Machine) | 30-50 | High Motion stability, high accuracy and affordability, point to point measurement etc. | Series 191-Standard CNC CMM | | * Mitutoyo South Asia Pvt. |
| 11.60 | High Speed Circular Sawing Machine | 20-25 | Latest state-of-the-art technology to over come quality and technology limitations, good surface finish and face squareness do not require facing operations | | | * Axies industries |
| 11.61 | 23 & 4 Hole drilling SPM | 30 | High operational efficiency, high production rate, high downtime of engine | ANSI B11.8 | | * Axies industries |
| 11.62 | 15 Hole drilling SPM | 70 | High operational efficiency, high production rate, high downtime of engine | | | * Axies industries |
| 11.63 | 4 Way U drilling & fine boring SPM | 10 | Higher productivity, better accuracy and substantially | | | * Axies industries |
| 11.64 | Multi spindle drilling head SPM | 20-25 | It can double or triple our drilling / tapping / reaming operations by simultaneously drilling countersinking, reaming or tapping two or more holes in one operation | | | * Axies industries |
| 11.65 | Three pillar type drilling SPM | 30-40 | High Speed operation | | | * Axies industries |
| 11.66 | 2Way fine boring SPM | 79 | High productivity and low maintenance cost | | | * Axies industries |
| 11.67 | CNC Rotary Draw tube bender | 60-65 | PC Base control system, graphic interface, quick conversion and easy operation.Quickly repairable.The sound effects and speakers of the machine give it with voice alarm and reminding functions. | | | * Han jie machinery co. ltd |
| 11.68 | Electronic Servo | 20-30 | High voltage and low voltagecut off signal will be provided to trip your existing CB, Digital oil temperature display, high accuract of output voltage | EN 50178, IEC/EN 61800-3 | | * Sai Electricals |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|----------------|------------------------------|---|
| 11.69 | CNC Straightening and cutting machine | 45-60 | "Equivalent to two double-pipe cutting machines,two driving sources, high producing efficiency. feeding by belt , the cut length is no limitation" | | | * Zhongshan OMS Industrial Co., Ltd. |
| 11.70 | Single Axis NC Tube bender with linear and rotary indexing arrangement | 30-60 | Can produce parts with multiple bends in single plane (NCX model) and in multiple planes (NCXR model),Programmable DOB in automatic open loop trol, Electropneumatics' MicroPLC with 3" touch screen MMI | | | * Electropneumatics & Hydraulics Pvt. Ltd |
| 11.71 | Marine engine | 20-30 | High reliability and durability | | | * Cummins Inc |
| 11.72 | Corner cleaning machine equipped with PLC control | 15-20 | Automatic profile recognition system,Automatic window centralization and clamping before operation, Quick and easy replacement | | | * Elumatech |
| 11.73 | Automatic end milling machine | 20-25 | Automatic feed of milling unit,Adjustable fence can be swivelled to the left and right up to 60° for angled milling,Adaptable vertical pneumatic clamping | | | * Elumatech |
| 11.74 | Two Glazing Bead Saw with automatic control | 15-25 | Two glazing beads can be cut at the same time quickly and efficiently, Automatic operation with adjustable saw speed | | | * Elumatech |
| 11.75 | High Alumina Brick Refractories | 30-50 | High porosity, low volume density, good heat insulation | | | * Raasi Refractories Ltd. |
| 11.76 | Servo driven Spring Coiling Lathe Machine | 20-30 | "Accurate pitch control, Programmable initial tension, Programmable squareness of ends, Excellent repeatability" | | | * Bennett Mahler Ltd |
| 11.77 | Cold Heading Machine | 40-45 | High quality surface finish and close repetitive tolerances at high speed | | | * Stalcop |
| 11.78 | CNC Engraving Machine | 40-45 | L.M. guide-ways for all axes,AC Servo Drive for all axes,High Frequency air-cooled spindle | ANSI B11.7 | | * Sunita Engineering Corporation Nasik |
| 11.79 | Pick and Place Machine | 45-50 | High speed, high precision placing of broad range of electronic components | ISO 9001:2008 | | * Juki India Private Limited |
| 11.80 | NC Cutter and Rotary | 30-40 | High precision slitting, easier operation, higher efficiency and reduced down-time for change-over. | | | * Dongguang Sansheng Machinery Co. Ltd. |
| 11.81 | Radial CNC Multi Spindle Drilling Machine | 25-35 | Greater precision and reliability | | | * Fanuc Corporation Ltd. * REDEMA |
| 11.82 | Electrically heated Nitriding Furnace | 30-40 | Nitriding quickly,Low brittleness,Stable performance,Easy operation | | | * Foshan Jutong Industrial Furnace Co., Ltd |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|--|------------------------------|---|
| 11.83 | CAM Machine | 45-60 | Enables very high accuracy levels in large- scale production. Usually speeds up production of low- volume products. Reduction in energy consumption to produce a particular product | | | * D.H.Panchal & Co |
| 11.84 | Travelling head clicking machine | 15-20 | Quality improvement, higher productivity with high precision. Less consumption of energy. Minimum intervention of manpower. Better utilisation of raw material with less wastage | Atom complete with standard accessories with scheduled cut counting device, model SP 588/3-EX, Tons : 25 | | * Harman Sales Pvt. Ltd. |
| 11.85 | Aluminium Profiling Extrusion Machines (Hydraulic using Variable Pumps with PLC Controlled) | 10-30 | Simple operation, safe and convenient service to check of mechanization and automation, reduction in labour required, increased productivity | | | * Shandong Xinghe Import & Export Co. Ltd |
| 11.86 | Single Spindle Verticle Honing Machine with VFD control | 15-30 | Equipped with energy efficient motor and other electrical items, VFD to control Spindle rpm, Simple and eazy to operate, Time saving process | | | * Creative Engineering, Mechatron Machines & Auto Parts |
| 11.87 | Slant Bed CNC Lathe | 45-60 | Maximum stability and convenient chips disposal, High torque output at low speed, Programmable tailstock for convenient operation, Fast tool change, high positioning accuracy | | | * Ace Designers Limited, Proking Machinery Co. Ltd., Tsunglin Machinery Technical Co.,Ltd |
| 11.88 | Panel Cutter machine (PLC controlled) | 15-20 | Energy Efficient operation due to the PLC Control System, High-tech error diagnosis by true photos & video clips for imidiate identification of source of the problems. | | | * HOMAG India Pvt. Ltd |
| 11.89 | CNC machining centre with Inverter controlled | 45-60 | Possible to lock the elements to be processed, optimising machining operations for each cycle and reducting overall productions times, Quick coupling system guarantees fast, Simple replacement of vacuum modules with clamps. | | | * Biesse Manufacturing Co.Pvt. Ltd |
| 11.90 | Laser Cutting machine | 10-30 | High Cutting speed & minimal downtime, Low and easy maintenance, simple to operarate. | ASTM A-36 to ASTM T-1 type B | | * TRUMPF (India) Pvt. Ltd. * Mitsubishi Electric Corp. |
| 11.91 | Cylindrical Grinding Machine (with Inverter control) | 30-40 | Automatic swivel by servo motor, Hydrodynamic lubrication system, Safety Wheel Guards design, Variable wheel spindle speed controlled by default program, ensure constant peripheral speed of grinding wheel | ISO 2407:1997 | | * AMC-SCHOU AS |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------|------------------------------|--|
| 11.92 | CNC Tool and Cutter Grinder | 45-60 | Digital servo drive system, Machine is based on the Intel core 2 duo processor. Automatic Wheel changer, Automatic oil lubrication system | | | * ANCA Machine Tools Private Ltd |
| 11.93 | CNC Column Moving Horizontal Machining Centre | 45-60 | High-performance large-sized Horizontal Machining Center, Heavy-duty machining realized by box-type guideway, Minimized thermal deformation of ball-screw nut | | | * Techtronics (India) Limited |
| 11.94 | Automatic end cutter | 20-30 | High cutting speed and counterblade conveyor to make quick and perfect trimmings, equipped with a suitable device for sharpening the blade | | | * COLLI FGB S.R.L. |
| 11.95 | Intermix (with water cooled rotors) | 10-15 | Eliminate compressed air requirements reducing operating costs and providing energy savings, eliminates variations in ram pressure, providing uniform and consistent process conditions | | | * Alfred Herbert Limited |
| 11.96 | Hydraulic Cone Crusher | 10-15 | Multi-split control system for hydraulic lubrication, More stable operation, High efficiency & production capacity | | | * Voltas Limited |
| 11.97 | 5 axis CNC Tool and Cutter Grinding Machine | 45-60 | Rigid and precision work spindle with through bore Adequate supply of coolant directed to the cutting zone User friendly operating software with ready-made menus for commonly manufactured standard and special tools | | | * Kennametal India Ltd. |
| 11.98 | Flat Bed CNC Chucker | 45-60 | Automatic centralized lubrication, Built in coolant & lighting system, High Rapid rates | | | * Ace Designers Limited |
| 11.99 | Vertical Sliding Head Machine | 45-60 | Energy efficient operation, Precise cutting, Automatic lubrication system, Circulating cooling system, Longer blade life, Electronic Saw blade protection, Convenient cleaning and maintenance | | | * SOCO Machinery Co., Ltd., Ajax Machine Tools International Ltd, Citizen Machinery UK Ltd |
| 11.100 | Turn Auto Loading and Unloading CNC Machine | 30-35 | Higher productivity, Variable frequency drive, High speed machining | MIL-STD-45208A | | * MTAB Engineers Pvt Ltd, Marshall Machines (P) Ltd. |
| 11.101 | Impregnating Plant with VFD controls | 15-35 | Energy efficient operation of machines, Extended equipment life, Reduced maintenance, Reduced peak demand, Safety against power fluctuations | | | * Genest Engineers, AR Engineering |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|----------------|------------------------------|--|
| 11.102 | Automatic Vacuum Press | 25-35 | Energy efficient operation due to PLC Control system, Large vacuum power , High production, Various absorbing functions. | | | * Vacuum Pressing Systems, Inc., HR-MEZE Machinery Co. Ltd. |
| 11.103 | Full Automatic Polishing Machine (with Frequency Converter) | 23 | High production efficiency, Good products quality and low processing cost | | | * Chirag International, Focus Machines India Pvt. Ltd. |
| 11.104 | Pilger Machine | 15-20 | Efficient operation, Improved productivity, Pressurized mandrel lubricating system, Robust & reliable PLC circuit. | | | * Shanghai Panzhihua Machinery Plant, Technofin International Pvt. Ltd |
| 11.105 | Hydraulic Puller (with electronically controlled and brake hydraulic dynamometer) | 20-30 | Less energy consuming operation, Negative self-acting hydraulic brake, Hydraulic dynamometer, Hydraulic cooling system, Built-in self-loading reel winder | | | * Condux Tesmec, Inc., TESMEC S.p.A. |
| 11.106 | Conveyor System | 10-15 | Reliable quality, High performance price ratio, Compact structure, Small cross section, Light weight, Good seal performance, High transport efficiency, Flexible technological arrangement, Easy to install, Safe operation | | | * Focus Machines India Pvt. Ltd. |
| 11.107 | Polishing Machine | 30 | Energy efficient operation, Independent motor controlled electronically with speed variator. | | | * Focus Machines India Pvt. Ltd. |
| 11.108 | Hydraulic Deep Draw Press with Die Cusion complete with Hydraulic power pack (With PLC control) | 25-30 | Easy to operate & maintain, High productivity | | | * Power Hydraulics, Flowmech Engineers Pvt Ltd, Hydromech Automation Pvt. Ltd. |
| 11.109 | Seam Welding Machine (with Microprocessor based weld control) | 15-30 | Latest microprocessor controls, High production, Low maintenance, Improved efficiency | | | * Dahching Electric Industrial Co., Ltd., Kriton Weld Equipments Pvt. Ltd. |
| 11.110 | 5 Axes Universal Milling Machine | 25 | High flexibility, Direct measuring systems, Powerful motor spindle, Maximum precision, Higher efficiency, Space economy | | | * DMG Mori Seiki India Machines and Services Pvt. Ltd. |
| 11.111 | Multi-wire Cutting Machine with Automatic control using PC | 80-85 | High production level, low production cost, saving of material by 3, compact design and environment friendly | | | * Krishna Engineers * BTI Machine Tools * Sathyadeep Engineering Company Limited |
| 11.112 | Ultrasonic Cleaning Machine | 50-60 | Ease of Operation and Environmental Protection | | | * Trans-O-Sonic * R.K. Transonic Engineers Pvt. Ltd. * Waveultrasonics |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---|------------------------------|--|
| 11.113 | Fiber Laser Marking System | 5-10 | Long and Trouble free Operation, high quality and asthetic look | CE Certificate | | * Laser Lab India Pvt. Ltd. * Shenzhen HeroLaser Equipment Co., Ltd * Yugma Impressions |
| 11.114 | Gapframe Mechanical Press with PLC Control | 25-30 | Superior reliability and consistency, increased performance | | | * Production Resources Incorporated * ISGEC Heavy Engineering Ltd. * J. Hasmukhray & Co., Ltd. |
| 11.115 | Continuous Hardening and Tempering Line Furnace | 10-20 | Easy operation and provision for data logging | | | * Allied Consulting Engineers Pvt. Ltd. * Vibrant Thermal Engineering * Autotherm Equipments |
| 11.116 | Tube Straightening & Cutting Machine equipped with PLC | 10-20 | Easy and quick mounting of the tubes | | | * Ashapura Industries * T A Engineers Corp. (I) * Dhanlaxmi Industries |
| 11.117 | Serpentine Bending Machine equipped with PLC | 25-30 | Userfriendly, versatile | | | * Top Tech Automation * Shamam Engineering Industries |
| 11.118 | Wire Flattering Mill | 25 | Reduced energy consumption; variable speed drive; PLC based control system | | | * Assomac Machines Ltd. * Coptech Engineering |
| 11.119 | Mechanical Press with PLC and VFD control | | Automatic oil forced lubrication system, dynamic balancing system, reduced noise | | | * Yadon Press/Yangzhou Metalforming Machine Tool Co., Ltd |
| 11.120 | Electric Overhead Travelling Crane with VFD | | Noise Free, Overload tripping facility, Lightweight | Speed: Main Hosting/ Cross Travel/ Long Travel with VFD drive | | * Narendra Press Tech Private Limited |
| 11.121 | TIG welding machine (using thyristorised control) | | Forced Air Cooling fan, Stepless current control | | | * Electra Welding and Cutting Equipments |
| 11.122 | PLC based Fully Automatic Sawing Machine | | Helical Geared Motor, Cycle Sequencing through PLC, Automatic machine Off in case of Blade Breakage | | | * Indotech Industries (I) Pvt. Ltd |
| 11.123 | PLC based Vertical Boring Mill | | High precision ballscrews, All axis driven by servo motors, Smooth, vibration-free turning | | | * Bharat Auto Machine Tools |
| 11.124 | CNC Surface Grinder Machine | | Hydraulic Tailstock, Live spindle workhead with NC shift function | | | * JTEKT Corporation |
| 12 | Food Processing | | | | | |
| 12.1 | Improved Oven with Heat Recovery Equipment (Puffed Rice) | 15-45 | Improve in quality, reduce breakage, reduce pollution | | CLCSS | * Hangzhou 3King Air-Conditioning Equipment Co., Ltd. |
| 12.2 | Oil Fired Oven; Biomass Fueled Multipurpose Drier; Energy Efficient Wood Fired Low Cost Bakery Oven (Bakery Products Manufacturing) | 30-50 | Less wood consumption, improve in working environment | | CLCSS | * Sahora Impex India Private Limited |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------|------------------------------|--|
| 12.3 | Energy Efficient Boiler with Heat Recovery (Cashew Processing) | 20-30 | Reduce equipment size, reduce auxiliary energy consumption, reduce pollution | IS 14492:1997 | | * Thermax Ltd. |
| 12.4 | Energy Efficient Boiler with Heat Recovery (Parboiled Rice Mill) | 20-30 | Reduce equipment size, reduce auxiliary energy consumption, reduce pollution | IS 14492:1997 | | * Thermax Ltd. |
| 12.5 | Biomass Gasifier Based Furnace (Namkeen Making) | 35-60 | Utilize clean energy | | CLCSS | * Ankur Scientific Energy Technology Pvt Ltd. * Radhe Renewable Energy Development Pvt Ltd. |
| 12.6 | Automatic Fruits and Bottles Washing Machine with Conveyor, Blower, Pump and Agitator, Fruits and Vegetable Cutting Machine, Stainless Steel Double Walled Steam Jacketed Kettles, Boiler, Pulper | 15-40 | Improve product quality, better working environment, improve productivity | | CLCSS | * Jas Enterprises * SSP Pvt Limited |
| 12.7 | Spice Grinding (Cryogenic Grinding, Automatic FFS Packaging) | 20-30 | Improve product quality, increase in production by 2 / 3 times, improve product shelf life | | CLCSS | * Natraj Flexible Packaging Industry |
| 12.8 | Replacing Semi-mechanisation to Mechanisation Bakery Process, Replacement of Coal / Wood Fired Oven to Oil Fired / Electric Oven, Biomass Fired Multipurpose Drier, Energy Efficient Low Cost Bakery Oven (Wood Fired) Installation of Quailt | 25-40 | Improve productivity & quality, require less manpower | | CLCSS | * Pritul Machines * Sarlech Electro Systems |
| 12.9 | Cashew Processing (Boiler, Heat Exchanger with Complete Accessories, Packaging Machine, etc.) | 15-30 | Improve productivity & quality, require less manpower | | CLCSS | * Accurate Engineering Industries * VARAJ Engineering |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--------------------------------|------------------------------|--|
| 12.10 | Rice Milling with Rubber Roller Sum Sheller (Without Parboiling) and Modern Rice Milling with Parboiling (Paddy Cleaner, Destoner, Rubber Roller Cum Sheller, Paddy Separator, Boiler, Par-boiling System, Dryer, Colour Sorter, Cone Polisher, Quality Control) | 10-30 | Improve product quality | | CLCSS | * Satake Corporation * Perfect Equipments |
| 12.11 | Fryer Machine with Conveyor Belt & Bucket Elevator (Namkeen) | 20-25 | Precise process control, easy to operate, improve product quality | | | * Dynamech Engineers * Economode Food Equipment Pvt Ltd |
| 12.12 | Palates - Kukure Line Machine with Packing Unit | 20-25 | Improved productivity and quality | | | * Economode Food Equipment Pvt Ltd |
| 12.13 | Packing Machine - Bag Maker & Weigher | 10-15 | Improve productivity & quality, high precision, improve product shelf life | IEC 6113 | | * Akash Pack tech (P) Ltd. * Global K Associates |
| 12.14 | Namkeen Mixing Machine | 30-40 | Uniform mixing, Easy to operate | | | * Economode Food Equipment Pvt Ltd |
| 12.15 | Oil Fired Rotary Rack Oven | 15-30 | Uniform baking, improve quality through proper air distribution, | | | * HCS Enterprises * Naik Oven Manufauring Co. |
| 12.16 | Prover | 35 | Separate system for heating & humidity, durable & reliable | IEC# 118650 | | * CS Aerotherm Pvt. Ltd. * Ningbo Sybo Machinery Co. |
| 12.17 | Spiral Mixer | 5-10 | Improve quality through homogeneous mixture | IEC# 117769 | | * Himalyan Equipment Manufacturing Co. |
| 12.18 | Automatic Rinsing, Filling & Capping Machine for PET Bottles | 10-15 | Improve productivity & quantity, easy to operate & control | IEC 380/400 B + N + PE / 50 Hz | | * Meena Engineering Works * Pioneer Water Solutions |
| 12.19 | Automatic Rinsing, Filling & Capping Machine for Glass bottles | 10-15 | Improve productivity & quantity, easy to operate & control | | | * Meena Engineering Works * Pioneer Water Solutions |
| 12.20 | Shrink Sleeve Inserting Machine | 10-15 | Improve productivity & quantity, easy to operate & control | | | * Bullion Flexipack Pvt Ltd |
| 12.21 | Dough Sheeter | 10-30 | Variable speed machine, chromium plated rolling cylinder regulates to press and roll thin or thick dough perfectly, scraper can easily removed to clean | | | * Artisan Engineering Works * CS Aerotherm Pvt. Ltd. |
| 12.22 | Rotary Rack Oven | 30-40 | Illuminating elements outside main heating chamber with off facility | IEC# 117995 | | * Artisan Engineering Works * CS Aerotherm Pvt. Ltd. * Pritul Machines |
| 12.23 | Deck Oven | 25-30 | Special burner, improved compartment design | ASTM F1965, IEC# 118652 | | * Artisan Engineering Works * CS Aerotherm Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|-----------------------------|------------------------------|--|
| 12.24 | Planetary Mixer | 30-40 | Performs efficient mixing, interlocked safety guard, emergency stop, motor cooling system to ensure safe & smooth function | IEC117575 , DIN EN 454:2010 | | * Artisan Engineering Works * CS Aerotherm Pvt. Ltd. |
| 12.25 | Cookie Drop | 25-30 | Adjustable speed & time of depositing roller, adjustable speed of nozzle rotation | | | * CS Aerotherm Pvt. Ltd. * Goodlife Technologies Pvt. Ltd |
| 12.26 | Air Dryer – Refrigerated Air Compressor Type | 40 | Provides pressure dewpoint down to 4°C, display to read dewpoint / operating status / fault indication | | | * Delair India Pvt. Ltd. |
| 12.27 | Cashew Peeling Machine with Screw Compressor | 25-40 | Increase temperature automatically in short time span, continuously duty cycle, maintenance & clearing easily | | | * Viet Mold Machine Production Trading Services Co Ltd. * Vinayaka Engineering Works |
| 12.28 | Biomass Gasifier Based Furnace | 35-60 | Utilize clean energy, reduce CO2 emission | CLCSS | | * Ankur Scientific Energy Technology Pvt Ltd. * Radhe Renewable Energy Development Pvt Ltd. |
| 12.29 | Carbon Molecular Sieve for Nitrogen Generation | 10-15 | Improve quality, longer life, low maintenance | | | * MVS House * Oxygengenerator |
| 12.30 | Heat Recovery System for Aircondenser | 20-30 | Improve working environment | | | |
| 12.31 | Improved Oil Burners (Biscuit Plant) | 5-10 | Complete combustion, improve working environment, improve productivity | | | * Aerotherm systems * Wesman India |
| 12.32 | High Efficiency Fan at Wheat Godown | 10-15 | improve mechanical driving system life, lower noise, longer fan life | IEC 60335-2-40 | | * Roots Enviro Systems (P) Ltd * Vaccunair Engineering Co Pvt Ltd. |
| 12.33 | CNC based Dispensing Machine | 30-35 | Suitable for high capacity location | IEC 60335-2-75 | | * Balaji Udyog |
| 12.34 | Mesh Kettle with Dimple Jacket | 60-75 | Large heating surface area, High thermal efficiency, Uniform heating, Easy controlling heating temperature | | | * Food & Biotech Engineers (I) Pvt. Ltd. * Fushun Lusheng Machine Co., Ltd, * Shanghai Beyond Machinery Co., Ltd. |
| 12.35 | Double Stage Spary Drying Plant with Agglomeration System | 10-15 | Production of instant powder, Flexibility in controlling powder quality negligible - deposition of powder in chamber, Less downtime for maintenance | | | * SSP Pvt Ltd. |
| 12.36 | Automatic Paddy Husker | 30-40 | Closed-circuit aspirator, Increased rubber roll life, Pneumatic control system, Higher husking ratio, Quick and easy roll replacement system | | | * Satake International Co. Ltd. * Marco Technology Corporation * SHIWANI ENTERPRISES * ZHUJI RICE MACHINERY CO., LTD. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|----------------|------------------------------|---|
| 12.37 | Paddy Separator (Oscillating type) | 40-50 | Higher capacity, reduced brokens, 30 increase in rubber roll life, automatic operation | | | * Satake International Co. Ltd. |
| 12.38 | Vertical Rice whitener | | Higher Milling Yield and Fewer Brokens, Minimum Residue Bran Inside Machine, Compact Design & Longer Life of Parts | | | * Satake International Co. Ltd. |
| 12.39 | Cone filling machines (with VFD controls) | 20-35 | Easy to operate and adjustable filling volume, Cip cleaning simple piston and cylinder design, Online Volume settings | | | * IDMC Limited, Shreya Engineering Works |
| 12.40 | Microprocessor controlled cold room for storing ice cream | 15-30 | Microprocessor controlled temperature ranges, 24 hour temperature recording/ monitoring, Automatic defrost control | | | * Rinac India Ltd |
| 12.41 | Stripper Unit (with VFD controls) | 15-25 | Energy efficient operation with Higher productivity & accuracy | | | * New Era Machines Pvt. Ltd. |
| 12.42 | Two Tire Cooling Conveyor (with VFD controls) | 10-15 | Variable speed control, Reliable quality, High transport efficiency, Easy to operate | | | * Mechtech Designers & Engineers Pvt. Ltd., Sun Beam Machines India Pvt Ltd. |
| 12.43 | Magnetic / Moulding Rotary Stackers (with VFD Controls) | 15-30 | Low specific power consumption due to VFD, Eazy to operate, Higher production rate | | | * A. V. Engineering Works, Aifso Enterprises |
| 12.44 | Conveyor Packing Table for Post Baking (with VFD controls) | 10-15 | Energy efficient operation, Improved productivity, Higher accuracy | | | * Prima Engineering Industries, Mechtech Designers & Engineers Pvt. Ltd. |
| 12.45 | Tetra Pak Milk Pasteurisation (temperature control with PLC) | 80-85 | Safe production, No pressure dip during separator discharge, maintains the differential pressure all through the production, Hibernation function, Reduced product loss | | | * Tetrapak India Pvt. Ltd. |
| 12.46 | Tetra Pak Milk Homoginiser (with serial cooling system) | 25-30 | Reduced maintenance costs and energy consumption improved working through safe design, reduced noise levels and easy access for service and daily maintenance. | | | * Tetrapak India Pvt. Ltd. |
| 12.47 | Optical Full Colour Sorter | 10-30 | Improved Product Quality | | CLCSS | * Govind Mill Stores * Salasar Agrotech Private Limited * Spectrum Industries |
| 12.48 | Optical Full Colour Sorter | 10-30 | Improved Product Quality | | CLCSS | * Govind Mill Stores * Salasar Agrotech Private Limited * Spectrum Industries |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|---|------------------------------|---|
| 12.49 | Automatic Volumetric Liquid Filling Machine with VFD | 15-30 | Rigid vibration free construction, Reciprocating filling nozzle with self centering device to avoid foaming | | | * Sehgal Industrial Works * Flexicon Liquid Filling * V. Tech Pharma Machinery |
| 12.50 | Semi Automatic Screw Capping Machine | 10-20 | Easy operation and maintenance, no cross contamination, reduce process validation cost | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.51 | Semi Automatic Ropp Cap Sealing Machine | 15-20 | Low noise and Accurate functioning, Highly durable, long lasting & cost effective in nature | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.52 | Automatic Single Head Screw Capping Machine | 15-30 | Unique design for lower output screw capping, Low noise level, low power consumption | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.53 | Automatic Single Head Ropp Cap Sealing Machine with Ac drive | 15-30 | Ideal for continuous heavy duty operation, High Efficiency, low electricity consumption | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.54 | Automatic Multi Head Screw Capping Machine | 15-30 | Low noise level, low power consumption, Universal coupling for quick and easy setting of In-feed worm | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.55 | Automatic Ropp Cap Sealing Machine | 15-30 | Longer working life, trouble-free operation and low maintenance cost | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.56 | Automatic Measuring/ Dosing Cup Placement & Pressing Machine with AC drive | 15-30 | Less maintenance cost, reliable performance, easy operation | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.57 | Automatic Filling- Plugging Capping Machine with PLC Control | 10-25 | Fully automatic filling, plugging & capping operations, Very compact and user friendly design | | | * Harshika Industries * Flexicon Liquid Filling * Apple Pack Equipments |
| 12.58 | Double Chute Wrapping Machine | 20-30 | AC Frequency drive, Digital temperature controller | | | * Alif Ovens |
| 12.59 | Automatic Horizontal Flow Wrap Biscuit Packing Machines | 20-35 | Servo/PLC control, high production, easy to operate, low maintenance cost, reduced energy consumption | | | * Shree Ancillary Industries * Akash Packtech Private Limited * Elegant Engineers |
| 12.60 | Automatic Ampoule Filling & Sealing Machine | 30 | | | | * Adinath International |
| 12.61 | Shell and Tube Heat Exchanger based Whipped Cream Processing Plant (replacing jacket heating) | | Lower steam consumption, faster cooling, better turn-down ratio | Process plant with shell and tube type Heat Exchanger for steam heating, Plate Heat Exchanger for liquid cooling and high efficiency chillers | | * Repute Engineers Pvt. Ltd. |
| 12.62 | Fryum Snack Extruder Machine | | Water Cooled Barrels and Main shaft. Continuous cooking food extruder with auto feeding and cutting attachment | Includes cooking machine, former and dryer. Automatic temperature control dryer | | * G L Enterprises |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|--|-----------------------------|--|-----------------------|------------------------------|--|
| 12.63 | Butter packing machines with PLC and VFD | | | | | * FASA - Dairy Packaging Machinery |
| 12.64 | Hot water generator | | | | | * Ross Boilers |
| 12.65 | CO ₂ Screw Packaged Chilling Unit | | | | | |
| 13 | Brick | | | | | |
| 13.1 | Vertical Shaft Brick Kiln | 50 | uniform temperature, occupy less space, less drying time, less pollution | | CLCSS | * Damle Clay Structural (P) Ltd. |
| 13.2 | Concrete Block Making Machine with PLC | 15-20 | Automatic mould change, Continuous level control for silos, Oil temperature control, Frequency controlled vibrators, PLC-control, Online support, Hydraulic system with proportional valve control | | | * Masa Concrete Plants India Pvt. Ltd. |
| 14 | Auto Components | | | | | |
| 14.1 | Falling Film Evaporator (Re-refining of Lubricating Oil) | 5-10 | High heat transfer rate, lower liquid circulation rates (smaller pump), suitable at low temperature difference | CE & FDA Certified | | * Dalal Engineering Private Limited * Raj Process Equipments and Systems Private Limited |
| 14.2 | Wiped Film Evaporator (Re-refining of Lubricating Oil) | 5-10 | Evaporation at low temperature, short residence time, self cleaning or wiping of heat transfer surface, suitable for viscous liquid | | | * Dalal Engineering Private Limited * Raj Process Equipments and Systems Private Limited |
| 14.3 | Fine Grinding (CBN Surface Grinding Machine) | 10-30 | Better surface finish, less material loss | ANSI B11.9 | | * Abrasive Technology * Asia Machines * Khan Machines |
| 14.4 | Gas Fired / Oil Crucible Melting Furnace | 5-30 | Superior fuel efficiency, precise temperature control, central axis tilting or lip axis hydraulic tilting type furnace are excellent for melting & pouring directly into molds | | | * Electrol * Meta Therm Furnace Pvt. Ltd. |
| 14.5 | CNC Wire Cut | 30-60 | Good surface finish, high performance in machining | IS 5574, B107.37:2003 | | * Mitsubishi EDM/Laser Product * Mitsubishi Electric Corp. * Sanki Machine Tools India Pvt. Limited * Savita Machine Tools Pvt. Limited |
| 14.6 | CNC Milling | 30-60 | Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality | ANSI/ASME B5.54 | | * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 14.7 | CNC Lathe | 30-60 | Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality | ANSI/ASME B5.55 | | * Yamazen (Thailand) Co. Ltd. * Khan Machines * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|---------------------------|------------------------------|---|
| 14.8 | Gas Based Generator set | 10 | environmental-friendly, economical, high efficient, low emission, low noise and etc., energy saving potential assessed based on energy cost | | | * DSR Power Systems * Reddy Generators |
| 14.9 | Computerized Automatic Electroplating / Zinc Plants | 10 | Help to provide coating on various metals like zinc, nickel, silver, gold, etc., reduce labour cost, improve quality, reduce environment pollution | Design as per requirement | | * Metal Colours Limited * Nirankari Electro Platers * Rama Machinery Manufacturing Industries |
| 14.10 | Heavy Duty Horizontal Machining Center | 30-60 | Higher productivity, consistency in quality, excellent finish | | | * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 14.11 | CNC Hydraulic Press Brake | 30-60 | Improve quality, accuracy & productivity | ANSI B11.17 | | * NuGen Machineries Ltd. * Machine Tool Manufacture Co. Ltd. |
| 14.12 | Automatic Electrostatic Powder Coating Machine | 10-15 | Uniform & deep power penetration, higher transfer efficiency, quality finish | BS EN 1953:1999 | | * Gallant Equipment Pvt. Ltd. |
| 14.13 | CNC Milling Machine – Vertical Machining Centre | 30-60 | Higher productivity, consistency in quality, low maintenance | | | * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd. |
| 14.14 | PVD (Multi-arc Ion) Coating Machine | 10-15 | Low running cost, higher productivity, less pollution | | | * Huicheng Vacuum Technology Co. Ltd. * Sanovac Technology Limited |
| 14.15 | CNC 3 Axes Hobbing Machine | 25-35 | Dry cutting without using coolant, improve quality, improve productivity | DIN ISO 6545 | | * Nachi-Fujikoshi |
| 14.16 | Sealed Quench Furnace (use of Thyristor Power Controller and PLC) | 15-25 | Prevent oxide formation as treatment is in protective atmosphere, automatic operation of treatment / transfer, quick change-over, require less space | EN ISO 9001 | | * J.R. Furnace & Ovens (P) Ltd. * Uma Shankar Engineers * WESMAN GROUP |
| 14.17 | Paint Shop with Waste Heat Recovery System | 25 | Utilise waste heat, reduce pollution, reduce equipment size, reduction auxiliary energy consumption | Design as per requirement | | * Transparent Energy Systems Private Limited * WESMAN GROUP |
| 14.18 | CNC Hydraulic Guillotine Shearing Press | 25-30 | Cutting angle automatically adjusted to sheet thickness, programmable by CYBELEC control unit, versatile machine | | | * Singhal Power Presses Pvt. Ltd. * Lamba Press and Shears * Emtex Machinery Private Limited |
| 14.19 | CNC Turret Punch Press | 25-30 | Higher productivity, produce variety of components without re-tooling, suitable for regular & repetitive job | ISO. CE | | * Trustwell Industries |
| 14.20 | Heavy Duty Injection Pump Test Bench (with Variable Frequency Drive) | 15-25 | Variable speed drive, expandable compound pulley system, dual belt fitting, auto align | | | * Bosch Limited * Maneklal and Sons (Exports) |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|--|-----------------------------|--|---|------------------------------|---|
| 14.21 | Continuous Gas Carburising Furnace with Endogas Generator | 25-30 | PLC automatic system with Hmi & computer controlled | EN ISO 2639 | | * Thermotech Engineering Company * Vibrant Thermal Engineering |
| 14.22 | Electronic Spring Coiling Machines | 10-15 | High production output, Strict quality controls, state-of-the-art production systems, High availability and Precession | UNE-EN-ISO 8750, NASM10971, NASM51923, NAS1407, ASME B18.8.2, ASME B18.8.3M | | * Bajwa Industries |
| 14.23 | CNC Gear shaving machine | 50-55 | Continuous and efficient operations | | | * OSHO Machines |
| 14.24 | Medium Frequency End-bar Heater | 5-15 | In built Heat retain system, Digital counter for production, Variable speed, automatic belt driven scanner for forging | | | * Akal Induction Pvt. Ltd |
| 15 | Castings & Forging | | | | | |
| 15.1 | Mechanical Pneumatic Clutch Operated Crank Type Billet Shearing Press (Stock Cutting) | 15 | Higher productivity, lower cutting loss, lesser wear & maintenance, reduce operating cost | ANSI B11.4, AS 4024.3002-2009 | CLCSS | * Charika Industries * Ravi Power Press * Shailesh Group of Industries |
| 15.2 | Pneumatic Double Acting Hammer (Forge shop) | 30 | Higher productivity, less maintenance cost, high forging accuracy, higher blow frequency, easy & safe operation | IEC 61158 | CLCSS | * N-Teryair Equipment Pvt. Ltd * Pioneer Intertrade * PRD Rigs |
| 15.3 | Microprocessor Based Energy Controlled, Pneumatic Clutch Operated, Screw Friction Presses (Forge Shop) | 25 | High productivity, controlled blow pattern, less manpower skill requirement | | CLCSS | * Dhiwren Hydraulics * Hari Machines Limited * NKH Hammers |
| 15.4 | Hydraulic Double Acting Hammer (Forge Shop) | 60 | Precision forging, high productivity, reduce maintenance | | CLCSS | * Anyang Forging Press Machinery Industry Co. Ltd. * Haian Baixie Forging Hammer Co. Ltd. * LASCO Umformtechnik GmbH |
| 15.5 | Multi Station Horizontal Formers (Forge Shop) | 30-40 | Precision forging to minimise post forging operation, less raw material wastage, high production rate, automation feasible | | CLCSS | * Harbin Machinery Imp. & Exp. Co., Ltd. * Shanghai Electric International Economic & Trading Co. Ltd. * Vision Screws Machinery Manufacture Co. Ltd. |
| 15.6 | Hot Shearing Automatic Forging Presses (Forge Shop) | 15-20 | Lower operation cost, require less manpower, high productivity, better control systems | AS 4024.3002 | CLCSS | * A.S. Precision Machines Pvt. Ltd. * Ravi Power Press * Santec Exim Private Limited |
| 15.7 | Reduce Rolling Machine (Forge Shop) | 20-30 | Higher productivity, require less manpower, operation at various cross sectional area & length | ASTM A193 Gr B7/ ASTM A 194 | CLCSS | * A.S. Precision Machines Pvt. Ltd. * Singhs Industries * SMT Machines (India) Limited |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|---|------------------------------|---|
| 15.8 | Gas Fired High Temperature Furnace with Automatic Temperature Controller & Recorder (Heat Treatment) | 10-15 | Reduce scale loss, facilitate automation, quality improvement | DEF STAN 02-746, BS EN 14597:2005 | CLCSS | * Dhanaprakash Industrial Corp. * ENCON THERMAL ENGINEERS (P) LTD. * Meta Therm Furnace Pvt. Ltd. |
| 15.9 | Fluidized Bed Heat Treatment Line with Controlled Atmosphere & Recuperators (Heat Treatment) | 50-75 | Flexible operation to handle small batches, controlled atmosphere minimize decarburisation, require less space, reduce scale loss | ASME B 31.3 | CLCSS | * Agnee Engineering * Fluidtherm Technology Pvt. Ltd. * Pyromaster Furnaces Pte. Ltd. |
| 15.10 | Medium Frequency Induction Heaters (Heat Treatment) | 10 | Rapid heating and quenching, less oxidation loss, improve quality, low operating cost, | IEC 62076 Ed. 1.0 b:2006, ISO TC 244, ISO/NP 13577/13578/13579, IEC 60519-1 | CLCSS | * Doshi Technologies Pvt. Ltd. * Eddymelt * Electrotherm (India) Ltd. |
| 15.11 | Natural Gas Fired Power Generating Set (Utility) | 30-70 | Eco-friendly, low power generation cost, high fuel efficiency | ISO 3046-1, VDE 0530 | CLCSS | * Cummins India Ltd. * Green Power International Pvt. Ltd. * Sudhir Gensets |
| 15.12 | CNC Turning Center (Tool Room) | 25 | Precision machining, improve quality, higher productivity | ASME B5.57, ISO 14649, EN12478 | CLCSS | * Bharat Fritz Werner Ltd. * Macpower CNC Machines Pvt. Ltd. * Proteck Machinery Pvt. Ltd. |
| 15.13 | CNC Milling Machine (Tool Room) | 25 | Precision machining, improve quality, higher productivity | BS 4656-30, ISO 14649 | CLCSS | * Bharat Fritz Werner Ltd. * Ravi Power Press * Sunita Engineering Corporation |
| 15.14 | Electro Discharge Machine (Tool Room) | 40-60 | Precision machining, improve quality, higher productivity | DIN EN 12957, JIS B 6361-2:1999 | CLCSS | * Mitsubishi Electric Corp. * Rajsen Machines Tools * Sanprem Consultants * Savita Machine Tools Pvt. Ltd. |
| 15.15 | CNC Wire Cut Machine (Tool Room) | 15-30 | Suitable to cut intricate shapes and tight radius contours, precision machining, better dimensional accuracy with high quality surface finish, improve quality | IS 5574, B107.37:2003 | CLCSS | * Mitsubishi Electric Corp. * Electronica HiTech Engineering Pvt. Ltd. * MD Corporation * Param TechnoSystem Pvt. Ltd. |
| 15.16 | Fully Automatic CNC Injection Moulding Machine (Tool Room) | 30-60 | Better tolerance & accuracy, improve repeatability, produce smooth & finished products that require no further finishing | IS 13360, EN201:2009, GOST 26689:1985 | CLCSS | * Santec Exim Private Limited * Tata Precision Industries (India) Ltd. * Windsor Machines Limited |
| 15.17 | Bell Annealing Furnace | 20-30 | Uniform temperature, improve & consistent product quality, efficient use of furnace by cooling in inner cover, require less space | JIS B 6911:1999, IS 10810 | | * Meta Therm Furnace Pvt. Ltd. * Technotherma India (Pvt) Ltd. * The Wesman Engineering Company Pvt. Ltd. |
| 15.18 | Cold Forging Bolt Former | 60 | Produce no material waste, high product strength, high productivity | BS 1473, ASTM A1014/A1014M-09 | | * Daljit Engineering Works * Devindra Industries * Singla Forging Pvt. Ltd. |
| 15.19 | Thread Rolling Machine | 20-30 | Increase in material hardness, smooth surface finish, chip not formed | IS 11715, 12296, 8405 | | * Rekofa Small Tools Pvt. Ltd. * Singhs Industries * Wellcut Tools (India) Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|--|-----------------------------|---|---|------------------------------|--|
| 15.20 | Friction Drop Hammer | 20 | Suitable for precision forging, longer durability | BIS IS 11372, PN 81/M-66800 | | * Charika Industries * Rattan Hammers * Wellcut Tools (India) Pvt. Ltd. |
| 15.21 | Metal Gathering Machine | 40-50 | Simultaneous heating & forming, lower material wastage, no heat / fume / exhaust gases emitted, minimise scale loss | | | * Keje Thermoweld Equipments Pvt. Ltd. * Perfect Forging * Sohal Electric Works |
| 15.22 | Knuckle-Joint press | 15-20 | High quality precision parts with optimum surface finish, longer tool life, increased productivity, lower unit cost | ASTM E 119 | | * Amco Press System * Mankoo (India) Pvt. Ltd. * Sharma Machine Tools |
| 15.23 | Hot Top Casting Machines (Continuous Casting) | 10-15 | Easy to operate and maintain, Energy efficient, Higher Productivity, Immediate casting speed and length, manual controlling system in case of electricity is off, More durable and smooth working | | | * Shandong Xinghe Import & Export Co. Ltd, Foshan Nanhai Weiao Machinery Co., Ltd. |
| 15.24 | Automatic Centrifugal Casting Machine | 50-60 | Low Power Consumption, In built safety logic, Computer Controlled Automatic Operation, better position accuracy | | | * Pune Instruments Pvt. Ltd. * The Centrifugal Casting Machine Company * Metro Rolls Corporations |
| 16 | Leather | | | | | |
| 16.1 | Hydraulic / Pneumatic Automatic Counter Moulding Machine | 20-25 | Fast production rate, high accuracy, less wastage | ISO 16916:2004, DIN ISO 24233 (2009-08) | IDLS, CLCSS | * BRUSTIA & C. S.p.A. * Torfelli * Wenzhou Zhuda Shoes-Making Machinery Co. Ltd. |
| 16.2 | Automatic Seat Lasting Machine (Heal Seat Lasting) | 10-15 | Accurate & faster, require less space, require less manpower | DR AS/NZS 2210.1 | IDLS, CLCSS | * ALPE SPA * CERIM S.p.a. * MOLINAE BIANCHI SpA |
| 16.3 | Automatic Pounding Machine | 50 | Improves quality of the final products. | | IDLS, CLCSS | * ALPE SPA * MOLINAE BIANCHI SpA * Wenzhou Zhuda Shoes-Making Machinery Co. Ltd. |
| 16.4 | Automatic Buffing & Roughing Machine with Microprocessor Control Mechanism | 20-30 | Precision buffing operation, fast production rate | BS 5131-4.1:1975 | IDLS, CLCSS | * Excel Machines India * Focus Machines India Pvt Ltd * MOLINAE BIANCHI SpA |
| 16.5 | Automatic Combined Rougher and Cementer (Buffing and Adhesive Application) | 40 | Both operations by one machine, require less space, fast production rate, reduce adhesive wastage | BS 5131-4.1:1975 | IDLS, CLCSS | * ALPE SPA * CERIM S.p.a. * MOLINAE BIANCHI SpA |
| 16.6 | Cement Dryer & Flash Activator Machine (Drying and Reactivation) | 10-25 | Increase production rate, better drying quality | | IDLS, CLCSS | * Focus Machines India Pvt Ltd. * Liang Jiang Shoes Making Machines Co. Ltd. * MOLINAE BIANCHI SpA |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|---|------------------------------|--|
| 16.7 | Thermo Cementing Machine for Upper & Sole | 10-25 | Reduced wastage of adhesive, accurate operation | | IDLS, CLCSS | * EPM Italia Machine Pvt. Ltd. * MOLINAeBIANCHI SpA * Wenzhou Zhuda Shoes-Making Machinery Co., Ltd. |
| 16.8 | Mackey Sole Stitcher | 40 | Fast production rate, better accuracy & product finish | BS-998A | IDLS, CLCSS | * Jinjiang Sheng Da Shoes Machine Trading Co. Ltd. * Nanhai Xiangda Machinery Co. Ltd. * RAM SRL |
| 16.9 | Fine Turning machine (for Last) | 20-35 | Increases production rate | | IDLS, CLCSS | * CERIM S.p.a. * Focus Machines India Pvt Ltd. * Torielli |
| 16.10 | Roughing Machine for Plastic Blocks | 10-15 | Increases production rate | GOST 27291:1987, PN EN 930:2002, | IDLS, CLCSS | * Focus Machines India Pvt Ltd. * PALSER * Satellite Plastic Industries |
| 16.11 | Computerized Lasting Turning CAD/CAM CNC Controlled Machine Including Designing and Interface Software | 30 | New product development, accurate copy of sample last, programmable cement distribution | AS/NZS 2210.2:2009, ISO 20344:2004, MOD, ISO/DIS 10717 | IDLS, CLCSS | * Focus Machines India Pvt Ltd. * MOLINAeBIANCHI SpA * Torielli |
| 16.12 | CNC Milling Machine with 3/5 Axis & EDM (CNC Sole Mould Development) | 25 | Right sole mould development | SAC GB/T 21949-2:2008, AS ISO 14649.1-2004, BS 4656-30:1992 | IDLS, CLCSS | * Cosmos Impex India Pvt. Ltd. * DMG India Pvt. Ltd. * Tengzhou Good CNC Machine Co. Ltd. |
| 16.13 | Hydraulic Automatic Press Moulding Press | 20-40 | Optimum performance, easy to operate | ANSI B11.2-1982, JIS B 6403 | IDLS, CLCSS | * Hydromech Automation Pvt. Ltd. * Power Hydraulics * Presswell Industries |
| 16.14 | Automatic Injection Soling Moulding Machine | 30-60 | High Performance, durability and quality | BS EN 201:1997 | | * Dyna Creation Pvt. Ltd. * Technocrat Mouldings Pvt. Ltd. |
| 16.15 | Single/Double width Fleshing Machine | 10-20 | Accurate product quality, high productivity | | IDLS, CLCSS | * Gopi Engineering Works * Mosconi SpA * Young-pearl Machinery Co. Ltd. |
| 16.16 | Single/Double width Uhairing Machine | 10-20 | Accurate product quality, high productivity | | CLCSS | * Gopi Engineering Works * Guleryuz Tannery Machinery Ltd. * Mosconi SpA |
| 16.17 | Through Feed Double width Machine (Shaving) | 30-50 | Higher precision product, improve leather grade | | IDLS, CLCSS | * Bharath Engineering Works * Changzhou Sanding Machinery Co. Ltd. * Strojovsit |
| 16.18 | Through Feed Double width Machine (Setting) | 10-20 | High productivity, produce better leather quality | | IDLS, CLCSS | * Changzhou Sanding Machinery Co. Ltd. * FangHua Leather Machine Co. Ltd. * Young-pearl Machinery Co. Ltd. |
| 16.19 | Double Width through Feed Splitting Machine (Splitting) | 40 | High precision, high productivity, produce better leather quality | | IDLS, CLCSS | * Changzhou Sanding Machinery Co. Ltd. * DMT Hydraulics * Strojovsit |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|--------------------------------------|------------------------------|--|
| 16.20 | Vacuum Dryer | 15-25 | Uniform & better drying, shorter drying time | ASTM D6752 / D6752M - 11 | IDLS, CLCSS | * Changzhou Sanding Machinery Co. Ltd. * Krishna Engineering * Raj Process Equipments & Systems Pvt. Ltd |
| 16.21 | Hydraulic Press with Automatic Time and Temperature Controller | 20-40 | Easy to operate & maintain, high productivity | ANSI B11.2-1982, JIS B 6403 | IDLS, CLCSS | * Hydromech Automation Pvt. Ltd. * Power Hydraulics * Presswell Industries |
| 16.22 | Auto Spray with Dryer | 15-20 | Uniform spraying & drying, pattern control, fine atomization, high production rate | ASTM C33 [4] | IDLS, CLCSS | * Advanced Drying Systems * Shachi Engineering Pvt. Ltd * Raj Process Equipments & Systems Pvt. Ltd |
| 16.23 | Variable Frequency Drive for Pumps for Hot & Cold Water Supply (Pre-tanning Section) | 30-40 | Extend equipment life, reduce maintenance, reduced peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | | * Atlas Copco India Ltd. * Schneider Electric India * Siemens Ltd. |
| 16.24 | Steam Heating (Replace Electrical Heating) | 20 | Steam can be distributed throughout a heating system with little change in temperature, terminal units can be added or removed without making basic changes to the design | UL 2096, ASME BPVC SEC VIII D1 | | * Raj Process Equipments & Systems Pvt. Ltd. * Thermax Ltd. * Veesons Energy Systems Private Ltd. |
| 16.25 | Variable Frequency Drive for Screw compressors (Dyeing section) | 30-40 | Extend equipment life, reduce maintenance, reduced peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | | * ABB India * Schneider Electric India * Siemens Ltd. |
| 16.26 | Variable Frequency Drive for Hydraulic Oil System in Vacuum Drier | 30-40 | Extend equipment life, reduce maintenance, reduced peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | | * Atlas Copco India Ltd. * Schneider Electric India * Siemens Ltd. |
| 16.27 | Combined Through Feed Single/Double width Buffing Machine with Dusting Operation | 10-15 | Accurate buffing operation, easy to operate | | IDLS, CLCSS | * DMT Hydraulics * FangHua Leather Machine Co. Ltd * Young-pearl Machinery Co. Ltd. |
| 16.28 | Roto Press and Roto Print | 30-40 | Uniform pressing | DIN 19306-3 (2002-04) | IDLS, CLCSS | * Jyoti Industries * Skandia Sales & Services Pvt. Ltd. * Tyagi Engineering Works |
| 16.29 | Energy Efficient Chiller | 25-30 | Low specific power consumption | SEER 16-23, IEC 60335-2-40 | | * Blue Star Limited * Frick India Limited * Kirloskar Chillers (P) Ltd. |
| 16.30 | Edge Trimming Machine | | Low specific power consumption, Machine suitable to trim and round the edges of shaped (curved) belts by horizontal blades, Various size of shaped blades, Trimming and rounding of belt edges, Speed variator | | | * Focus Machines India Pvt. Ltd. * Liven Impex * Smooth Mchine Tools |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|---|------------------------------|---|
| 17 | Pharmaceutical & Bulk Drugs | | | | | |
| 17.1 | Flash Dryers or Rotary Vacuum Dryers (Product Drying) | 28-64 | Low cost instant drying with no pulverizing, low initial investment as compared to spray dryer, control batch drying process, control of material temperature | IEC 296, BS 148 | CLCSS | * Raj Process Equipments & Systems Pvt. Ltd. * Shachi Engineering Pvt. Ltd. * Sunrise Process Equipments |
| 17.2 | Use of Biomass Gasifier with Slurry Economizer (Incinerator) | 70 | Utilize agricultural & industrial waste, heat recovery system, eco-friendly, carbon credits can be earned | | MNRE | * Ankur Scientific Energy Technologies Pvt. Ltd. * Infinite Energy Pvt. Ltd. * Southern Carbon Pvt. Ltd. |
| 17.3 | Nauta Mixers (Blenders) | 20 | Grains do not break, no manual charging / discharging, shorter mixing time, easy addition of liquid & cleaning | UL 763, NSF/ETF/CE | CLCSS | * Mikrons * Raj Process Equipments & Systems Pvt. Ltd. * Srinidhi Engineers |
| 17.4 | Blister Packing Machine (using Variable Frequency Drive) | 30-35 | Reduce edge cutting wastage, improve blister quality | IEC117599 | | * Europack Machines (India) * Rapidpack Engineering Pvt. Ltd. |
| 17.5 | Semi Automatic Capsule Filling Machine (with AC Frequency Drive) | 20-30 | PLC controlled, loader disengaged automatically, different speed to fill different type of powder / pellet, drug hopper design reduce time to dismantle / unload powder, auto-drug hopper feed-in mechanism reduce weight variation & improve productivity | CE certified | | * Anchor Mark Private Limited * Pankaj Industries * Aimtee Machine Corporation * Pharmaceutical Machinery Mfg Works |
| 17.6 | Variable Frequency Drive for Fluidized Bed Boiler Blower | 30-40 | Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation | JEM201, 225, 226, 227, C62.41.2-2002 | | * Atlas Copco India Ltd. * Schneider Electric India * Siemens Ltd. |
| 17.7 | Condensate Recovery & Recycle System for Boiler Feedwater | 15-20 | High temperature feed water, low blowdown loss, low water treatment cost | IS 10496 : 1983, ASME BPVC SEC VIII DIV I | | * Precision Controls * Thermax Ltd. * Veasons Energy Systems Private Ltd. |
| 17.8 | Regenerative Furnace & Refractory Recuperator | 25-35 | High flame temperature, lower emissions | 40 CFR 60, ASTM C1223 - 09 | | * Dukhiram Maurya Engineering & Refractory Works (India) Pvt. Ltd. * Indotherm Furnace and Engineers * Laimura Technology (P) Ltd |
| 17.9 | CO ₂ Flue Gas Recovery Plant Based on Flue Gas System | 30 | Less corrosive effect on inner surface, carbon credits can be earned | | | * Fluor Daniel India Pvt. Ltd. * The Dow Chemical Company * Wittemann India |
| 17.10 | Flaker with Silo and Screw Conveyer (Ice Flaker) | 5-10 | Automatic operation, no spillage, no water, no latent heat loss | ASTM F2432 -04 | CLCSS | * Darshini Engineers * GEA Refrigeration India * Hi Tech Cooling Systems |
| 17.11 | CNC Precision Forming machine | 45-60 | High-Speed positioning, Sleek Design, High Accuracy, Precision welded frame construction for maximum strength and rigidity, adjustable bending speed, High resolution. | | | * Accupress International Sales Ltd. * Apex Group * Sai Springs |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|--|-----------------------------|---|--|------------------------------|--|
| 17.12 | Programmable Dosing and misting Systems | 30-35 | Speed-controlled gear motor with speed display and adjustment through the display, Monitoring of the component pressure using the digital display | | | * Amada India Pvt. Ltd. * Sonderhoff Engineering GmbH * LLLReptile and Supply Co. * Sonderhoff Engineering GmbH * Odorcure |
| 17.13 | Submerged Mechanical Aerator/Agitator (Aquarator) | 30-40 | Easy maintenance, accommodates various processing methods, achieves homolytic aeration mixing, no settling sludge and no clogging | Power: 1.5kW, 2.2kW, 3.7kW, 5.5kW, 7.5kW, 11kW, 15kW, 22kW, 30kW | | * Hanshin Engineering Co., Ltd. |
| 18 | Mini Steel | | | | | |
| 18.1 | Blast Furnace Hot Stove Heat Recovery | 10-15 | Improve combustion heat efficiency | NSF/ANSI 5 | | * Laimura Technology (P) Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 18.2 | Power Generation from Blast Furnace Exhaust Gases | 15-20 | Reduce auxiliary energy usage, reduce emissions | | | * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. * Veasons Energy Systems Private Ltd. |
| 18.3 | Sinter Cooler Waste Heat Recovery | 35-60 | Reduce coke consumption, reduce emission, can avail carbon credit, applicable for circular type or linear type cooler | ISO-14001:2004 | | * Laimura Technology (P) Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. |
| 18.4 | Coke Dry Quenching | 80 | Improve on coke quality & strength, reduce water usage | PN-EN ISO-IEC 17025-2001 | | * JP Steel Plantech Co. * Nippon Steel Engineering Co. Ltd. * Stork India * Thermax Ltd. |
| 18.5 | Waste Gas Recovery from Oxygen Converter | 20-30 | Lower carbon monoxide emissions | | | * Nippon Steel Corporation, Plant and Machinery Division (Kaohsiung Plant & Machinery Co. Ltd.) * Siemens VAI Metal Technologies * Suzhou Fangzhou Aerial-model Co. Ltd. |
| 18.6 | High Efficiency Combustion Control System in Pre-Heating Furnace | 5-15 | Furnace calibration is not required, less furnace maintenance | BS EN 14597:2005 | | * Eclipse Combustion Pvt. Ltd. * ENCON THERMAL ENGINEERS (P) LTD. * Pyrotech Engineers & Mfrs. |
| 18.7 | Heat Recovery from Blast Furnace Hot Stove Waste Gases | 40-50 | Improve combustion heat efficiency, preheat combustion air / fuel gas for blast-furnace hot stove | BS EN 12619 | | * ENCON THERMAL ENGINEERS (P) LTD. * Siemens VAI Metal Technologies * Suzhou Fangzhou Aerial-model Co. Ltd. |
| 18.8 | Coiler /Decoiler | 25-50 | Clear Cost advantage, User friendly | | | * Shikovi Heat Gen Technologies Pvt. Ltd. * Grauer & Weil India Ltd. * Wuxi Meikai Machinery Co., Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|-----------|---|-----------------------------|---|---|------------------------------|---|
| 18.9 | HR Galvanizing Line (with PLC based control system and variable speed drives) | | Inline skin pass mills | | | * Digi Drives (P) Ltd |
| 19 | Metals | | | | | |
| 19.1 | High Efficiency Industrial Furnace in Aluminum Factory | 30 | Regenerative burner system, advanced software based operator & management automatic system, reduce system maintenance | NFPA 86C- 1999, ISO/ NP 13577/13578/13579 | | * Allied Consulting Engineers Pvt. Ltd. * ENCON THERMAL ENGINEERS (P) LTD. * The Wesman Engineering Company Pvt. Ltd. |
| 19.2 | Electrical Resistance Heat Treatment Furnace | 30 | Made with imported heating element and refractory, Higher thermal insulations ceases heat los | BS EN 62395-1:2006 | | * Simplicity Engineers Pvt. Ltd. * Xtreme Mech Xperts |
| 19.3 | Manganese Steel Heat Treatment Furnace with Recupertor | 25-30 | Less Heat Loss | ASTM A 703/A 703M:1999 | | * Pragati Ceramics * Aastha Tech |
| 19.4 | Hi Chrome Grinding Media Oil Fired Heat Treatment Furnace with Recupertor | 10-30 | High Durability, Ultimate performance | | | * Shri Girraj Industries * Sri RN Metals India Pvt. Ltd. |
| 19.5 | Wire Drawing (with Variable Frequency Drive Control) | 10-30 | Better productivity, Easy operation and faster threading | IEC 228/ BS 6360. 15 RBD | | * Ajit Machine Tools Industries |
| 19.6 | Spooling Machines (with Variable Frequency Drive Control) | 10-30 | Enhanced Productivity and energy saving | | | * Assomac Machines Ltd. * Omega weld Rod Systems * Showmark |
| 19.7 | Oxygen Plant (Manufacture of Oxygen and Nitrogen by Air Separation Method) | 20-35 | Capable of simultaneously producing oxygen and nitrogen, easy access for maintenance, better life | IEC 61511 | | * Kanak Cryo |
| 19.8 | High Speed Metal cutting band saw with PLC and VFD control | 20-30 | Antifriction LMG, Electroinc Automatic Feed Regulation, auto cycle sequencing with electronic PLC | | | * ITL Industries Ltd. * Behringer Saws, Inc. * Sokhi Machine Tools |
| 19.9 | Dual Layer Aluminium Colour Coating and Baking Line | | | | | |
| 20 | Plastics & Polymers | | | | | |
| 20.1 | Multi Layer Film Extruder | 25-30 | Lower cost and shelf appeal | ISO/IEC 10373-1:1998(E) | CLCSS | * R. K. Engineering Works |
| 20.2 | Solvent Less Lamination Machine | 15-20 | Equipped with Oil heating units with auto temperature controllers, Shaft-less non-winder and reminder | | CLCSS | |
| 20.3 | Servo Motor Plastic Injection Machine | 30-70 | Better molding stability, lower cycle time | "IEC 60034 and IEC 60072-1 , ANSI B151.1" | CLCSS | * Ferromatik Milacro * Modern Plastics & Polymers Infimedia Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|-------------------------------|------------------------------|--|
| 20.4 | PET Moulding Machine | 40-45 | Fast production rate, uniform production quality, require less manpower | ANSI B151.21 | CLCSS | * Shyam Plastic Machinery |
| 20.5 | Fully Automatic Micro Processor Controlled Plastic Injection Moulding Machines | 50 | Homogeneous force applied, improve productivity, reduce wastage | ANSI B151.1, ANSI/SPI B151.29 | CLCSS | * Guru Harkrishan Hydraulics |
| 20.6 | CNC Milling Machine | 10-15 | Productivity improvement, improve quality, easy to operate | BS 4656-30, ISO 14649 | CLCSS | * Jyoti CNC Automation Pvt Ltd * LMW India Ltd. |
| 20.7 | PLC Controlled Hydraulic Press | 5-10 | Productivity improvement, improve quality, easy to operate | ANSI B11.2 | CLCSS | * Santec Exim Private Limited |
| 20.8 | Pultrosen Machine | 10-20 | Productivity improvement, improve quality, easy to operate | IEC: 60815 | CLCSS | * Ashirwad Industries * SVS Hydraulics |
| 20.9 | Infra Red Heaters / Oven | 30-40 | Reduce cycle time | IEC 60335-2-25 | CLCSS | * Matrusree Electro Heats |
| 20.10 | Microprocessor Controlled Fully Automatic Extrusion / Injection Blow Moulding Machine | 10-20 | High productivity, imporve quality | ANSI B151.21 | CLCSS | * Bombay Hydraulic (India) * Ferromatik Milacron |
| 20.11 | Plastic Injection Molding Machine with Variable Pump | 30 | Eliminate voltage dip, reduce starting shock on motor / coupling / gear, improve process control, reduce motor heating / stress | ANSI B151.1 | | * Chuam Lih Fa Machinery Works Co. Ltd * Ferromatik Milacron |
| 20.12 | Fully Automatic – HM/ LDPE (using Variable Frequency Drive) | 35 | Low Power Consumption with high output,Compact Design-Space Saving Device | | | * Gurucharan Industries |
| 20.13 | Corona Treater (using Advanced IGBT Technology) | 10-20 | Easy thread-up, quick installation,comfortable to operate and simple maintenance | ASTM D25 | | * Eltech Engineers * AG Treaters |
| 20.14 | Slitting Machine (Using AC Frequency Drive) | 30-35 | Shafted unwind stand,Choice of razor or shear cutter | | | * Fadia Engineers * Skyflex Engineering |
| 20.15 | Pneumo Hydraulic Edge Guide System | 15-20 | Designed for high response and accuracy, Suitable for unwind / rewind / intermediate guiding | IEC 119368 | | * Om Suntronics Converting Equipments * Dynaspade Integrated Systems Pvt Ltd. |
| 20.16 | Three Layer Brown Film Plant (using Variable Frequency Drive) | 20 | Increasing flexibility and shortening production schedule and cost effectiveness | | | * Kabra Extrusiontechnik Ltd. * Kalimata plastic machinery Pvt. Ltd. |
| 20.17 | Standy Zipper Pouch Making Machines (using AC Frequency Drives) | 20-30 | Servomotor for indexing and accuracy,P.I.D. base temperature controller | CE/ISO9000 | | * Jartolia Engineering Works |
| 20.18 | Rotary Cap Compression Moulding Machine | 15-30 | Higher Productivity,High Finish,No Colour Streaks,Low Production Cost | | | * Magnum Machine & Tools (P) Ltd. |
| 20.19 | Laminated Tube Body Maker Machine | 10-15 | PLC controlled with easier operation | ISO 9001:2000 | | * Jinbaotian Packing Machinery |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|--|------------------------------|--|
| 20.20 | Screwing Cap Machine | 10-15 | PLC controlled making the machine work more accurately and steadily | IEC-238 ,ZBK74003-86 | | * Jinbaotian Packing Machinery * WEIJIN MACHINERY INDUSTRY CO., LTD * Uma Polymers Ltd. * Uflex Limited Engineering |
| 20.21 | Thermoforming Sheet Extrusion Machine (using Variable Frequency Drive) | 10-15 | Specially designed winding system, lowest manufacturing cost | CE Certification | | * R.R. Plast Extrusions Pvt. Ltd. |
| 20.22 | Thermoforming Machine with Infra-red Heaters (using Variable Frequency Drive) | 35-40 | Fully automatic Servo controlled PLC system and heavy duty hydraulic system, low maintenance and trouble-free longer runs | BS EN ISO/IEC 17025 | | * Rajoo |
| 20.23 | Scrap Grinder | 15-20 | Superior design and proven reliability | ANSI B11.9 | | * R.R. Plast Extrusions Pvt. Ltd. |
| 20.24 | Automatic Strap Bend Making Machine | 25-30 | Gears are hardened and precision ground for quiet running performance. SACMI barrel is nitrogen treated, precision ground, and stress relieved | | | * Jumbo Steel Machinery Co. Ltd. |
| 20.25 | Automatic High Speed Bag Making Machine | 45-60 | Greater flexibility and higher outputs | IEC 360 | | * Mamata USA Inc |
| 20.26 | Flex Lamination Machine | 10-15 | Good production with smooth surface | | | * Canara Flex |
| 20.27 | Bottom Seal Bag Packing Machine (with Micro Processor Controlled) | 20-25 | Equipped with Servo Motor for indexing and Accuracy, tension free Web for Strong Sealing | | | * XL Plastics |
| 20.28 | Plastic Injection Machine (with Variable Pump) | 15-45 | Increased performance, while highly flexible use is guaranteed by the quick-change plasticizing unit, which can be replaced in a few minutes | IS 13360, EN201:2009, GOST 26689:1985 | | * Negri Bossi S.p.a |
| 20.29 | Production line for manufacturing of laminated panels | 15-20 | Equipped with PLC control system which helps to set length and provide accurate automatic cutting | | | * Ningbo Aoli Machiney Co. Ltd. |
| 20.30 | Slow Speed Granulator | 25-40 | Fast and easy operation, various blade sizes are available to help create re-grind that flows smoothly into production | | | * Matsui America |
| 20.31 | Fully automatic strap band making machine | 15-25 | Automatic operation and labor saving, High production. | CE ISO9001 | | * Jumbo Steel Machinery Co., Ltd. |
| 20.32 | Automatic Splicer Machine with PLC controls | 30-35 | Increased productivity, greater quality control and reduced waste | IEC motor controls installed in ergonomic NEMA | | * Lohia Starlinger Ltd. |
| 20.33 | PLC based tape stretching line | 45-50 | The stretching line is designed to meet the highest performance and quality requirement with maximum efficiency and flexibility while using minimum raw material and energy | | | * Ocean Extrusions |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|--|----------------|------------------------------|--|
| 20.34 | High Frequency Plasting Welding Machine/ Embossing Machine | 41-50 | High efficiency, small land cover, simple operation, equipped with electrode and product protection device | | | * WELDECH Electric Industry Co., Ltd |
| 20.35 | Plate Extruder Line | 20-25 | Reduced energy consumption, good plasticization, high temperature precision, easy operation, high output | | | * Suzhou Jwell Machinery Co. Ltd. |
| 20.36 | Rotating Twin Screw Extruder | 15-20 | Energy Efficient operation, Modern available speed range, Direct torque control based on digital drive controllers, Advanced computer aided design and manufacturing using CNC control system | | | * Steer Engineering India |
| 20.37 | High Speed Heater Mixer (with VFD and Screw Conveyor) | 20-30 | Efficient production without cross-contamination and free from moisture, Economic operation with lowest compounding cost, Lower scrap rate, Compact space saving system with the highest specific throughput, Least down time. | | | * Neoplast Engineering Pvt. Ltd |
| 20.38 | Water Pelletizing System | 70-75 | Less Energy Consumption, Low noise, Low scrap due to Automation & clean operation, Low tool cost, variable tool speed & Automatic tool readjustment, Fully automatic and closed loop system | | | * Neoplast Engineering Pvt. Ltd |
| 20.39 | Bitumen Membrane Forming | 10-40 | Energy efficient operation with Higher productivity & higher accuracy | | | * Changzhou Wujin East Fibre Non-Weaving Machinery Co. Ltd. |
| 20.40 | Conical Twin Screw Extruder with Variable Frequency Drive | 30-40 | Reduced energy consumption, Screw temperature control system, Good product quality, Easy operation, High output | | | * Hindustan Plastic & Machine Corporation, Suzhou Jwell Precision Machinery Co., Ltd., Neoplast Engineering Pvt. Ltd |
| 20.41 | Auto Woven Bag Cutting & Sewing (with inverter control) | 10-15 | Upgradation to work on LENO fabrics, On-line Handle/Hole Punching System, Easy open type sewing attachment, On-Line bag inspection Arrangement | | | * Simplex Global Impacts * JP Extrusiontech Limited * Zhejiang Tianfeng Plastic Machinery Plant |
| 20.42 | 3D Blow Moulding Machine with PLC control system | 50-70 | It offers minimum flash production achieving significant savings in material, energy, usage, cycle times and, in capital spending | | | * Zhangjiagang Kingswel Precision Mold Manufacturing Co., Ltd. * Ranasons Pvt. Ltd. * U. V. Tech Systems |
| 20.43 | Blown Film Plant with VFD | | Equipped with VFD | | | |
| 20.44 | Extrusion Lamination Plant with VFD | | | | | |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---|---|---|
| 21 | Steel Re-rolling | | | | | |
| 21.1 | Pusher Type Reheating Furnace with Suspended Roof, Multi Fuel Capacity and Automated Temperature Controls | 20-30 | Reduce scale loss | IS 1786:1985 (clause 3.1) | | * Allied Furnaces Pvt Ltd. * Encon Furnaces (P) Ltd. |
| 21.2 | AC and DC Drives for Control of Fuel and Air | 10-30 | Eliminate voltage dip, reduce starting shock on motor / coupling / gear, improve process control, reduce motor heating / stress | | | * Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited |
| 21.3 | Semi Automatic High Speed Rolling Stands with DC Drives | 20-30 | Eliminate voltage dip, reduce starting shock on motor / coupling / gear, improve process control, reduce motor heating / stress | I.S.I./ISO 9002, DIN and British standard | | * Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited |
| 21.4 | Shell in Shell type recuperator for reheating furnace with modified pulverized coal firing system | 10 - 15 | Uniform temperature profile, reduced flue gas temperature | | | * Eastern Equipment and Engineers |
| 21.5 | Oxygen sensor and monitoring system for reheating furnace | 10 - 15 | Significant reduction in scale loss | | | * Ecolibrium Energy |
| 21.6 | Shell in Shell type recuperator for reheating furnace with modified pulverized coal firing system | 10 - 15 | Uniform temperature profile, reduced flue gas temperature | | | * Eastern Equipment and Engineers |
| 22 | Packaging | | | | | |
| 22.1 | Automatic Corrugated Making Plant | 30-35 | High productivity, better quality, lesser space & manpower requirement, high reliability | | CLCSS | * Acme Machinery Company * Challenger International * Senior Print-Pack Machinery Company |
| 22.2 | Thermic Fluid Boiler or Steam Boiler using Agri Residue | 80-84 | Fuel flexibility, heats roll uniformly | DIN 4754 | CLCSS, Excise / customs duty exemption, 80 accelerated depreciation | * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. * Veessons Energy Systems Private Limited |
| 22.3 | Web Based Coating Machine for Water Based Coating | 30 | Eco-friendly, recyclable, free from fire hazard | ISO 12647-2 | CLCSS | * Kohli Industries * Mukand Industries Pvt. Ltd. * Taskar Engineering |
| 22.4 | Multi Colour Flexo Printer Slotter for Flexographic Printing | 40 | Faster drying, large size printing | ASTM(ASME), DIN,JIS 2 | CLCSS | * Micro Engineers India * Paper Board Machinery Company * Surjeet Industries |
| 22.5 | Automatic Corrugated Board Plant with Printing Die Cutter using Thermic Fluid for Heating | 30-35 | High productivity, better quality | | | * Acme Machinery Company * Senior Print-Pack Machinery Company * Super Sujata |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|-----------------------|------------------------------|---|
| 22.6 | Fully Automatic PLC Hydraulically Operated Moulding Machine | 15-20 | Higher productivity, better quality, simple operation | | CLCSS | * Kirtee Engineering * Prem Machine Tools (India) * Raj Industries |
| 22.7 | Automatic Board Plant | 25-30 | Less space & manpower requirement, higher productivity | | CLCSS | * Acme Machinery Company * Challenger International * Senior Print-Pack Machinery Company |
| 22.8 | Folder Gluer Machine | 15-20 | Instant drying, simple to operate & maintain | | CLCSS | * Suba Solutions Private Limited * Acme Machinery Company * Alliance Engineers * Paper Board Machinery Company |
| 22.9 | High speed Automatic Board Line & Converting Line | 30-35 | Less space & manpower requirement, higher productivity | | CLCSS | * Challenger International * HIC Print Pack Machine * Senior Print-Pack Machinery Company |
| 22.10 | Folding machine | 5-15 | Modular design with maximum flexibility and productivity | | | * Heidelberg India Pvt. Ltd. |
| 22.11 | Sticker labeling machine | 10-15 | Accurate labeling, Minimum Glue consumption, Labour saving, Minimum maintenance | ANSI Z535.4, ISO 3864 | | * Lan Pharmatech |
| 22.12 | Assembling Machine | 10-15 | Capable of processing Multicomponent closures (up to 5 pcs.) with output rates between 7.000 and 60.000 pph. | | | * Lamfi Equipment |
| 22.13 | Lining/Wadding Machine | 10-15 | The machine is equipped with PLC system and an AC Converter (Inverter) that makes the machine adapt its speed automatically with the caps feeder's production. | ECMA-376 | | * Lamfi Equipment * MMC Packaging Equipment Ltd. * Qingdao Tongjia Textile Machinery Co., Ltd |
| 22.14 | Automatic water slotted with variable frequency drives | 10-15 | Wear-free, frequency controlled motors with long operation life, Pneumatic clamping system for safe material clamping, No adjustment needed for similar profile types | | | * Elumatech |
| 22.15 | Aluminum Foil Sealing and screwing cap machine | 10-15 | The machine adopts PLC system to make it perform more accurately and stably | | | * Jinbaotian Packing Machinery Co., Ltd. |
| 22.16 | Automatic 5 Ply plant | 25-30 | High speed operations, Reliable performance, Smooth operations, long functional life | | | * Acme Machinery Company |
| 22.17 | Three Layer Blown Film Plant | 20-25 | Equipped with advanced CAD Design dies to ensure uniform flow distribution, excellent melt characteristics and film quality | IEC119368 | | * Kabra Extrusion Technik |
| 22.18 | Packing and Bundling Machine (inverter based & PLC controlled) | 30-40 | Reduction in Energy consumption, Easy operation and maintenance, Quick & easy roll changes, Heat Sealing | | | * OMP Italy |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|----------------|------------------------------|--|
| 22.19 | Computer Controlled Curved Bag making Machine | 45-60 | Energy efficient operation with PLC wide screen LCD display, AC Servo fixed length control systems, Frequency converter for the main speed and with PWM control mode adopted, Automatic counting, Makeup counting, Pre-set topping, Idle cutting, Material returning | | | * Jiangyin Beiguo Qunyan Packing Equipment Co. Ltd., Shanghai Sunshine Advanced Technology Corporation |
| 22.20 | Computerized High Speed PVC Sleeve Seaming Machine | 15-20 | High performance of control system and mechanical structure, Stable operation of the machine, High work efficiency, Ideal equipment for middle sealing and sticking of mark. | | | * Zhangjiagang Feijiang Plastic Package Machinery Co., Ltd. |
| 22.21 | Fully Automatic High Speed PVC Label Cutting Machine | 15-20 | Energy Efficient process with PLC system, Three phase AC servo fixed length control system, Main speed is controlled by inverter in the way of PWM, Concave and protruding cold cutting knife, Photocell fixed length tracing device, Air expansion shaft at unwindiong , Magnetic powder strength control. | | | * Zhangjiagang Feijiang Plastic Package Machinery Co., Ltd. |
| 22.22 | Cutting machine with variable frequency drive for aerosol can packaging line | 20-30 | High productivity, less skill requirement, Consistency in quality | | | * Jiujiang Yongxin Can Equipment Co., Ltd * Schuler, Kellie Treppa Communications, Schuler * Shantou Xinqing Cannery Machinery Co., Ltd. |
| 22.23 | UV LED Printer | 60-80 | They produced incredibly crisp text and vibrant, full-color images with outstanding solvent and abrasion durability on a variety of substrates, user friendly | | | * Apson Infotex Ltd. * Direct Color Systems * INKCUPS Now |
| 22.24 | Roller Coating Machine with VFD | 20-35 | Increased Productivity, Compact Machine, Smooth Operation | | | * APL Machinery Pvt. Ltd. * Hari Impex * Abhimanyu Print Line |
| 22.25 | Semi-automatic Auger Filler machine with PLC control and servo drive | 25-40 | Easy Maintenance with air vent and balloon and visible window glass | | | * Blenzor India * Saurabh Flexipack Systems Pvt. Ltd. * Augapac |
| 22.26 | High Speed Pneumatic Operated Bagging Machine with AC drive and PLC control | 20-30 | Flexible, Less Maintenance equipped with self diagnosis system | | | * Saurabh Flexipack Systems Pvt. Ltd. * Koyka Electronics Pvt. Ltd. * WJ Morray Engineering Ltd. |
| 22.27 | Rotary Piston Filing & Sealing Machine | | Compact, versatile machine, easy operation | | | * Madicam Machine Tools * Harshika Industries * Flexicon Liquid Filling |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|---|------------------------------|---|
| 22.28 | Automatic High Speed gum labeling machine with AC drive | 20-30 | Adjustable conveyor height, Minimum changeover time required, No container- No label, an electrical sensing device avoids wastage of labels, it also helps in keeping the unit neat and clean | | | * V. Tech Pharma Machinery * AGC Industries * High Mech Industries |
| 22.29 | Auto self adhesive labeling machine with PLC Control | 10-30 | Product data storage facility, No change parts requirements, Very less down time for change over, Suitable for Glass, Plastic, Pet, Tin, Corrugated containers. | | | * V. Tech Pharma Machinery * Harikrushna Technopride Engg. * Deveshi Engineering |
| 22.30 | Fully Automatic Tube Filling & Sealing Machine with VFD | 20-30 | Reliable and durable with high performance and low maintenance | | | * Caelsons Industries * Ashirvad Industries |
| 22.31 | Automatic Stretch wrapping Machine | 10-20 | Durable standards, easy installation, tough construction and low maintenance | | | * Avi International Packaging Co. * Shreeji Shrink System * IPK Packaging (India) Pvt. Ltd. |
| 22.32 | Combined Rotary Creaser Slotter Machine | 30-50 | Reduced energy consumption, higher production, faster operation | | | * Hari Industries * Precision Machinery * Century Machines |
| 22.33 | Automatic Cutting and sealing Machine | 30-50 | Good quality sealing, increased productivity, low energy consumption | | | * Laxmi Industries * Mahindra Plastic Industries |
| 22.34 | Full Servo Sanitary Napkin Machine | | PLC controlled and servo driven | | | * Hangzhou Creator Machinery Manufacturer Co., Ltd. |
| 22.35 | Direct Drive PLC based Continuos Carton Making Machine with Automatic Feeding and Packing features | 10-15% | High output, continuous motion, PLC based automatic horizontal Cartoning Machine | Connected Load: 4kW; Compressed Air pressure: 6kg/cm ² ; Maximum 220 cartons / minute for Blister | | * Elmach Packages India Pvt Ltd |
| 22.36 | PVDC Coating Machine with Lamination Attachment | | Pneumatic pressure roll system, Lay on roller | | | * LA-PRA Company |
| 22.37 | High Speed Automatic Flat Bed Die Cutting Machine | 10-15 | Centerline tool alignment system, Double cam gripper bar | Speed 8000 sheets/hour, (sheet size 29.125 x 41.75 in) | | * BOBST Group |
| 22.38 | Fully Automatic Foam Moulding Machine | | | | | |
| 22.39 | Vertical Form, Fill and Seal Machine with Multi Head Weigher | 10-15 | Single line set-up, minimisation of waste | | | * Pakona Engineers (I) Pvt. Ltd |
| 22.40 | Foam Plant & Laminator Machine | 10-15 | | | | |
| 22.41 | Double Chamber Vacuum Packaging Machine | 15-20 | | | | |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|---------------------------------|--|--|------------------------------|--|
| 23 | Rubber | | | | | |
| 23.1 | Roto-cure Machine | 20-30 | Continous production, wastage minimum, high productivity | | CLCSS | * Qingdao Judong Industry Co. Ltd. * Sant Engineering Company * Unique Industries |
| 23.2 | Cold Feed Extruder | 50 | Rubber compound warming operation prior to extrusion is avoided, required less space | ANSI B151.7-1982/88 | CLCSS | * Bharaj Machineries Company Pvt. Ltd. * Sant Engineering Company * Santosh Rubber Machinery Pvt. Ltd. |
| 23.3 | Multi Channel Extruder | 15-20 | Rubber band manufactured from dry rubber | ANSI B151.7-1982/88 | CLCSS | * Bharaj Machineries Company Pvt. Ltd. * Genca Inc. * REIFENHÄUSER (India) Marketing Ltd. |
| 23.4 | Thermic Fluid Heaters | 10-15 | Uniform heating, automatic control setting, operational flexibility | DIN 4754 | CLCSS & TUFS | * Energy Machine * Thermax Ltd. * Thermotech Systems Ltd |
| 23.5 | Bio-mass Gasifier Based Drying Furnace | completely replaces fossil fuel | Utilize agricultural & industrial waste, reduce GHG emission, carbon credits can be earned | | MNRE | * Ankur Scientific Energy Technologies Pvt. Ltd. * Infinite Energy Pvt. Ltd. * Southern Carbon Pvt. Ltd. |
| 23.6 | Fully Automatic Vacuum Hydraulic Machine (with PLC control) | 30-40 | Enhanced Productivity and efficiency | | | * Bharaj Machineries Pvt. Ltd |
| 23.7 | Rubber Injection Moulding Machine with Electronically Controlled Hydraulic Pump | 25-30 | Accurate process control and high productivity | IS 13360, EN201:2009, GOST 26689:1985 | | * J. R. D. Rubber and Plastic Technology Private Limited |
| 23.8 | PLC – Rubber (Plastic) Dispersion Mixer | 25-30 | Excellent cooling efficiency,Easy maintenance | | | * DaLian Rubber & Plastics Machinery Co. Ltd. |
| 23.9 | Rubber Mixing Mill with stock blender | 20-30 | Provides safer working conditions, low material temperature and high mixing rate of the compound | | | * Bharaj machineries pvt. Ltd. |
| 23.10 | Rubber Mixer | 20-30 | Equipped With Peripheralled Drilled Rolls,Heavy Duty Type With Higher Safety Factors | | | * Bharaj machineries pvt. Ltd. |
| 23.11 | Rubber Oil Seal Vulcanization Molding Machine with PLC control | 25-30 | Shorten curing time, increases production efficiency,High speed vacuum system | | | * Tung Yu Hydraulic Machinery Co., Ltd. |
| 23.12 | Fully Automatic Activated Carbon Manufacturing Line | 15-20 | Grinding of Tyres as feedstock, Use of PLC driven systems | Min. 20 tonnes per day production output | | * Klean Industries Inc., www.kleanindustries.com |
| 24 | Stone Cutting | | | | | |
| 24.1 | Laser Technology Duplicating Machines, Pantographs, etc. for sculpting and duplicating artwork and monuments | 5-10 | Capability to mass- produce intricate product patterns, high precision | | CLCSS | * B.R.M. Machine Tools * The Penn Group * Vinay Engineering Works |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------|------------------------------|---|
| 24.2 | CNC Diamond Faceting Machine for Bangles & Rings (with Laser Sensor) | 45-60 | Equipped with CNC controller, variable AC drives and AC servo motors to ensure life long maintenance free working, CNC controller is compatible with leading CAD/CAM softwares | | | * Solanki Mechanic Works, O.M.P.A.R. srl |
| 24.3 | Fancy round chain cutting machine (With PLC and variable speed drive) | 20-30 | Equipped with AC motors and AC drives to ensure maintenance free working. Coupled with variable AC drives for speed variations | | | * Solanki Mechanic Works |
| 24.4 | CNC controlled Ice Diamond cutting machine for chains Ice | 45-60 | Equipped with energy efficient AC motors, Speed control using variable AC drives, High precision | | | * Solanki Mechanic Works, O.M.P.A.R. srl |
| 24.5 | Jewelry Laser Spot Welding Machine | 15-20 | Smart size, easy operation, welding spot is firm and nice. Equipped with microscope for monitoring makes sure the welding spot is more accurate. Specialized appearance improved comfortableness for the operating personnel | | | * Shenzhen Orena Laser Equipment Co.,Ltd. * Ankitst Exim Inc. * Shenzhen Superwave Laser Technology Co.,Ltd |
| 24.6 | Ultrasonic cleaning machine | 10-15 | High intensity cleaning action with optimum efficiency, Economical, safe and compact procedure, efficient cleaning of metal, plastic, ceramic, alloys etc | | | * Vibronics Pvt. Ltd |
| 24.7 | Vacuum Metallising machine | 30-40 | Compact structure, low energy consumption, small volume and easy operation | | | * Shantou Yuedong Vacuum Equipment Manufacture Co., Ltd. |
| 24.8 | Auto Infrared-Bridge Cutting Machine | 15-20 | High efficiency, Fully automatic crossbeam displacement, Simple and convenient operation, High degree precision, Stable performance, Good adaptability and High reliability | | | * Shanghai Zhongli Machine Manufacture Co.Ltd, HR-MEZE Machinery Co. Ltd. |
| 24.9 | Automatic Cutting Machine | 30-40 | Easy Operation and low maintenance | | | * Navkar Enterprise * Shenzhen HeroLaser Equipment Co.,Ltd * Metal Power Analytical (India) Private Limited |
| 24.10 | Gang saw Machine | 15-25 | Easy to use, glitchfree operation | | | * Shri G.S.Engineers * Shri Krishna Engineers * Techmaxx International |
| 25 | Manufacturing of Electrical Equipments | | | | | |
| 25.1 | Automatic Coil Winding Machine | 15 | Material saving, improve insulation, choice of coil packaging methods | CLCSS | | * Acme Electronics * Coils India * Electromech India |
| 25.2 | Vacuum Impregnation plant | 15 | Reduce rejection, high productivity, longer equipment life | CLCSS | | * Aditya Engineering * CEE DEE Vacuum Equipment Pvt. Ltd. * NACH Engineering Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|---|------------------------------|--|
| 25.3 | Semi Automatic Press | 8-15 | Variable displacement with high performance, high productivity | IS:4592, 15318 | | * Bemco Hydraulics Limited * Ravi Power Press * Singhal Power Press Pvt. Ltd. |
| 25.4 | Automatic CNC Core Cutting Machine | 45-50 | Reduce rejection, high productivity, longer equipment life | | CLCSS | * NRS Welding Technologies * Rishi Laser Ltd. * Vishwakarma Engineering Works |
| 25.5 | Hi Speed Precision Power Press with Computerized Control | 15-20 | High indexing accuracy, less noise & vibration, high productivity, require low maintainence | IS:4592, 15318 | | * Bemco Hydraulics Limited * Ravi Power Press * Singhal Power Press Pvt. Ltd. |
| 25.6 | Vacuum Impregnated Plant | 15 | Reduce rejection, high productivity, longer equipment life | | CLCSS | * Aditya Engineering * CEE DEE Vacuum Equipment Pvt. Ltd. * NACH Engineering Pvt. Ltd. |
| 25.7 | Automatic/CNC Coil Winding Machine | 15 | Material saving, improve insulation, choice of coil packaging methods | | CLCSS | * Acme Electronics * Coils India * Electromech India |
| 25.8 | Temperature Control Drying Oven | 10 | Producue better quality, long equipment life, low heat loss | BS EN 14597:2005 | CLCSS | * GBM Industries * Memco Machinery Mart * Meta Therm Furnace Pvt. Ltd. |
| 25.9 | Amorphous Metal Core Transformers | 70 | Improve efficiency at no & low load condition | IS 2026, 1180, 11171; IEC 60076; ANSI C57.12.20 | CLCSS | * Kotsons * Sigma Electricals * Vijai Electricals Ltd. |
| 25.10 | CNC Core Cutting Machine | 45-50 | High precision & dimentional control of product | | CLCSS | * NRS Welding Technologies * Rishi Laser Ltd. * Vishwakarma Engineering Works |
| 25.11 | Natural Gas Based Oven | 10-15 | Reduction in no load losses, decrerased rejection rate | IS 4473 : 2002 | CLCSS | * Dhanaprakash Industrial Corp. * ENCON Thermal Engineers (P) LTD. * NSW India Ltd. |
| 25.12 | Microprocessor Based Electric Furnace | 10 | High reliability, better quality production, measurement & controls / alarm | IEC 60239 Ed. 4.0:2005 (b), IEC 60676 Ed. 2.0, ISO TC 244, ISO/NP 13577/13578/13579 | CLCSS | * Doshi Technologies Pvt. Ltd. * Electrotherm (India) Ltd. * Tenova Hypertherm Pvt Ltd |
| 25.13 | Plasma Cutting Inverter | 60 | Light weight, more powerful, longer life, higher reliability, quality cutting | | CLCSS | * Arc-Tec Systems Ltd. * Electro-Plasma Equipments Pvt. Ltd * Plasma House |
| 25.14 | Catalytic Enamelling Machine | 30 | Improve product quality, require less manpower | | | * M H Engineering Pvt. Ltd. * Nagpur Krishna Machine Tools Pvt. Ltd. * Paramount Conductors Ltd. |
| 25.15 | Extruder with Temperature Control, Pre-heating, Speed Control | 30-40 | Improve coating for better insulation | | CLCSS | * Fantasy Machine Ltd. * Sai Engineering Company * Sarvav Industrial Corporation |
| 26 | Printing | | | | | |
| 26.1 | Multi Color Offset Machine | 40-60 | High productivity, four color printing in single operation, higher flexibility in operation, require less space | DIN 16 509 | CLCSS | * Japan Usance FLC * Mitsubishi Electric Corporation * Fair Deal Pvt Ltd. * Sahil Graphics * Sud and Waren Pvt. Ltd. |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|---|------------------------------|--|
| 26.2 | Programme Cutting Machine Computerized Control | 60 | Longer equipment life, ease of operation | | CLCSS | * Acme Machinery Company * Senior Print-Pack Machinery Company * Sud and Waren Pvt. Ltd. |
| 26.3 | Fully Automatic Folding Machine with Computer Control | 50 | High productivity, less wastage, low vibration | ISO 9001, ISO 14001 und OHSAS 18001 | CLCSS | * Acme Machinery Company * Sahil Graphics * Suba Solutions Pvt.Ltd. |
| 26.4 | Auto Control Punching Machine with Computerized Control | 10-20 | Better accuracy, smooth operation | | CLCSS | * Creed Engineers Pvt. Ltd. * Ningbo Obinder Co. Ltd. * ZheJiang sini Machinery Co. Ltd. |
| 26.5 | Lamination Machine with Computerized Control | 30-40 | Accurate operation, short chageover time, improve quality, versatile application | | CLCSS | * Hy Tek Print Mac * Macro Print Engineers (India) Pvt. Ltd. * Sheth Printograph Pvt.Ltd. |
| 26.6 | Thermal Lamination Machine Computerized Control | 30-40 | Accurate operation, short chageover time, improve quality, versatile application | | CLCSS | * Fair Deal Engineers * Macro Print Engineers (India) Pvt. Ltd. * Sheth Printograph Pvt. Ltd. |
| 26.7 | Multi Colour Rotogravure Printing Machine | 40 | Enhance printing quality & speed, less rejection, high productivity | DIN 19306-3 (2002-04) | CLCSS | * Alpha Roto Machines Pvt. Ltd. * Fadia Engineers * Jyoti Industries |
| 26.8 | Flexographic Printing Press with Inverter Speed Control | 30-40 | Motor speed control by inverter | | CLCSS | * Alpha Roto Machines Pvt. Ltd. * Jyoti Industries * XL Plastics Ltd. |
| 26.9 | Adhesive Label (logo) Die-cutting | 30-40 | Better accuracy, less wastage, flexible operation | | | * Heilongjiang Xinyuanda international Trade Co. Ltd. * Huali Hongxin Printing Machinery Co. Ltd. * Rui'an City Donghai Printing Machinery Co. Ltd |
| 26.10 | Digital Colour Press | 15-20 | On demand color printing, high quality | IEC 60826-1, CAN/CSA C22.2 No. 60950-1-03 | | * Kodak Graphic * Monotech Systems Ltd. * Xerox India Ltd. |
| 26.11 | Fully Automatic Flat Bed Screen Printing Machine with 12 Colors | 50 | Improve production rate, smooth operation, high precision colour registration | | TUFS | * Indian Textile Engineers * Screenotex Engineers (P) Ltd. * Texprint Engineers (P) Ltd. |
| 26.12 | 8 Colour Paper Printing Machine with Auto Registration System | 50 | Minimise wastage, better printing quality, easy operation | DIN 19306-3 (2002-04) | CLCSS | * Fadia Engineers * Koley Converting Machinery Pvt.Ltd. * Mohindra Mechanical Works |
| 26.13 | Programmable High Speed Cutter | 20-30 | Easy operation and high longevity | ISO 15641:2001 | | * Heidelberg India Pvt. Ltd. |
| 26.14 | Stahlfolder (Folding Machine) | 20-25 | Maximum flexibility and productivity | | | * Heidelberg India Pvt. Ltd. |
| 26.15 | CPT UV Shatter Machine | 15-20 | Its modular platform design enables the UV-Setter to grow with your changing needs, and can be reconfigured and adapted to new operational requirements at any time, easy to operate | | | * basysPrint Headquarters |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|--|----------------|------------------------------|--|
| 26.16 | Violet Photopolymer CTP | 30-40 | High resolution; High sensitivity; Strong developer compatibility; Long run length; Stable quality; | | | * Monotech Systems Limited * Huaguang Graphics Co. Ltd |
| 26.17 | Auto Color Registering Controller | 20-25 | Suitable for Multicolor Gravure Printing Press for Length & Side lays Control. Precise and faster correction | | | * Om Suntronics Converting Equipments |
| 26.18 | Micro Processor Controlled Doctoring Machine | 20-40 | Two servomotor drive system providing the most accurate winding contro | | | * HCI Converting Equipment Co. Ltd. * Ocean Extrusions * Narendragravure |
| 26.19 | Slitting Machine | 40-50 | Two servomotor drive system providing the most accurate winding contro | ANSI B11.14 | | * HCI Converting Equipment Co. Ltd. |
| 26.20 | Automatic Book Sewing Machine | 15-20 | Easy operation, quick make-ready, high quality sewing and high output | | | * Meccanotecnica S.p.A. |
| 26.21 | Flex Printer | 30-35 | Highest printing speed of the same level printer | | | * LIPI Marketing (P) Ltd |
| 26.22 | Coding Machine | 15-20 | Ease of use with advanced vision technology | | | * Videojet Technologies Inc. |
| 26.23 | Ultra Violet Acqua Card Board Varnish Coating Machine | 20-25 | The machine is fitted with roller bearings, which ensure smooth and light running of machine | | | * Guru Nanak Printing Machine Mfg. Co. |
| 26.24 | Ultra Violet Curing Machine along with Infrared Dying | 15-20 | High efficiency and precision functioning | | | * Ultracuring System |
| 26.25 | Web Offset Printing Machine | 15-20 | Automatic adjustment for registration of 4 colours on each side of web, Variable speed motorised dampening, fitted with disconnection clutch | ISO 12647-2 | | * K.K. Printing Machines Mfg. Co. Pvt. Ltd. |
| 26.26 | Digital Inkjet Printer | 30-50 | Simple Design. Lower cost and high quality prints | ISO/IEC 24711. | | * Amont Software & Equipment Pvt Ltd |
| 26.27 | CNC controlled Copam cutting plotter and Photocopier | 35-40 | Stable and high quality | | | * Copam Electronics (Shenzhen) Co., Ltd. |
| 26.28 | Laser Marking Machine | 15-20 | Fast and Accurate Solution | IEC 60825-1 | | * Kirti Lasers |
| 26.29 | Image press | 15-25 | High Productivity, high speed and high image quality | | | * Canon India Pvt. Ltd |
| 26.30 | Canon imageRUNNER ADVANCE | 15-25 | Productive printing, Intuitive user Interface, Multifunctional device | | | * Canon India Pvt. Ltd |
| 26.31 | Canon Oce VP6000 ULTRA LINE | 15-25 | High Productivity | | | * Canon India Pvt. Ltd |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|---|-----------------------------|---|--|------------------------------|--|
| 26.32 | UV Setter CTP | 15-20 | Keyless inking, single fluid system, Less paper waste, Simple press operation with less manning, Less paper waste, Prints on super-calendered and coated stock without expensive dryers, Reduced set-off and show-through- prints on thinner newsprint, Excellent ink consistency. | | | * Brite Offset Printers, Printech Systems |
| 26.33 | Edge Inking Machine | 10-20 | Energy efficient operation with easy change of jigs, Easy system of cleaning and replacement of colour, Adjustable spraying pressure and quantity of colour, Variation of drying time and spraying, Vacuum system of airborne particles of colour, Jigs according to the different types of pieces to work. | | | * Focus Machines India Pvt. Ltd. * Harman * EPM ITALIA MACHINES (P) LTD. |
| 26.34 | Three Color Dimensional Wood Texture Printing Machine with Microprocessor control | 10-30 | Equipped with AC Variable Frequency Drive, All operations run with microprocessor control which ensures automatic operations of machine. | | | * Foshan Babeilan Machinery Co. Ltd., Chuanlong Babeilan Machinery Co. Limited |
| 26.35 | Inking Machine | 30-40 | Low specific power consumption, Wedge inking device by belt, Possibility to die straight, Variable speed, Working adjustment by control panel, Emergency switch, Easy removable of colouring device for cleaning. | | | * Focus Machines India Pvt. Ltd. |
| 26.36 | LP or NG based Gas Dryer | 25-30 | Highest Production Capacity, Temperature Consistency and High Efficiency | CE and UL Compliant, CSA Certified and built to meet or exceed AGA & CGA standards | | * M&R Sales and Services * S. S. Gas Lab Asia * Killburn Engineering Limited |
| 26.37 | Three/ Multi Clamp Perfect Binder | 10-15 | Automatic Glue Temperature Control, Inhouse Perfect binding saves time money, having total control over quality and delivery | | | * Printools Graphics Private Limited * Pressline India Private Limited * Electromech Material Handling Systems (India) Pvt. Ltd. |
| 26.38 | Thermal CTP (Computer-To-Plate) | 30-40 | Increased Productivity, Improved Serviceability, stability, easy maintenance and excellent imaging | | | * M.S.Graphics Pvt. Ltd. * Perfect Graphics Private Limited * Sage Infotech Private Limited |
| 26.39 | UV Dryer | 30-50 | Highest Production Capacity, maximize dryer capacity and minimize per-unit cost | CE & UL compliant, CSA Certified and built to meet or exceed AGA & CGA standards | | * M&R Sales and Service * Sigma Industries * Appeal Print N Pack Systems Inc |
| 26.40 | High Speed offline Three Knife Trimmer with PLC Control | 20-30 | Versatile, Userfriendly, Superior Trim Quality, Ripple free cut | | | * Pressline India Private Limited * Perfecta Schneidemaschinenwerk GmbH Bautzen * Perfect Bindery Solutions |
| 26.41 | High Speed Large Format Printer | | High speed dye sublimation printer, larger capacity ink tanks, equipped with after-heaters | High Speed Prints upto 30.4 SQM/hr; 64 in printing width max; 460W | | * Epson India Pvt. Ltd. |

Chapter 3: Equipment with Less Than 10% Energy Saving

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|----------------|--|-----------------------------|---|--|---------------------------------|---|
| GENERAL | | | | | | |
| A | | Electrical | | | | |
| A.1 | Energy Efficient Motors | 3-7 | Longer life, lesser maintenance, less vibration and high reliability | JISC4212 Over 98 High Voltage, IS 12615, IS 325, IS4722, IEC 34, IEEMA : 19-2000, EFF1, BS EN 60034-1:2004 | | * ABB India * Crompton Greaves * Siemens Ltd. |
| A.2 | Infrared Irradiation | 5-8 | Heats directly the object by radiation thus no energy loss in heating air medium | | TUFS | * Indaid Engineers Pvt. Ltd. * Infrared Systems Pvt. Ltd. * PSI Technologies Inc. |
| B | | Thermal | | | | |
| B.1 | Sludge Combustion Boiler | 5 | Easy and flexible operation, complete inertization of the residues | 40 CFR Part 503, ASME BPVC SEC VIII D1 | MNRE | * Cheema Boilers * Energo Products Pvt. Ltd. |
| C | | Commercial Buildings | | | | |
| C.1 | High Efficiency Automatic Door | 2-3 | Protection from noise, dust & dirt, reduce air conditioning and heating load | JIS A 4721:2005, DIN 18650 | | * Dorma India * HOM Automation * Toshi Automatic Systems |
| C.2 | High Efficiency Automatic Revolving Door | 2-3 | Protection from noise, dust & dirt, reduce air conditioning and heating load | JIS A 4721:2005, DIN 18650 | | * Dorma India * HOM Automation * Toshi Automatic Systems |
| C.3 | Woody Textile Insulator | 5-8 | Highly absorbent, reinforce plastics, excellent acoustic insulation, non- flammable, easy to use, flexible and crack- resistant, ideal for cyclone & earthquake prone areas | JIS, ASTM | | * Danish Wood Insulation * Owens Corning * Surajbhan Commodities Pvt. Ltd. |
| C.4 | Other Building Material Contributing to Increased Heat Insulation Performance of Building & Building Equipment | 5-8 | Reduce heat ingress, make HVAC more effective, resistant to moisture, resistant to air infiltration | IS-3792, JIS, ASTM | | * Dow Chemical Int'l Pvt. Ltd. * Llyod Insulation India Ltd * Owens Corning |

| Sl. No. | Eligible Equipment/ Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--------------------------------|-----------------------------|------------------|----------------|------------------------------|----------------------------|
|---------|--------------------------------|-----------------------------|------------------|----------------|------------------------------|----------------------------|

INDUSTRY SECTORS

| | | | | | | |
|----------|---|-----|--|---|-------|---|
| D | Glass | | | | | |
| D.1 | Insulation for Furnace | 3-9 | Reduce heat loss, improve safety, better temperature control, prevent damage to equipment from exposure to fire or corrosive atmosphere | IS 9428, IS8154, BS3958, ASTM C533-90. AZS refractory bricks supported with Ceramic Fiber | CLCSS | * Lloyds Insulation * Megha Insulation Pvt Ltd. |
| E | Ceramics | | | | | |
| E.1 | Alumina Brick Insulation for Electric Arc Furnace | 3-5 | Reduce heat loss, improve safety, better temperature control, prevents damage to equipment from exposure to fire or corrosive atmosphere | | | * Modern Refractory Erectors |
| E.2 | Improved Insulation for Ring Chamber | 3-5 | Minimizes condensation, Protects air ring chamber | | | * Lloyds Insulation * Megha Insulation Pvt Ltd. |
| F | Pulp & Paper | | | | | |
| F.1 | Conversion to Fluidized Bed Combustion Boiler from Stoker Boiler | 5-8 | Less corrosion and erosion, easier ash removal, low excess air, fast response to load fluctuations, use of low grade fuel | BS EN 45510-3-3:2000 | | * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. * Veesons Energy Systems Private Ltd. |
| G | Foundry | | | | | |
| G.1 | Medium Frequency Induction Furnace (by replacing Arc Furnace or Main Frequency Furnace) | 2-7 | Cost saving by elimination of electrodes | | | * INDOOTHERM FURNACES PVT. LTD. * Magnalenz Furnaces Pvt. Limited |
| G.2 | Induction Melting Furnace for Aluminum | 2-7 | Converts up to 85% of expended energy into useful heat | Design as per requirement | | * Electrotherm Engineering and Project Division * Fluxotherm India Private Limited |
| H | Textile | | | | | |
| H.1 | Synthtic Flat Belt Drives (Replace V-belts) | 4-8 | Extraordinary tensile and high frictional co-efficient, light weight and narrower width reduce shaft load | DIN III, ISO 100 | | * Kwalify Power Ltd. |
| H.2 | Fluidised Bed Combustion Boiler (replacing Stoker Boiler) | 4 | Efficiency improvement by 70-79 | ASTM F1690-96 | | * Elite Thermal Engineers Pvt Ltd. * Energy Process Equipments * MICRO Dynamics Pvt. Ltd. |
| H.3 | Water-tube Boilers (by Replacing Conventional Smoke-tube Boiler) | 2-5 | Higher steam output, higher pressures & higher temperature | UL 2096, ASME BPVC SEC VIII D1 | | * Alidhra Weavetech Pvt. Ltd. * Fire Cad Technologies |

| Sl. No. | Eligible Equipment/Technology | Energy Saving Potential (%) | Other Advantages | Specifications | Financial/ Fiscal Incentives | Name of Equipment Supplier |
|---------|--|-----------------------------|---|--|------------------------------|---|
| H.4 | Energy Efficient Motor | 3-7 | Longer life, lesser maintenance, less vibration and high reliability | JISC4212 Over 98 High Voltage, IS 12615, IS 325, IS4722, IEC 34, IEEMA : 19-2000, EFF1, BS EN 60034-1:2004 | | * Dhara Electricals * Hindustan Electric Motors * Siemens,Siemens Limited |
| I | Engineering | | | | | |
| I.1 | Ceramic Fiber Insulation for Batch Furnaces | 2-4 | Reduce surface temperature, minimised convection & radiation losses, improve safety | | | * Vison Refractories Pvt. Ltd. * Reliable Refractories Pvt. Ltd. |
| J | Auto Components | | | | | |
| J.1 | Conveyoised Powder Coating Curing Oven | 5 | Precise temperature control, longer functionality | ASTM D388-77 | | * A K Enterprises * Red Line Industries Limited |
| K | Mini Steel | | | | | |
| K.1 | Coal Moisture Control System | 6-9 | Improve coal quality | ASTM D3302 / D3302M -09 | | * Ardee Business Services Pvt. Ltd. * Honeywell International India Pvt. Ltd. * Metallon Holdings Limited |
| L | Steel Re-rolling | | | | | |
| L.1 | Provision of IR Sensors for Material Movement | 3-7 | Quality improvement, waste minimization | Meets IP 31, IEC standard | | * Matrusree Electro Heats |
| L.2 | Dry Type Starter for Slip Ring Motor | 4-5 | Simple, easy to understand technology,high reliability, low maintenance | ISO 3046 | | * Hua Sheng Long Electrical Equipment Co., Ltd. |
| L.3 | Liquid and Gaseous Fuel Ratio Controllers (Ratiotrols) | 5-10 | Reduce scale loss | | | * Diligent Micro Controls * Wesman India |
| L.4 | Heating and Pumping Units | 5-10 | Improve combustion efficiency | | | * Encon Thermal Engineers Pvt Ltd * Macro Furnaces Pvt Ltd. |
| L.5 | High Efficiency Burners with Multifuel Capacity | 5-10 | Multi fuel handling capacity | | | * Aerotherm Systems * Wesman India |

Chapter 4: Details Equipment Suppliers

A K Enterprises

147A/1, Girish Ghosh Road
Near Bajarang Bali,Ghusuri
Howrah -711107, Kolkata, West Bengal, India.
Ph: 91-33-26559543, 91-33-26550073,
91-33-30975401, 91-33-30975402

A.S. Precision Machines Pvt. Ltd.

Bhadla Road, Khanna Side,
Mandi Gobindgarh, Punjab, India.
Contact person: Mr. Ajit Singh
Contact no.: +91-9814092073, 9814225847,
Email: asprecision@rediffmail.com
Web: www.asrollingmachines.com

Aalidhra Textile Engineers Ltd.

2, Functional Estate, Road No.6 Udhyanagar
Udhna, Surat-394210 (Gujarat) India
Contact no.e: +91-261-2279520-30
Fax: +91-261-2278789
E-mail: aalidhra@aalidhra.com marketing@aalidhra.com
Web: http://aalidhra.com

ABB India

49, Race Course Road, Bangalore, India.
Contact person: Mr. N. Venu
Contact no.: +91-9845193809, +91-80-22949355
Email: n.venu@in.abb.com
Web: www.abb.co.in

Abrasive Technology

123, Shivrupa Industrial Estate,
L.B.S. Marg, Vikhroli (West),
Bombay - 400 083. INDIA.
Contact no.: 91-22-25779440,
Email: mail@abtechindia.com
Web: www.abtechindia.com

Accurate Engineering Industries

Plot No B7/5, MIDC Area,
Kudal, Dist:Sindhudurg-416550, Maharashtra.
Web: www.aeicasnewmachinery.com

Accupress International Sales Ltd.

5969 156 Street, Surrey,
B.C. Canada V3S 4N8
Contact No.: (604) 970-3540
Fax: (604) 574-2306,
Web Site: www.accupress.com

Ace Designers Limited

Plot No. 7 & 8 Phase II
Peenya Industrial Area Bangalore- 560058
Contact No.: +91-080-22186700
Fax: +91-080-22186723
Email: acesales@acemicromatic.com
Website: www.acemicromatic.com

Acme Electronics

780/A GIDC Industrial Estate Makarpura,
Vadodara - 390 010 (India).
Contact person: Mr. Alpesh Pa
Contact no.: +91-9825153237
Email: sales@acmeengg.com
Web: http://www.acmeengg.com/

Acme Machinery Company

1, Vaibhav Indl. Estate,
Near Contact no.ecom Factory,
Sion - Trombay Road, Deonar, Mumbai-88 India.
Contact no.: +91-22-2551 8978
Email: info@acmemachinery.net
Web: www.acmemachinery.net/

Acmefil Engineering Systems Pvt. Ltd.

Plot No. 535, Phase II, G.I.D.C.,
Vatva, Ahmedabad - 382 445 Gujarat - INDIA
Contact no.efax: + 91 - 79 - 2589 7872 / 2589 0722
Fax: +91 79 2589 0722
E-mail: acmefileng@dataone.in, info@acmefil.co.in
Web: http://www.acmefil.co.in

Acmefil Engineers Pvt. Ltd.

Plot No. 535, Phase II G.I.D.C.,
Vatva Ahmedabad - 382 445 Gujarat - India.
Contact no.: +91-79-25897872/25890722,
Email: info@acmefil.co.in
Web: www.acmefil.com

Acoustic Power Gensets

511, 8-3-945, Srinilaya Estate Ameerpet,
Hyderabad, Andhra Pradesh – 500073
Ph: 040 - 23745489?

Adinath International

4, Sanskar Industrial Estate Beside Kailash Estate
Near SP Ring Road, Odhav Ahmedabad, Gujarat
Ph: +91-79-65422528, 30417528
Email: info@adinath.co.in

Aditya Engineering

Survey No. 33/1/1, D4, Chintamani Residency,
Building D4, Backside of Bharti Vidyapeeth,
A/p. - Ambegoan Budruk,
Pune - 411046. Maharashtra, India.
Contact no.: +91-9822463601, 9767598975
Email: adityaengineering4@rediffmail.com
Web: www.vacuumimpregnationpune.com

ADLEE Powertronic Co. Limited

No.4, Lane 989, Chungshan Rd,
Shenkang, Taichung 429 Taiwan.
Contact no. No : 886-4-25622651
Fax No : 886-4-25628289
Email : webmaster@adlee.com

Advanced Drying Systems

5-B, Madhu Kunj, Vinod Baug,
Upashna Lane, Off Juhu Lane, Andheri (West),
Mumbai - 400 058, Maharashtra, India.
Contact person: Mr. C.R. Kamath
Contact no.: +91-9820000907
Email: kamathcr@yahoo.com
Web: www.advanceddrying.com

Advent Envirocare Technology Pvt. Ltd.

Labh-102, Shukan Towers,
Near Judges' Bungalows, Bodakdev,
Ahmedabad-380054. INDIA.
Contact no.: +91-79-6841282,6840437
Web: <http://www.adventenvirocare.com>

Aerodry Plastics Automation Pvt. Ltd.

F-52, Sector-11,Noida-201301, U.P.
Contact person: Mr. Arun Pundir
Contact no.: +91-0120-4766777
Email: info@aerodry.com
Web: www.aerodry.com

Aerotherm Systems

Plot No 1517, PhasellII, GIDC,
Vatva, Ahmedabad-382445, India.
Web: www.aerithersystem.com

Aerovent Projects Pvt. Limited

A-209, Vardhaman Industrial Complex,
L. B. S. Marg, Vikhroli, (West),
Mumbai - 400 083, Maharashtra, India.
Contact No.: +(91)-(22)-25798653 / 2579854 / 25786222

Agnee Engineering

26,Godavari, Tungareshwar Indl. Complex 1,
Village Sativali, Vasai-(E),
Dist. Thane - 401 202 Mumbai-India.
Contact no.: +91-0250-248 1421
Email: ales@agneeindia.com
Web: www.agneeindia.com

Airtech Cooling Process (Pvt.) Ltd

B-93, Okhla Industrial Area,
Phase-II, New Delhi-110020
Contact No: 011-26385711
Contact person: Mr. Lalit Kumar
Email : info@airtechengineers.com
Web: [http://www.airtechengineers.com/](http://www.airtechengineers.com)

Air Solutions India

102, Nitika Tower- II,
1st-floor, Commercial complex,
Azadpur, New Delhi-110033
Mob: +91 9650207760; +91 9311970820
Email: sales@airsolutionsindia.com

Airer Natura Pvt.Ltd.,

No. 2&3, 4th Main, Airier Complex,
Balaji Layout, Opp TATA Nagar,
Sanjay Nagar, PO Bangalore-560094,
Karnataka, India
Phone: +(91)-(80)-23417353, 23417753, 23410784
Fax: +(91)-(80)-23410784
Mobile: +(91)-9448129045 / 91-9945275853

Ajit Machine Tools Industries

2381,Sewak Pura, Street No.8,
Back Side Dera Kalsian,
LUDHIANA – 141003, Punjab.
Contact No: 0161-2538656 email: amti@ajitmachines.com
Web: <http://www.ajitmachines.com>

Akash Pack tech (P) Ltd.

89, HSIDC Indl. Estate,
Sector-59 Faridabad, Haryana - 121 004, (India)
Call Us : +(91)-9953356919
Email : sales@akashpack.com
Phone . : +(91)-(129)-4155000,4155001,4297700
Fax : +(91)-(129)-2307610
Web: www.akashpack.com/

Alfred Herbert Limited

Whitefield Road, Mahadevapura P.O.
Bangalore - 560 048
Contact No.: 080 2845 2263
Fax : (91) 080 28453023
Email : mfg@alfredherbert.com
Website: www.alfredherbert.co.in

Alidhra Weavetech Pvt.Ltd.

Plot No. 195, Rd 6-F New Estate,
Udyognagar Udhna SURAT, GJ – 394210. INDIA.
Contact No. : +91-261 - 2278674, 2278374
Fax : +91-261 - 2278438
E-mail : info@alidhraweavetech.com
Web: <http://www.alidhra.com>

Alif Ovens

213, B Wing, 2nd Floor,
Kanara Business Centre, Laxmi Nagar,
Ghatkopar East, Mumbai, Maharashtra,
Contact no.:+91-22-25007860 / 25006786;
Fax: +91-22-25007696,
Email: alif@alifindia.com;
Web: www.biscuitplant.in

Alliance Engineers

J-126B, Vishnu Garden, New Delhi, India.
Contact person: Mr. Manjit Singh
Contact no.: +91-9810626661
Email: info@allianceengrs.com
Web: www.allianceengrs.com

Allied Consulting Engineers Pvt. Ltd.

Allied House, Road no. 1, Opp. BMC office,
Chembur, Mumbai-71.
Contact no.: +91-22-25284028
Email: allied@alliedfurnaces.com
Web: www.alliedfurnaces.com

Allied Furnaces Pvt. Ltd.

Allied house, Road No1, Chembur,
Mumbai-400071 www.alliedfurnaces.com

ALPE SPA

Via Noventana No. 18835027,
Noventa Padovana - Padova, Italy.
Contact no.: +39-049-8934400
Email: info@alpespa.it
Web: www.alpespa.it

ALMAC Vadodara

BEI Compound, 78, Chhani Road,
Opp Mona Tiles, Vadodara - 390002
Gujarat, India.
Phone : 91-265-2775300 / 2760400 / 2772500
Fax : 91-265-2775400
Email: sales@almac.in
Website: www.almac-machinery.com

Alpha Roto Machines Pvt.Ltd.

Plot No. 22/B, Survey No. 408/2P,
Sarkhej - Bavla Highway Road.
B/h. Sarvoday HoContact no.,
Near Rotomac Pen, Village - Moraiya
Taluka - Sanand, Dist - Ahmedabad - 382 213.
Contact no.: +91-079- 65121730
Email: sales@alpharoto.com
Web: www.alpharoto.com

Amada (India) Pvt. Ltd.

Address: D - Wing 115, Floral Deck Plaza,
MIDC, Andheri(East), Mumbai 400 093.
Telephone: +91-22- 28395592 / 28235406
Fax: +91-22-28235405
Email: info@amadaindia.co.in
Web: <http://www.amadaindia.co.in/>

AMC-SCHOU AS

Røddikvej 82, DK-8464 Galten,
Denmark Contact No: +45 87545454
Web: <http://www.amc-schou.dk/>

Amazaki Mazak Singapore Pte Ltd

21 Joo Koon Circle,
Singapore 629053
Tel: (65) 6862-1131
Fax: (65) 6861-9284
Email: ymsg_marketing@mazak.co.jp
Web: www.mazak.com.sg

Amco Press System

809, Industrial Area-B
Ludhiana 141-003 Punjab (INDIA)
Tel: 0161-2532938, 2533899, 5121149
Fax: 0091-161-2530324,
Email: info@amcopresses.com; amco@vsnl.com

Amont Software & Equipment Pvt. Ltd.

G-7, Sector-6, Noida, U. P.,
India New Delhi-201301
Tel: 91-120-4251031, 32
Fax: 91-120-4251031, 32
Website: <http://www.aseasia.com>

AMOTO Engineers Pvt. Ltd.

A - 5, Nandkishore Industrial Estate,
Off Mahakali Caves Road, Andheri (E),
Mumbai - 400093 (INDIA)
Contact no.: +91-22-56926020 / 26871177
Fax: +91-22- 26870709
Email: amoto@vsnl.com / zeipl@vsnl.com
Web: <http://www.amotoindia.com>

American International Machinery

7725 South 6th Street Oak Creek, WI 53154

ANCA Machine Tools Private Ltd

#64, Parimala Towers
MES Road, Yeshvantpur, Bangalore – 560 022
Contact No.: +91 80 42198107/108
Fax: +91 80 42198109
Email: indiainfo@anca.com

Anchor Mark Private Limited

Plot No. 101 A, Kandivili Co-Op. Ind Estate Ltd,
Charkop, Kandivili (West), Mumbai - 400067.
Contact No: +91-22-28682001
Email: sales@anchormark.com
Web: <http://www.anchormark.com/>

ANDRITZ Küsters GmbH Eduard-Küsters-Straße

1 47805 Krefeld Germany,
Postal Postfach 101255, 47712 Krefeld, Germany.
Contact No.: +49 2151 34 0
Fax: +49 2151 34 1206
E-Mail: kuesters@andritz.com

Angel India Cad Cam Private Limited

J-21, Udyog Nagar, Rohtak Road,
Nangloi New Delhi, Delhi - 110 041, India
Contact person: Mr. Jugmohan Miglani
Ph.: +(91)-(11)-25487071/ 25487072/ 25487073
Email: jagguleo@aol.com

Ankur Scientific Energy Technologies Pvt. Ltd.

'Ankur' , Near Navrachana School,
G.I.P.C.L Circle,Sama, Vadodara - 390024, Gujarat - India.
Contact person: Mr. Ankur Jain
Contact no.: +91-0265-2793098
Email: ascent@ankurscientific.com
Web: www.ankurscientific.com

Anusam Knitting Mills

Tirupur
Contact No. : +91 421 3200580, +91 4255 255151, +91 4255 255152

Anyang Forging Press Machinery Industry Co., Ltd.

Changjiang Road, High-tech Zone,
Anyang City, Henan P.R. ,China.
Contact person: Ms. Marie Yang,
Contact no.: +86-13949504376
Email: marieyang@chinesehammers.com,
Web: www.chinesehammers.com

Applied Automation Systems Private Limited,

Post Box No. 193,
3rd Floor, Veera Towers,
Near Brooke, Bond, 93,
Krishnaswamy Mudaliar Road Coimbatore,
Tamil Nadu - 641 001, India.
Contact person: Mr. Ravi Chandran D
Contact No. : +(91)-(422)-2542879
Fax : +(91)-(422)-2547346

Arc-Tec Systems Ltd.

501, Prathamesh Tower 'A' Wing,
Senapati Bapat Marg, Lower Parel (W.), Mumbai-400013.
Contact no.: +91-22-24933300
Email: info@arc-tec.in
Web: <http://www.arc-tec.in/>

Ardee Business Services Pvt. Ltd.

Plot No. 1, Siripuram,Balaji Nagar,
Visakhapatnam, A.P., India.
Contact person: Dr. G V Ramana
Contact no.: +91-891-2702852 / 2702853
Email: gsnmur@sancharnet.in
Web: <http://www.ardeebusiness.info/home.html>

AROMA TECH

#23, Railway Feeder Road,
Tirupur - 641 601. INDIA.
Contact no. : 91-421-2200626,
Fax : 91-421-2200436
Email : aroma@aromatech.in & aromatech666@dataone.in
Web : www.aromatech.in

Artisan Engineering Works Street

No-52, Jafrabad, Seelampur,
Delhi - 110053, India.
Contact No.:91-11-22566315/2026056
Fax:91-11-22566315

Asahi Group AIS

Global Business Park, Tower-B,
5th Floor, Mehrauli Gurgaon Road,
Gurgaon, India.
Contact person: Mr. Rakesh Awasthi
Contact no.: +91-9910999124
Email: rawasthi@aisglasses.com
Web: www.asahiindia.com

Ashirwad Industries

Plot No. 1907, Phase II,
G.I.D.C Chhatral - 382729,
Dist: Gandhinagar, Gujarat, India
Web: www.ashirvadind.com

Asia Machines

50, Baleshwar Upan,
Opposite Pokar Timber, Bopal-Ghuma Road,
Ahmedabad - 380 058, Gujarat, India.
Contact No.: +(91)-(281)-2466702
Mobile: +(91)-9824289848 / 9687628899
Email: ragnesh@asiamachines.com

ASIAN Boilers Engineers Pvt. Ltd.

130-A, Golanji Hill Road, Sewree,
Mumbai - 400015, Maharashtra, India.
Contact no. : (022) 24131630 /24130803 / 24131838
Fax : (022) 24139624 / 56602967
E-mail : response@asianboilers.com

Asian Diesel Corporation

No. C-20, Works Center,
DSIDC Comlpex, Kalyanpuri,
Delhi - 110 091. India.
Contact No.: +(91)-(11)-22725153 / 22783052
Mobile: +(91)-9810049163 / 9212069163
Email: dckalyanpuri@yahoo.co.in
Web: adcgensets@yahoo.com

Associated Engineering Works

Gaminini Compound main Road,
Tanuku-534211-AP
Web: www.aewgasifiers.com

Assomac Machines Ltd.

26/2, South of GT Road,
B.S. Industrial Area, Ghaziabad, 201009
Uttar Pradesh.
Contact No: 120-2866505
Email: info@assomacmachines.com
Web: <http://www.assomacmachines.com/>

Atlas Copco India Ltd.

Atlas Copco Unitech Cyber Park - Ground Floor,
Tower C, Sector-39, Gurgaon, India.
Contact person: Mr. Abhijeet Jain
Contact no.: +91-9310955501
Email: abhijeet.jain@in.atlascopco.com
Web: www.atlascopco.com

Atlas Industries

Plot No. 14/1, G.I.D.C. II, Dediyanan,
Mehsana - 384004, Gujarat, India.
Contact no.: +91-98240 40565
Email: contact@atlasindustries.in
Web: <http://www.atlasindustries.in>

Axial Thermal Engineering Company

105-C, Sanganoor road, Ganapathy,
Coimbatore-641006
Contact no.: 91-422-2236475

Axies Industries

C/o Gate No.335, Old Highway,
MIC, G-3 Unique Park,
Subham Residency,
Near Lishan Hotel, Kolhapur, 416005

A Innovative International Ltd.

410, Sampada, Opp. Crossword,
Behind Tulsi Complex,
Mithakali Six Roads, Navrangpura,
Ahmedabad - 380009, Gujarat, India.
Contact No.: +91 79 26565731
Mobile: +91 9825803902
Fax: +91 79 26561238
Email: sales@ainnovative.in

A.S. Precision Machines Pvt. Ltd.

Mr. Ajit Singh / Charan Singh Bhadla Road,
Khanna Side, Mandi Gobindgarh - 147 301,
Punjab (India)
Contact No.: +(91)-(1765)-256737/256075

Aastha Tech

No.1450, MIE, Part B,
Bahadurgarh - 124507, Haryana, India
Contact No.: 91-1276-267392/267277/91-11-23642358
Fax: 91-11-23659850
Mobile: +919891137270

Active Engineering

10, Samarat Industrial Area,
Near S.t. Work Shop Gondol Road,
Rajkot, Gujarat, India - 360004
Contact No.: +91--9227606222
Mobile: +91-9427730718
Email: hbhatt@indientimes.com
Website: <http://www.activeengineering.in>

Advance Heating Systems

207, Vandaman Complex 8,
Facility Center, Mayapuri, Phase-II
New Delhi, Delhi 110064
Mobile: 09810520120

AG Treaters

Contact : B/24, Savitridham,
W.S. Marg, Dahisar (E), Mumbai-400 068,
Maharashtra, India
Contact No.: (022) 65791568 / 28283179
Telefax : (022) 28970079
Contact : Mr. John - Proprietor
Cell : 9821841653
E-mail : response@agtreaters.com

Aifso Enterprises

A/1, Veena Beena Apartments,
Sewri (west), Mumbai-400015, India
Mobile: +91 - 22 - 4130926
Email: aifso@bom3.vsnl.net.in
Web: www.aifso.com

AIM, Inc

502 S. Vista Ave. Addison, IL
U.S.A. 60101-4423
Contact: Constantine Grapsas
Contact No.: 1-630-458-0008
Fax: 1-630-458-0730
Email: sales@aimmachines.com

Ajax Machine Tools International Ltd.

Unit 360 Ampress Lane, Ampress Park, Lymington,
Hampshire - SO41 8JX
Contact No : +44 - 1590 - 676000
Email: sales@ajax-mach.co.uk
Web: www.ajax-mach.co.uk

Akal Induction Pvt. Ltd.

G.T.ROAD, Opp. GNBL College for Women,
G.T. Road, PHAGWARA
Contact No.: 91-1824-503633, 261533
Mobile: 91-9815221313, 9876000013
E-mail: akalind@gmail.com

Al Borj Machinery LLC

Gibca Building, Al Wahda Street,
P.O.Box 28551, Sharjah, United Arab Emirates
Contact No.: +971 6 5333 413
Email: info@al-borj.com
Web : www.al-borj.com

ALMAC Group

BEI Compound, 78, Chhani Road,
Opp Mona Tiles Vadodara - 390002 Gujarat, India
Contact No.: 91-265-2775300 / 2760400 / 2772500
Fax : 91-265-2775400
Email: sales@almac.in
Website: www.almac-machinery.com

AR Engineering

L - 77, Additional M.I.D.C., Satara - 415004, Maharashtra INDIA
Contact No.: +91 - 2162 - 240385,
Email : response@oilfiltrationplants.com
Web: www.oilfiltrationplants.com

Auto Mech Handling Pvt. Ltd.

21 Toh Guan Road East
#09-15 Singapore 608609
Contact No. (+65) 68969258
Fax: (+65) 68770200
Email: enquiry@automechamh.com

Automated Industrial Machinery, Inc

502 S. Vista Avenue, Addison,
Illinois 60101-4423, USA
Phone: +1-(630)-458-0008
Fax: +1-(630)-458-0730

A.V. Engineering Works

12-A, Near Hira Automobile,
Factory Area Patiala - 147 001, Punjab, India
Contact No.: +91-8447574096
Web : www.avfoodmachines.com

Abhimanyu Print Line

Mr. Harendra Manocha (Proprietor)
1C-70, N. H., NIT
Faridabad - 121001, Haryana, India
Call Us: 0953364470
Mobile: +(91)-9810488487 +(91)-9810486487

AGC Industries

Mr. Santosh Tiwari / Mr. Chanderkant Mali (CEO)
C-39, Maruti Industrial Estate,
Kiran Bus Stop, Phase-1, GIDC, Vatva
Ahmedabad - 382445, Gujarat, India
Call Us: 08586966957
Mobile: +(91)-9327940132

Akar Impex Private Limited

Mr. Taral Vaidya,E-9, Sector - 6,
Noida, Uttar Pradesh, 201 301, India
E-Mail : akarimpex@gmail.com, akarimpex@hotmail.com
Phone : +(91)-(120)-4526666 / 4526644 / 4526638
Mobile : +(91)- 9811421458 / 9811431161
Fax : +(91)-(120)-4526638

Allied Consulting Engineers Pvt. Ltd.

Allied House, Road No.1,
Opp. B.M.C. Office, Chembur, Mumbai - 400 071.
Tele No.-+91-22-2528 4028,29,30,31,32, +91-22-6797 3018,19,20
Fax No.-+91-22-2528 3805
Email-allied@alliedfurnaces.com

Andel Equipment Pvt. Ltd.,

Plot No. 298, Industrial Area Phase-IX
Mohali-160062, Punjab, INDIA
Phone:- +91-172-2213861, 3268298,
Fax:-+91-172-2214034
Web: www.andelindia.com
Email: - info@andelindia.com

Apex Technologies,

Mr. Mayank Kaushik (Proprietor)
No. 53, Nadakerappa Industrial Estate,
Andrahalli Main Road, Vishwaneedam Post,
Heggenahalli, Peenya 2nd Stage Bengaluru - 560091,
Karnataka, India
Mobile: +(91)-9844069741
Telephone: +(91)-(80)-28363617

APL Machinery Pvt. Ltd.

Contact Person: Mr. C. P. Paul,
 Plot No.70, Sector-59, HSIDC Indl. Estate,
 Faridabad - 121 004, (Haryana) India.,
 Mobile- (91)-9811016182 / 9560090911
 Phone-(91)-129-4189999 (100 Lines), 2307290 / 91
 Fax-(91)-(129)-2307292 / 4101612
 Email: cppaul@gmail.com aplrajiv@gmail.com

APM Technologies

305 Ashok Bhawan, 93 Nehru Place
 New Delhi-110019, Phone: 011-41631416
 Fax 011-41631454,
 Email: sales@apmtechindia.com|
 Web:www.whitelightscanning.com

Appeal Print N Pack Systems Inc,

Mr. Pritpal Singh (Partner) No. A - 526,
 Shastri Nagar, New Delhi - 110052,
 Delhi, India Mobile- 08373905416,
 Telephone: +(91)-(11)-23641465
 Fax: +(91)-(11)-41600833

Apple Pack Equipments

9/A, Bhagyoday Estate,
 Ajod Dairy Road, Rakhial, Industrial Area,
 Ahmedabad - 380 023. Gujarat, India,
 Mobile No. :- +91 9099935526 (Mr. Bharat Barot),
 Phone No. :- +91 - 79 - 22770475/30417645,
 Fax No. :- +91 - 79 - 2770475,
 Email:sales@multipackmachinery.com

Apson Infotex Limited

A-53, Okhla Industrial Area,
 Phase II, New Delhi -110020
 Tele- 011-26384550
 Fax- 011-26385097

Ashapura Industries

Mr. Rajesh / Mr. Shankar Suthar (Manager)
 C- 23, Maruti Industrial Estate,
 Near Kiran Bus Stop,
 Phase- 1, G.I. D. C. Road,
 Vatva, Ahmedabad - 382 445,
 Gujarat, India
 Call Us: 09953355059
 Mobile: +(91)-9426374090, +(91)-9925034489, +(91)-9428114489
 Telephone: +(91)-(79)-25833849, +(91)-(79)-40087267
 Email: ashapuraind1@sify.com

Ashirvad Industries

Mr. Santosh Tiwari,
 Plot No. - 556, Phase - II, G.I.D.C., Vatva,
 Nr.- Vatva Rly. Station, Ahmedabad,
 Gujarat, India - 382445
 Phone : +91-79-25832072
 Fax : +91-79-25832072
 Mobile : +91-9327840132 / 9327940132
 Web Site :http://www.ashirvad.co.in

Augapac Unit

3a, Ashvale,Bosbury Road,Cradley,
 Malvern,WR13 5LU,01886 880947,
 Email: info@augerpackaging.co.uk

Auto Coat Engineering (I) Pvt. Ltd.

3, First Floor, Bhagyashree,
 Opp. New English School, Ram Maruti Road,
 Thane (W) - 400602.
 Telephone : 91- 22- 25366541,
 Fax : 91- 22- 2543 1035
 Email: ailt0:autocoatbom7@gmail.com

Autotherm Equipments Corporation,

Mr. Albin Suresh (Manager), T.S. - 93,
 S. I. D. C. O. Industrial Estate Coimbatore - 641021, Tamil Nadu
 Mobile: 08376805378,
 Fax: +(91)-(422)-2670004

Avi International Packaging Co.,

Mr. Ajay Bansal (Director) 67/ H - 3,
 Sector - 11, Rohini, Delhi - 110 085 (India),
 Mobile: +(91)-9810822611
 Tele:+(91)-(11)-27551255

B.R.M. Machine Tools

5, Ambica Building, Swathiccomplex,
 K. G. Halli.j. H. West, Bangalore, India.
 Contact person: Mr. Reni Emmanuel
 Contact no.: +91-9448463501
 Email: sales@secengraving.com
 Web: www.secengraving.com

Balaji Engineers

C-26, Shyamdarshan Society,
 Near Bapa Sitaram Chock, Nava Naroda,
 Ahmedabad - 382346, Gujarat, India.
 Contact No.:91-79-22803428
 Fax: 91-79-22803428

Baron Power Ltd

No, 1, Second Cross Street,
 Seethamma Colony Extension,
 Teynampet, Chennai - 600018
 Contact no.: 044-24356383, 044-24356384, 044-24356386,
 044-42131849, 044-42131850, 044-24356385
 Email: corporate@baronpower.com baronpower@vsnl.net
 baronpower@satyam.net.in
 Web: http://www.baronpower.com

Basys Print Headquarters

Punch Graphix International nv,
 Duwijkstraat 17, 2500 Lier Belgium.
 Contact No: +32 (0) 3 443 13 11
 Email: info@punchgraphix.com
 Web: http://www.basysprint.com/

Bel-O-Vac

143 W. Lincoln St., Ste 11,
 Banning, Ca 92220-4527, JB
 Direct Line: 951-741-4822.
 Fax Number: 951-922-1494
 Email: jb@belovac.com

Bemco Hydraulics Limited

Udyambag, Belgaum, Karnataka- 590008, India.
 Contact no.: +91-831- 4219000, 4219008
 Email: marketing@bemcohydraulics.net, engineering@
 bemcohydraulics.net,
 Web: www.bemcohydraulics.net

Bennett Mahler Ltd.

2 Merse Road, North Moons Moat Industrial Estate,
Redditch, Worcestershire, B98 9HL, UK
Tel: +44 (0)1527-64444.
Fax: +44 (0)1527-591668.
Email: sales@bennettmahler.com

Bharaj Machineries Company Pvt. Ltd.

Plot No. 12 & 13, Survet No. 66,
Hissa No. 1/1, Naik Pada, Village-Waliv,
Taluka, Vasai (East), Dist-Thane-401208
Mumbai, Maharashtra, India.
Contact no.: (95250) 2452115, 2452116
Email: info@bharajmachineries.com
Web: www.bharajmachineries.com

Bharat Fritz Werner Ltd.,

Off Tumkur Road, Bangalore, India.
Contact no.: +91-80-28395745, 39821100,
Email: bfwmarketing@bfw.co.in
Web: www.bfwindia.com

Bharat Heavy Electricals Ltd.

BHEL House, Asiad, Siri Fort, New Delhi, India.,
Contact person: General Manager (Hydro),
Contact no.: +91-11- 26001010, 66337000,
Email: km@bhel.in, query@bhel.com,
Web: www.bhel.com

Bharath Engineering Works

1/128,M.C.Road,Near Lord Murugan temple,
Valayampet,Vaniyambadi,
Vellore district, Tamilnadu.,
Contact person: Mr.R. Manoharan
Contact no.: +91-4174-232 155,
Email: info@bharathmachine.com
Web: www.bharathmachine.com

Biesse Manufacturing Co.Pvt. Ltd

Survey No. 32, No. 469,
Jakkasandra Village, Sondekoppa Road,
Nelamangala, Bangalore - 562 123
Contact No.: +91 80 22189801/22189802/22189803
Fax. +91 80 22189810
Email: sales@biessemnfg.com
Website: www.biesse.com

Bloom Combustion India Pvt. Ltd.,

City Centre, Office No. 405 A,
Karve Road, Erandwane, Pune, India.,
Contact person: Mr. Rahul Pathak,
Contact no.: +91-9881001342,
Email: rpathak@bloomeng.com
Web: www.bloomeng.com

Blue Moon Engineering & Manufacturing Company

Rd. No. 6E, Udhna, Udhna Udyog Nagar Surat,
Gujarat - 395 003, India
Contact person: Mr. Shabeer Kalavadwala
Contact No. : +(91)-(261)-2278873/ 2279573
Mobile : +(91)-9825120452
Fax : +(91)-(261)-2274873
Email : bluemoonsrt@hotmail.com, smk@bluemoonmachines. com,
sales@bluemoonmachines.com
Web: http://www.bluemoonmachines.com

Blue Star India

Kasturi Building, Mohan T Advani Chowk,
Jamshedji Tata Road, Mumbai, India.,
Contact no.: +91-22-66654000,
Email: coolingsolutions@bluestarindia.com,
Web: www. bluestarindia.com

Bombay Hydraulic (India),

Street No1, Near A.T.I, Gill Road,
Ludhiana-141003, Punjab, India.
Website: www.bombayhydraulic.com

Bonas Textile Machinery NV,

M. Vandewielestraat 7,
B - 8510 Marke (Kortrijk), Belgium.
Contact No: + 32 56 24 32 11
Web: http://www.bonas.be/

Book Automation, Inc.

458 Danbury Road Unit B10,
New Milford CT 06776
Tel: (800) 429-6305 or (860) 354-7900
Fax: (888) 853-7425 or (860) 201-1470

Borosil Glass Works Limited

Khanna Construction House, 44,
Dr. R. G. Thadani Marg, Worli, Mumbai, India.
Contact person: Mr. Vinayak Patankar
Contact no.: +91-22-24930362, 24930366,
Email: vinayak.patankar@borosil.com, borosil@borosil.com,
Web: www.borosil.com

Bosch Limited

Post Box No. 3000, Hosur Road, Bangalore - 560 030.
Contact No: +91 - 080 - 2299 9233,
Web: http://www.boschindia.com/

Brite Offset Printers

228-231, Kaliandas Udyog Bhavan
Century Bazar Lane, Prabhadevi, Mumbai 400025, India
Contact No. : +91-22-6662-7541
Email : anilshroff@novagrafik.com

BRUSTIA & C. S.p.A.

27029 Vigevano (PV) Italia Via G. Uberti, 11
Contact no.: +39 - 0381-346970
Email: info@brustia.it
Web: www.brustia.it

Bry-air

21 C, Sector 18, Gurgaon - 122015 India.
Contact no.: +91-0124-4091111
Email: enquire@pahwa.com
Web: www.bryair.com

Buhler Druckguss AG

CH-9240 Uzwil, Switzerland.
Contact No: +41-71-9551212
Email: die-casting.info@buhlergroup.com
Web: www.buhlergroup.com

Bullion Flexipack Pvt Ltd

437, GIDC, Makarpura,
Baroda-390 010, Gujarat.
Web: www.bullionflexipack.com

Bajwa Industries

No. 123, Street No. 6, Vishnu Garden
 New Delhi, Delhi - 110 018, India
 Contact Person: Mr. Rajinder Singh (CEO)
 Contact No.: +(91)-(11)-25983225
 Mobile: +(91)-9811267278
 Email: gurudansinghbajwa@yahoo.co.in

Bernur Engineering Machinery Co.

Ceyhun Atif Kansu
 CD. No: 36 / 2 Balgat Ankara,
 Ankara, Turkey 06520
 Phone: (90)-312-3950040
 Fax: (90)-(312)-3950041

Biosafe Solutions

8c1, Offwhite field 875,
 WOC Road, 2STG,
 Modi Hospital Road,
 Mahalakshmpuram Layout, Bangalore
 Contact No.: (080) 65671027

Bluetex Engineering

B-29, Revabhi Industrial Estate,
 Near C. T. M. Cross Road, Amraiwadi
 Ahmedabad, Gujarat - 380 026, India
 Contact person: Mr. Bharat S. Mistry (Manager)
 Contact No.: +(91)-(79)-25857085/ 25856176
 Fax +(91)-(79)-25857085
 Email: bharat_bluetex@indiatimes.com

Bakon USA Food Equipment,

20906 Higgins Ct., Torrance, CA 90501
 Tel: 1 (310)533-3939
 Fax: 1 (310)533-3940

Behringer Saws, Inc.,

721 Hemlock Road, Morgantown,
 Pennsylvania 19543
 Phone: 610-286-9777
 Fax: 610-286-9699

Blenzor India

1-A, 1st Floor, Sharda Mansion,
 Near Chitra Cinema,
 Dr. Baba Saheb Ambedkar Road,
 Dadar (E) Mumbai - 400 014,
 Maharashtra , India
 Tele+91 - 22 - 2417 1515
 Fax+91 - 22 - 2417 1515
 Email- response@ fillingmachinesindia.com

Caelsons Industries

Mr. Nitin D. Naik
 No. 4610, Phase - 4, G. I. D. C.,
 Vatva Ahmedabad - 380 008, Gujarat, India
 Telephone:+(91)-(79)-31134294
 Mobile: +(91)-9825034561

Canara Flex

Opp. Bostik Findley (I) Pvt. Ltd.
 Next to Bommasandra Indl. Area
 Kachanayakanahalli, Bangalore – 562199
 Karnataka.
 Contact No: +91- 80 - 78311113

C&D Paper Co., Ltd

12F, Seaside Building Lujiang Road No. 52 Xiamen,
 Fujian, China 361000
 Tel: (86 592) 2263408
 Fax: (86 592) 2114612
 E-mail: machinery6@chinacnd.com

Carrier Airconditioning & Refrigeration Limited

Delhi - Jaipur Highway, Narsingpur,
 Gurgaon, Haryana, India.
 Contact person: Ms. Himani Jashi
 Contact no.: +91-9873388116
 Email: himani.joshi@carrier.utc.com, bssindia@carrier.utc.com
 Web: www.carrierindia.com

Castfab Engineering India (P) Limited

S.F.No: 610/3A, Goldwins,
 Civil Aerodrome Post, Coimbatore - 641 014
 Contact No. : +91 422 6529280

Caterpillar

(TIL Ltd. - Regional Indian Dealer)
 E4777, Okhla Industrial Area, Phase II,
 New Delhi, India.
 Contact no.: +91-11-2683108, 09.
 Email: til.okhla@tilindia.com
 Web: www.cat.com

CEE DEE Vacuum Equipment Pvt. Ltd.

Plot No. 81-B/16, General Block,
 M.I.D.C., Bhosari, Pune 411 026 Maharashtra (India).
 Contact no.: +91-020-2712 6253
 Email: cedeevacuum@vsnl.com
 Web: http://www.cedeevacuum.net/

CERIM S.p.a.

C.so Novara, 218 - 27029 Vigevano (PV) - ITALY.,
 Contact no.: +39 0381 20905
 E-mail id: info@cerim.com
 Web: www.cerim.com

Century Machines

No. 905- C, Akruti Orchid Park,
 Opposite Vijay Print Stop, Sakinaka, Andheri East
 Mumbai - 400072, Maharashtra, India

Challenger International

269 C, East Mohan Nagar,
 100 Feet Road, Amritsar, Punjab, India.,
 Contact person: Mr. Kuldeep Singh,
 Contact no.: +91-183-2581850, 2581186
 Email: associat2003@ yahoo.com,
 Web: www.challengerpack.com

Changzhou Boer Precision Powder Engineering Co., Ltd.

No. 229 Western Hehai Road,
 Hi-Tech District, Changzhou, Jiangsu, China
 Web: http://czboer.en.made-in-china.com

Changzhou Sanding Machinery Co. Ltd.

1, 2nd floor, Homgmei Technology Park, Changzhou - 2.,
 Contact person: Ms. Cookee Lee
 Contact no.: +86-519-83022055,
 Web: http://www.tradekey.com/profile_view/uid/2829084/
 Changzhou-Sanding-Machinery-Co-Ltd.htm

Changzhou Wujin East Fibre Non-weaving Machinery Co. Ltd.

Zhensheng Village, Lijia Town,
Changzhou, China
Tel : +86-519-86731336
E-mail : sales@cnfjx.com
Web : www.cnfjx.com

Charika Industries

495, Industrial Area - B, Ludhiana - 141003,
Punjab, India.
Contact person: Mr. Purish Singla,
Contact no.: +91-9417058656
Email: info@charikaindustries.com
Web: www.charikaindustries.com

Chitra Precious

4809, Phase 4, GIDC,
Nr. Water Tank Vatva, Ahmedabad-382445,
Gujarat (INDIA);
Ph: +91-079-25840026;
Email: contact@chitramechtech.com

Chirag International

No. 63/ 1, S. N. Puram, Trichy Road,
Chinthamanipudur Post,
Behind Saraswathi Hospital, Coimbatore - 641 103,
Tamil Nadu, India
Contact No.: +(91)-8447557804
Email: chiraginternationalcbe@gmail.com
Web: www.chiraginternational.co.in

Cheema Boilers

S.C.O. 523 - 24, Sector 70, SAS Nagar,
Chandigarh, India.
Contact person: Mr. Harjinder Singh Cheema
Contact no.: +91- 172-5090487, 5055666
Email: info@cheemaboomers.com
Web: www.cheemaboomers.com

Chuam Lih Fa Machinery Works Co., Ltd

No.17, Lane 360, Chung Cheng S. Road,
Yen-Hang, Yuen-Kang City, Tainan,
Taiwan 71008 R.O.C.,
CONTACT NO. : 886-6-2532111,
Web: www.clf.com.tw

Chuanlong Babeilan Machinery Co. Limited

No. 69 Xixian Road, Ganjiao Industrial,
Lishui Town, Foshan, Guangdong-528 244, China
Contact No.: 0757-85661557
Email: chuanlongjixie@yahoo.com
Web: www.nhchuanlong.com

Chugai Ro Co. Ltd.

3-6-1 Hiranomachi, Chuo-ku,
Osaka 541-0046, Japan
Phone: +81-6-6221-1251
Fax: +81-6-6221-1411
Website: http://www.chugai.co.jp/

Citrix R&D India Pvt Ltd.

69/3, Millers Road Bangalore - 560052, India.
Contact no.: +91 80 41341000,
Web: http://www.citrix.com/

Citizen Machinery UK Ltd.

9A Navigation Drive,
Hurst Business Park, Brierley Hill
West Midlands DY5 1UT
Contact No. : 01384 489500
Email : sales@citizen-miyano.co.uk
Web : www.citizen-miyano.co.uk

CMS Industries

via A. Loca Contact no.li, 49 24019 Zogno (BG) Italy
Contact No: +39.0345.64111,
Email: cms@cms.it
Web: www.cms.it

CNP Engineers

313, Kohinoor Bldg.,
Opp. Daily Prabhat Near Vijay Talkies,
Narayan Peth, Pune - 411030, Maharashtra.
Contact No: 020-24480976,
Email: response@cnpengineers.com
Web: http://cnpengineers.com/

Coils India

1, 9th cross, Manjunatha Nagar Magadi Road,
Bangalore - 560 023 Karnataka India.,
Contact no.: +91-98444 60305
Email: enquiry@coilsindia.com

COLLI FGB S.R.L.

Via Russo Vincenzo 25 - 27029
Vigevano - Italia
Contact No.: +39 0381 84022
Fax: +39 0381 78393
E-mail: collifgb@collifgb.it

Colt India Pvt. Ltd.

205 Amrapali Plaza, E-2, Amrapali Marg
Vaishali Nagar, Jaipur – 302021 Rajasthan, INDIA.
Contact no.: Office : 91-141-3244191, 4028542
Mobile : 09314509340
Contact no.efax : 0091-141-2357974
Email: enquiry@coltindia.net

Condux Tesmec, Inc.

145 Kingswood Drive, Suite 1,
PO Box 668 Mankato, MN 56002-0668 U.S.A.
Phone: 1-507-387-6576
Email: info@conduxtesmec.com
Web : www.conduxtesmec.com

Cosmos Impex India Pvt. Ltd.

COSMOS HOUSE, 85/2 Atladra,
Padra road, Vadodara - 390012
Contact person: Mr. V. Nagesh
Contact no.: +91-265-3927000 / 98980-74696,
Email: sales@cosmos.in
Web: www.cosmos.in

Creative Engineering

D-422/1, 10th Main Road,
Peenya 2nd Stage Bangalore - 560 058
Mob: +91 9900243781
Contact No.: +91 80 41170509
Email: creativeengineering@rediffmail.com
Website: www.creativeengg.in

Creed Engineers Pvt. Ltd.

4/37, Pace City Phase-1, Gurgaon-122004
 Contact person: Mr. Ramesh Bajaj
 Contact no.: +91-9811043825
 Email: ggn@creedemail.com
 Web: www.creedengineers.com

Crestron Electronics India Pvt. Ltd.

D-6, Sector - 61, Noida, Uttar Pradesh, India.
 Contact no.: +91-120-4276297
 Email: india@crestronasia.com
 Web: www.crestron.com

Crompton Greaves Limited

CG House, 6th Floor,
 Dr. Annie Besant Road, Worli, Mumbai - 400 030, INDIA.
 Web: www.cglongline.com

CS Aerotherm Pvt. Ltd.

103, Shresta B Homi 87,
 K.R. Road, Bangalore, Karnataka – 560004
 Contact No: 080-6506066

Cummins India Ltd.

Power Generation Business Unit,
 35A/ 1/ 2, Erandawana, Pune, India
 Contact person: Mr. Ajay Dusane
 Contact no.: +91-9822192240
 Email: ajay.a.dusane@cummins.com
 Web: www.cumminspower.com

Canon India Pvt. Limited

2nd Floor, Tower A&B
 Cyber Greens, DLF Phase -III Gurgaon-122002, Haryana
 Contact No.: +(91) 9811772945

Cimtrix Systems Pvt. Ltd.

No. 16, 2nd SBI Colony Koramangala
 IIIrd Block Bangalore-560 034
 Phone: 080-5521754, 5522323

Combustion Research Associate

A-52 Sector 83, Phase-II Noida 201305 (U.P) India
 Contact No.: (+91-120) 3078777(6 Lines)
 Fax: (+91-120) 3078781
 Email: crasave@vsnl.net; info@combustionindia.com

Copam Electronic (Shenzhen) Co., Ltd.

9F, No.413, Bagua 4 Rd, Shenzhen, China
[Http://www.copam-electronic.com](http://www.copam-electronic.com)
 Ms. Amy Yang
 Contact No.: +86-755-82449891
 Fax: +86-755-82423574
 E-mail: isaiah@copam-electronic.com

Coptech Engineering

Plot No. 147, Sector- D,
 Sanwer Road, Indore - 452001
 Madhya Pradesh
 Contact No.: 91-731-4268635
 Web: <http://www.coptechengineering.com/>

Cimtrix Systems Private Limited

Mr. Omkar Upadhyay (General Manager) Bengaluru,
 Karnataka, India 08447546065

Dahching Electric Industrial Co., Ltd.

311-2 Kangkou Village, Anting Dist.,
 Tainan City, Taiwan
 Contact No.: 886-6-5932646
 Web : www.welding-machine-dahching.com

Daikin Airconditioning India Pvt. Ltd.

12th Floor, Building No. 9, Tower A, Cyber City,
 DLF Phase- III, Gurgaon, Haryana, India.
 Contact person: Mr. Sanjeev Gianchandani,
 Contact no.: +91-124-4555444
 Web: www.daikinindia.com

Daikin Industries Ltd.

Umeda-Center Bldg, 4-12, Nakazaki-Nishi,
 Kita-Ku, Osaka, 530-8323, Japan
 Phone : +81-6-6373-4351
 Website: www.daikin.com

Dalal Engineering Private Limited

Village Kavesar, Thane-Ghodbunder Road,
 Thane, Maharashtra - 400 601, India.
 Ph: +(91)-(22)-25976201 / 25976202

DaLian Rubber & Plastics Machinery Co. Ltd.,

Zhoushizi Square, Dalian, China
 Contact No: 0086-411-6651697,
 Email: sale@dprpm.com
 Web: <http://www.dlrpm.com/>

Daljit Engineering Works

880, Industrial Area-A,
 Near Powerhouse,
 Ludhiana, Punjab, India.
 Contact person: Mr. Kamaljit Singh,
 Contact no.: +91-9814097185, 9855108655,
 Email: info@daljiteengineering.com,
 Web: www.daljiteengineering.com

Damle Clay Structural(P) Ltd.,

'Anant', Plot No. 98, Lane 5,
 Natraj Society, Karvenagar,
 Pune - 411 052
 Web: www.damleclaystructural.com/

Danish Wood Insulation

Bjørn Henriksen, Vindingvej 4, Bryrup, Denmark.
 Contact no.: +45-21448021, 87982210,
 Email: info@feelingwood.com,
 Web: www.danishwoodinsulation.dk/engelsk/index.html

Darshini Engineers

Plot No. 5227/A, Phase 4,
 G.I.D.C., Ahmedabad, Gujarat, India
 Contact no.: +91-79-65456412
 Email: praghera@sify.com,
 Web: www.darshiniengineers.com

Dawei Induction Heating Machine Co. Limited

No153, Road Nortt ChongQing,
 QingDao, ShanDong, China
 Contact no.: +86-131-55965571
 Fax: +86-799-7232075,
 Email: inductionheating@gpgyjr.com.cn, admin@gpgyjr.com.cn,
www.gpgyjr.com.cn/ www.induction-heating.com.cn

Deep Furnaces

Works: Plot No. 33, HSIIDC,
Sector-59, Faridabad-121 004, Haryana (INDIA)
Contact No.: +91-129-4013558, 4016559
Fax: +91-129-2307558
Email: deepfurnaces@gmail.com, info@deepfurnaces.com

Delair India Pvt. Ltd.

Web: <http://www.delairindia.com/>

Devindra Industries

3857, New Janta Nagar,
Opp. I.T.I., Gill Road, Ludhiana, Punjab, India.
Contact person: Mr. Kuldeep Singh Jhans
Contact no.: +91-161-2491453, 2491956,
Email: dbolt@rediffmail.com, dbolt@sify.com
Web: www.davindra.com

Devrekha

A-2, 6/102, GIDC,
Sachin - 394230. (GUJ.) INDIA
Contact no. : +91-261-2398881/2398882
Mobile : +91-9374508711
Fax: +91-261-2398883
Email : info@devrekha.com
Web : www.devrekha.com

Dezhou Yaxing Textile Machinery Co.Ltd.

China (Mainland)
Contact no.: 0086-0534-8943823
Mobile:13053410857

Dhanaprakash Industrial Corp.

Plot No L-34/2, MIDC,
Kupwad, Sangli 416436, Maharashtra, India
Contact no.: +91-233-2645701,03,04
Email: dhana@dhanaprakash.com
Web: <http://www.dhanaprakash.com/>

Dhanaprakash Industrial Corp.

Plot No L-34/2, MIDC,
Kupwad, Sangli 416436, Maharashtra, India
Contact no.: +91-233-2645701,03,04
Email: dhana@dhanaprakash.com
Web: <http://www.dhanaprakash.com/>

Dhara Electricals

Ahmedabad
Ph: 079-5830941

Dhiwren Hydraulics

Moynagarh, Ganipur,
Maheshtala, Kolkata, India.
Contact person: Mr. Satyajit Ghosh
Contact no.: +91-9830236622
Web: www.dhiwrenhydraulics.tradeindia.com

D.H. PANCHAL . & CO

Block No: A-2 ,Hiraji Estate No. 2,
Opp.Ajmeri Sahakari Udyognagar,
Dhobighat, Dudheshwar Road, Ahmedaba - 380 004
Contact No : +91 - 079 - 25625298
Fax : +91 - 079 - 25625298
E-mail : info@dhpanchal.com
Website: www.dhpanchal.com

Diligent Micro Controls

Bhatia Compound No-2,
Lal Bahadur Shastri Marg, Thane-400602
Web: www.diligentmicrocontrols.com

DISA India Ltd.

Regd. & Corporate Office, 5th Floor,
Kushal Garden Arcade,
1A, Peenya Industrial Area,
Peenya 2nd Phase, Bangalore - 560 058.
Ph: 080 4020 1400 to 04
Fax 080 2839 1661
Email: bangalore@disagroup.com

DMG India Pvt. Ltd.

64, Jalahalli Camp Cross,
Off MES Road,
Yeshwanthpur
Contact no.: +91-80-41131281
Email: info@dmgindia.com
Web: www.dmgindia.com

DMG Mori Seiki India Machines and Services Pvt. Ltd.

502, 5th Floor, Plot No. D-9,
Gopal Heights, Netaji Subhash Place Pitampura,
Delhi - 110034, India
Phone: +91-11-46469600
Fax: +91-11-46469615
Web : in.dmg.com

DMT Hydraulics

A-11, Export promotion Industrial,
U.P.S.I.D.C. Shashtripuram, Agra, U. P.
Contact person: Mr. Rajendar Singh
Contact no.: +91-9897070440, +91-562-2510693,
Email: rsingh@dmtleathersmachines.com
Web: www.dmtleathermachines.com

Dorma India

14, Patullos Road, Mount Road,
Chennai, Tamil Nadu - 600 002- India.
Contact person: Mr. Raghunandan
Contact no.: +91-9342209752,
Web: www.dormaindia.com

Doshi Associates

976/6 GIDC, Makarpura,
Baroda - 390010, Gujarat, India.
Contact no.: +91 265 264 4458,
Mobile: 98240 97502
Fax: +91-265 265 3173

Doshi Technologies Pvt. Ltd.

863/6- G.I.D.C. Makarpura,
Vadodara, Gujarat, India.
Contact no.: +91 265 263 4985
Email: doshi@doshiassociates.net
Web: <http://www.doshiassociates.net/>

Doshi Technologies Pvt. Ltd.

863/6- G.I.D.C. Makarpura,
Vadodara, Gujarat, India
Contact no.: +91 265 263 4985,
Email: doshi@doshiassociates.net
Web: <http://www.doshiassociates.net/>

Dow Chemical Int'l Pvt. Ltd.

Corporate Park, Unit No. 1,
V. N. Purav Marg, Chembur,
Mumbai, India.
Contact no.: +91-22-67978553, 25245830 (extrn. 553)
Email: zansari@dow.com
Web: www.building.dow.com/ap/in/

Dresser Waukesha

1101 West St. Paul Avenue,
Waukesha, WI 53188-4999 U.S.A.
Contact No: 262-547-3311
Web: <http://www.waukeshaengine.com/>

DSR Power Systems

HNo-2-4-1074/3, Samatha Nagar,
Mamathanagar X Road,
Nagole (Near Uppal),
Hyderabad, Ranga Reddy Dist- 500017
Andhra Pradesh, India
Contact No./Fax: 040-66807399
Mobile: (0) 9246888812

Dukhiram Maurya Engineering & Refractory Works (INDIA) Pvt. Ltd.

B-304, Universal Business Park,
Kamani Oil Mill Road, Chandivali,
Andheri, Mumbai - 400 072, India.
Contact person: Mr. Rajnath Maurya,
Contact no.: +91-9820512934
Email: response@dukhiram- enggfurnace.com,
Web: www.dukhiram-enggfurnace.com

Dyna Creation Pvt. Ltd.

M-576, 1st Floor, Guru Harkishan Nagar,
Paschim Vihar, New Delhi-110087
Contact No: +91-11-65496285
Email: dynacreation@air
Web: <http://www.yufong.com/>

Dynamech Engineers

214, Palsikar Colony, Indore,
Madhya Pradesh-452 004, India.
Web: www.dynamechengineers.net

Dynaspede Integrated Systems (P) Limited

508 Pragathi Tower 26, Rajendra Place,
New Delhi-110 008
Web: www.dynaspede.com

Daviz Solution Enterprise

Lot 756, Jalan Subang 6,
Taman Perindustrian Subang Selangor,
Malaysia-47500
Contact Person: Mr. Subang Jaya
Contact No.: (60)-(176)-750964

Dreamworld Enterprises

Email: drmworldent@yahoo.com
Dynaspade Integrated Systems Pvt Ltd.
508 Pragati Tower 26 Rajendra Place
New Delhi 110 008
Contact No.: +91 11 2572 9172, 2573 1830
Telefax +91 11 2572 4973
E-mail: delhi@dynaspede.com

Delta International

Mr. M. N. Sarwar (CEO),
No. 409, Sangeet Plaza,
Near Fire Brigade, Marol Naka,
Andheri East, Mumbai - 400059,
Maharashtra, India
Mobile: +(91)-9820034476
Telephone: +(91)-(22)-29208380
Fax: +(91)-(22)-66989767

Deveshi Engineering

Mr. Shailesh Patel (Director)
B- 5, Maruti Estate, Near Choksi Tube,
G.I.D.C., Phase - 1, Vatva
Ahmedabad - 382345, Gujarat, India
Call Us: 09953364202
Mobile: +(91)-9558615744
Email: patelshailesh.deveshi@gmail.com

Dhanlaxmi Industries

Mr. Mihir Bhalodiya / Dinesh Bhalodiya (Proprietor)
No. 77/2, GIDC, Kaka Estate,
Near National Plastic, Appa Hotel,
Ambicanagar Road, Odhav
Ahmedabad - 382415, Gujarat, India
Call Us: 08586968859
Mobile: +(91)-9375951420, +(91)-9374857720
Telephone: +(91)-(79)-22892905

Direct Color Systems

99 Hammer Mill Rd.Rocky Hill,
CT USA 06067-3771
Toll Free: 888-204-8089
Fax: +1 860-829-2255

Dukane Intelligent Assembly Solutions

2900 Dukane Drive St. Charles, IL 60174
USA,Phone: 630-797-4900
Fax: 630-797-4949
Email: ussales@dukane.com

East Coast Magnets Pvt. Ltd.

44/1/6, IDA Phase I, Jeedimetla,
Hyderabad, Andhra Pradesh - 500 055
Contact No: +91 (0) 40 2309 8262
Email: info@sardamagnets.com
Web: [http://sardamagnets.com/](http://sardamagnets.com)

Eastman Exports

(A Division of Eastman Exports Global Clothing Pvt Ltd.,)
5/591, Sri Lakshmi Nagar,
Pitchampalayam Pudur, Tirupur 641 603, INDIA
Contact No. : +91-421-4301234
Fax : +91-421-4301205
Email : eman@vsnl.com
Web: <http://www.eastmanexports.com>

Eclipse Combustion Pvt. Ltd.

Plot No. 3/B, D-1 Block,
Chinchwad Indl. Area, Chinchwad,
Pune, Maharashtra- 411019. India.
Contact person: Mr. V.R. Kulkarni
Contact no.: +91-9371233523
Email: vkulkarni@clipsenet.com
Web: www.clipsenet.com, www.eclipseindia.com

Economode Food Equipment Pvt Ltd

B-6, 5 Acre, Kothari compound,
Tikuji- Ni- Wadi Road, Manpada,
Thane -400 607, Maharashtra
Web: www.economode.in

Eddymelt

C-87 M.I.D.C. Hingna Industrial Estate,
Nagpur, Maharashtra – 440025
Contact person: Mr. Anand Ganu
Contact No.: +91-9226595148
Email: eddymelt@yahoo.co.in
Web: www.eddymelt.com

Electricoil Super Thermal Engineers

151, Small Factory Area,
Bhandara Road, Nagpur – 440008.
Contact no.: +91-712-2767998
Email: electroilngp@gmail.com
Web: www.electroil.com

Electroil

151, Small Factory Area,
Bhandara Road, Nagpur - 440008
Contact no.. : + 91 - 712 - 27679

Electropneumatics & Hydraulics Pvt. Ltd.

Pune
Mobile: +91 (0)9011038280, +91 (0)9011038279
Email: spares@electropneumatics.com

Electromech India

4, Subramanyaoura Post,
Uttarahalli Road Bangalore - 560 061 INDIA.
Contact person: Mr. Ragunath,
Contact no.: +91-80-2666 1200/ 2666 3005
Email: emech@blr.vsnl.net.in,
Web: www.electromechindia.com

Electronica HiTech Engineering Pvt. Ltd.

Elektra Chambers, 44, Mukundnagar, Pune, India.
Contact person: Mr. Sarang S. Sirdeshpande
Contact no.: +91- 9373569711,
Email: sss@electronicahitech.com
Web: www.electronicahitech.net

Electro-Plasma Equipments Pvt. Ltd.

104 Acme Industrial Park, I. B. Pa
Contact no. Rd, Goregaon (E), Mumbai - 63, India
Contact no.: +91-22-40203456,
Email: sales@airplasma.com
Web: <http://www.airplasma.com>

Electrotherm (India) Ltd.

72, Palodia, Via Thaltej,
Ahmedabad - 382115, Gujarat, India.
Mr. Suneel Kulkarni : +91-9909963280,
Email mkt@electrotherm.com
Web: www.electrotherm.com

Electrotherm Engineering and Project Division

102, Padamarao Nagar,
Laxmi Apartment, Sec'bad –500 003
Mobile : 098480 72870
Email: electrothermsouth@electrotherm.com

Electromech Material Handling Systems (India) Pvt. Ltd.

Plot No. 1, Gat No. 316, At Post Kasar Amboli Tal. Mulshi,
Dist.Pune 412 111, INDIA
Telefax : +91-20-6654 2222
Email: cranes@emech.in

Elegant Engineers

C - 58, Sec-57,
Noida-201301, Uttar Pradesh, India
Contact person: Mr. Atul Kant / Mr. Sandeep Agrawal
Mobile : +(91)-9810146982
Phone : +(91)-(120)-4226660 / 4226680
Fax : +(91)-(120)- 4337501
Web: www.elegantengineers.com

Elite Thermal Engineers Pvt. Ltd.

Hall No. 2, "C" Wing,
Shree Balwant Niwas, 1846/47, Sadashiv
Peth, Pune, India.
Contact person: Mr. Amol Atre
Contact no.: +91-9225534088,
Email: elitethermal@vsnl.net, amolatre@etepl.com
Web: www.elitethermal.net

Eltech Engineers

A-108, Diamond Industrial, Estate,
Ketkipada Road, Near Toll Naka,
Dahisar East Mumbai, Maharashtra - 400 068
Contact No: 022-28972424,
Email: rajesh@eltech.in
Web: <http://eltech.in/>

Elumatech

Elumatec GmbH Pinacher Strasse 61
D 75417 Mühlacker - Lomersheim
Tel: +49 (0) 7041 14 0,
Fax: +49 (0) 7041 14 280
Email: mail@elumatec.de

Encon (India)

2B/06 Shivkripa, N.C. Kelkar Road,
Dadar(West), Mumbai 400028
Contact no.: 91-22-24306578,
Email: enconindia@vsnl.com
Web: www.encongroups.com

Encon Furnaces (P) Ltd.

14/6, Mathura Road,
Fridabad-121003, Haryana, INDIA.
Web: www.enconindia.com

ENCON Thermal Engineers (P) Ltd.

297, Sector-21B,
Faridabad-121 001, Haryana, India
Contact person: Mr. Puneet Mahendra
Contact no.: +91-9971499079
Email: pm@encon.co.in
Web: www.encon.co.in

Energo Products Pvt. Ltd.

E-42/2, Okhla Industrial Area,
Phase-II, New Delhi, India.
Contact no.: +91-11-30854900, 01, 02
Email: energo@energoindia.com
Web: www.energoindia.com

Energy Machine

444, IV th Phase GIDC,
Vitthal, Udyognagar-388 121,
Anand, Gujarat India
Contact no.: +91-2692-232662
Email: response@thermicfluidheater.com
Web: www.thermicfluidheater.com

Energy Process Equipments

Vadodara - 391 243, Gujarat, India.
Contact No.: +(91)-(265)-2830375 / 2830373

Epcos India Pvt. Ltd.

Ph: 91-80-40390615

EPM Italia Machine Pvt. Ltd.

RR-4, Anandapur, East Kolkata Township,
Kolkata - 700107, West Bengal, India
Contact person: Mr. Soumen Bagchi
Contact no.: +919830328297
Web: www.epm.in

Erhardt Leimer

Albert-Leimer Platz 1 Stadtbergen,86391, Germany
Tel: +49 821 2435 0, +49 821 2435 100
Email: info@erhardt-leimer.com

Europack Machines (India) Pvt. Ltd.

52, Bindal Industrial Estate,
Sakinaka, Andheri (East),
Mumbai 72, India
Contact no.: 2 852 6477, 2 850 2151
Fax: 9122+5 694 2977
Email : europack@vsnl.com

Excel Airtechnics (P) Ltd.

B-10, Nethrambigai Apartments.
15, Vembuliamman Koil Street,
K.K.Nagar West,
Chennai - 600078, Tamilnadu, INDIA
Contact no.fax : +(91)-(44)-23640757, 23640408
Email :excelairtechnics@vsnl.net
Contact person: Mr.M.Janakiraman
Web: www.excelair.co.in

Excel Machines India

H-60, M.I.D.C., Waluj,
Aurangabad - 431136,
Maharashtra, India
Contact no.: +91-9325212290
Email: response@excelmachineindia.com
Web: www.excelmachineindia.com

Elgi Equipments Ltd.

Elgi Industrial Complex Trichy Road,
Singanallur, Coimbatore - 641 005, India
Contact No.: (91) (422) 2589555
Fax: (91) (422) 2573697
Email: enquiry@elgi.com

Encon Enginers

224 Race Course Towers (W)
Baroda - 390015
Gujarat, India
Contact No.: 0265 – 338799, 333199 (R)

Energy Mission Engineers

87/1, Phase I, Opp. Neeka Tube,
G.I.D.C. Vatva, Ahmedabad - 382445
Contact No.: +91 - 79 -65436237
Fax : +91 - 79 -25840067, 258330913
Mobile : 9824303302 , 9824477764
Email : info@energymission.com
Web : www.energymission.com

Fadia Engineers

9, Boscovilla Flat,
Opp: Management Enclave,
Nehrupark, Vastraput,
Ahmedabad - 380015
Contact No: 079-55452111
Email: info@fadiaengineer.com
Web: www.fadiaengineer.com

Fadia Engineers

B-1, 90/6, B/H. Satyam Weigh Bridge,
Near Niku Tube Char Rasta, Phase-1, GIDC, Vtva,
Ahmedabad - 382445, Gujarat, India
Contact person: Mr. Vipul Fadia
Contact no.: +919898523254
Email: vaidy@subasolutions.com
Web: http://www.fadiaengineer.com/

Fair Deal Engineers

66, Ram Sarup Colony,
Mujessar, Near Sector-24,
Faridabad – 121 005, Haryana, India.
Contact no.: +91-9810608509 / 9810158509
Email: info@fairprintindia.com
Web: www.fairprintoffset.com

FangHua Leather Machine Co. Ltd.

Bailian Industrial District, Ruian City,
Wenzhou, Zhejiang, China.
Contact no.: +86-13736708822
Email: fanghuachina@gmail.com
Web: www.leather-machinery.com

Fantasy Machine Ltd.

Shed No. 9, Pradhan Market,
Chandra Vihar, Nilothi Ext. New Delhi-110041
Contact person: Mr. R K Mohanani
Contact no.: +91-9811011157
Email: fantasyltd@gmail.com
Web: www.fantasy.net.in

Fanuc Corporation

Oshino-mura, Yamanashi Prefecture 401-0597,
Japan
Tel: +81-555-84-5555
Fax: +81-555-84-5512

Ferromatik Milacro

209/29 Link Road,
Lajpat Nagar-III, New Delhi-24.
Web: www.milacronindia.com

Fire Cad Technologies

1-51-5/2, Plot 86/1,
Sector-1, MVP Colony,
Visakapatnam - 530017

Floveyor

Phone: +61 8 9378 3333
Email: sales@floveyor.com

Flowmech Engineers (P) Ltd.

No. C-196/2, IInd Floor,
Mayapuri Industrial Area,
Phase-II, New Delhi - 110 064, Delhi
Contact person: Mr. A. K. Mittal
Contact No: 011-28116456
Email : flowmech@air
Web: www.hydraulicpressnet.com/

Fluidtherm Technology Pvt. Ltd.

SP132, III Main Road,
Ambattur Industrial Estate,
Chennai, India.
Contact no.: +91-44-26357390, 26357391
Email: info@ fluidtherm.com,
Web: www.fluidtherm.com

Fluor Daniel India Pvt. Ltd.

DLF Square, 14th Floor,
Jacaranda Marg, DLF City,
Phase - II, Gurgaon, India.
Contact no.: +91-124-2560651, 4570700,
Web: www.fluor.com

Fluxotherm India Private Limited

138, SIDCO Industrial Estate,
Near By Patravakkam Railway, Station,
Ambattur, Chennai - 600 098, Tamil Nadu, India
Contact No.: +(91)-(44)-26248666 / 26248777

Focus Machines India Pvt Ltd.

C-32, Sector-10, Noida-201 301,
Gautam Budh Nagar (U.P.) INDIA.
Contact no.: +91-120-2532101,
Email: info@omacindia.com
Web: www.focusmachines.net

Food & Biotech Engineers (I) Pvt. Ltd.

Chaprola Road, Prithla,
Tehsil-Palwal, Distt. - Palwal,
Pin: 121102 Haryana (India)
Contact No.: 01275-262157, 262158
Fax : +(91)-01275-262259
Email : info@foodbiotech.co.in
Website: www.dairyfoodtech.com

Forbes Marshall

Manufacturing and Head Office,
P B # 29, Mumbai-Pune Rd.,
Kasarwadi, Pune - 411 034
DID: 91 (0) 20-27149012,
Contact no. : 91 (0) 20-27145595 / 39858555,
E-mail :ccmidc@forbesmarshall.com.

Corporate Office Thermax Ltd.

Thermax House, 14
Mumbai-Pune Road,
Wakdewadi, Pune 411 003,
Contact no.: 91-20-66051200/25542122,
Fax: 91-20-25542242,
www.forbesmarshall.com

Force Motors Ltd.

Mumbai-Pune Road Akurdi,
Pune 411035 India.
Contact person: Mr.Sunil Dhadiwal
Contact no.: +91-9822094713
Email: sdhadiwal@forcemotors.com
Web: www.forcemotors.com

Foshan Babeilan Machinery Co., Ltd.

No.69 .Ganjiao Industrial,
Xixian RD, Lishui Town. Nanhai.
Foshan, China (Mainland)
Contact No. : +86-757-85661557
Email : chuanlongjixie@yahoo.cn
Web : www.nhchuanlong.com

Foshan Jutong Industrial Furnace Co., Ltd

Junlan Junling Rd.,Beijiao, Shunde, Foshan, China
Mobile: 13928209750
Tel: 86-757-22398827
Fax: 86-757-22398827

Foshan Nanhai Weiao Machinery Co. Ltd.

Building C, No. 8 South Honggang Industrial Avenue,
Lishui Town, Nanhai District, Foshan City, China
Contact No.: (86)-757-85664923
Fax: (86)-757-85603003
Email: nhsxj@21cn.com
Website: www.aluminiummachines.com

Foundmatic Engineers

St. Thomas Street, Santhosh Nagar,
Kandhanchavadi, Chennai - 600 096, Tamil Nadu, India
Contact No.: +(91)-(44)-24961683 / 24961683 / 65492916 /
24960950

Frick India Limited

809, Surya Kiran, 19 K. G. Marg, New Delhi 110 001
Ph : 23322381/384/391, 23738693/694,
Fax : 011-23322396.,
Email: delhi@frick.co.in

FTL Foundry Equipment Ltd.

Designers & Suppliers of Moulding & Material Handling Systems
6-11 Riley Street, Willenhall,
West Midlands WV13 1RH England.
Contact No.: (+44) (0)1902 630222
Fax: (+44) (0)1902 636593,
Email: sales@ftl-foundry.co.uk
Web: www.ftl-foundry.co.uk

FUJI Electric India (P) Ltd

509-510, Meadows, Sahar Plaza,
JB Nagar, Andheri Kurla Road,
Andheri East, Mumbai - 400 059
Phone no : 022-4252 4850/ + 91 99103 22011 / +91 99675 42795
Email: pinal-mehta@fein.fujielectric.com, info@fein.fujielectric.com
Web site : www.fujielectric.co.in

FUJI Electric India (P) Ltd

920A, Galleria Towers
DLF Phase 4, Gurgaon – 122 002
Phone no : + 91 98101 06905
Email add : bk-sengar@fein.fujielectric.com
Web : www.fujielectric.co.in

Fung Chang Industrial Co.

No. 9, Shih Chi Tzu, Kaoping Village,
Lungtan Hsiang Taoyuan Hsien, 325 Taiwan, R.O.C.
Contact no.: 886-3-4717824 / 4717825 / 4717453
Fax: 886-3-4717702 / 4580170
Web: <http://www.fungchang.com>

Flowmaster Limited

The Maltings, Pury Hill Business Park,
Alderton Road, Towcester
Northants, NN12 7TB, UK
Contact No.: +44 (0) 1327 306000
Fax: +44 (0) 1327 306020

Fast Construction

Mr. Sikandar Hussain (Proprietor)
A-206/6, Mahak Apartment,
Shalimar Garden Extension- 2,
Sahibabad, Ghaziabad - 201005, Uttar Pradesh, India
Call Us: 08377809480
Mobile: +(91)-9650398786, +(91)-9810384091
Telephone: +(91)-(120)-2630280
Fax: +(91)-(120)-2630280

Feaster India

4, Jai Malhar Shed, Eastern Express Highway,
Kurla Signal, Chembur,
Mumbai - 400071,
Maharashtra, India
Mobile -+91 9821423131,
Tele-(022) 25223700
Email-response@feaster-shende.com

Flexicon Liquid Filling

Watson-Marlow Flexicon A/S Frejasvej 2-6
DK-4100 Ringsted
Denmark, Phone-+45 5767 1155,
Fax:+45 5767 0541,
Email:flexicon@flexicon.dk

Fuel Instruments & Engineers Private Limited

Mr. Rajendra Malgave (Manager)
Kolhapur, Maharashtra, India
Mobile: +(91)-9822394981

Fuji Electric

Gate City Ohsaki, East Tower,
11-2, Osaki 1-Chome, Shinagawa-Ku,
Tokyo 141-0032, Japan
Web: <http://www.fujielectric.co.jp>

G.S. Machineries

No.6, Thiruveeka Nagar, Jothipuram,
Coimbatore - 641047, Tamil Nadu, India
Contact No.:91-422-6583752
Fax:91-422-4274584

Galaxy Machines

Gat No.1567, Shelar Vasti,
Behind Agarwal Industrial Estate,
Chikhali, Pune - 412114, Maharashtra, India
Contact no. No : +91-20-32510600
Mobile: 09823834421, 09823364421
Email: [galaxymachi@yahoo.co.in](mailto:gallant@galaxymachine.com)
Web: response@galaxymachine.com

GALLANT Equipment Pvt. Ltd.

104M, Karunamoyee Ghat Road,
Micheal Madhusudan Park,
Kolkata-700082, West Bengal, India
Contact No. : + 91- 33- 24029656 / 9657
Email: gallant@powdercoatindia.com

Gayatri Electrotech Co. Pvt. Ltd.

2791 1/2, Varuntirth Ves, Shivaji Peth,
Kolhapur, Maharashtra, India.
Contact person: Mr. Deepak Deshpande
Contact no.: +91-9422406549, 9527003272
Web: www.gayatrielectrotech.tradeindia.com

Gayatri Engineering Works

13-14, Milan Estate,
Opposite Kwality Ice Cream
Contact Person: Nr. Nagarwel
Hanuman, Amraiwadi,
Ahmedabad - 380 026
Tel: +(91)-(79)-22741897
Email: inquiry@papadmachinery.com

GBM Industries

RZ-B27, Dabri Extn.
East New Delhi - Delhi, India
Contact person: Mr. Manish Verma
Contact no.: +91-9810773597
Email: mverma@gbmindustries.com
Web: <http://www.gbmindustries.com/>

GE Consumer & Industrial India

The Millenia, Level 6,
Tower B, 1 & 2, Murphy Road,
Ulsoor, Bangalore, India
Contact person: Mr. SN Sharma
Contact no.: +91-80-41434000
Email: query@ge.com
Web: www.gelighting.com

GEA Refrigeration India

Pune, India.
Contact person: Mr. Rohit Arora
Email: rohit.arora@geagroup.com
Web: www.gearefrigeration.com

Genca Inc.

9600 18th St. North,
St.Petersburg, FL 33716, USA
Contact person: Ms. Ellie Andrade
Contact no.: 1-727-489-1164
Email: eandardae@genca.com
Web: www.genca.com

Genest Engineers

16, Maharashtra Society,
Mithakhali, Ellisbridge, Ahmedabad - 380006. India
Contact No. : +91 79 2646 3038
Email: info@genestengineers.com
Web: www.genestengineers.com

Glass & Glazing technologies (India) Pvt Ltd.

302, Raheja Plaza, Off Andheri Link Road,
Andheri (W), Mumbai - 400 053
Web: www.glassprocess.com

Global K Associates

Plot A-100/2, D.P.S Society, Flat # B-503,
Noida, Uttar Pradesh.
Web: www.gkpackagingmachines.com

Gold Plus Group

Gold Plus House, G-192,
Prashant Vihar Delhi, India
Contact no.: +91-11-47000500, 27564007
Email: info@goldplusgroup.com
Web: www.goldplusgroup.com

Goodlife Technologies Pvt. Ltd.

A-20, Sector-58,
Noida – 201301 Uttar Pradesh, India.
Contact No.: 91-120-2490141

Gopi Engineering Works

2/72, M.C. Road, Madanur, Vellore District.
Tamilnadu, Pin-635 804, India
Contact person: Mr. J.Ganesh Moorth
Contact no.: + 919443256280
Email: sales@gopiengineeringworks.com
Web: www.gopiengineeringworks.com

Green Power International Pvt. Ltd.

E-12/A, Sector - 63, Noida, India
Contact person: Mr. Sanjeev Puri
Contact no.: +91-9818313779
Email: sanjeev.puri@greenpowerintl.com
Web: www.greenpowerintl.com

GRIGGIO SPA

Via C Brion,
40, Reschiglano di Campodarsego,
Padova, Italy – 35011
Contact No: +39 049 929.9711
Web: <http://www.griggio.com/>

Guleryuz Tannery Machinery Ltd.

Bergama cad. Camii Kebir Mah.
Uluylol Mevkii Menemen-Izmir, Turkey
Contact person: Mr. Ali Guleryuz
Contact no.: +90-232-8329462
Web: www.guleryuzmakina.com

Guru Harkrishan Hydraulics

F-578-580, Sanjay Gandhi Memorial Marg,
Badhkal Road, N.I.T
Faridabad-121001, India
Web: www.guruharikrishanhdraulics.com

Gurucharan Industries

C-155, Industrial Estate, Baikampady,
New Mangalore – 575011, Karnataka.
Contact No: 0824-2409556
Email: gurucharanindia@dataone.in
Web: enquiry@gci-india.com

GURUSON International

2512/10 (9B/3),
Industrial Area-A Extension,
Backside R.K. Machine Tools,
Ludhiana - 141003, Punjab, India
Contact No.: 91-161-5056246/5015297

Gayatri Control and Automation Private Limited

No. 29, Krishna Estate,
Near Cadmach, Phase IV,
G. I. D. C., Vatva Ahmedabad,
Gujarat - 382 445, India
Contact person: Mr. Jignesh Pandya
Contact No.: +(91)-(79)-25840686 / 25841836
Mobile: +(91)-9825387551
Fax No: +(91)-(79)-25840686

Gennext Control

Sr.No.84, A Wing, 3rd floor, Flat No.7, Dhone Height,
N.D.A.Road, Nr.Shinde Bridge, Shivne, Ta-Haveli
Pune - 411023
Contact No.: 020-64703009

Genphoal Optical Technology Co. Ltd

Lingdihu Industrial Park,
Luoyang Town Boluo County Guangdong Province, China
Contact No.: (086)-(752)-6222709, (752)-6226627
Fax: (086)-752-6228599
Email: sales@genphoal.com
Web: www.genphoal.com www.genphoal.en.alibaba.com

Guangzhou Jasu Precision Machinery Co., Ltd.

Dong Sha Industrial Estate,
Yin Bin Road, Dong Huan Street,
Shi Qiao Town, Pan Yu District, Guangzhou, China
Guangzhou, Guangdong, China (Mainland),
Contact No.: (86)-(20)-84669409, 13928704560

Guru Nanak Printing Machines Mfg. Co.

59 , East Mohan Nagar, Industrial Area,
Amritsar - 143006 (India)
Contact No.: +91-0183-2582511, 2580914, 5061139
Fax: +91-0183-2580914
Email: gurunanakmachines@vsnl.com

GWO Ling Machinery Co., Ltd.

No.39, Hwa Ya 2nd Rd.,
Kuei Shan Hsiang. Tao Yuan Hsion 33383, Taiwan
Contact No.: 886-3-397-5899
Fax: 886-3-397-9600
E-mail: gwoLING@ms39.hinet.net

GOM mbH

Mittelweg 7-8,38106 Braunschweig,
Tel.: +49 531 390 29 0,
Fax.: +49 531 390 29 15,info@gom.com

Govind Mill Stores

Mr. Pramod Khandait
Utkarsh Chambers, Below Saoji Hospital,
Darodkar Square, Central Avenue
Nagpur - 440 002, Maharashtra, India
Mobile: 09953364998
Fax: +(91)-(712)-2766512

Grauer & Weil India Ltd.

Mr. Mukesh Talgaonkar,
Akurli Road, Kandivali (E),
Mumbai - 400 101,Maharashtra,
Tel. : 91-22-66993000,
Fax : 91-22-66993010
Email :hq@growel.com

Grundfos Pumps India Pvt Ltd.

Grundfos Head office - Grundfos Pumps India Pvt. Ltd.
No 118, Old Mahabalipuram Road,
Thoraipakkam, Chennai-97
Tel: +91 44 4596 6800
Toll Free: 1800 - 345 - 4555
Fax: +91 44 4596 6969
Website:<http://www.grundfos.in/>

Haian Baixie Forging Hammer Co. Ltd.

No.6 Yangmanhe Industrial Park,
Haian, Jiangsu province, China.
Contact no.: +86-513-88838848
Email: zcl@baixie.com
Web: www.forging-hammer.com

Haier Appliances India Pvt. Limited

B-1/A-14, Mohan Co-operative Industrial Estate,
Mathura Road, New Delhi, India.
Contact no.: +91-11-66214000, 5000
Email: info@haierindia.com
Web: www.haierindia.com

Han jie Machinery Co. Ltd.

No.1-83, Gangkou Anding Township
Tainan County 745, Taiwan
Tel: 886-6-5932525
Fax: 886-6-5931539
Email: hanjie.bender@gmail.com; sales@hanjie.com.tw

Hanshin Engineering Co., Ltd.

2-26-7 Shikanjima, Konohana-ku,
Osaka, Japan - 554-0014
Tel: 81-6-6464-6551
Fax: 81-6-6461-6555
Website: <http://www.hanshin-pm.co.jp/>

Harbin Machinery Imp. & Exp. Co. Ltd.

188, Harbin, Heilongjiang, China
Contact person: Mr. Xu Joe
Contact no.: +86-13945073339
Email: zgx6868@hotmail.com
Web: www.cmchrb.en.busytrade.com

Hari Machines Limited

Sugam Business Park,
7th Floor, J-6 Block EP & GP,
Sector-5, Salt Lake City, Kolkata, India.
Contact person: Mr. Nirmal Sanyal
Contact no.: +91-33-30925000 to 5004
Email: hml@harimachines.in, hmlkol@harimachines.in
Web: www.harimachines.com

Hari Industries

C/104,"Sopan", Opp. ICICI Bank,
New C.G. Road, ChandKheda,
Ahmedabad-382424, Gujarat

Harish Tex-Mach Pvt. Ltd.

Plot No. 65, Vishwa Gulab, 1st Floor,
N.S. Road No.1, Juhu Scheme,
Vile Parle (W), Mumbai – 400056
Contact No: +91-22-2612 4180
Email: sales@harishworld.com
Web: <http://www.harishworld.com/>

Havells India Ltd.

E-1 ,Sector 59, Noida -201307 UP India
Contact person: Mr Sunil Sikka
Contact no.: +91-0120-2477777
Email: sunilsikka@havells.com
Web: www.havells.com/

HCI Converting Equipment Co. Ltd.

26, 7th Road, Taichung Industrial Park Taichung, Taiwan
Contact No: 886-4-23590632
Email: alan@hci-tw.com.tw
Web: <http://www.hci.cc/>

HCS Enterprises

F-53, Kushak Road No-2
Near Gurudawara, Saroop Nagar, Delhi
Web: www.hcsenterprises.com

Heatech Engineers

33/3 C, Ganesh Layout, Nallampalayam,
Ganapathy Post Coimbatore - 641 006, Tamil Nadu.
Contact No.: +(91)-(422)-6576521
Mobile: +(91)-9791713389
Email: [ceo@heatecheng.com,](mailto:ceo@heatecheng.com)

Heidelberg India Pvt. Ltd.

333 GST Road, Jameen Pallavaram Chrompet,
Chennai - 600 044.
Contact No: 044-43472000
Email: vilasini.ravikumar@heidelberg.com
Web: www.in.heidelberg.com

Heilongjiang Xinyuanda International Trade Co. Ltd.

No. 28 Nanshi Street Mudanjiang City Heilongjiang Province
Zip code: 157000
Contact person: Ms. Alice
Contact no.: +86-453-6256122
Email: hljxyd2009@126.com
Web: www.xysljx.com

Henan Gelgoog Commercial & Trading Co. Ltd.

Changzhai
Tel: 0086-371-86110690
Fax: 0086-371-86110692

Henan Pingyuan Mining Machinery Co. Ltd.

289 Huanghe Avenue, Xinxiang, Henan,
China (Mainland) - 453700
Tel:86-373-5799198
Fax:86-373-5071699

Hi Tech Cooling Systems

4510,GIDC, Ankleshwar, Gujarat, India
Contact person: Mr. Pravin Pa
Contact no.: +91-9428324770
Email: info@hitechcooling.com
Web: www.hitechcooling.com

HIC Print Pack Machine

6-7, Gokal Ka Bagh,
100 Feet Road Amritsar - 143 001, Punjab, India
Contact person: Mr. Khushvinder Singh
Contact no.: +91-9417205595 / +91-9780258148
Email: harjindra@glide.net.in
Web: <http://www.printingpackingmachinery.com/>

Hikari KikaiSeisakusho Co.,Ltd.
 8-1 Nakano, Ishinden, Tsu, Mie 514-0112 Japan
 Telephone +81-59-227-5511
 Fax +81-59-227-5514
 E-mail: hkr-kn@ztv.ne.jp
 Web: <http://www.hikarikikai.co.jp/>

Himalyan Equipment Manufacturing Co.
 Plot No G-5, UPSIDC Industrial Area,
 Sarojni Nagar, Lucknow, Uttar Pradesh
 Web: www.hemco.in

Hindustan Electric Motors
 Mumbai
 Ph: 28201316, 28360651, 28380080, 28380081

Hitachi Industrial Equipment Systems Co. Ltd.
 3rd Floor, ABW Elegance Tower,
 Jasola District Centre,
 New Delhi 110 025, India
 Contact person: Mr. Piyush
 Contact no.: +91-11-4060 5252
 Email: singh@hitachi.co.in
 Web: www.hitachi.co.in

Hitachi Hi-Rel Power Electronics Pvt. Ltd.
 B-52, 5th Floor, "Corporate House",
 Nr. Judges Bunglow, Bodakdev,
 Ahmedabad - 380 054, Gujarat
 Telephone No. :079 - 66046 200
 Fax No . :079 - 66046 201
 Email :contact@hitachi-hirel.com
 Web: <http://www.hitachi-hirel.com/>

Hitachi Home & Life Solutions (India)
 Ltd. A-15, Mohan Co-operative Industrial Estate,
 Mathura Road
 New Delhi, India
 Tel No. 011- 26991361/62/63

Hitachi Industrial Equipment Systems Co., Ltd.
 AKS Building, 3, Kanda Neribei-cho,
 Chiyoda-ku, Tokyo, 101-0022, Japan
 Tel : 81(3) 4345-6067
 Fax : 81(3) 4345-6914
 Web: <http://www.hitachi-ies.co.jp/>

Hitachi Zosen Corporation
 7-89, Nanko-kita 1-chome,
 Suminoe-ku, Osaka 559-8559, Japan
 Phone: +81-6-6569-0001
 Fax: +81-6-6569-0002
 Website: <http://www.hitachizosen.co.jp/>

HOLZHER
 5120 Westinghouse Blvd,
 Charlotte, NC 28273, USA
 Contact No: (704) 587-3400
 Email: sales@holzher.com
 Web: <http://www.holzher.com/>

HOM Automation
 109 Pocket-1, Jasola, New Delhi 110025
 Contact no.: +91-9958560764
 Web: <http://www.homautomation.com/>

HOMAG India Pvt. Ltd.
 Head Office & Knowledge Centre,
 No.88 Industrial Suburb,
 II Stage, Tumkur Road, Bangalore 560022
 Contact No.: +91 80 23575421
 Fax: +91 80 23475426
 Email: info@homagindia.com
 Website: www.homag-india.com

Honeywell Automation India Ltd.
 56 & 57, Hadapsar Industrial Estate,
 Hadapsar, Pune
 Contact No: 020-662039400,
 Web: www.Honeywellautomationindia.com

Honeywell International India Pvt. Ltd.
 1st floor, Unitech Trade Centre,
 Sushant Lok, Phase I, Gurgaon, India
 Contact person: Mr. Shobhit Taneja
 Contact no.: +91-124-6715000
 Email: shobhit.taneja@honeywell.com
 Web: www.honeywell.com/sites/india

Horizon Fuel Cell Technologies Pvt. Ltd.
 51, Science Park Road 04-23,
 The Aries, Singapore Science Park II,
 Singapore -117586
 Contact no.: +91-65-6872 9588
 Email: sales@horizonfuelcell.com
 Web: www.horizonfuelcell.com

HPP Energy (India) Pvt. Ltd.
 G 21, Sector - 63, Noida,
 Uttar Pradesh, India.
 Contact person: Mr. Divyankur
 Contact no.: +91-120-4699111
 Email: divyankur@hppenergy.com, contact@hppenergy.com
 Web: www.hppenergy.com

HSD S.p.A.
 Via della Meccanica, 16, 61100 Pesaro (Italy)
 Contact No: +39 0721 439638
 Email: supporthsd@hsd.it
 Web: <http://www.hsd-hitec.com/>

Huali Hongxin Printing Machinery Co. Ltd.
 Linxin Industry Zone Ruian Zhejiang 325200
 Contact no.: +86-577-65161186/65161187
 Email: master@rahongxin.com
 Web: www.rahongxin.com

HUICHENG Vacuum Technology Co. Ltd.
 Yanwu Village, Dalingshan Town,
 Dongguan - 523000,
 Guangdong, China.
 Contact No.: 86-769-85611172
 Fax: 86-769-85611411

Hy Tek Print Mac
 1442/1456, 3rd Main, Magadi Main Road
 Bengaluru - 560 091, Karnataka, India
 Contact person: Mr. Farhad Tayeb
 Contact no.: +91-9448489618
 Email: fshawpurnwala@yahoo.co.in
 Web: www.ahyprintmac.com

Hydromech Automation Pvt. Ltd.

WZ-3158/A, Mahindra Park,
Rani Bagh New Delhi - 110 034, India
Contact person: Mr. D. S.Tanwar
Contact no.: +91-11-27014283
Email: hydroautomation@indiatimes.com
Web: www.hydraulics-india.com

Hypertherm, Inc.

P.O. Box 5010, Hanover, NH 03755 USA
Contact No: 603-643-3441
Email: technical.service@hypertherm.com
Web: http://www.hypertherm.com/

Hangzhou 3King Air-Conditioning Equipment Co. Ltd.

West No.10,North Hongda Road,Qiaonan Block,
Economic and Technological Development Zone Hangzhou,
Zhejiang, China (Mainland) - 311231
Contact No.: 86-571-82696998
Mobile: 86-13735466566
Fax: 86-571-82697595

Hangzhou Hongli Machinery Co. Ltd.

Hangzhou City Zhejiang-310026
Fax: (86)-(0571)-82777070

Hindustan Plastic & Machine Corporation

5, Category II, DSIDC Industrial Area Nangloi, Delhi-110041
Contact No : 011-25473361,25471114,
E-mail : info@hindustanplastics.com
Web : www.hindustanplastics.com

Honest Machinery Pvt. Ltd.

P.O. Box No. 24, Main Road,
Near Bank of Baroda, Bardoli -394601,
Dist: Surat, Gujarat, India
Tel: 91-2622-651594
Email: info@honestpapermachines.com
Web: http://www.honestpapermachines.com/

HR-MEZE Machinery Co. Ltd.

Buxin Industrial Area,
Nanhai, Foshan,
Guangdong, China
Contact No : +86-757-83651595
Email : hrmeze@163.com
Web: www.hrmeze.com

Hua Sheng Long Electrical Equipment Co. Ltd.

(Exporter, Manufacturer)
#3 Helanshan Road,
The Middle Path of Huanghe Street,
Qinhuangdao,China (CN)
Contact Person: Mr. Ada Zhang
Contact No.: +86 0335 – 5301093
Fax: +86 0335 – 8515333

Huanghua Weichang Woodworking Machinery Co. Ltd.

Web site: http://huanghua-weichang.en.ywsp.com

Hydromech Automation Pvt. Ltd.

WZ-3158/A, Mahindra Park, Rani Bagh,
Delhi - 110034, India
Contact No.: +91-11-27014283
Web: www.hydromechautomation.com

Hari Impex

B. Mehta & Company Mr. Bhavin Mehta (CEO)
A - 401, Gokul Gaurav Shivaji Road,
Kandivali West Mumbai - 400 067, Maharashtra, India
Mobile: +(91)-9820700489
Tele: +(91)-(22)-28610021

Harshika Industries

Mr. Harshad Gopalan (Proprietor)
No. 5, Near Dwarka Industrial Estate,
Naikpada, Valiv Road, Vasai East
Thane - 401208, Maharashtra, India
Mobile- +(91)-9869457909,
Telephone: +(91)-(250)-3297100

High Mech Industries

Mr. Chintan Panchal (Proprietor) Ahmedabad,
Gujarat, India
Mobile: +(91)-9998421463

Hines Industries

240 Metty Drive
Ann Arbor, MI 48103-9498, United States
Phone: +1 (734) 769-2300
Fax: +1 (734) 996-9192

IDMC Limited

Plot No. 124-128, GIDC Estate
Vithal Udyog Nagar - 388121 Gujarat
Contact No.: +91-2692-236375, 225399
Fax: +91-2692-236164
Email: idmc@idmc.coop
Website: www.idmc.coop

I.M.F.

832/8, 3rd Main Road OMBR Layout,
Banaswadi, Bangalore – 560043
Contact No: 080-42921818
Email: admin@imfindia.in
Web: http://www.imfluiuo.it/

Indaid Engineers Pvt. Ltd.

C22 to 24, Industrial Plots,
Mugappair West, Chennai - 600 058
Tamilnadu
Contact person: Mr. K. Kalyan Sundaram
Contact no.: +91-044-26243396
Email: info@indaid.com
Web: www.indaid.com

Indian Textile Engineers

C-1, B-4, 'F' Road, Opp. B.O.B., Phase – I,
G.I.D.C, Vatva,
Ahmedabad – 382445. (Guj) India
Contact no.: +91-79-5830192
Email: iteabd1@dataone.in
Web: www.indiantex.com

Indotherm Furnace and Engineers

Indotherm House 12/13,
Swami Vivekanand Nagar,
Mhada Colony, Pawar Nagar, Thane (west) 400 602
Contact no.: +91-22-21730857/28553222
Email: contact@indotherm.com
Web: www.indotherm.com

INDOTHERM Furnace Pvt. Ltd.

6B, Bondel Road, Ground Floor,
Kolkata 700019, India
Contact No. : +91 033 22809560 / 22809853

Inductotherm (India) Pvt. Ltd.

Shri Kishorebhai D. Vyas Building,
Bopal, Ahmedabad 380 058 Gujarat, India
Contact No.: +91-2717-231961,
Email:iil@inductothermindia.com
Web: www.inductothermindia.com

Industrial Electrical Corporation

602, Phase - IV, GIDC Vatva,
Ahmedabad, Gujarat, India
Contact person: Mr. Mahendra Pa
Contact no.: +91-79-25831047
Email: mn_ppk@bsnl.in, info@servostabilizers.com
Web: www.servostabilizers.com

Infinite Energy Pvt. Ltd.

1 floor,"Baba house",
149 A, kilokri, Opp. Maharani Bagh,
New Delhi 110014
Contact no.: +91-9212084933
Email: infenergy@gmail.com
Web: www.infiniteenergyindia.com

Info

641 Avenue of the Americas
New York, NY 10011,
Tel: +646-336-1700
Toll-free: 866-244-5479

Innovative Technologies

50 / A, Shankar Estate, Revabhai Estate Road,
C.T.M. Amraiwadi, Ahmedabad - 26, INDIA
Contact person: Mr. Arvind Motka
Contact No.: +91-98253 98702
Fax : +91- 79- 2586 0943
Email : info@innovativetechnologies.co.in
Web: www.innovativetechnologies.co.in

Insulation Associates

402/B, GIDC, Phase-II,
Near Water Tank, Vatva,
Ahmedabad, India
Contact person: Mr. Zalak Kaushik
Contact no.: +91-9879514648, 9824021589
Email: info@insulationassociates.com
Web: www.insulationassociates.com

InContact no.ux Electronics Pvt. Ltd.

Unit 2, Electronic Co-Op Estate,
Pune-Satara Road, Pune, India
Contact no.: +91-20-24223734, 82, 83
Email: marketing@in
Contact no.uxindia.com
Web: www.inContact no.uxindia.com

International Copper Promotion Council (India)

602, Omega, Hiranandini Gardens,
Powai, Mumbai – 400076
Contact no.: 022-66937989
Web: www.cooperindia.org

ITL Industries Ltd.

111, Sector -B, Sanwer Road Indore,
M.P. 452 015, INDIA
Tel: 91-(731) - 3044400, 409
Fax: 91-731-2722372, 2721110
Email: itlindia@sancharnet.in info@itlindustries.com

INKCUPS Now,

25/A7, Aranmanaipudur
1st street, Tirupur 641604
Telephone: 91-421-2212233 / 2213344
Web: sundar@cassanovaagroup.com

Intech Surface Coating Pvt. Ltd.,

Mr. Kishor Chavan
S. No. 1073/1, 2, 3, Mutha Road,
Pirangoot Pune - 411001, Maharashtra, India
Call Us: 08376807731
Mobile: +(91)-9011040964
Telephone: +(91)-(20)-66570100
Fax: +(91)-(20)-66524695

IPK Packaging (India) Pvt Ltd.

Mr. B. Ramesh Babu (Manager)
S. F. No. 9, Jaganath Industrial Estate,
Chinnavedampatti, Ganapathy
Coimbatore - 641 049, Tamil Nadu, India
Mobile: 08447573027
Telephone: +(91)-(422)-3202329
Fax: +(91)-(422)-4274515

ISGEC Heavy Engineering Ltd.

60, 2nd Floor, Great Social Building,
Sir P M Road, Fort, Mumbai, MH 400001
Phone No. 022 2266 1909

ITL Industries Ltd.

111, Sector -B, Sanwer Road,
Indore, M.P. 452 015, India
Phone : 91-(731) - 3044400, 409,
Fax : 91-731-2722372, 2721110,
Email: itlindia@sancharnet.in, info@itlindustries.com

J K Foundry Engineers

62, Shreyas Park, B/h. ISRO,
Jodhpur Tekra, Ahmedabad - 380 054, Gujarat, India
Contact No.: +91 - 79- 26925154
Email: info@jkfoundryequipments.com

J.R. Furnace & Ovens (P) Ltd.

No. L-4, S.I.D.C.O. Industrial Estate,
Villivakkam, Chennai - 600049, Tamil Nadu, India
Contact No.:91-44-45552449/65264893
Fax:91-44-26173262

Jartolia Engineering Works

E-64, Sanjay Colony,
Sector – 23 Faridabad – 121 005, Haryana
Contact No: 9810849971

Jas Enterprises

60, Shreenathji Estate,
Panna Estate road, Rakhal,
Ahmedabad, Gujarat.
Web: www.pulveriser.co.in

Jaya Industries

369, Ulaipalar Street, Vellakinar Post, Coimbatore
Mobile : 098430-43231

JFE Engineering Corporation Marunouchi Trust

Tower North, 1-8-1 Marunouchi, Chiyoda-ku,
Tokyo 100-0005, Japan
Web: <http://www.jfe-eng.co.jp/>

Jiansu Yangli Group

No.99 Middle Yangtze Road, Yangzhou City,
Jiangsu Province, China
Contact No: 0086 514 87848251
Email: yll@yangli.com
Web: <http://www.yangli.com>

Jinbaotian Packing Machinery

West Side of Vinhe Bridge
Tongzhou Development Zone,
Tongzhou City, Jiangsu Province, China
Contact No: +86-513-86552222
Email: cf@baotian.sina.net
Web: www.tzbaotian.com

Jinbaotian Packing Machinery Co., Ltd.

Contact: Mr. Jason Chen Taishan Village, Jinsha Town
Nantong, Jiangsu China 226300
Tel: 86-513-8655-2222
Website: <http://www.tzbaotian.com/en/index.asp>

Jinjiang Sheng Da Shoes Machine Trading Co. Ltd.

No.816,Chenquan Road, Chendai Town,
Jinjiang City, Jinjiang, Fujian, China (Mainland)
Contact person: Ms. Wenjuan Zhao
Contact no.: +86-0595-26883888
Web: www.sd9999.com

Jogindra Industries

R- 5/69, Rama Road, Near Metro Station,
Kirti Nagar, New Delhi, Delhi - 110 015, India
Contact person: Mr. Jagjeet Singh
Contact No. : +(91)-(11)-25415338 / 25434786

Johnson Controls India

507,Delphina Building, 2nd Floor,
CMH Road, Indiranagar - 1st Stage, Bangalore- 560 038
Contact person: Mr. Varun Parashar
Contact no.: +91-9739777709
Email: varun.parashar@jci.com
Web: www.johnsoncontrols.com

Johnson Lifts Pvt. Ltd.

No.1, East Main Road Annanagar
Western Extension, Chennai - 600 101
Contact person: Mr. V. Jagannathan
Contact no: +91-044 - 26152200 (6 lines)/9381010029
Email: vj@johnsonliftsld.com
Web: www.johnsonliftsld.com

JMC Paper Tech Pvt. Ltd

425-26/8/13, Nilsin Blue Factory Compound,
GIDC, Phase-I, Vatva Ahmedabad-382 445, Gujarat (India)
Tel: 91-79-40014848
Email: rajni@jmceengineers.com
Web: <http://www.jmcmachines.com/>

JP Steel Plantech Co.

Concurred Yokohama Building, 10-12F
3-1 Kinko-cho, Kanagawa-ku,
Yokohama 221-0056, Japan
Phone: +81-45-440-5900
Fax: +81-45-440-5841
Web: <http://steelplantech.com/>

Juki India Private Limited

Bangalore Office
“Ozone Manay Tech Park” 1st Floor,
B-Wing, Survey No, 56/18 & 55/9, Hosur Road,
Hongasandra Village, Bangalore – 560 068
Contact No: 080 – 42511900
Email: jukiblr@jukiindia.com
Web : <http://www.jukiindia.com/>

Jumbo Steel Machinery Co. Ltd.

No. 4, Roar 12, Taichung Industrial Park,
Taichung, Taiwan
Contact No: 886-4-23590788
Email: sales@jumbosteel.com.tw
Web: <http://www.straw-machines-jumbo.com/>

Jyoti CNC Automation Pvt. Ltd.

FA-18, First Floor, Crown Plaza,
Sector 15A, Mathura Road,
Faridabad-121007
Web: www.jyoti.co.in

Jyoti Industries

B-60/A - Sudershan Pura Industrial Area
Jaipur - 302006 Rajasthan India
Contact person: Mr. R. K. Jangid
Contact no.: +91-9414770502
Email: kjr@jyotiindustries.co.in
Web: www.jyotiindustries.co.in

J&B Sewing Machine Co. Ltd.

Newport, South Wales, UK - NP19 4SY
Contact No: +44 (0)1633 281555
Email: info@jbsewing.com
Web: www.jbsewing.com

J.R.D. Rubber and Plastic Technology Private Limited

K-49, Model Town,
New Delhi - 110009 (INDIA)
Contact person: Mr. Rajiv Gugnani
Contact No.: +(91)-(11)-27234947/27128281
Mobile : +(91)-9810121208
Fax : +(91)-(11)-42371539
E-mail : jdrdp@vsnl.com, jdrdp@airtelmail.in, info@jdrubber.com

Jeu-Wat Zipper Co., Ltd.

8, Wen Nan 1st St. South District,
Tainan City Taiwan 702
Contact No.: (886)-(6)-2922314
Fax: (886)-(6)-2922304

Jiangyin Beiguo Qunyan Packing Equipment Co. Ltd.

West development area of Beiguo Town,
Jiangyin City, Jiangshu Province, China - 214414
Contact No : 0510-86358567 86350053
Email : jyshuangyan@126.com
Web : www.jyshuangyan.com

Jiangyin Guoguang Calender & Fibre Roller Co. Ltd.

86 Xili Road, Ligang Town,
Jiangyin City, Jiangsu Province, China
Contact No.: +86-510-86631242
Email : cngrand@yahoo.cn
Web : www.cngrand.cn

Jiangsu Boda NC Complete Equipment Co. Ltd.

Contact Person: Xie Weixin
No.3536, Zhencheng Road,
Jiangyin Town, Wuxi City,
Jiangsu Province, China,
Wuxi, China (Mainland)
Contact No.: 86-510-86659111
Fax: 86-510-86658600
Website:<http://www.bodahg.com>

J. Hasmukhray & Co.

Mr. Vishnuprasad Joshi / Mr. Vijay Talsania
Contact No.: 08377808873
Aji G.I.D.C., Plot No. 364, 80 Feet Road,
Near Bridge Rajkot - 360003, Gujarat, India
Tele: +(91)-(281)-2387527, +(91)-(281)-2384671

Jaya Hind Sciaky Limited

Mr. Yunus Mogal (Manager - Sales And Marketing)
D - 1 - Block, Plot No. 18/2, MIDC,
Chinchwad Pune - 411019, Maharashtra, India
Call Us: 08376809453
Mobile: +(91)-7709008981, +(91)-9860813757
Telephone: +(91)-(20)-27475088
Email: info@jayahindsciaky.com

Jinan Chuanhou CNC Machinery Co. Ltd.

No. 2, North Of Zhijiazhuang Village,
Huashan Road, Licheng District,
Ji'nan, Shandong, China (Mainland),
Tele: 86-0531-88261055
Mobile:13402200099

K.K. Printing Machines Mfg. Co. Pvt. Ltd.

Plot No. 36, DLF Industrial Area,
Phase – I, Faridabad – 121003,
Haryana, India
Contact No.: 91-(0)129-4044518, 4084519
Fax: 91-(0)129-4043634
Mobile No.: +91-9810429567, +91-9910306205
Email: ronaldweboffset@gmail.com, ronald@airtelmail.in
Web: <http://www.ronaldindia.com/>

Kabra Extrusiontechnik Ltd.

Kolsite House, 31, Shah Industrial Estate,
Veera Desai Road , Andheri (W), Mumbai
Contact No: 022-26734822
Email: sales@kolsitegroup.com
Web: <http://www.kolsite.com>

Kaeser Compressors India Pvt. Ltd.

810, Northex Tower,
A-09, Netaji Subhash Place,
Pitam Pura, New Delhi, India.
Contact person: Mr. Amit Rajpal
Contact no.: +91-9818380792
Email: amit.rajpal@kaeser.com
Web: www.kaeser.com

Kalsi Machinery Co. Pvt. Ltd.

123, East Mohan Nagar, Industrial Area,
Amritsar - 143006, Punjab, India
Kanak Cryo (Sales, Service and Consultancy) Plot No. 307, G.I.D.C.
Phase – II, Sihor Bhavnagar, Gujarat - 364240 (India)
Mobile: (91)-9825026497
Fax: (91)-(2846)-224106
Email: kanakcryossc@yahoo.co.in

Kashifiji

Head office and factory: 28 Kamota, Kamitoba,
Minami-ku Kyoto 601-8131 Japan
Contact No. F81-75-661-5273
Fax F81-75-661-5270

Kawasaki Heavy Industries, Ltd.

1-14-5, Kaigan, Minato-ku, Tokyo 105-8315, Japan
Tel. +81-3-3435-2111
Fax. +81-3-3436-3037
Web: <http://www.khi.co.jp/>

Keje Thermoweld Equipments Pvt. Ltd.

T-105, Bhosari, M.I.D.C., Pune, India
Contact person: Mr. Shankar Mahbubani
Contact no.: +91-20-27120943, 27122213
Email: kjtherm@vsnl.com, kjtherm@rediff.com,
Web: www.kjtherm.com

Kennametal India Ltd.

8/9th Mile, Tumkur Road Bangalore 560 073, India
Contact No.: +91 080 22198444; 080-43281444
Fax: +91 080 2839 4708; 2839 1300
Email: bangalore.information@kennametal.com
Website: www.kennametal.com

Khan Machines

Plot No. C-13, JJ Nagar,
Mugappair Industrial Estate,
Mugappai West, Chennai - 600 037
Tamil Nadu, India.
Contact No.: +(91)-(44)-65477215
Mobile: +(91)-9841050531

Kilburn Engineering Limited

Plot No. 6, MIDC - Saravali,
Kalyan Bhiwandi Road, Taluka Bhiwandi,
District Thane - 421 311, Maharashtra, India
Tel. : +91 25 2224 1800 / +91 25 2266 2200
Email: kilburn@bom3.vsnl.net.in
Web: <http://www.kilburnengg.com>

Kirloskar Brothers Ltd

Udyog Bhavan,Tilak Road,Pune 411 002, India
Contact no.: +91-020 24440770,
Email: dnbandari@del.kbl.co.in
Web: www.web.kbl.co.in

Kirloskar Chillers (P) Ltd.

Office No 104,First Floor, Tower-P3,
Pentagon, Magarpatta City, Hadapsar,
Pune 411028 (India)
Contact No. : +91-20-66859800 (Board)
Fax : +91-20-66859802
E-mail: pune@kcpl.net.in
Web : www.kcpl.net.in

Kirloskar Oil Engines Ltd.

UCO Bank Building, Parliament Street, New Delhi, India
 Contact person: Mr. Vivek Shingari
 Contact no.: +91-9810056522
 Email: viveks@kirloskar.com, vivek.shingari@kirloskar.com,
 Web: www.kirloskar.com

Kirloskar Toyoda Textile Machinery Pvt. Ltd.

Plot 10 -13, Phase II, Jigani Industrial Area,
 Jigani., New Delhi, Delhi -560105, India.
 Contact person: Mr. Ashok Juneja
 Contact No.: +(+91)-(80)-27826201 / 27826206 / 27826215
 Mobile: +(+91)-9844639043
 Fax No: +(+91)-(80)-27826207
 Web: http://www.kttml.com

Kirtee Engineering

Plot No. 6/1, Gat No. 48, Opp. Simens Ltd.,
 MIDC, Waluj, Aurangabad - 431136, Maharashtra, India.
 Contact no.: +91-98227 50131
 Email: response@kirteepsplants.com
 Web: www.kirteepsplants.com

Kirti Lasers

17/A, Madhuban Soc, Vishnu Ngr.,
 G.Gupte Rd., Dombivli (W) - 421202 Dist.Thane, India
 Tel. No.:0251 2485151
 Fax : 0251 2487703
 E-mail : gkhedkar@kirtilasers.com

Klingelnberg, Francis Klein & Co. Pvt. Ltd.

92-93, C-Wing, Mittal Court,
 Nariman Point, Mumbai-400 021.
 Contact No: 0091-22-2825007
 Email: fkbm@bom7.vsnl.net.in
 Web: http://www.klingelnberg.info/

Kodak Graphic

3rd Floor, Kalpataru Synergy Vakola,
 Santacruz E, Mumbai India 400055
 Contact no.: +91-22-6641-6383
 Web: www.graphics.kodak.com

Kohli Industries

F-88, M.I.D.C, Anand Nagar,
 Ambernath, Thane, Maharashtra, India.
 Contact person: Mr. Kaku Kohli
 Contact no.: +91-251-2621717,18,19
 Web: www.kohli.org

Koley Converting Machinery Pvt. Ltd.

4/1, Halder Para Lane,
 Howrah - 711101, West Bengal, India
 Contact person: Mr. Manish Ranjan Biswas
 Contact no.: +919830011359
 Email: vaidy@subasolutions.com
 Web: http://slittingmachines.tradeindia.com

Kone India

No:50-55&58 Vanagaram Road Ayanambakkam,
 Chennai-600 095, India
 Contact person: Mr. B.R. Chandran
 Contact no.: +91-9940079691
 Email: b.r.chandran@kone.com
 Web: www.kone.com

Kotak Urja Pvt. Ltd.

311, Lotus House, 33A V,
 Thackersey Marg, New Marine Lines, Mumbai, India.
 Contact no.: +91-22-22092139, 41
 Email: kotakex@vsnl.com, sales@kotakurja.com
 Web: www.kotakurja.com

Kotsons

A-208 IInd Floor, R.G City Centre,
 Motia Khan, Pahar Ganj, New Delhi-110055 INDIA
 Contact no.: +91-11-43537460
 Email: kotsons@kotsons.com
 Web: www.kotsons.com

Krishna Engineering

No. 7, Khodiyar Estate, Near Sakariba Estate,
 Behind Indo Ahmedabad 382 445, Gujarat, India
 Contact person: Mr. Bhupat Pa
 Contact no.: +91-9426064890
 Email: info@krishna-engg.com
 Web: www.krishna-engg.com

Kriton Weld Equipments Pvt. Ltd.

101 'STATUS AVENUE',
 Near Flavor Restaurant, Opp. SRP
 Ground, Makarpura Road, Vadodara - 390 009
 Contact No. : +91-265-265 1718
 Email : info@kritonwelders.com
 Web : www.kritonwelders.com

Kwality Power Ltd.

S. N. 2, Dhaneshwari Building,
 Ram Nagar Housing, Vastu Udyog
 Yojana No. 2, Bhosari
 Pune - 411039, Maharashtra, India
 Contact No. +(91)-(20)-65309787
 Email: kwalitypower@gmail.com, info@kwalitypower.com
 Web: www.kwalitypower.com

Kalimata Plastic Machinery Pvt. Ltd.

Mr. Prasad Chaphekar 215,
 Krishna Building, Laxmi Industrial Complex,
 Vartak Nagar, Pokhran Road No.1
 Thane, Maharashtra - 400 606, India
 Contact No.: +(91)-(22)-32622005
 Mobile: +(91)-9322887557
 Fax No: +(91)-(22)-25853221

Kirloskar Pneumatic Company Limited

Hadapsar Industrial Estate Pune – 411013, INDIA
 Contact No.: (91)-(20)-6870133, 6870341
 Fax: 91-20-6870297, 6870634
 E-mail: kpcl@pnq.kpcl.co.in

Kothari Brothers Tech Pvt Ltd.

207, First Floor, Mint Street Chennai – 600003
 Contact No.: (044) - 25359189, 25359187
 Mobile: 9381004898

Killburn Engineering Limited

Mr. Supriyo Mukherjee
 112, Minerva Industrial Estate
 P.K. Road, Mulund, (W)
 Mumbai - 400060, Maharashtra, India
 Telephone: +(91)-(22)-25936200

Koyka Electronics Pvt. Ltd.

Mr. Harsh Bhardwaj (Director),
F 121, Tirkha Colony, Tigaon Road,
Ballabghar, Faridabad - 121 006, Haryana
Mobile: +(91)-9810501205,
Fax: +(91)-(129)-4062533

Laser Lab India Pvt. Ltd.

32, DSIDC Sheds, Wazirpur Industrial Area
Delhi - 110 052, INDIA
Sales Office & Demo Centre:
350-351-352-353, Vardhman Fortune Mall,
G.T.K. Indl. Area, G.T.K. Road, Delhi - 110 033. INDIA
Ph: +91-11-2737 3689, 2737 5340
Fax : +91-11-2737 4218.

L.S. Engineering Corporation

Opp. HoContact no. Jawahar,
Central Hospital Road,
Ulhasnagar - 421003, Maharashtra, India.
Contact No.: 91- 251 2530524 / 2525711 / 2525866
Fax:91-251-2706177,
Email: esponse@foundrymachineryindia.com
Web: www. foundrymachineryindia.com

Lai Chen Ltd.

No. 18, Lane 355, San Fan Road,
Wan Ya Tsun, Huatang
Changhua, Taiwan R.O.C
Contact No.: +886-4-7870821
Fax: +886-4-7862740
Email: knithat@ms46.hinet.net
Website: www.knitting-machine.com.tw

Laimura Technology (P) Ltd.

Punwani Chambers
7B, Kiran Shankar Roy Road,
3rd Floor Kolkata 700001 India
Contact person: Mr. Aditya Tibrewal
Contact no.: +91 33 22430468/69
Email: central@recuperators.in
Web: www.recuperators.in

Lan Pharmatech

J 101, Ansa J&K Indl. Estate Co-Op Premises
Saki Vihar Road, Saki Naka
Andheri (E), Mumbai - 400072. India
Tel: +91 22 28578193
Fax: +91 22 28578194
Email: info@lanpharmatech.in

Lamfi Equipment Via Lodz

51, 59100 Prato - Italy
Tel: +390574700191
Fax:+390574700192
Email: info@lamfi.com

L&M Precision Fabrication

13026 W. McFarlane Rd. Bldg. D1-4
Airway Heights, WA 99001
Email: sales@LMprecfab.com
Toll-Free: 877.773.2322
Tel: 509.244.5446
Fax: 509.244.6341
Website: www.LMprecfab.com

Larsen & Toubro Ltd.

(Welding Products Business)
EWAC Administrative Building,
2nd Floor, Gate No. 3, Powai Campus,
Saki Vihar Road, Mumbai – 400072
Contact No: 022-67051250
Email: wpb-equipments@powai.ltindia.com
Web: www.lntecticwelding.com

LASCO Umformtechnik GmbH

Hahnweg 139, 96450 Coburg, Germany
Contact person: Thomas Kranich
Contact no.: +49 (0) 95 61 / 642-236
Email: lasco@lasco.de
Web: www.lasco.de

Laxmi Creation

528, World Trade Center,
1st Floor, Ring Road,
Surat - 395002, Gujarat, India
Contact No.:91-261-3050222
Fax:91-261-3927523

Laxmi Engineers

G-588(B), 2nd Phase, M.I.A,
Basni, Jodhpur-324005 India.
Web: www.laxmi-group.com

Laxmi Industries

19/7, West Moti Bagh,
Sarai Rohilla,
New Delhi - 110035, India
Contact person: Mr. Jagdish Singh
Mob: +91-9810310251

Lee Yih Automation Co.

No.9, Alley 102, Lane 261,
Jhutouzai Rd, Sihu Township,
Changhua Country 514, Taiwan
Contact No: 888-4-8810805
Email: infor@leeyih.com.tw
Web: http://www.leeyih.com.tw/

LG Electronics India Pvt. Ltd.

Plot No 51, Surajpur Kasna Road,
Greater Noida, UP, India.
Contact person: Mr. Sumit Bajaj
Contact no.: +91-120-2560960
Email: sumitbajaj@lgindia.com
Web: www.in.lge.com

Liang Jiang Shoes Making Machines Co. Ltd.

186-8 Tung Ho Rd., Tsao Tun Chen,
Nantou Hsien, Taiwan, Republic of China.
Contact no.: +86-769-833-1168
Email: langjiang@ms26.hinet.net
Web: www.shoenet.org.tw/ljiang

LIPI Marketing (P) Ltd.

32, Nehru Nagar, 1st Link Street,
Old Mahabalipuram Road,
Kottivakkam, Chennai - 600 041
Contact No: 044 24540737
Email: sales@lipimarketing.com
Web: http://www.lipimarketing.com/

LiContact no. Infrared Systems Pvt. Ltd.

J-284, MIDC, Bhosari,
Pune- 411 026 India
Contact no.: +91-020-2712 1848/0564/7631
Email: sales@liContact no.ir.com
Web: www.liContact no.ir.com

Lloyd Insulation India Ltd.

Post Box No. 4321, Punj Star Premises,
Kalkaji Industrial Area, Kalkaji,
New Delhi – 110019
Contact person: Mr. Ashu Sharma / Mr. K.K Mitra
Contact no.: +91-9868970770
Email: kk.mittra@lloydinsulation.com
Web: www.lloydinsulation.com

LMW India Ltd.

Perianaicken palayam,
SRKV Post, Coimbatore,
Tamilnadu - 641 020
Web: www.lmwcncc.com

Lohia Starlinger Ltd.

D-3/A, Panki Industrial Estate,
Kanpur - 208 022
Contact No: +91 512 3045100
Email: lsl@lohiagroup.com
Web: http://lohiagroup.com/

LTP Engineering

Sdn Bhd Plot 54, Jalan Johan 1/6,
Kawasan Perindustrian Pengkalan
2, Jalan Pusing, 31550 Pusing, Perak, Malaysia
Contact no.: +6(05)-366 3269, +6(05)-3663266
Fax: +6(05)-366 3418
Email: lmcc@engineering.com.my
Web: www.engineering.com.my

Luoyang Land Glass Technology Co. Ltd.

Guangjian Building, No.12, Wangcheng road,
Luoyang city, China
Contact No: +86-379-65298883
Contact person: Mr. Joe
Email: ldglass@yeah.net
Web: http://www.landglass.com

Lipak Metrology Pvt. Ltd.

F-90/1, Okhla Industrial Area,
Phase-I, New Delhi - 110020, India
Contact No.: +91 11 40523335,
Mobile: +91 9810014158
Fax: +91 11 26811023

Lucky Huaguang Graphics Co, Ltd.

718, South Station Rd, Nanyang,
Henan, China Nanyang/Henan, China 473003
Contact Person: Mr. Zhang Guo
Contact No.: 86-377-63860128
Fax Number: 86-377-63138450

M.H. Engineering Pvt. Ltd.

340/21, Street No.-1, Friends Colony,
Industrial Area, Shahdara, Delhi-110095
Contact no.: +91-91-120-2659203
Web: http://wiredrawingmachine.co.in/

Maa Santoshi Casting Company

Heli Mandi Dadawas Road,
Village - Mandpura Pataudi,
Gurgaon Haryana, India
Contact person : Mr. Pritam Singh (Director)
Mobile:+919210214839, +919810675799,
Contact No.:91-1251- 642539

Machinotherm Engineers

1/9, Sucheta Nagar, (1st floor), Haltu,
Kolkata-700 078, West Bengal, India
Contact no.: +91-98310 96835
Email: machinotherm@gmail.com
Web: http://www.machinotherm.com

Machinotherm Engineers

/9, Sucheta Nagar, (1st floor),
Haltu, Kolkata-700 078,
West Bengal, India
Web: www.machinotherm.com

Macons Equipments

Plot No. 37/C, Phase-1,
G.I.D.C Estate, Vatva,
Ahmedabad - 382445, Gujarat, India
Contact person: Mr. Snehal Roy
Contact no.: +91 9909003759
Email: info@macons.co.in
Web: http://www.macons.co.in/

Macpower CNC Machines Pvt. Ltd.

2234 Kranti Gate, GIDC,
Metoda, Rajkot, Gujarat, India
Contact person: Mr. Rupesh Mehta
Contact no.: +91-2827-287930
Email: sales@macpowercnc.com
Web: www.macpowercnc.com

Macro Furnaces Pvt. Ltd.

Plot no2, 16/2, Matura Road, Faridabad, Haryana
Ph: 0129-2260004/4080430
Web: www.macrofurnaces.com

Macro Print Engineers (India) Pvt. Ltd.

SF No.169, Macro Nagar,
Saravanampatty (Post) Coimbatore - 641 035,
Tamil Nadu, India.
Contact person: Mr. P. Veeramuthu
Contact no.: +91-9843086656
Email: macrobond.india@gmail.com
Web: www.macprintindia.com

Mahindra Plastic Industries

Mr. G.S. Bajwa (Proprietor)
Ganesh Nagar, Street No. 2,
Link Road, Industrial Area- A,
Opposite Transport Nagar
Ludhiana - 141003, Punjab, India
Web: www.mahindraplasticindustries.com

Magnalenz Furnaces Pvt. Limited

B/4, Shakriba Estate, Mehdavad Road
G.I.D.C. , Phase IV,
Vatva, Ahmedabad, Gujarat
Contact No.: +91-79-25841065 /30917163/ 55120554

Magnum Machine & Tools (P) Ltd.
 48, S.N.Roy Road, Kolkata- 700 038, India
 Contact No: 033-24037963
 Email: kol@magnumgroup.in
 Web: www.magumgroup.in

Mailhem Engineers Pvt. Ltd.
 #401, 4th floor, Abhinav Sankul,
 ITI Road, Aundh, Pune - 411007,
 Maharashtra, India
 Contact person: Ms. Anushree. L
 Contact no.: +91-9373597455
 Email: marketing@mailhem.com
 Web: www.mailhem.com

Makino Asia Pte Ltd
 2 Gul Avenue, Singapore 629649
 Phone: +65 68615722
 Fax: +65 68611600
 Email: makinoasia@makino.com.sg
 Web: http://www.makino.com.sg/

Makino Milling Machine Co., Ltd.
 3-19, Nakane 2-chome,
 Meguro-ku, Tokyo 152, Japan
 Phone: 011.81.3.3717.1151
 Fax: 011.81.3.3725.2105
 Web: http://www.makino.com/

Malabar Extrusion Engineers
 St. Martin Compound, Peppathy,
 Veliyanad P.O, Arakkunnam, Ernakulam – 682 319
 Contact No.: +91 484 -2738223/2749839/2747033/2738219
 Fax: +91 484 – 274 8665
 Email: design@malabarextrusions.com

Mamata USA Inc
 2275, Cornell Ave., Montgomery, IL-60538. USA
 Contact No.: +1 630 801 2320
 Fax : +1 630 801 2322
 Email : info@mamatausa.com
 Web: www.mamatausa.com/

Mammon Furnace & Fabricators Co.
 Jalna Road, Chikalthana M.I.D.C.
 Aurangabad - 431 005, Maharashtra, India.
 Contact No.: +(91)-(240)-2484235
 Email: mammonfurnace@hotmail.com, patilvino@gmail.com

Maneklal and Sons (Exports)
 237 / 239 Perin Nariman Street Fort,
 Mumbai - 400 001, INDIA.
 Contact no.: (+91 22) 22618951 / 22618962
 Fax: (+91 22) 22618903

Manometer India Pvt. Ltd.
 Plot No F-6/4, Road No 22,
 Wagle Estate, Thane - Mumbai 400604
 Maharashtra
 Contact No.: 022 – 25821571
 Email: india@monometer.co.uk

Mantra Composites
 Indore,
 Contact No. No.: +(91)-(731)-2343438

Marco Technology Corporation
 7001 North Waterway Drive - Suite 107 Miami, Florida 33155
 Contact No.: (305) 260.0091
 Fax: (305) 260.0094
 Email: info@marcotec.com
 Website: www.marcotec.com

Masa Concrete Plants India Pvt. Ltd.
 5B, KIADB, Bommasandra Ind. Area Attibele Hobli,
 Anekal Taluk, Bangalore - 560099, India
 Contact No : +91-80-2628 3888
 Email : info@masa-india.com
 Web: www.masa-group.com

Marshall Machines (P) Ltd.
 75B, Sector-5, IMT Manesar,
 Gurgaon (India)
 Contact No.: +91-124-4241813
 Email : vivek.sales@marshallcnc.com
 Web : www.marshallcnc.com

Maruti Equipments Ltd.
 Plot No. 2601 / B , Ph - IV, G.I.D.C,
 Vatva, Ahmedabad - 382 445 Gujarat India
 Contact person: Mr. Jivanlal Dodia
 Contact no.: +91 98795 38299
 Email: info@marutiequip.com
 Web: http://www.marutiequip.com/

Maruti Intelli Mech
 Plot No: 195/1, Ashima Complex
 Nr. Tulsi Petrol Pump
 B/h. Hitachi,Karannagar Kadi - 382 715,
 Mehsana Gujarat
 Tel: +91 - 2764 - 277677, 242879,
 Fax: +91 - 2764 - 262965,
 Email: info@marutiintelli.net

Mather and Platt Pumps Ltd.
 101 Centre Point, 1st Floor,
 Andheri Kurla Road, M.V.Road,
 J.B Nagar Andheri East, Mumbai.
 Contact person: Mr. Sandeep Pansare
 Contact no.: +91-9820421086
 Email: mnpmum@matherplatt.com
 Web: www.matherplatt.com

Matrusree Electro Heats
 1-1-475/1, Gandhi Nagar, New Bakaram,
 Hyderabad - 500 080
 Web: www.matrusree.com

Matsui Technologies
 B-7, Sector 7, Noida - 201301,
 Distt Gautam Budh Nagar, India
 Contact no.: +91-0120-424-3862
 Web: www.matsui-mfg.net

Mayekawa Manufacturing Co. Ltd.
 3-14-15 Botan Koto-ku,
 Tokyo 135-8482, Japan
 Tel: (81)-3-3642-8181
 Fax: (81)-3-3643-7094
 E-mail: public@mayekawa.co.jp
 Web: http://www.mayekawa.com/

MD Corporation

A-128 Lower Gr. Floor,
Shivalik, Malviya Nagar, New Delhi, India
Contact no.: +91-11-26674911, 46178833
Email: mdcorp@mdcorpindia.com, mdcorp@air
Contact no.mail.in
Web: www.mdcorpindia.com

Meccanotecnica S.p.A.

Via Casale, 16,
24060 Torre De' Roveri (BG) - ITALY
Contact No: +39 035 585 185
Email: info@asterel.com
Web: www.meccatec.it

Mechtech Designers & Engineers Pvt. Ltd.

19 D, Dr. A. K. Paul Road,
Kolkata - 700 034 : West Bengal, India.
Phone: +91-33- 2445-8850, +91-33-32948599
Fax: + 91-33-2407-1436
E-mail: laha@mechtechindia.com
Web: www.mechtechindia.com

Meena Engineering Works

113, New Modelia Ind Estate,
Behind Automatic Electric Co,
Padwal Nagar, Wagal Estate, Thane-Maharastra
Web: www.fillingcappingmachine.com

Mechatron Machines & Auto Parts

34, 11th Main, 6th Cross, V R Layout,
Kaiwara Temple Road, K G Halli, Bangalore - 560015
Contact No.: +91 80 23457675,85,95
Fax : +91 80 23457685
Email : info@mechatronmachine.com
Website: www.mechatronmachine.com

Megha Insulation Pvt. Ltd.

A-11/6th Floor, Dadasahed Jain Flats,
Kalanala, Bhavnagar - 364001, Gujarat - India
Web: www. meghainsulation.com

Memco Machinery Mart

4094 1st Floor Kuch Dilwali Singh
Ajmeri Gate Delhi - 110 006, Delhi, India
Contact person: Mr. Sarfaraz Baig
Contact no.: +91-9810590603
Email: info@memcomachines.com
Web: http://www.weldingmachinemManufacturer.com/

Meta Therm Furnace Pvt. Ltd.

B-5 / 106, Green Land Apartment,
J.B.Nagar, Andheri (East)
Mumbai - 400 059, Maharashtra, India
Contact person: Mr. C.H. Khandelwa
Contact no.: +91-9869135567
Email: metatherm_furnace@yahoo.co.in
Web: www.furnaces-ovens.co.in

Metal Colours Limited

9 Cambridge Avenue, Trading Estate,
Slough, Berkshire, SL1 4QG
Contact no.: 01753 526644
Fax: 01753 692454
Email: office@metalcolours.co.uk

Metallon Holdings Limited

30/1 A, Suhasini Ganguly Sarani,
Bhowanipur, Kolkata, West Bengal, India
Contact person: Mr. Navin Mishra
Contact no.: +91-33-24191150
Email: info@metalloncorporate.com
Web: www.metalloncorporate.com

MICRO Dynamics Pvt. Ltd.

T-178 , MIDC Bhosari,
Pune 411 026 Maharashtra, INDIA.
Contact No.: (+91-20) 27120839 / 30685470
Fax: 020 27122678 / 020 30685466
E-Mail: sales@mircodynamics.com
Web: http://www.mircodynamics.com

Micro Engineers India

603 Peninsula Plaza,
A-16 Fun Republic Lane
Opposite Laxmi Industrial Estate
Andheri (W) Mumbai - 400053,
Maharashtra (India)
Contact person: Mr. Iqbal Singh Bhurjee
Contact no.: +91- 9820025570
Email: gbjurjee@bom3.vsnl.net.in
Web: http://www.microengineersindia.net/

Micro Services Group.

P.O. Box 589, West Point,
GA, USA, 31833-0589
Contact No. 706.643.2422
Fax 706.643.2100
Email: sales@microsvgrp.com

Micro Thermal Inc

416, Chhatral - Isand Road,
Behind Denish Chem. Lab.,
Chhatral, Taluka - Kalol North Gujarat, India.
Web: www.microthermalinc.com

Mikrons

35/36, 2nd Floor, Secretariat Colony,
Kilpauk, Chennai - 600 010, India
Contact person: Ms. Anita Soundar
Contact no.: +91-9840072017
Email: mikron@air
Web: www.nautamixer.in

Minwool Rock Fibres

8-2-598/A/1/15, Plot no.15, Road No.10,
Banjara Hills, Hyderabad, India
Contact person: Mr. Arjun
Contact no.: +91-40- 23351114, 15, 17.
Email: hyderabad@minwool.com
Web: www.minwool.com

Mimaki Engineering Co., Ltd.

2182-3 Shigeno-Otsu, Tomi-City,
Nagano 389-0512, Japan
Tel: 81-268-78-2288
Fax: 81-268-78-1188

Mistui Engineering & Shipbuilding Co., Ltd

6-4, Tsukiji 5-chome,
Chuo-ku, Tokyo 104-8439, Japan

Mitsubishi Chemical Corporation

Marunouchi 1-chome, Chiyoda-ku,
Tokyo 100-8251, Japan
Website: <http://www.m-kagaku.co.jp/>

Mitutoyo South Asia Pvt. Ltd.

C-122, Okhla Industrial Area,
Phase-I New Delhi-110020
Tel: (91) 11-26372090
Fax: (91) 11-26372636
Email: delhi@mitutoyoindia.com

Mitsubishi Electric Corporation

Tokyo Building, 2-7-3, Marunouchi,
Chiyoda-ku, Tokyo 100-8310, Japan
Phone: (+81) 3-3218-2111
Web: <http://www.mitsubishielectric.com/>

Mitsubishi Elevator ETA India Private Limited

Chennai Citi Centre,
5th Floor, NO. 10 & 11,
Contact person: Dr.R.K. Salai,
Mylapore, Chennai - 600 004
Phone: +91 44 2847 7370
Fax: +91 44 2847 7374
E-Mail: info@mitsubishelevator.in
Web: <http://www.mitsubishielectric.com/>

Miven Mayfran Conveyors Pvt. Ltd.

Sirurs Compound, Karwar Road,
Hubli -580 024, Karnataka.
Contact No: 0836-2212201
Email : info@mivenmayfran.com
Web: [http://www.mivenmayfran.com/](http://www.mivenmayfran.com)

Modern Plastics & Polymers Infomedia

18 Ltd., Special Interest Publications Division,
Ruby House, "A" Wing, J. K. Sawant Marg,
Dadar (West), Mumbai - 400 028
Web: www.modernplasticsandpolymers.in

Modern Refractory Erectors

118, Mangalagiri Complex, Gajuwaka,
Visakhapatnam –530 026
Andhra Pradesh, India
Web: www.modernrefractory.com

Mohindra Mechianical Works

RZ-73, Nursing Garden,
Near Khyala Village, New Delhi - 110018, India.
Contact person: Mr. Mohinder Singh
Contact no.: +9199999778804
Web: [http://mohindra.tradeindia.com/](http://mohindra.tradeindia.com)

MOLINAE~~BIANCHI~~ SpA

Viale Industria, 213/5-27029 Vigevano - Italy
Contact no.: +39-0381-345015
Web: www.molinaebianchi.it

Monotech Systems Limited

3rd floor, City Centre, 66, Thirumalai Road,
T. Nagar, Chennai – 600017
Contact No: 044-28157928
Email: infor@monotech.in
Web: www.monotech.in

Mosconi SpA

Viale del Commercio,
7 - 37135 VERONA (ITALY),
Contact person: Mr. Giancarlo Marconi
Contact no.: +39-045-8200490
Email: gmarconi@mosconisp.a.it
Web: www.mosconisp.a.it

Moulding Machine Manufacturing Pvt. Ltd.

3, Madhav Villa, Plot No. 40,
Sindhi Society, Chembur,
Mumbai – 400071
Contact No: 022-25204041
Contact person: Mr. D.S. Sahajwala
Email: mouldmasters@vsnl.net
Web: <http://www.mouldmasters.in>

MS Furnace

Address G.T.Road, Near Apollo Hospital,
Sherpur Chowk, Ludhiana (Punjab),
Contact person: Mr. Joginder Singh (Prop.)
Mobile +91 98150-09200
Contact no. 0161-4638930
E-mail msfurnace@yahoo.in

Mukand Industries Pvt. Ltd.

BXXX, 2185/C, 203/1, Phase - 7, Focal Point,
Ludhiana - 141010 Punjab (India)
Contact person: Mr. Lokesh Bansal
Contact no.: +91-9814035722
Email: info@mukandindustries.com
Web: <http://mukandindustries.com/>

Muller Martini (India) Private Limited

RM Towers I, Plot B-2,
MMTC / STC Commercial Centre,
Geetanjali Enclave, New Delhi - 110017
Contact No.: +91-11-2669 3652
Web : www.mullermartini.com

Murata Machinery (Shaghai) Co. Ltd.

135 Fu Xi Yi Rd.,
Wai Gao Qiao Free Trade Zone,
Pudong, Shanghai, CHINA
Contact No.: +86-(0)21-6921-2300
Fax: +86-(0)21-6921-2330

MV International (GBM Industries)

RZ-B-27, Dabri Extn.,
East New Delhi Delhi. PIN - 110045
Ph: +(91)-(11)-25390743/65471839

Mas Gasair Systems (P) Ltd.

3/6, Site 2, Ajanta Compound,
Loni Road Industrial Area,
Mohan Nagar, Ghaziabad, UP
Contact No.: + (91)-(120)-2658241/42
Fax: + (91)-(120)-2658243

Mifa Systems

702 "AKIK", Opp. Rajpath Club
Sarkhej - Gandhinagar Highway,
Bodakdev, Ahmedabad - 380 015, Gujarat (India)
Contact No: (079) - 2687 0825 / 2687 0885 / 2687 1367
E-mail: sales@mifasystems.com, info@mifasystems.com

MTAB Engineers Pvt. Ltd.

17/2, Thanikachalam Rd,
T. Ngr, Chennai, Tamil Nadu

MVS House

E-24, East of Kailash,
New Delhi
Web: www.mvslimited.com

M&R Sales and Service, INC.,

M&R Companies,
1N372 Main Street,
Glen Ellyn, Illinois, 60137, USA
Phone: 630-858-6101
Fax : 630-858-6134
Toll Free: 800-736-6431
Phone (Outside USA): +847-967-4461
Fax (Outside USA): +847-967-0417

M.S.Graphics Pvt. Ltd.

No.11, Muthiyal Cheety Street,
(Ground Floor) Puraswalkam, Chennai - 600007
Phone: (044) 26421266/ 32501949
Contact person: Mr. C.M. SHROFF (Director)
Mobile: 9830065610

Madicam Machine Tools,

Mr. Kaushik Patel (Proprietor)
70, Pushpak Industrial Estate,
Opp. National Rifles, Phase- 1, Vatva GIDC
Ahmedabad - 382445, Gujarat, India
Mobile: +(91)-9725040947

Mechelonic Engineers

C-230, 235 Solaris - 1,
Sakivihar Road, Powai,
Mumbai - 400 072, Maharashtra, India
Fax : + 91 - 22 - 2857 4698

Metal Power Analytical (India) Private Limited

Contact person: Mr. P.D. Pant (Managing Director)
No. B - 48, Raj Industrial Complex,
Military Road Mumbai - 400059,
Maharashtra, India,
Mobile: 08447510166
Fax: +(91)-(22)-29251373

Murty Enterprises

Deepak Bhatia (Business Development Manager)
Room No - 223, Concor Admin Building,
Inlend Contenor Depot, Tuglakabad,
New Delhi - 110020, Delhi, India
Call Us: 08377809154
Mobile: +(91)-9810512722, +(91)-9716000234
Telephone: +(91)-(11)-25920147
Fax: +(91)-(11)-25920147

NACH Engineering Pvt. Ltd.

208, 'Patil Plaza', Mitramandal Chowk,
Near Saras Baug, Parvati,
Pune - 411009, Maharashtra, India.
Contact person: Dr. Nikhil Chaudhary
Contact no.: +91-9422890889
Email: info@nachengg.com
Web: www.nachengg.com

Nachi-Fujikoshi Corp.

Shiodome Sumitomo Bldg.
17F, 1-9-2 Higashi-Shinbashi,
Minato-ku, Tokyo 105-0021, Japan
Phone:+81-3-5568-5240
Fax. +81-3-5568-5236
Web: www.nachi-fujikoshi.co.jp/

National Heat Pumps

Unit no 17, Shiv Krupa Industrial Estate,
LBS Marg, Vikhroli West, Mumbai 400083
Tel : 25792580-83
Email: info@nationalheatpumps.com
Web: <http://nationalheatpumps.com/>

Nagpur Krishna Machine Tools Pvt. Ltd.

1No. U-81, M.I.D.C. Industrial Area,
Hingana Road Nagpur - 440 016,
Maharashtra, India
Contact person: Mr. K.V.S. Sarma
Contact no.: +91-9923699266 / 9823405152
Email: nkmt_nagpur@dataone.in
Web: <http://www.indiamart.com/nagpurkrishma/index.html>

Naik Oven Manuafacturing Co.

8, Suchita I.E, Talwar Compound,
Pokhran Road No 2, Maji Wada,
Thane, Maharashtra.
Web: www.naikoven.net

Nanhui Xiangda Machinery Co., Ltd.

No. 2, Nanxing Road,
Hong Gang Village, Li Shui Town,
Nanhai District, Foshan City,
Guangdong Province, China
Contact person: Ms. Candy Zhou
Contact no.: +86-0757-85661928
Web: <http://fsxiangda.en.alibaba.com/>

Negri Bossi S.p.a Viale Europa

64 - 20093 Cologno Monzese Milano – Italy
Contact No: +39-02-273481
Email: nb@negribossi.com
Web: <http://www.negribossi.com/>

Neoplast Engineering Pvt. Ltd.

A-7, 2nd Floor, Safal Profitaire,
Corporate Road, Nr. Prahalad Nagar Garden,
Satelite, Ahmedabad - 380015 (Gujarat) India
Contact No: +91-79-4019 4030
Email : info@neoplastindia.com
Web : www.neoplastindia.com

New AVM Systech Pvt. Ltd.

1/2, Kunal Puram, Mumbai-Pune Road,
Pune, Maharashtra, India.
Web: www.avmsystech.co.in

New Era Machines Pvt. Ltd.

Campa Cola Lane,
Dhandari Kalan, G.T. Road,
Ludhiana, Punjab - 141010
Contact No. : + 91-0161-2510777
Email: sales@nem.co.in
Web: www.biscuitmachines.co.in

Ningbo Aoli Machinery Co. Ltd.

No.168 Jiang Nan Road
South side of Hua Xin Storage
Ningbo City, Zhejiang Province, China
Tel: 0086-0574-87900558 0086-87906552-1002
Fax: 0086-0574-87900676
Email: sales@aolimachinery.com

Ningbo Keguang Mechanical & Electrical Products Co., Ltd.

701#, Zhenluo West Road,
Luotuo Town, Ningbo, Zhejiang, China
Contact No: 86-574-86583740
Web: <http://keguang.en.made-in-china.com/>

Ningbo Obinder Co., Ltd.

188 Donghanmen South Road,
Yuyao, China 315400
Contact person: Mr. Linua
Contact no.: +86 13958345321
Email: info@obinder.com
Web: www.obinder.com

Ningbo Sybo Machinery Co. Ltd.

Rm.1104-1105, Xintiandi Building 12th,
No. 689 North Shijidadao Ave, Ningbo - 315040, China
Contact no.: 86-574-87736070

Nippon Steel Corporation

Plant and Machinery Division
(Kaohsiung Plant & Machinery Co. Ltd.)
Room No.1521, Eros Corporate Tower,
Nehru Place, New Delhi, India
Contact no.: +91-11-4223-5360
Email: pmd@kix.or.jp
Web: www.xdfly.com/en_index.asp

Nippon Steel Engineering Co., Ltd.

Osaki Center Building,
1-5-1 Osaki, Shinagawa-ku,
Tokyo 141-8604, Japan
Contact no.: +81-3-6665-2000
Web: www.nsc-eng.co.jp

Nirankari Electro Platers

Plot No. 350, Sector - 58,
Electroplating Zone,
Faridabad - 121004, Haryana, India.
Contact No.:91-129-2307098
Fax:91-129-2307098

NKH Hammers

Plot No. 1, Link Road,
Industrial Area-A. Extn.,
Ludhiana, Punjab, India.
Contact person: Mr. Jasmer Singh
Contact no.: +91-9815011330, +91-161-5011755
Email: info@nkhhammers.com
Web: www.nkhhammers.com

NOTA Industries

Nota Market, Opp. Punjab & Sind Bank,
Focal Point, Sherpur Road,
Ludhiana-141010. Punjab, (INDIA)
Mobile ; +91-98723-67567, +91-93165-74700.
Web: <http://www.notatex.com> <http://www.arryinternational.com>

NRS Welding Technologies

56, Hastsal Village, Uttam Nagar, New Delhi
Contact person: Mr. Dinesh Chand Pandey
Contact no.: +91- 9868218306
Web: <http://www.nrsweldingtechnologies.com/>

NSW India Ltd.

C-255, Mayapuri Industrial Area,
Phase - II, New Delhi -110064, India
Contact no.: +91-11-28112609
Email: corporate@nswindia.com
Web: <http://www.ovensindia.com>

N-Teryair Equipment Pvt. Ltd.

A-1, Tirupati Udyog Nagar,
Sativali Road, Vasai East,
Thane - 401 208 Maharashtra, India.
Contact no.: +91-250-6450239
Email: info@teryair.com
Web: www.editoolworld.com

NuGen Machineries Ltd.

17 Changodar Industrial Estate,
Sarkhej-Bawla Highway,
Town Changodar 382 210.,
Ta. Sanand Dist. Ahmedabad,
Gujarat, INDIA.
Contact no.: +91-2717-250380/250963/250964
Email: info@nugenindia.com

Natraj Flexible Packaging Industry

C-61, Sector 10, District Gautam Budh Nagar,
Noida - 201301, Uttar Pradesh, India
Contact No.: 91-120-3058417
Fax: 91-120-4229768

NuGen Machineries Ltd.

17 Changodar Industrial Estate,
Sarkhej-Bawla Highway,
Town Changodar 382 213
Ta. Sanand Dist. Ahmedabad,
Gujarat, INDIA

Naman Enterprises

1/1911-C, Moti Ram Road,
Modern Shahdara, Delhi - 110 032 (INDIA),
Tele/Fax : +(91)-(11)-22575647
Mobile : +(91)-9871917917
Contact person: Mr. Naman Aggarwal (Marketing Head),
Email: info.namanenterprises@gmail.com,
info@padprintingmachine.net

Navkar Enterprise

Contact person: Mr. Lal Bhai Shah / Mr. Ilesh Shah (Manager),
No. 9, Shreenathji Estate, Near Vadeshwar, Mahadev Intwada,
Saraspur, Ahmedabad - 380 018, Gujarat, India
Mobile- +(91)-9825818918
Tele- +(91)-(79)-65454264

Ningbo Nide Mechanical Equipment Co., Ltd.

14-5, East Kemao Center,
No.100 Xiangyun Road, Hi-tech District,
China (Mainland), Zhejiang, City-Ningbo
Tele: 0086-574-87295682,

Oerlikon Textile India Pvt. Ltd.

EIL Complex 414,
Senapati Bapat Marg
Lower Parel - 400 013, Mumbai
Contact No.: +91 22 565 27 900
Fax: +91 22 565 27 90
Email: info@saurerindia.com
Web: <http://www.oerlikontextile.com>

Om Suntronics Converting Equipments

C1-B/805, G.I.D.C. Makarpura,
Nr. G.C.E.L, Baroda - 390010
Contact No: 0265-2631592
Email: info@omsuntronics.com
Web: www.omsuntronics.com

OMP

P.IVA IT02944350244 - via
Delle Prese 42-44 Z.I. 36014 Santorso, (VI) ITALY
Tel: +39 0445 640822
Fax: +39 0445 640225
Email: info@omp-group.it
Website: www.omp-group.it

OMPAR

Via A. Rossi, 26, 36057 Arcugnano (VI) - ITALY
Contact No.: +39 0444 240545
Fax +39 0444 240521
Email: ompar@ompar.com
Website: www.ompar.com

Osram India Pvt. Ltd.

Signature Towers ,11 th Floor,
Tower -B, South City -1, Gurgaon -122001
Contact person: Mr Chandan Bhattacharjee
Contact no.: +91-124-4081581
Email: c.bhattacharjee@osram.co.in
Web: <http://www.osram.co.in/>

Otis India

Magnus Towers, 9th Floor,
Mindspace, Link Road,
Malad (West), Mumbai 400 064
Contact person: Mr. Milan Chaudhari
Contact no.: +91-022-28449700/66795151
Email: milan.chaudhari@otis.com
Web: www.otis.com

Owens Corning

701, 7th Floor, Alpha Building,
Hiranandani Gardens, Powai, Mumbai, India
Contact person: Mr. Abdulkader Bengali
Contact no.: +91-9819987696
Web: www.owenscorning.com

Oxygengenerator/ ING. L&A.

Boschi, India
Okhla Industrial Area, New Delhi.
Web: www.oxygenerators.in

Ocean Extrusions

Plot No.265, Road No.3
Phase-1, Kathwada GIDC,
Kathwada Ahmedabad, Gujarat, India
Mobile: (+91) 9724325401

Ormazabal

Parque Tecnológico,
Edf. 104 48170 Zamudio (Vizcaya) Spain
Contact No.:+34 94 431 77 77
Fax: +34 94 431 87 37
E-mail: ormazabal@ormazabal.com

Orien Paper Machinery Pvt. Ltd.

E-69, Site No. 1,
Industrial Area Bulandshahar Road,
Ghaziabad Pin 201001, India
Tel: 91-120-2866093
Email: info@orienpaper.com
Web: <http://www.orienpaper.com/>

Osho Machines

Mr. Manohar Singh
Sco-352, 2nd Floor,
Sector-9 Panchkula,
Haryana - 134 109, India
Mobile: +(91)-9216899422
Email: sales.oshomachines@gmail.com

Omkar Enterprise

Survey No. 79 / 2,
Dangat Industrial Estate,
Near Aditya Hotel, Shivane,
Pune - 411023, Maharashtra, India
Telefax: +91-20-25454044,
Mobile: +91-93250 97380,
Email: response@powdercoatingplantsindia.com

PALER

Via Ronchetto, 321030 Mesenzana, (VA), Italy.
Contact no.: +39 0332 576414
Email: palser@palser.it
Web: www.palser.it

Panasonic Asia Pacific Pte Ltd.

2nd Floor, Plot no. 31,
Echelon Institutional Area,
Sector - 32 Gurgaon,
Haryana - 122001
Contact no.: +91-124-4596800
Web: www.panasonic.net

Punjab Engineers and Fabricators

G-755-56, Road No. 9-F-2,
VKI Area, Jaipur-302013, India
Tel: 0141 2333478, 9829015145
Fax: 0141-5108478

Pankaj Industries

Gala No. 5, Indo Industrial Estate No. 3,
Navghar, Village,Vasai Road (E),
Thane - 401 210, Maharashtra (India)
Contact No.: +(91)-(250)-2390273/2390734

Paper Board Machinery Company

115, D.L.F. Industrial Area Phase - 1,
Faridabad - 121003, Haryana (India)
Contact person: Mr. Bharat Nagpal
Contact no.: +91-9810256789, 9811071540,
Email: bharatnagpal@msn.com
Web: <http://www.corrugatingmachinery.com/>

Parallels Optimized Computing

Contact person: Mr. Jack Zubarev
 Contact no.: +91-9833464440
 Email: india.sales@parallels.com
 Web: www.parallels.com

Param TechnoSystem Pvt. Ltd.

C6-11,12, Hojiwala Industrial Estate,
 Road No.7, Sachin Palsana Road,
 Surat, Gujarat, India
 Contact person: Mr. Bharat Chaudhari
 Contact no.: +91-9925580000, 98243 76263
 Email: bharat@paramtechnosystem.com
 Web: www.paramtechnosystem.com

Paramount Conductors Ltd.

32, MIDC Industrial Area,
 Nagpur - 440 028 INDIA.
 Contact no.: +91-7104-237316, 237288
 Email: info@paramountconductors.com
 Web: www.paramountconductors.com

Parota Overseas

A-9, 1st Floor, Roshan Market,
 Vishwakarma Chowk,
 Ludhiana - 141003, Punjab, India
 Contact person: Mr. Kamal Saini (Proprietor)
 Contact No.: 91-161-5021720
 Mobile: +919878016041

PaContact no. Furnace & Forging Pvt. Ltd.

(Shot Blasting Division), A/2-510,
 G.I.D.C. Estate, Makarpura,
 Baroda - 390 010, Gujarat.
 Phone: +91 265 2644864/ 2640406

Pecma Air Systems Pvt. Ltd.

301-302, Competent House,
 7, RBC, Commercial Complex,
 Nagalraya, New Delhi - 110046.
 Contact person: Ms. Nikita Pandit
 Contact no.: 011-28520437
 Email: pecma2002@yahoo.co.in
 Web: www.pecmapollutioncontrol.com

Pentaflo Hydro Engineers

Plot No. 6, New DLF Industrial Area,
 Faridabad, Haryana, India
 Contact person: Mr. K. C. Arora
 Contact no.: +91- 9868320222, 9810410408
 Email: pentaflo@airContact no.mail.in
 Web: www.pentaflo.com

Perfect Equipments

No.7, Multi Industrial Estate,
 Gerugambakkam, Chennai, Tamil Nadu
 Web: www.perfectmill.com

Perfect Forging

2, Umakan Pandit Udyognagar,
 Rajkot, Gujarat, India
 Contact person: Mr. Nitin Pa
 Contact no.: +91-9825175011
 Email: info@perfectforging.com
 Web: www.perfectforging.com

Perfect Mechanical System

8-A, National Highway,
 Lakhdihirpur Road,
 Opp: Saheb Ceramics,
 Morbi-363642, Gujarat, India
 Web: www.perfectmachinesystem.com

Phillips Electronics India Ltd.

Motorola Excellence Centre,
 5th floor, 415/2, Mehauri,
 Gurgaon Road, Sector -14,
 Gurgaon -122001
 Contact person: Mr R. Nandakishore
 Contact no.: +91-124-4091900
 Email: r.nandakishore@phillips.com
 Web: http://www.india.philips.com/

Pioneer Furnaces

Plot No. 146-148, G.I.D.C., D1/34,
 Khira Nagar, S. V. Road,
 Vitthal Udyognagar - 388 121,
 Santacruz (W), Via Anand,
 Gujarat, India
 Contact No.: +91-2692-36182/236197/237458
 Email: contact@pioneerfurnaces.com
 Web: www.pioneerfurnaces.com

Pioneer Intertrade

301-303, "A" Wing, Durian Estate,
 Goregaon - Mulund Link Road,
 Goregaon (E), Mumbai India
 Contact no.: +91-22-66787700
 Email: info@pioneerintertrade.com
 Web: www.pioneerintertrade.com

Pioneer Water Solutions

No.18, 1st Floor,
 8th Street, Ashok Nagar,
 Chennai-Tamilnadu
 Web: www.pioneerwatersolutions.com

Plasma House

Work Shop No. 9 & 12,
 B/3, Ankur Building, Gokuldham,
 Film City Road, Goregaon (East),
 Mumbai, Maharashtra.
 Contact person: Mr. Ganesh Suvarna
 Contact no.: +91-9892798796
 Web: http://www.airplasma.net/

Power Hydraulics

Plot - 19, Tass Industrial Estate,
 Sidco, Ambattur,
 Chennai - 600 098,
 Tamil Nadu, India
 Contact person: Mr. M. Anandan
 Contact no.: +91-9444914349
 Email: anandan_power@yahoo.co.in
 Web: www.powerhydraulics.com

Prakash Fabricators

1034, E, Rajaram Road,
 Kolhapur - 416008
 P.O. Box 207, Maharashtra India
 Contact No.: 0091-231-2657328 / 2655379

Prashant Manufactures Company

Gujarat
Phone: +91-281-6596495

PRD Rigs

351, Sankari road,
Tiruchengode, India - 637209
Contact person: Mr. T.T. Paranthaman
Contact no.: +91-9843110011
Email: myrig@prdrigs.com
Web: www.prdrigs.com

Precicut Engineers

Plot No. F-21/1, M.I.D.C. Area,
Chikalthana, Aurangabad - 431 210,
M.S., India
Contact No. : (W) : +91 -240 -2484293, 2481473
Mobile :+91- 98220 61276

Precious Fab Cast Pvt. Ltd.

4809, Phase - IV, G.I.D.C.,
Nr. Water Tank, Vatva,
Ahmedabad - 382445, INDIA
Web: www.preciousfabcast.com

Precision Controls

General Block 115/2/1 Bhosari,
MIDC, Pune - 411026.
Contact person: Mr. Harish Rajput
Contact no.: +91-9921880174
Email: harish.rajputpcindia@yahoo.com
Web: www.precisioncontrolsindia.com

Prem Machine Tools (India)

1M. C. F. 284, Jeewan Nagar,
Near Sector 55, Gaunchhi Road,
Opposite Shyam Medical Store,
Faridabad - 121 004, Haryana, India
Contact person: Mr. Rakesh Kumar Sharma
Contact no.: +91-9212167826
Email: premmachinetools.0@gmail.com
Web: www.indiamart.com/premmachinetools/index.htmlt

Pressels Boilers Pvt. Ltd.

B-13,Industrial Estate,
Madhupatana, Cuttack-753010,
Orissa, India
Contact no.: +91-671-2344746
Email: info@presselsboiler.com
Web: www.presselsboiler.com

Presswell Industries

Plot No-152, Sector-24,
Faridabad -121007,
Haryana, India
Contact no.: +91-129-2233665
Email: info@presswel.com
Web: www.presswel.com

Printech Systems

B-301, 1st Floor,
Okhla Indl. Area, Phase-1
New Delhi-110 020, India
Contact No. : +91-11-4140-7498
Email: dgandotra@printechsystems.in

Pritul Machines

K-1, U.P.S.I.D.C. Industrial Area,
Begrajpur, Muzaffarnagar - 251 203 (U.P.) India
(N.H. 58, On Delhi-Dehradun National Highway)
Contact no.: +91-9557000410, +91-9557000411, +91-9557000412
Web: www.equipmentsmachinery.com / www.pritul.com

Prima Engineering Industries

T -113, Near M.I.D.C. Post Office,
Bhosari, Pune - 411 026, India
Phone: 0091-20-27120621
Email: primabek@pn2.vsnl.net.in
Web : www.primaengg.com

Proking Machinery Co. Ltd.

No.2, Proking Lane, Side Road,
Wufong Township, Taichung County 413, Taiwan
Contact No.: 886-4-23395678
Fax: 886-4-23393366
Email: pklathe@ms39.hinet.net
Website: www.prokingmachinery.com

Protech Industries

S.F. No. 837/B, Idigai Rd.,
Thekkupalam, Periananickenpalayam
Post, Coimbatore-641020
Contact person: Mr. Murugan
Contact no : (0422) 6532030

Proteck Machinery Pvt. Ltd.

3rd Floor, No 7, 1st Main Road,
Gandhi Nagar Adyar, Chennai - 600 020 India
Contact no.: +91-44-24450 715, 24450 716
Email: info@proteck.co.in
Web: www.proteck.co.in

PSI Technologies Inc.

127/1, D.V.G. Road, Basavanagudi,
Bangalore - 560 004, Karnataka, India
Contact no.: +91-9886006908/9886377991
Email: info@psitinc.com
Web: www.psitinc.com

Pyromaster Furnaces Pvt. Ltd.

A13, Sidco Industrial Estate Villivakkam,
Chennai 600 049 Tamil Nadu, India
Contact no.: +91-93828 43998
Email: info@pyromasterfurnaces.com
Web: www.pyromasterfurnaces.com

Pyrotech Engineers & Mfrs.

1050, 5th Street, Cross Cut Road,
Gandhipuram Coimbatore,
Tamil Nadu - 641 006, India
Contact person: Mr. P. Karunakaran
Contact no.: +91-9843272639
Email: pyrotechchengg@rediffmail.com
Web: www.pyrotechchengg.com

Pyung Chang Machinery Co. Ltd

#1066-20, Eobang-Dong,
Kimhae City, Kyungnam, Korea.
Contact no: +82-55-326-2300
Email: pcm2300@pyungchangmc.com
Web: http://www.pyungchangmc.com

Parth Industries

Plot No.544, Phase II,
Near Vatva Railway Station,
G.I.D.C., Vatva, Ahemedabad - 382445
Gujarat, India
Contact No.: +(91)-(79)-25890132 / 25830053 / 25893596
Fax :+(91)-(79)-25893596
E-mail: iyer@parthdyesindustries.co.in;
info@parthdyesindustries.co.in

Perfect Industries (India)

C-65, Focal Point,
Ludhiana - 141010 Punjab, India
Tel+91-161-2671784, 2676751
Fax+91-161-2673784
Email:perfect1@vsnl.com

POLFROST AIR-CON PVT LTD.

Plot No. A-14/7, MIDC, TTC Industrial Area,
Pawane, P.O. K.U. Bazar,
Navi Mumbai 40 705
Contact No.: (91)-(22)-2763 2054 / 2767 1031
Telefax: (91)-(22)-27616493
Fax: (91)-(22)-2763 0220
E-mail: info@polfrost.com

Pune Instruments Pvt. Ltd.

Plot No 47, sector 7, PCNTDA,
Bhosari, Pune-410026
Contact No.: +91 20 30683069
Fax : +91 20 30683073
E-mail: pipl.marketing@gmail.com
Web site: www.puneinstrumentation.in

Pragati Ceramics

Mr. Gopal Bhai Savadia
Tarnetar Road, Near F.C.I. Godown Thangadh,
Gujarat - 363 530, India
Contact No.: +(91)-(2751)-220456 / 221029 / 220345
Mobile: +(91)-9825331312
Fax: +(91)-(2751)-220543
Website: http://www.newprajapatirefractories.com

Parv Engineers

Manvesh Patel (Managing Director)
A-57, Electronics Estate, Sector-25,
G.I.D.C., Gandhinagar- 382 025
Gujarat, INDIA
Mobile : +91 99250 36554
Phone : 079 - 23289234
Fax : 079 - 23289234
Email: parvengineers@yahoo.in

Perfect Bindery Solutions

Unit 4,Ventura Park,Broadshires Way,
Carterton, Oxon UK, 01993 840077,
Email: hannah@binderysolutions.co.uk

Perfect Graphics Private Limited

Mr. R. D. Gupta
No. 1844/ 10, Basement,
Govindpuri Extension,
Kalkaji New Delhi - 110019, Delhi, India
Mobile: +(91)-9310225514,
Tele: +(91)-(11)-26025468, 26025372

Perfect Machine Tools Co. Limited

Mr. Hemant Zope (Director)
TS/41, M.I.D.C., Bhosari,
Opposite Pawana Industrial Estate,
Pune - 411026, Maharashtra, India
Mobile: 08373905657
Fax: +(91)-(20)-27122625

Perfecta Schneidemaschinenwerk GmbH Bautzen

Phone: +49 3591 556-0
Fax: +49 3591 556-119
Email: info@perfecta.de
Web: www.perfecta.de

Pressline India Private Limited

A - 242, Sarita Vihar,
New Delhi - 110076
Phone: 91-11-26943505, 26945505
Fax: 91-11-26947765
Email: bajwa@presslineindia.com

Precision Machinery

Pareira Compound,
Behind Nand Jyot Industrial Estate,
New Silk Mills Road,
Safed Pool, Andheri East
Mumbai - 400072, Maharashtra, India

Printools Graphics Private Limited

80, Small Scale Industrial Area,
Rajaji Nagar, Bangalore, Karanataka,
Pincode - 560 010, India
Phone: +91 80 2315 0737, 2340 2130
Fax: +91 80 2335 2353
Contact person: N.A. Ramana: +91 93412 18183
Email: printools@vsnl.net / ramana@printools.info

Prism Surface Coating Private Limited

Contact person: Mr. R. Muralidhar,
Plot No. 89, 3rd Cross Road,
4th Phase, Bommasandra Industrial Area,
Bengaluru - 560099, Karnataka, India
Call Us: 08377807272

Production Resources Incorporated

118 Seaboard Lane #106
Franklin, Tennessee 37067
Phone: 800-863-3164
Fax: 615-595-8855

Qingdao Judong Industry Co., Ltd.

RM1102 02 Building,
Longjijiayuan, No.77 Lushan Road,
ETDE Qingdao, 266555 China
Contact no.: +86-13953215299
Email: info@yatongroup.com
Web: www.yatongroup.com

Qingzhou Water Conservancy Machinery Co., Ltd.

No. 2317 Middle Tuoshan Road,
Qingzhou City, Shandong Province, China
Contact person: Ms. Linda Lin
Contact no.: +86 13853650116
Email: shalabh@rishabhindustries.com
Web: www.sdsljx.com

Q-tek CNC, Coimbatore

Edan garden FCI Road,
Bharathiya Nagar Ganapathy
Coimbatore - 641006
Contact person: Mr Rajan
Contact no.: 0422 - 2512282
Mob: 9894061700

Quality Metal Products

Anand Nagar, Addl. Ambernath,
Dist. Thane - 421506.
Contact person: Mr. Vishnu Bhat
Contact no : 9867114499

Qingdao Zhongding Machinery Co. Ltd

ZhuHai Road,
Shandong, China 266400
Contact No.: (86)-(532)-85183166

Qingdao Jianlong Machinery Co. Ltd.

No. 118, Shanghai Road, Hongshiyia,
Economic and Technical Development Zone,
Qingdao
Tel: +86-532-83161015 / +86-532-83165177
Fax: +86-532-83165177
E-mail: info@qd-jianlong.com
Web: www.china-press.com

R.K. Engineering Works

No. 2 - 11/A, Ram Mandir Estate,
Near Sharma Estate, Goregaon
East Mumbai - 400 063,
Maharashtra, India
Contact no: +(91)-(22)-26851497 / 26852023

R.K. Engineering Works

A-43, Street No. 6,
Anand Parbat Industrial Area,
New Rohtak Road,
New Delhi - 110005, India.

R.R. Plast Extrusions Pvt. Ltd.

B-3, Nand Jyoti - Ind. Estate,
Safed Pool, Sakinaka,
Andheri - Kurla Road,
Andheri (E), Mumbai - 400 072
Contact no: 022-28520396
Email: rrengg@vsnl.net
Web: www.rrplast.com

R.R. & Sons

B-20, Vinayak Complex Jaipur,
Tel: 9829064686
Mob: 9829064686

Rabatex Industries

C-1/356 GIDC Estate,
Opp. Housing Colony,
Odhav, AHMEDABAD 382415
Contact No. :0091 79 22871356, 22891366,
22976844, 22891996, 22892483
Fax : 0091 79 22872851, 22891975
E-Mail: rabatexad1@sancharnet.in;
sales@rabatex.com
Web: http://www.rabatex.com

Radhe Renewable Energy Development Pvt Ltd.

Plot No. 2621/2622; Road No-D/2,
Gate no.1; Lodhika, GIDC,
Methoda, Kalvad Road, Rajkot
Contact no.: 0287-287888/287889
Web: www.radhenergy.com

Raj Industries

Sr. No. 15/1, Dwarkesh Industries Estate,
Gulve Vasti, Bhosari, Pune - 26.
Contact person: Mr. Abhijeet Mane
Contact no.: +91-9689108978
Email: rajepsindia@gmail.com
Web: www.rajepsmachinery.com

Raj Process Equipments & Systems Pvt. Ltd.

Jai Ganesh Vision,
3rd Floor B Wing,
Jai Ganesh Fame Buildi,
Contact person: Mr. Manish Athavale
Contact no.: +91-9766441144
Email: manish@rajprocessequipment.com
Web: www.rajprocessequipment.com

Rajesh Engineering Works

New Nehru Nagar Main Road,
Plot No. 7, 2 - Kailashpati Society, Dhebar
Road (South), Opp. PaContact no. Arts, "ATIKA"
Industrial Area, Rajkot - 360 004 (Gujarat - INDIA)
Web: www.rajeshpowerpress.com

Rajoo

Survey No. 210, Plot No.1,
Rajoo Avenue, Industrial Area,
Veraval (Shapar), Rajkot - 360 002, Gujarat
Contact no: 02827-252701
Email: rel@rajoo.com
Web: http://www.rajoo.com/

Rajsen Machines Tools

2/2 Reddipalyam Road,
Mugappair West Industrial Estate,
Chennai, India
Contact person: Mr. V. Senthilkumar
Contact no.: +91-44-43537446, 26242111
Email: rajsenvt@yahoo.co.in sales@rajsen.com
Web: www.sinpolinearscale.com

RAM SRL

Via S. Felice, 17-25012 Calvisano, Italy.
Contact person: Mr. Roberto Rodella
Contact no.: +39-030-9968587
Web: www.ramitaly.it

Rama Machinery Manufacturing Industries

107, Industrial Estate,
Ambala Cantt - 133006, Haryana, India.
Contact no: 91-171-2699288/2651998
Fax: 91-171-2699288/2651376

Ramiconsultancy

A/8 Jivan Park Co. op. Housing society ,
Nr. Samrat Nagar, Isanpur Chokdi,
N.H.No.8, Ahmedabad-382 443, India.
Web: www.ramiconsultancy.com

Ramsons Garment Finishing Equipments (Pvt) Ltd.

Contact No.: 91-421-2209311/2249180/2206461

Rapidpack Engineering Pvt. Ltd.

Rapidpack House,
Survey No. 66, Plot No.18,
Village Waliv, Vasai (East),
Dist. Thane - 401208,
Maharashtra
Contact no: 0250-2480749
Email: infor@rapidpack.com
Web: www.rapidpack.com

Rassi Refractories Ltd.

H.No. 6-3-349/20,
Alpha Business Centre,
2nd Floor, Road No.1
Banjara Hills, Hyderabad- 500 034
Tel: +91-40-55511345 / 55511347 / 23355462
Fax: 23355461

Rattan Hammers

Mundian Khurd, Chandigarh Road,
Ludhiana, Punjab, India
Contact person: Mr. Jagmeet Singh
Contact no.: +91-9876120925, +91-161-2685234
Email: info@hammersindia.com
Web: www.hammersindia.com

Ravi Power Press

56, Hastsal Village,
Uttam Nagar, New Delhi, India.
Contact person: Mr. Varun Bembi
Contact no.: +91-9899568881, 9350781106
Email: vbembi@gmail.com varun@ravipowerpress.com
Web: www.ravipowerpress.com

Red Line Industries Limited

232 Kaliandas Udyog Bhavan,
Behind Century Bhavan, Prabhadevi,
Mumbai - 400025, Maharashtra, India
Contact no. : +91-22-24324737 / 24324787 / 32968954
Fax : +91-22-66466936
Email: response@powdercoatingequipments.in

Reddy Generators

12-13-200, Sri Nilayam,
First Floor, Street No#1,
Tarnaka, Secunderabad- 500017
Contact no: 040- 27017399

REDEMA

D.P.102 (SP) Ambattur Indl. Estate,
Chennai - 600 058. INDIA
Tel: +91-44-26252717, 26252738, 26258195
Fax: +91-44-26257908
E-mail: raju@redema.in

REIFENHÄUSER (India) Marketing Ltd.

229, Udyog Bhavan
Sonawala Road, Goregaon (East),
Mumbai 400 063, India
Contact no.: +91-22-2686 2711
Email: sales@reifenhauerindia.com
Web: www.reifenhauer.com

Rekofa Small Tools Pvt. Ltd.

10542, St. No. 9, Partap Nagar,
Ludhiana, Punjab, India.
Contact person: Mr. Jaspal Singh
Contact no.: +91-9814021475, 9888200084
Email: info@rekofaindia.com
Web: www.rekofaindia.com

Reliance Solar Energy

Building No. 5C,1 st Floor,
Reliance Corporate Park,
Thane- Belapur Road,
Ghansoli, Navi Mumbai, India
Contact no.: +91-22-44770000,
+91-11-40658565,413
Email: sales.reliancesolar@ril.com
Web: www.relsolar.com

Reshmi Industries (India) Pvt Ltd.

S. F.No -274, Vilankurichi Road,
Anna Pvt Industrial Estate, Coimbatore - 641 035
Contact no.: +91-422-3251294 /
+91-422-3251296
Fax +91-422-2513966
Email: reshmi@reshmiindustries.com
reshmi@airContact no.mail.in, reshmi@vsnl.com

Rhino Machines Pvt Ltd.

Plot no 1, GIDC Phase II,
Vithal Udyognagar- 388 121,
P.O. Karamsad, Dist. Anand, Gujarat
Contact no: +91-2692-653099
Email: rhino@rhinomachines.net
Web: www.rhinomachines.net

Riken Instrumentation Ltd.

369, Phase 2, Industrial Area,
Panchkula, Haryana, India
Contact person: Mr. Vinayak Parashar
Contact no.: +91-172-2591651
Email: support@rikenindia.com
Web: www.rikeninstrumentation.com

Rinac India Ltd.

#5 Saraswati Nivas, Main Channel Road,
Ulsoor, Bangalore 560 008
Contact No.: 080 25542998, 41132929 / 98
Fax: 080 25511750
Email:rilco@rinac.com
Website: www.rinac.com

Rishi Laser Ltd.

611, Veena Killedar Industrial Estate,
10/14 Pais Street, Byculla(W),
Mumbai 400 011
Contact person: Mrs. Sunu Reji
Contact no.: +91-9821845074
Email: services@rishilaser.com
Web: www.rishilaser.com

Rockwell Automation

Shinkawa Sanko Building, 8F,
1-3-17, Shinkawa Chuo-ku 104-0033, Japan
Tel: 81 3 3206 2781, 81 3 3206 2786 (Sales)
Fax: 81 3 3206 2796

Roots Enviro Systems (P) Ltd.

26/2, Snuff mill street, Kolkata-700 056, West Bengal
Web: www.rootsenviro.com

Ross Boilers

33, Al Ameen Society,
Gultekdi, Pune, Maharashtra, India
Contact person: Mr. Suhail Shaikh
Contact no.: +91-20-24269393, 24272293
Email: sales@rossindia.com
Web: www.rossindia.com

Rui'an City Donghai Printing Machinery Co. Ltd.

No. 508, Rui'an-Wenzhou Road,
Wenzhou City, Zhejiang Province, China
Contact person: Ms. xu Spring
Contact no.: +86-15857780518
Web: <http://www.dong-hai.net/indexe.html>

Reliable Refractories Pvt. Ltd.

13/4, New Swapneel, Kanti Nagar,
J.B. Nagar, Andheri (East),
Mumbai - 400059 Maharashtra, India
Contact No.: +(91)- (22) - 28231870
Fax: +(91)- (22) - 28231864

Ruei Industries

27 A, South Street No - 4, Avarampalayam,
Coimbatore - 641006, Tamil Nadu, INDIA
Contact No.: (0422) – 2900657
Telefax: (0422) – 4273550
Mobile: 93632 05424
E-mail: ruei@rediffmail.com
Website: www.rueiindustries.com

R.K. Transonic Engineers Pvt. Ltd.

Mr. Rajendar Pal, Address-B-109,
Sector-6, Noida, U.P.- 201 301, India
Tele: +(91)-(120)-4317398
Fax: +(91)-(120)-4346654
Mobile-+(91)-9811252851

Ranasons Pvt. Ltd.,

128-A, Govt. Indl. Estate, Charkop,
Kandivali (W), Mumbai - 400067
Phone: 91-22-28683897, 28696621, 28684709, 28684181
E-mail : ranasons@gmail.com,
Fax : 91-22-2868 2244

Sabin Enterprises

Punwani Chambers 7B,
Kiran Shankar Roy Road,
3rd Floor Kolkata 700001, India
Contact person: Mr. Govindan Sasidharan
Contact no.: +91 33 22430468/69
Email: central@recuperators.in
Web: <http://www.blockmachines.biz>

Sagar Engineering Works

419, Industrial Area - A,
Ludhiana – 141003, Punjab, INDIA
Contact person: Mr. Jaswant Singh Sagar
Contact No.: +91-161- 2227174, 2227175, 5199010
Fax :+91-161- 2601336
Email: info@sagarengg.com

Sahajanand Laser Technology Ltd.

E-30, Electronic Estate, G. I. D. C.,
Sector - 26, Gandhinagar - 382 028, Gujarat.
Contact No: +91.79 .232 874 61
Email: sales@sahajanandlaser.com
Web: <http://www.sahajanandlaser.com/>

Sahil Graphics

Plot No 62, Sector-59,
HSIDC Industrial Estate Faridabad,
Haryana - 121 004 India
Contact person: Mr. Shafiq Ahmad
Contact no.: +91-9810130039
Email: sahiloffset@yahoo.co.in
Web: <http://www.sahilgraphics.com/>

Sahora Impex India Private Limited

411-A, Bharathiyar Road, New Siddhapudur,
Coimbatore - 641044, Tamilnadu
Web: www.sahora.in

Sai Electricals

Sai Dham, Victoria Park,
Meerut, Uttar Pradesh, India
Contact no.: +91-121-2762660, 2760512
Email: sales@sialectricals.com
Web: www.sialectricals.com

Sai Thermoformers

25, DSIDC Shed, Okhla Industrial Area,
Phase-1 New Delhi-110020, India
Contact No.: +91-11-32913304, 29956897, 40501799
Residence: +91-11-40501799
Mobile: +91-9999777308, 9312505493
Email: info@saithermoformers.com

Saint Gobain Glass India Ltd.

A-1 SIPCOT Industrial Park,
Sriperumbudur, Kanchipuram District,
Tamil Nadu, India
Contact no.: +91-4111- 262832, 39
Web: www.saint-gobain.co.in

Saka Engineering Systems Pvt. Ltd.

Plot No W45, T Block, MIDC Bhosari,
Pune 411026, Maharashtra, India
Tel: 91-20-27110011
Email: sales@sakaindia.com
Web: <http://sakaindia.com/>

Samarth Air Tech Pvt. Ltd.

Contact No. : 91-79-29295056/25841742
Mobile: +919825234539

Samsung

Contact no.: +91-1800 110011, 30308282
Web: www.samsung.com/in

Sanki Machine Tools India Pvt. Limited

301 / 302, Deepali Darshan, Jayprakash Nagar,
Road No.5, Goregaon (East), Mumbai - 400063, Maharashtra, INDIA
Contact no: +91-22-26861326 / 65215111 / 65215005,
91-80-41213976 (Bangalore)
Fax : +91-22-26864311
Email: response@sankimachinetools.com / s_m_t@vsnl.com

Sanovac Technology Limited

Rm.804, Sino Centre, 582-592 Nathan Rd.,
Kln.H.K, HongKong, P. R. CHINA.
Contact no: +852-23840332
Email: info@sinovacuum.com

Sanprem Consultants

31 Indira Nagar, Avanashi Main Road,
Tiruppur, Tamil Nadu, India
Contact person: Mr. Arun Raj
Contact no.: +91-9994775848
Web: www.indiamart.com/company/1688874

Sant Engineering Company

9, Community Center,
Vasant Vihar, New Delhi, India
Contact person: Mr. Prem Bimbra
Contact no.: +91-9812069660/9215539909
Email: info@rubberplasticmachinery.com
Web: www.rubberplasticmachinery.com

Santec Exim Private Limited

Plot No. 92/6, Road No. 1,
Mundka Udyog Nagar, Mundka Ex.
Contact person: Mr. U.K. Sangal
Contact no.: +91-9811664677, 9717598990
Email: uksangal@santecindia.com, sales@santecindia.com
Web: www.santecindia.com

Santha Engineering

No.8, Rathinam Garden 1st Street,
Hospital Road Extension,
West Saidapet, Chennai - 600 015
Tel: 91-44-24896600
Email: santhaengineering@yahoo.com
Web: http://www.chillersindia.in/

Santosh Rubber Machinery Pvt. Ltd.

15, Vishveshwar Nagar, Off Aarey Road,
Goregaon (East), Mumbai - 400 063
Contact no.: +91-22-28742134
Email: santosh_gc@vsnl.net
Web: www.santoshrubbermachinery.com

Sarlech Electro Systems

14698, Bhagwan Nagar, Near Dada Motors,
G.T Road, Ludhiana, Punjab
Web: www.sarlechgroup.com

Sarvasv Industrial Corporation

A-153, Shivalik, Opp. Aurobindo College,
New Delhi - 110 017, India
Contact person: Mr. Amit
Contact no.: +91-11-66401582, 66401583, 26371583
Email: amit@sarvasv.com
Web: www.sarvasv.com

SaContact no.lite Plastic Industries

2-A2, Court Chambers,
35 New Marine Lines 400 020,
Mumbai INDIA
Contact person: Mr. Haren Sanghav
Contact no.: +91-22-22006477
Email: saContact no.lite@vsnl.com
Web: www.presma.it

Satake International Bangkok Co. Ltd.

888/84 Mahatun Plaza Bld.,
8th Floor, Ploenchit Rd. Lumpini,
Pathumwan, Bangkok, 10330, Thailand
Contact No.: 66-2-651-5845
Fax: 66-2-651-5848
Website: www.satake-group.com

Satake Corporation

2-30 Sajio Nishihonmachi,
Higashi-Hiroshima-shi,
Hiroshima-ken, 739-8602, Japan
Tel: 81-82-420-0001
Fax: 81-82-420-0004
Web: www.satake-group.com/

Savita Machine Tools Pvt. Limited

Plot No - 2560, Sr. No. 595/2,
Behind Kolhapur Axe,
Near M.I.D.C., Shiroli,
KOLHAPUR - 416122,
Maharashtra., INDIA
Contact no: 93711 00524

Schneider Electric India

A-29, Mohan Cooperative Industrial
Estate, Mathura Road,
New Delhi-110044, India
Contact person: Mr. Amit Chadha
Contact no.: +91-9953330043
Email: in.schneider-electric.com
Web: www.schneider-electric.co.in

Screenotex Engineers (P) Ltd.

Mohmad Sarif Devdiwala Compound,
Near Weizmann Ltd.,
Narol-Vatva Road, Narol,
Ahmedabad - 382 405,
Gujarat State (India)
Contact no.: +91-79-25715288
Email: screenotex@icenet.net
Web: www.screenotexprint.com

Sea Bird Refrigeration Pvt. Ltd.

282, Patparganj Industrial Area,
Patpar ganj, New Delhi, India
Contact person: Mr. Vijay Kumar Maini
Contact no.: +91-11- 22155684, 22148267
Email: info@amoking.com
Web: www.amoking.com

SECO Warnick Pvt. Limited

Allied House Road No.1,
Opp. B.M.C.Office, Chembur,
Mumbai - 400 071, INDIA
Contact no: +91-22-2528 4028,29,30,31,32,
+91-22-67973018,19,20

Seemsan Pumps & Equipments Pvt. Ltd.

M-5&7, Samrat Bhawan,
Ranjeet Nagar, New Delhi, India
Contact person: Mr. Sanjay Dimri
Contact no.: +91-11-25708648
Email: info@seemsanpumps.com
Web: www.seemsanpumps.com

Selco International Ltd.

H. No. 1-1-336/49, Viveknagar,
Chikkadpally, Hyderabad 500020, Andhra Pradesh
Contact no.: +91-40-27630677
Email: selco@selco.co.in
Web: www.selco.co.in/

Senior Print-Pack Machinery Company

15-3-4 to7, Prajy Mall Complex,
Gowaliguda Chaman, Hyderabad - 500 012
Contact person: Mr. Kawaljit Singh
Contact no.: +91-9391046397
Email: info@seniorprintpack.com
Web: www.corrugatedmachinery.net

SGR INDIA ENGINEERING COMPANY

EG - 132, Ladowali,J alandhar, Punjab

Shachi Engineering Pvt. Ltd.

7, Brilliant Chambers,
84, Mayur Colony, Kothrud, Pune, India
Contact person: Mr. M.S. Shanbhag
Contact no.: +91-9822019088, 9371026954
Email: shachi_engineering@vsnl.com,
shachidryers@eth.net,
Web: www.shachiengg.com, www.shachiindia.com

Shah Electronics

A-3, Manohar Villa,
New Naroda, Nicol Road,
Contact person: Nr. Naroda Canal,
Nicol, Ahmedabad, Gujarat, India
Contact person: Mr. Hitesh Shah
Contact no.: +91-79-22820421,22813396
Email: sales@shahelectronics.net
Web: www.shahelectronics.net

Shailesh Group of Industries

10, Bhaktinagar Station Plot,
Rajkot - 360 002, Gujarat, India.
Contact no.: +91-281- 2461102
Email: bharat@shaileshmachines.com
Web: www.shaileshmachines.com

Shandong Xinghe Import & Export Co. Ltd.

No.213, Huayuan Road, Jinan, China
Contact No.: +86-531-83197106
Fax: +86-531-83197107
Website: www.xinghejn.com

Shanghai Electric International Economic & Trading Co., Ltd.

F5-6, No. 268 Zhongshan Road (S),
Shanghai 200010, P.R. China
Contact person: Mr. Ban Gong Shi
Contact no.: +86-21-51156622
Email: smec@smec.net
Web: www.smec.net

Shanghai Panzhihua Machinery Plant

No.898 San Shahong Road,
Chongming Industrial Park in Shanghai
Contact No : 13901683997
Email: PZH@shpzh.com.cn
Web : www.shpzh.com.cn

Shanghai Esong Mining Machinery Co. Ltd.

Contact person: Wayne
Contact No.: +86-21-60820915
Cell: +86-15000238754
Fax: +86-21-60820909
Email: esong03@zesong.com

Shanghai Eterna Machinery Co., Ltd.

No. 1125 Taishun Road Anting Town,
Jiading District Shanghai,
China
Tel: 86-21-64262538
Fax: 86-21-64262153

Shanghai Sunshine Advanced Technology Corporation

RM309, 445 Jianguo Road (W),
Shanghai, China - 200031
Contact No.: 0086-21-64336397
E-mail: shsunshine@china.com
Web : www.outstandmch.com

Shanghai Zhongli Machine Manufacture Co. Ltd.

350, Zhongchuan Road,
Anting Town, Jiading District,
Shanghai, China - 201814
Contact No: 086-21-59106880
Email: lyalucyliu@yahoo.com
Web: www.sh-zljx.com

Shantou Yuedong Vacuum Equipment Manufacture Co., Ltd.

Fudong Industrial Area,
Shanzhang Road,
Shantou City Guangdong Province,
Pin Code: 515065, China
Contact No.: 0086-754-88670187/88395012
Fax: 0086-754-88670925/88395013
E-mail: ydzk@ydzk.com
Website: Http://www.ydzk.com

Shenzhen Orena Laser Equipment Co., Ltd.

Orena building, No. 691,
Longjing Road (W), Xili,
Nanshan District,
Shenzhen City,
Guangdong, China
Contact No.: +86 -755-8623 3833 /
2679 7854 / 2678 0292
Fax: +86 -755-2658 4386
E-mail: lance.xie@orenalaser.com
Website: www.orenalaser.com

Sheth Printograph Pvt. Ltd.

E-21 Sector XI,
Noida 201 301, U.P. India
Contact person: Mr H.V. Sheth
Contact no.: +91-9810125836
Email: sheth@nda.vsnl.net.in
Web: www.dayaprintograph.com

Shikovi Heat Gen Technologies Pvt. Ltd.

W-369, MIDC,
Rable, Post- Ghansoli,
Navi Mumbai - 400701
Web: www.shikovi.com

Shreya Engineering Works

Zone - E - 3, Shed No. C - 1/309,
Opposite Old Telephone Exchange,
Vitthal Udyognagar, Anand,
Gujarat - 388 121, India
Contact Person: Mr. Paresh Prajapati (Proprietor)
Contact No.: +(91)-(2692)-232185
Mobile: +(91)-9427004851
Fax: +(91)-(2692)-232185,
Email : p1_prajapati@yahoo.com
Website: www.shreyaengineering.co.in

Shree Ancillary Industries

B-10, Giriraj Industrial Estate,
Mahakali Caves Road, Andheri (East),
Mumbai - 400 093 India.
Tel: 022-26874914 / 26870287;
Fax: 0091-22-26870802;
Web: www.saimpl.com

Shrijee Heavy Projects Works Ltd.

A-504 / 505, Dynasty Business Park,
J.B. Nagar, Andheri-Kurla Road,
Andheri (East), Mumbai- 400059
Contact no: +91 22- 40501000
Email: wind@shrijee.com
Web: www.shrijee.com

Shriram Energy Systems Ltd.

7-1-29, United Avenue (North End),
G1 B – Block Ameerpet,
Hyderabad-500016, Andhra Pradesh
Contact no.: 040 -23739552
Email: shriramenergy@yahoo.com

Shriram EPC Ltd.

No.9, Vanagaram Road, Ayanambakkam,
Chennai, India.
Contact person: Mr. T. Shivaraman
Contact no.: +91-44-26531592, 26533313
Email: info@shriramepc.com, shriramepc@airContact no.mail.in
Web: www.shriramepc.com

Shyam Plastic Machinery

C-1/4512, Phase-IV, GIDC,
Vatva, Ahmedabad-382445, Gujarat, India
Contact no: 079-2584 1258
Web: www.shyamplastic.com

Siemens Ltd.,

384, Phase II, Udyog Vihar,
Gurgaon, Haryana, India.
Contact person: Mr. Lalit Maheshwari – Business Unit Head
Contact no.: +91-124-4578100
Email: lalit.maheshwari@sbtdats.com, contact.india@siemens. com
Web: www.sbtdats.com

Siemens VAI Metal Technologies

384, Phase II, Udyog Vihar,
Gurgaon, Haryana, India
Contact person: Mr. Lalit Maheshwari – Business Unit Head
Contact no.: +91-124-4578100
Email: lalit.maheshwari@sbtdats.com,
contact.india@siemens. com
Web: www.industry.siemens.com/metals/en/

Sigma Electricals

A - 10 Friends Estate,
Pokhran Road No. 1,
Upavan, Thane - 400 606,
Maharashtra, INDIA
Contact no.: +91-22-65771497
Email: response@sigmaelectricals.com
Web: www.sigmaelectricals.com

Simplex Engineering Works

Address G.T. Road,
Amritsar Bye Pass Chowk Batala,
Punjab – 143505, India
Contact person: Mr. Sahil Aggarwal
Contact No.: +91-1871-242518
Fax: 91-1871-242518
Mobile: +91-9988155952
Email: info@simplexmachines.com
Web: www.workshopmachines.net

Simplicity Engineers Pvt. Ltd.

B-99, Mayapuri, Phase - I,
New Delhi - 110064
Contact no: 011-28115978
Email: simplicity@vsnl.com
Web: www.simplicityfurnaces.net

Singhal Power Press Pvt. Ltd.

202, Karma Stambh,
Industrial Estate, Opp. MTNL Office,
LBS Marg, Vikhroli (W),
Mumbai-400083
Contact no.: +91-22-67969652
Email: headoffice@sewpresses.com
Web: www.sewpresses.com

Singhs Industries

203, East Mohan Nagar,
Amritsar, Punjab, India
Contact person: Mr. Onkar Singh / Ms. Deepali
Contact no.: +91-183-2582049, 2588050
Email: singhs@jla.vsnl.net.in
Web: www.singhsindustries.com

Singla Forging Pvt. Ltd.

165-166, I.D.C., Hissar Road,
Rohtak, Haryana, India.
Contact person: Mr. Pankaj
Contact no.: +91-1262-267628, 270628
Email: pankaj@singlaforging.com
Web: www.singlaforging.com

Sintech Precision Products Ltd.

C-189/190, Bulandshahar Road Industrial Area,
Site no. 1, Ghaziabad - 201001 (U.P.) - INDIA
Contact no.: +91-120-4176000 (30 Lines)
Email: info@sintechpumps.com
Web: www.sintechpumps.com

Sinto S-Precision Ltd.

260-63 Hase, Atsugi City,
Kanagawa Prefecture 243-0036
Tel: 81-46-400-0001
Fax: 81-46-282-9163
Web: http://www.sinto-sp.co.jp/

Sirus Electronet India Pvt. Ltd.

203, Shiva Towers, 1-10-245, Ashok Nagar Extn,
Hyderabad - 500 020, Andhra Pradesh
Contact person: V. Sridhar
Contact No.: +91 40 27636398, 27675001
Email: sirusindia@gmail.com, sirusindia@yahoo.co.in

Skandia Sales & Services Pvt. Ltd.

1-B, General Collins Road,
Choolai P.O., Chennai - 600 112, India
Contact person: Mr. G.S. Tyagi
Contact no.: +91-9810526719
Web: www.webindia.com/skandia

Skyflex Engineering

1D/2 BP, 2nd floor, Hardware Chowk, NIT
Faridabad - 121001, Haryana
Contact no: 9310840177
Email: sky_flex1@yahoo.co.in

SMT Machines (India) Limited

P. Box. 71, G. T. Road,
Mandi Gobindgarh, Punjab, India
Contact person: Mr. Raman Mittal
Contact no.: +91-9357755555, +91-1765-256337
Email: info@smtsteelmills.com, info@smtmachinesindia.org
Web: www.smtsteelmills.com

SOCO Machinery Co. Ltd.

No.3, Jingke E. Rd., Nantun Dist.,
Taichung City 40852, Taiwan
Contact No. : 886-4-23591888
Email: sales@soco.com.tw
Web: www.soco.com.tw

Sohal Electric Works

13243, Link Road, Dholewal Chowk,
Ludhiana, Punjab, India,
Contact person: Mr. Darshan Singh Sohal
Contact no.: +91-9815703366, +91-161-2532255
Email: mail@sohal.org
Web: www.sohalwelding.com

Solanki Mechanic Works

40-W, G.I.D.C., Bhaktinagar Industrial Estate,
Rajkot - 360 002, Gujarat
Contact No.: 91 281 2362189, 2373847
Fax: 91 281 2376386
Email: info@soliyo.com
Website: www.soliyo.com

Sonderhoff Engineering GmbH

Allgäustr, 3, 6912 Hörbranz, Austria
Contact No.: +43 5573 82991
Fax +43 5573 82946
Email: info@sonderhoff.com
Website: www.sonderhoff.com

Southern Carbon Pvt. Ltd.

6/590 B Industrial Development Area,
Binanipuram P.O., Cochin, Kerala, India 683502
Contact person: Mr. Binoy Haris
Contact no.: +91-9995821114
Email: southcarb@gmail.com
Web: www.southerncarbons.org

Sparrow Tex Engineering Works

Surat - 395 005, Gujarat
Contact nos: +(91)-(261)-2892173
Email: sparrowtexeng@gmail.com

Sree Sakthi Equipments Company

898/2, BETTATHAPURAM,
KARAMADAI, Coimbatore - 641104,
Tamil Nadu, India
Contact no: 91-4254-273135/272165
Fax: 91-4254-272495

Sri Lakshminarasimha Engineers (P) Ltd.

C-11, Private Industrial Estate, Kurichi,
Coimbatore, Tamil Nadu - 641 021, India
Contact person: Mr. G. Sudhinder
Contact No.: +(91)-(422)-2675411/2344882
Mobile: +(91)-9843113575
Fax: +(91)-(422)-2675411

Srinidhi Engineers

C401, Kshitij C.H.S,
Wagheshwari Temple,
Filmcity Road, Goregaon East,
Mumbai 400063
Contact person: Mr. Ramachandra K Kamath
Contact no.: +91-9869008165
Email: srinidhirk@gmail.com
Web: www.srinidhiengineers.com

SSP Private Limited

13 Milestone, Mathura Road,
Faridabad, Haryana, India.
Contact person: Mr. Shaukat Ali
Contact no.: +91-129-2277442, 2275968
Email: info@sspindia.com, etp@ssp.co.in
Web: www.industrialeffluenttreatment.com

Steer Engineering India

290, 4th Main, 4th Phase,
Peenya Industrial Area,
Bangalore 560 058, India
Contact no : +91-80-23723309 / 10
Email: info@steerworld.com
Web : www.steerworld.com

Stenmech Engineering Works Pvt. Ltd.

Gujarat,
Contact no: 91-261-2399620

Stork India

A-305, Somdutt Chambers-1,
5-Bhikaji Cama Place,
New Delhi -110066
Contact no.: +91-11-26716517
Email: storkdel@spectranet.com
Web: www.storkindia.com

Strojovsít

Vrchlického 22 794 01,
Krnov eská republika
Contact person: Ing. Petr Jonáš
Contact no.: +420 554 691 469
Email: jonas@strojovsít.cz
Web: www.strojovsít.eu

Suba Solutions Pvt.Ltd.

29, Devadi Street, Mylapore,
Chennai Tamil Nadu - 600 004 (India)
Contact person: Mr. V. Vaidyalingam
Contact no.: +91-44-32978312/45012070
Email: vaidy@subasolutions.com
Web: www.subasolutions.com/

Sud and Waren Pvt. Ltd.

Plot No. - 72, Sector-6,
Industrial Estate Faridabad - 121 006,
Haryana, India
Contact person: Mr. R.R. Garg
Contact no.: +91-129-2242342
Email: sud@sudwaren.com
Web: www.sudwaren.com

Sudhir Gensets

Plot No-1, Sector-34, E.H.T.P.,
Gurgaon, India.
Contact no.: +91-124-4168000
Email: info@sudhigensets.com
Web: www.sudhigensets.com

Sukan Engineering Pvt. Ltd.

302, Acme Plaza, Andheri Kurla Road,
Andheri (East), Mumbai, India.
Contact no.: +91-22- 28235705, 06, 07, 09.
Email: sukanengg@vsnl.com
Web: www.sukan.co.in

Sunita Engineering Corporation

D-3, MIDC, AMBAD, Nasik, India
Contact person: Mr. Nitin Kelkar
Contact no.: +91-253-3262111, 3262555
Email: sales@secengraving.com
Web: www.secengraving.com

Sun Beam Machines India Pvt. Ltd.

No. 141, I.D.A., Bollaram,
Hyderabad- 502325,
Andhra Pradesh, India
Contact No.: +91-8458-279723 / 279079.
Email: sunbeammachines@yahoo.co.in
Web : www.sunbeammachines.com

Sunrise Process Equipments

A-102, Rameshwari Tower,
Shimpoli Road, Near Gokhale High School,
Borivali (West), Mumbai - 400092
Contact person: Mr. Ravi Bhosekar
Contact no.: +91-9321062105
Email: speqco@gmail.com
Web: www.sunriseequipments.com

Suntrack Energy Systems Pvt. Ltd.

Contact Person: Mr. Kishore
Plot No. 3004, Phase IV,
GIDC Estate Vatva,
Ahmedabad 382445

Sunworld Vitrified Pvt. Ltd.

Sr. No.199/P,
Mahendranagar Morbi,
Rajkot, Gujarat-363642

Super Sujata

271-A, East Mohan Nagar,
Amritsar, Punjab, India
Contact person: Mr. Kawaljit Singh
Contact no.: +91-183-2581186, 5094792
Email: info@supersujata.com, associat2003@yahoo.com
Web: www.supersujata.com

Surajbhan Commodities Pvt. Ltd.

137, Canning Street,
3rd Floor, Room No.41, Kolkata, India
Contact person: Mr. Vinod Kr. Agarwal
Contact no.: +91-9830062971, 9830079995
Email: vinod@surajbhangroup.in,
Web: www.surajbhangroup.in

Surface Engineering

Via Quadretto 20013,
MAGENTA (MILAN), ITALY
Contact no: +39-0297003431
Email: info@surfaceengineering.eu
Web: www.surfaceengineering.it/

Surjeet Industries

491, Patparganj, F.I.E. Industrial Estate,
Delhi-110092 INDIA
Contact person: Mr. Surjeet Singh
Contact no.: +91-9811212574 / 9811893322
Email: surjeet@surjeetindustries.com
Web: www.surjeetindustries.com/

Surya Roshini Ltd.

Motorola Excellence Centre, 5th floor
415/2,Mehauri Gurgaon Road,
Sector -14, Gurgaon -122001
Contact person: Mr B.B. Pradhan
Contact no.: +91-11-25759051
Email: r.nandakishore@phillips.com
Web: www.srosrini.com/

Suzhou Fangzhou Aerial-model Co., Ltd.

MaoPeng Road, 658#,
XuKou industrial Park,
SuZhou, JiangSu, China
Contact person: Mr. Jiang Jian Er
Contact no.: +86-512-68081280
Email: jennerjiang@gmail.com, jiangjianer@hotmail.com
Web: www.xdfly.com/en_index.asp

Suzhou Jwell Machinery Co. Ltd.

18,Dong'an Road, Chengxiang Industrial Zone,
Taicang, Suzhou City, China
Contact No.: +0512-53377272
Fax: +0512-0512-53377399
Email: salbn@jwell.cn
Website: www.szjwell.cn

Suzhou Kexing Concrete And Cement Product Equipment Co. Ltd.

Shed No. 127A,H.S.I.D.C.Ind.
Area,Sector-59, Faridabad-121005, India
Contact person: Mr. Shalabh Jain
Contact no.: +91 129-4154489
Email: shalabh@rishabhindustries.com
Web: www.moldfollow.com

SVS Hydraulics

Shed No. 2,
AP Agro Work Shop Complex,
HMT Town Ship,
Chintal, Hyderabad - 500 054
Web: www.svshydraulics.com

Swaraj Mazda Ltd.

S.C.O. 204-205, Sector 34-A
Chandigarh- 160022
Contact person: Mr. Ravinder
Contact no.: +91-172-2667873
Email: ravinder@swarajmazda.net
Web: www.swarajmazda.net/

Swastic Group of Companies

Ahmedabad
Contact no: 079-6543 5017, 2274 3553/2274 9068

Swish Technologies

Coimbatore
Contact No.: +91-422-2647790

Seaga India Pvt. Ltd.

309A MIE, Bahadurgarh,
Haryana - 124 507 INDIA
Contact No.: (0091)-(12)-7626 8122
Fax: (0091)-(12)-7626 7079
Email: info@seagaindia.com

S.S. Gas Lab Asia

Ms. Vandana
No. A-6/3, Jhilmil Industrial Area,
G.T. Road, Delhi - 110 095, India
PHONE: +(91)-(11)-22583963 / 22583247 / 22134816 /
64703652 FAX: +(91)-(11)-22592770 / 22134814
Email: raghav@ssgaslabs.com, info@ssgaslabs.com

Sage Infotech Private Limited

Mr. Rahul Nigam
No. 4743 / 23, 3rd Floor,
Ansari Road, Darya Ganj,
New Delhi - 110 002, Delhi, India
Mobile: +(91)-9810149593,
Tele: +(91)-(11)-30128340 30128341

Salasar Agrotech Private Limited

Mr. Hemant Sarda (Director)
Block No. F 19 & 20,
Pritam Complex, Old Bhandara Road
Nagpur - 440008, Maharashtra, India
Mobile-09953353057, +(91)-(712)-2769618

Saurabh Flexipack Systems Pvt. Ltd.,

Plot No-6 &17, S.No-1556/1559,
Chikhali, Tal-Haveli, Pune- 412114,
Phone: +91-20- 66346900,
Fax: +91-20-66346904,
Email :sales@saurabhflexipack.com
mktg@saurabhflexipack.com

SCHENCK RoTec India Limited

Mr. Vishal Bajpai (Senior Marketing Manager)
Noida, Uttar Pradesh, India
Mobile: 08376807790

Schwing Stetter India Pvt Ltd

F71, F72 SIPCOT Industrial Estate,
Irungattukottai, Sriperumpudur,
Kanchipuram District - 602 105, Tamil Nadu, India
Telephone: 00 91 44 27156780/1, 27156537/8, 47108100, 37178100
Fax No : 00 91 44 27156539
Email : chennai@schwingstetterindia.com

Sehgal Industrial Works

Mr. Vikas Sehgal (Manager),
T-1698, Malka Ganj Road,
Subzi Mandi, New Delhi - 110007, India
Mobile:+(91)-9811706010, +(91)-9711706010,
+(91)-9810136096,
Telephone: +(91)-(11)-23857381,
Fax:+(91)-(11)-23857381

Shamam Engineering Industries

Mr. Shashank Dani
H - 11, M. I. D. C., Satpur
Nashik - 422007, Maharashtra, India
Call Us: 08447543818
Mobile: +(91)-9890268048
Telephone: +(91)-(253)-2350086

Shenzhen Hero Laser Equipment Co., Ltd.

Building 3,Tong Fu Yu Industrial park,
Xin He Village,Crossing of Fu Hai Road and Yong Fu Road,
Fu Yong Town, Bao'an District, ShenZhen City, P.R.China
Tel: 86-13923454670 86-0755-29191116
Fax: 86-755-29191100
Website: www.heralaser.net
Contact: Mr.Justin Liu
Email:justin@herolaser.com
Skype:herolaserjustin
Msn: herolaserjustin@hotmail.com

Shikovi Heat Gen Technologies Pvt. Ltd.

W-369, MIDC, Rabale,
Near Golden Garage, Navi Mumbai- 400701,
Phone : +91 22 27607758
Fax: +91 22 27696744
Email: sales@shikovi.com

Shreeji Shrink System

Mr. Hiren Shah,G-201/202,
Kailas Industrial Complex,
Off L.B.S. Marg, Parksite, Vikhroli
(West) Mumbai - 400 001, Maharashtra, India
Email: salesim@shrinksystem.com,
Phone : +(91)-(22)-25180388/25180378
Mobile : +(91)-9821114155/9821316226
Fax : +(91)-(22)-25180398

Shri G.S. Engineers

G-31, 5th Phase, RIICO Industrial Area,
Madanganj-Kishangarh - 305801

Shri Krishna Engineers

Bhagwan Sahai Sain,
H-58, Bhadarna,Vishwakarma Industrial Area,
Jaipur-302013, Rajasthan, India
Phone:141-4040981/2342332/
Mobile: 09829072332/09314772332
Website-<http://www.shrikrishnaengineers.in/>

Shyam Electric

Mr. Mukesh D. Bunha (Proprietor),
Shed No. 26, Mayur Estate,
Behind S.T. Pole School,
Near Khodiyar Mandir,
Nikol Gam, Nikol, Bapunagar,
Ahmedabad - 382350, Gujarat, India
Mobile: +(91)-9824484499, +(91)-9712690812
Email: shyamelectric_m1@yahoo.com

Sigma Industries

Mr. Jatin A. Patel (Director)
No. 8, Abhinav Estate,
Opposite Shah Chamber,
Near Ambica Marble C.T.M. Cross Road
Ahmedabad - 380 026, Gujarat, India
Mobile: 09953353158,
Tele: +(91)-(79)-25852319,
Email: sales@sigmaind.net

Sokhi Machine Tools

Mr. Gurusharan Singh Sokhi (Proprietor)
Bengaluru, Karnataka, India
Mobile: +(91)-9243492319

Spectrum Industries

Mr. Jeevan Saldanha
C-14, No. 15 & 16,
Yeyyadi Industrial Estate,
Mangalore - 575 008, Karnataka, India
Mobile- +(91)-9844043990
Tel: +(91)-(824)-2214395, 2221018

Suzhou Slayer Automation Technology Co., Ltd.

NO.11 South Guandu Road,
Wangshan Development Zong,
Wuzhong district, China (Mainland),
Province-Jiangsu, City - Suzhou
Tele: 0086-512-66386035

Sheards Ltd.

Marlborough Street,
Healey Wood Industrial Estate Burnley,
Lancashire, BB112HW
Contact No.: (0870) 2409220
Fax: (0870) 6070167

Shenzhen Heng Xing Yuan Machine Co., Ltd

Guangdong, China (Mainland)
Contact No.: (0086)-(755)-28179955
Mobile: 13570844334
Fax: (0086)-(755)-28179900

Shri Girraj Industries

No. A-85-B, Road No. 9,
VKI Area Jaipur, Rajasthan - 302 016, India
Email: info@maharajacastings.com,
maharajacastings@gmail. com
Contact No.: +(91)-(141)-2330719/ 2330447/ 2330670
Mobile: +(91)-9314772319
Fax: +(91)-(141)-2333249

Summits Hygronics (P) Ltd.

S.F: 739, Avanashi Rd, Goldwins,
Coimbatore - 641014, INDIA

Sun Engineering Equipments

Contact person: Mr. A. Murugesan (Proprietor)
S.F. No. 70/1B, Athipalayam Road,
Opposite Kalidasar Matriculation School,
Chinnavedampatti, Ganapathy,
Coimbatore- 641 006, Tamil Nadu, India
Email: sunenggequip@gmail.com
Contact No:+(91)-(422)-3296959/ 2666535
Mobile: +(91)-9843008582

Syspro

Block A, Sunninghill Place,
9 Simba Road Sunninghill 2191, South Africa
Tel: +27 (0) 11 461-1000
Fax: +27 (0) 11 807-4962

Takuma Co., Ltd.

2-2-33 Kinrakuji-cho,
Amagasaki, Hyogo, Japan
Tel: 660-0806
Web: http://www.takuma.co.jp/

TAL Manufacturing Solutions Ltd.

TATA Motors Campus, Chinchwad - 411033
Contact no: +91 20 66135509 (Front Office)/ 66135550
(Marketing)/ 66135620/5501 (Operations)
Email: tal@tal.co.in / talsales@tal.co.in

Taskar Engineering

53, Satyakam , SaContact no.lite Road,
Ambawadi, Ahmedabad – 380 015
Contact no.: +91-9824074457, 9898911154
Email: taskarengineering@yahoo.co.in
Web: www.taskarengineering.com/

Tata BP Solar India Ltd.

78, Electronics City,
Hosur Road, Bangalore, India
Contact person: Mr. Vivek Tambe,
Contact no.: +91-9886072040, +91-80-22358465
Email: tatabp@tatabp.com, tambev@tatabp.com
Web: www.tatabpsolar.com

Tata Energy Research Institute (TERI)

Habitat Place, Lodhi Road,
New Delhi 110003
Contact no: 011-24682100 or 24682111
Fax. 011-2468 2144 or 2468 2145

Tata Motors Limited

Bombay House,
24, Homi Mody Street,
Fort, Mumbai, India
Contact person: Mr. Debasis Ray
Contact no.: +91-22-66657209, 66658282
Email: debasis.ray@tatamotors.com
Web: www.tatamotors.com

Tata Precision Industries (India) Ltd.

Industrial Area No.2, A.B.Road,
Dewas, Madhya Pradesh, India
Contact person: Mr. Deepak G Gehani
Contact no.: +91- 7272- 258373, 258374
Email: dggehani@tataprecision.com
Web: www.tataprecision.com

Tech Dry (India) Pvt. Ltd.

#769, 1st Cross, Krishna Temple Rd,
1st Stage, Indiranagar, Bangalore 560 038
Contact no: 080-25255406/294
Fax: 080-25289159

Technofin International Pvt. Ltd.

401 & 409, Sakar - III,
Income Tax Cross Road,
Navrangpura, Ahmedabad - 380 009, India
Contact no.: +91-79-27540917,
Email: info@technofinintnl.com
Web : www.technofinintnl.com

Technocrat Mouldings Pvt. Ltd.

847 M.I.E. Part A, Bahadurgarh - 124507
Haryana (Near Delhi)
Contact no: + 91 - 9811144615, 9911504010

Technoplus Services

Plot No.18, Suresh Nagar Main Road,
Valasaravakkam,Chennai - 600 087
Contact person: Mr. N Raghu
Contact no.: +91-9840900155
Email: info@technoplusservices.com
Web: www.technoplusservices.com

Technotherma India (Pvt) Ltd.

CB- 210 Basement, Ring Road,
Naraina, New Delhi, India.
Contact person: Mr. N. Vijayan
Contact no.: +91-11-25771257, 25774387
Email: technotherma@vsnl.com,
technothermaindia@gmail.com
Web: www.technotherma.com

Tecknotrove Systems Pvt. Ltd.

501 Samarpan Complex,
New Link Road Sahar Chakala,
Mumbai 400099 India.
Contact no.: +91-22-66754730
Email: info@tecknotrove.com
Web: www.tecknotrove-heating.com

Techtronics (India) Limited

138A Udyog Vihar, Phases- VI,
Gurgaon - 122001 (India)
Contact No.: +91- 124- 2212000
Fax: +91- 124-2370666
Email: info@techtronics.in
Website: www.techtronics.in

Tengzhou Good CNC Machine Co., Ltd.

455 South Tengfei, Tengzhou,
Shandong, China, (Mainland) - 277500
Contact person: Ms. Lisa Du
Contact no.: +86-632-5555900, +86-15866238443
Web: www.good-mc.com, www.minim.cc

Tenova Hypertherm Pvt Ltd.

2093, Oberoi Garden Estates, Chandivli,
Andheri (E), Mumbai 400 072, India
Contact no.: +91-22-66810200
Email: tenovahypertherm@hyperthermgrou.com
Web: www.tenovagroup.com

TESMEC S.p.A.

Via Zanica, 17/O - 24050,
Grassobbio, Bergamo, Italy
Contact No.: +39-035-4232911
Web : www.tesmec.com

Texfab Engineers (I) Pvt. Ltd.

Road No.57, Plot No. 5716,
GIDC Estate, Surat- 395 003,
Gujarat, (India)
Contact person: Mr. Mukesh Pachauri
Contact No.: +(91)-(261)-2397243/2397844/2397047
Mobile : 09898042000 / 9327442000
Web: http://www.texfabindia.com

Texprint Engineers (P) Ltd.

Texprint House, Chakudia Mahadev Road,
Rakhial, Ahmedabad - 380 023,
Gujarat - India
Contact no.: +91-79-2274 2808
Email:print@texprintindia.com
Web: www.texprintindia.com

The Dow Chemical Company

Corporate Park, Unit No.
1, V. N. Purav Marg,
Chembur, Mumbai, India
Contact no.: +886-225478732, +91-22-67978553
Email: zansari@dow.com
Web: www.dow.com/amines/

The Green Environment Services Co-op. Soc. Ltd.

Plot No. 244, Phase II - GIDC,
Vatva Ahmedabad, India
Contact person: Mr. Bipin R. Pa
Contact no.: +91-79-25892283, 25832520
Email: info@gescsl.com jatinpa
Contact no.1@rediffmail.com
Web: www.gescsl.com

The Indian Electric Co.

Bharat Bhavan,
1360 Shukrawar Peth,
Natu Baug, Pune - 411 002, India
Web: www.indianelectric.com

The Penn Group

336 West, 37th Street New York, United States.
Contact no.: +1-212-695-4074
Email: info@sculptor.org
Web: www.sculptor.org

The Wesman Engineering Company Pvt. Ltd.

Wesman Center,
8 Mayfair Road, Kolkata, India
Contact no.: +91-33-40020300
Email: mailbox@wesman.com furnace@wesman.com
Web: www.wesman.com

The Zanvar Group of Industries, Ashta Liners Pvt. Ltd.

47, Shivaji Park,
Kolhapur - 416 001
Maharashtra, India
Contact nos: 91-231-2537395, 537961
Fax: 91-231-2573418

Thermal Systems (Hyderabad) Pvt. Ltd.

Plot No.158, I.D.A.,
Bollaram, Medak Dist.
Hyderabad, Andhra Pradesh, India
Tel: +91 8458 280054 / 55 / 59
Email: info@thermalindia.com
Web: http://www.thermalindia.com/

Thermax Ltd.

14 Mumbai-Pune Road,
Wakdewadi, Pune, India
Contact person: Mr. Nitin Singh
Contact no.: +91-9873932780
Email: nitin.singh@thermaxindia.com
Web: www.thermaxindia.com

Thermopac Boilers Pvt. Ltd.

Plot No.349, Kashi-Mira Road,
Near Rly. Crossing, Bhayander (E),
Dist Thane - India
Web: http://www.thermopac.in

Thermotech Engineering Company

E-48, SIDCO Industrial Estate,
P.O. Box No.4432,
Coimbatore - 641 021,
Tamil Nadu, India
Contact No.: +91-422-2672570
Fax :+91-422-2438168
E-mail: support@warriar.com,
sales@warriar.com, warriers@ msn.com
Contact person: K.Suresh Warrier
Mobile: +91-9363143675

THERMOTEC Furnaces (India)

Plot No. 1, Sector - 16-18,
Dividing Road,
Opposite Jain Mandir,
Faridabad - 121001, Haryana, India
Contact person: Mr. Davendra Verma
Mobile: +919891066986, +919818342474

Thermotech Systems Ltd.

Plot No. 2608, GIDC,
Phase - 4, Vatva,
Ahmedabad - 382 445,
Gujarat, India
Contact no.: +91-79-25842387/25840233
Email: thermotech@ icenet.net
Web: www.thermotechsystems.com

Torielli

10, Siri Fort Road, II floor
New Delhi 110049 – INDIA
Contact person: Mr. Jan Surya Sharma
Contact no.: +91-11-26258572
Email: torindlh@ndf.vsnl.net.in
Web: www.torielli.com

Toshi Automatic Systems

D - 132, BSR Industrial Area,
Ghaziabad - Noida 201009, India
Contact person: Mr. Sanjeev Sachdev
Contact no.: +91-120-2700941, 2701072
Web: www.toshiautomatic.com

Toshiba Corporation

1-1, Shibaura 1-chome, Minato-ku,
Tokyo 105-8001, Japan
Tel: +81-3-3457-4511
Fax: +81-3-3456-1631
Web: http://www.toshiba.co.jp/

Tsunglin Machinery Technical Co. Ltd

No.207, Sec. 1,
Jinma Rd., Changhua City,
Changhua County 500,
Taiwan (R.O.C.),
Contact No.:+886-4-7241640
Fax:+886-4-7248752
Email:tmt@tmt.com.tw
Website: www.tmt.com.tw

Trane India Pvt. Ltd.

612 - 614A, International Trade Tower,
Nehru Place, New Delhi, India.
Contact person: Mr. Anurag Agarwal
Contact no.: +91-9871160690
Email: anurag_agarwal@trane.com
Web: www.trane.com

Transparent Energy Systems Pvt. Ltd.

Pushpa Heights,1st Floor,
Bibwewadi Corner, Pune, India
Contact person: Mr. Sudhanva S. Gharpure
Contact no.: +91-20-24211347, 24212390
Email: trans@pn2.vsnl.net.in
mumbaioffice@tespl.com
Web: www.tespl.com

Trinity Energy Systems Pvt. Ltd.

366 / A / 12, G.I.D.C. Estate,
Makarpura, Vadodara, Gujarat, India.
Contact no.: +91-265-2645738, 2633270
Email: sales@trinityenergy.co.in
Web: www.trinityenergy.co.in

Truetzscher India Private Limited

N.I.D.C. Estate, Near Lambha Village,
Post Narol Dist: Ahmedabad-382 405, India
Contact No.: +91 79 25710608, +91 79 30411100
Fax: +91 79 25710617
Email: central@truetzscher.in
Website: www.truetzscher.in

Trumpf Inc.

226-0006, Yokohama,
Kanagawa Prefecture,
Midori-ku 1-18-2 Hakusan, Japan
Tel: 045-931-5710
Email: info@jp.TRUMPF.com
Website: http://www.jp.trumpf.com/

TRUMPF (India) Pvt. Ltd.

Raisoni Industrial Park,
S. No. 276, Hissa No.1,
Village Mann, Taluka: Mulshi,
District: Pune – 411 057, Maharashtra
Contact No: +91-20-667-59800
Email: info@in.trumpf.com
Web: www.in.trumpf.com/

Trustwell Industries

R/537, T.T.C. Industrial Area,
M.I.D.C., Rabale, New Mumbai - 400 701
Contact no: 022-27641127
Contact person: Mr. Suraj R. Taide
Email: sales@trustwell.in
Web: www.trustwell.in

Tung Yu Hydraulic Machinery Co., Ltd.

No. 12, Yongsing Rd.,
Nan Kung Industrial Zone
540 Nantou City, Taiwan
Phone: +886 49 2253588
Fax: +886 49 2252998
Web: http://www.tungyu.com tungyu@tungyu.com

Tyagi Engineering Works

B-166, Hari Nagar, New Delhi - 110064, India
Contact person: Mr. G. S. Tyagi
Contact no.: +91-9810526719
Web: www.tyagi.tradeindia.com

Teemable Ltd.

Unit 18,13/F., Well Fung Industrial Centre,
No. 68 Ta Chuen Ping Street,
Kwai Chung, N.T., Hong Kong
Contact No.: 852 - 2425 2057
Fax: 852 - 2425 2199

Thermal Tech Engineering

5721 Dragon Way, Cincinnati, OH 45227
Contact No.: (513)-561-2271
Toll Free: (800)-755-6393
Fax: (513)-561-2412

T.A. Engineers Corp (I)

Mr. Hansraj Soni (Proprietor)
357, Bhagwan Chowk
Ludhiana - 141003, Punjab, India
Call Us: 08447516572
Mobile: +(91)-9814053082, +(91)-9815953082
Telephone: +(91)-(161)-2493428, +(91)-(161)-2491082
Fax: +(91)-(161)-5027057

Techmaxx International

Mr. R. Sharma, Munwas,
P.O. Kailashpuri, Udaipur - 313202, Rajasthan, India
Phone-+91-294-2352402
Fax+91-294-2528872,
Email: alankarengineers@gmail.co
Mobile: 9413318833
Contact person: R. Sharma
Mobile: 09783820322

Techserve

115/40, 4th Lane, Gamunupura
Palawatta, Pannipitiya, Sri Lanka
Telephone:+94 11 2781293, +94 11 4924978
Fax: +94 11 2781293

Top Tech Automation

Mr. S. K. Sharma (Proprietor),
Plot No - 19 (MCF-191), Shiv Colony,
Sector-22, (Near Rachna Cinema),
Faridabad - 121005, Haryana, India

Trans-O-Sonic

Mr. D.A. Vethe,
152, Shanti Industrial Estate,
Sarojini Naidu Road,
Mulund (West), Mumbai,
Maharashtra - 400 080, India
Email:sonic@bom3.vsnl.net.in,
Tele: (91)-(22)-25902384/ 25918752,
Mobile: +(91)-9820351153
Fax: +(91)-(22)-25640027

Uma Shankar Engineers

C- 143, Okhla Industrial Area,
Phase - I, New Delhi - 110 020 India
Contact no: 41613675
Mobile No. : 9810188622 / 9871701133
Email: avtar27@yahoo.co.in
umashankarengineers@gmail.com

Unique Industries

63/8, NH-7, Nagari Madurai - 625 221
Tamil Nadu, India
Contact person: Mr. R. Rajasudhakaran
Contact no.: +91-94421 24636
Email: info@uniqueindustriesindia.com
Web: www.uniqueindustriesindia.com

Unitron Energy Systems Pvt. Ltd.

Plot No. 25, Sanjay Park,
Airport Road, Pune, India.
Contact person: Mr. G.K. Rao
Contact no.: +91-20-26687006, 26684399
Email: unitron@pn3.vsnl.net.in
Web: www.unitronenergy.com

Urja Process & Technologies Pvt. Ltd.

Pune
Contact No.: +(91)-(20)-27691800

Usha International Ltd.

Surya Kiran,19,
Kasturba Gandhi Marg,
New Delhi, India
Contact person: Mr. K.B. Singh
Contact no.: +91-11-23318114
Email: kb_singh@ushainternational.com
Web: www.ushainternational.com

Uttam Rubtech Machinery (P) Ltd.

B-61/3, Maya Puri Indl. Area,
Phase II, New Delhi - 110064, India
Contact No.: +91-11-28116788
Email: sales@uttammachines.com
Web : www.uttamrubtech.com

Ultracuring System

Mr. Rajendra Rajage (Proprietor)
Unit No. C/ 13, Sagar Sangam Industrial Estate,
Sativali Village, Near Grampanchayat Office,
Vasai Road East, Vasai
Maharashtra - 401 208, India
Contact No.: +(91)-(250)-6583351
Mobile: +(91)-9890280460
Email: umraov.admin@gmail.com,
umraosys@gmail.com

UPTECH Engineering

Gat No. 274, Nanekarwadi,
Pune - Nasik Highway Chakan,
Tal. Khed, Dist. Pune - 410501 (M.S.) India
Contact No.: (91)-(2135) - 325004, 325554, 306981
Fax: (91)- 2135 - 306982
Mobile: 91 91 9881075004, 9422311588
E-mail: response@uptechengineering.com

U.V. Tech Systems

Mr. Salil S. Nair (Proprietor)
No. 24, 1st Floor,
Dr. Ambedkar Road,
Kodambakkam Chennai - 600 024,
Tamil Nadu, India
Mobile: 08376806701
Tele:+(91)-(44)-23726691
Fax:+(91)-(44)-23726699

Vaccunair Engineering Co. Pvt. Ltd.

Near Gujurat Bottling, Rakhiyal,
Ahmedabad-380 023, Gujarat
Web: www.vacunair.com

Vacon Drives and Controls Pvt. Ltd.

Regus SB Tower, 665, Level 5,
SB Tower, Sector 16A 201 301
Noida (UP), India
Tel: 91 97161 60808
Email: kuldeep.kumar@vacon.com
Web: http://www.vacon.com/

Vacuum Pressing Systems, Inc.

553 River Road,
Brunswick, ME 04011
Tel: (207) 725-0935
Email: vps@vacupress.com
Web: www.vacupress.com

Vaigunth Ener Tek (P) Ltd.

No: C1/20, Rajesh Nagar,
1st Main Road, Narayananapuram,
Pallikaranai, Chennai, Tamil Nadu, India
Contact person: Mr. S. Manoharan
Contact no.: +91-44-45575552, 45575559
Email: manohar@v-enertek.com,
vaigunth.enertek@gmail.com
Web: www.v-enertek.com

VARAJ Engineering

Plot No.9/1, G Block,
Near MIDC Corner Chowk,
YCM Hospital road, G Block,
MIDC, Bhosari, Pune - 411026
Web: www.varajengineering.com

Veejay Lakshmi Engineering Works Limited

Sengalipalayam,
Coimbatore 641 022,
Tamilnadu, India
Contact no: +91 (422) 2460662, 2460365,
2460561, 2460562, 2461564, 2461672
Fax: +91 (422) 2461565, 2460453
Email: sales@veejaylakshmi.com
spares@veejaylakshmi.com

Veesons Energy Systems Private Limited

1256, C-14/2, Industrial Estate,
Thuvakudi, Tiruchirapalli, Tamil Nadu, India
Contact person: Mr. Shanmuganathan
Contact no.: +91-9361615150
Email: msn@veesons.com
Web: www.veesons.com

Via G.M. Dallari

2 - 41049 Sassuolo (MO) - Italy
Contact No.: +39-0536-801207
Fax: +39-0536-807248
Email: sales@ms-plants.it

Vibrant Thermal Engineering

No. 11/27, North Mada Street,
Poonamallee Chennai, Tamil Nadu - 600 056, India
Contact no: +(91)-(44)-26272680/ 9444063455
Contact person: Mr. S. Venkatraman

Vibronics Pvt. Ltd.

W-400, TTC Industrial Area, MIDC, Rabale
Navi Mumbai, Mumbai - 400 701, Maharashtra, India
Contact No.: +(91)-(22)-27690440/27690593/27690636
Fax : +(91)-(22)-27690440/27690593/27690636
Mobile No.: +(91)-9370286090
Email: vibronics@mtnl.net.in
Website: www.vibronicsindia.com

Videocon Industries Ltd.

14 Km Stone, Chitegaon,
Paithan Road, Aurangabad - 431005
Contact no.: +91-2431-251501, 02, 03, 04
Email: marketing@vgmail.in contact@videoconmail.com
Web: www.videoconworld.com

Videojet Technologies Inc.

1500 MitContact no. Boulevard,
Wood Dale IL, 60191-1073, USA
Contact no: 630-860-7300
Email: info@videojet.com
Web: www.videojet.com

Viet Mold Machine Production Trading Services Co. Ltd.

138A Dinh Bo Linh St, Ward 26,
Binh Thanh Dist, Ho Chi Minh City, Viet Nam
Contact no: 84.8.62537904
Email: admin@vietmoldmachine.com
Web: http://www.vietmoldmachine.com/

Vijai Electricals Ltd.

6-3-648/1&2, Off Raj Bhavan Road,
Somajiguda, Hyderabad, India
Contact no.: +91-40-30617777
Email: marketing@vijai.co.in
Web: www.vijaielectricals.com

Vinay Engineering Works

Plot No. 400/12, Opp. R.D.L. Quarters,
G.I.D.C Estate, Vitthal Udyog Nagar - 3880121
Dist : Anand, Gujarat, India
Contact person: Mr. R.M. Chauhan
Contact No.: +91- 9426041660
Email: response@vinayengg.com
Web: www.vinayengg.com

Vinayaka Engineering Works

Plot No. 254, 8th 'A' Road,
Industrial Area, Baikampady,
Mangalore - 575011, Karnataka, India
Contact no: 91-824-2407939 / 2501977

Virka Textiles (P) Ltd.

862, Industrial Area A Ludhiana (India)
Ph: 91-161-2607592, 4696592
Fax: 91-161-2602592
Web: <http://www.virkatextiles.com/>

Vishwakarma Engineering Works

4/336, Sonawala Cross Road No. 2,
Beside R.S. Ind. Estate,
Goregaon (E), MUMBAI,
Maharashtra, India
Contact person: Mr. Jay Kumar Arvind Pa
Contact no.: +91-22-26856141
Email: info@veworks.com
Web: <http://www.veworks.com/>

Vision Screws Machinery Manufacture Co., Ltd.

No. 2, Kongtiao Road,
Xiangfiant Distt.,
Harbin, China
Contact no.: +86-451-86060028
Web: www.screws-machine.com

VM ware Software India Pvt. Ltd.

165/2, 3rd Floor,
Doraisanipalya, IIM Post,
Bannerughatta Road,
Bangalore-560076
Contact no.: +91 80 41341000
Web: <http://www.vmware.com/>

Voltas Ltd.

Voltas House, 'A' Block,
Dr. Babasaheb Ambedkar Road
Chinchpokli, Mumbai 400 033
Contact No.: +91-22-66656 666
Fax: +91-22-66656 311
Web: www.voltsac.com

Vortexair.biz

Contact no: 805-658-0207
Fax: 805-658-2789,
Email: static@ccsteven.com

Vison Refractories Pvt. Ltd.

Rajni Kunj, 1st Floor,
M. G. Road, Kandivli (W),
Mumbai - 400067
Contact No.: (022)-8636627
Fax: (022)-8075749\

V. Tech Pharma Machinery

Contact person: Mr. Bhargav Patel (Marketing Manager)
Plot No. 132, GIDC Estate,
Opposite Schutz Carbon,
Kalol - 382725, Gujarat, India
Call Us: 08586985794
Mobile: +(91)-9687116314
Telephone: +(91)-(2764)-226161

Vibrant Thermal Engineering

Contact person: Mr. Venkatraman S.
No. 220 / F, Kundrathoor Main Road,
Chikkrayapuram Chennai - 600069,
Tamil Nadu, India
Telephone: +(91)-(44)-26272680

WAFIOS AG

Silberburgstr. 5, D-72764,
Reutlingen, Germany
Contact no: (+49) (0)7121 146-0
Email: sales@wafios.de
Web: <http://www.wafios.de/>

Weifang Ocean Construction Machinery Co. Limited

No.111, Anqiu ST,
WeiFang, China (Mainland)
Contact person: Ms. Ocean Bao
Contact no.: +(86)-(536)-4749153
Email: concrete.pipe.machine@gmail.com
Web: <http://pipemc.en.china.cn/>

WELDECH Electric Industry Co. Ltd

No. 41, 40th Road,
Industrial Park Taichung,
407 Taiwan, R.O.C.
Contact No.: 886-4-23597155
Fax: 886-4-23596245
Email: weldech@ms19.hinet.net,
weldech2@weldech.com.tw
Website: www.weldech.com.tw

Wellcut Tools (India) Pvt. Ltd.

C-137, Phase-V, Focal Point,
Ludhiana, Punjab
Contact person: Mr. S. Balbir Singh
Contact no.: +91-9814341253, 9814001859
Email: sales@wellcuttools.com,
wellcut_tools@rediffmail.com
Web: www.wellcuttools.com

Wellcut Tools (India) Pvt. Ltd.

Plot No. 1, Link Road,
Industrial Area-A. Extn.,
Ludhiana, Punjab, India
Contact person: Mr. Jasmer Singh
Contact no.: +91-9815011330, +91-161-5011755
Email: info@nkhhammers.com
Web: www.nkhhammers.com

Welmech Engineering Company Pvt. Ltd.

No. 11-A/1, Development Plot,
SIDCO Industrial Estate,
Ambattur, Chennai,
Tamil Nadu - 600 098, India
Contact person: Mr. R.G. Satagopan
Contact No.: +(91)-(44)-42270222/ 26252880/ 26256364
Mobile : +(91)-9840908343

Wenzhou Zhuda Shoes-Making Machinery Co. Ltd.

No. 98, Jiashe Road Ouhai Baixiang Industrial Zone,
Wenzhou, Zhejiang, China (Mainland)- 325015
Contact person: Mr. Ryan Chen
Contact no.: +86-577-85699555
Web: www.chinazhuda.com

Wenzhou Xinguang Machinery Co. Ltd.

No.35 Xinggong Road,
Yongxing Industrial Zone Longwan District,
Wenzhou City, Zhejiang Province China, Post Code: 325024
Tel.: +86-577-86939789; +86-577-55882008
Mobile: +86-13600661180
Fax: +86-577-55882007
E-mail: wzxg@wzxg.com
Web: wzxinguang@yahoo.co

WESMAN GROUP

Wesman Center, 8 Mayfair Road,
Kolkata 700 019, India
Contact no: +91 (33) 40020300
Fax: +91 (33) 22908050, 22816402
Email: mailbox@wesman.com

Westchester Sewing Machine Co.

PO Box 447 , Nanuet NY 10954,
Artisan Sewing Supplies,
6470 Corvette Street,
Commerce, CA 90040 U.S.A.
Contact no: 800-225-8342 / 845-627-8873,
Fax number: 845-627-6949,
Contact no.: 01-323-838-1408
Fax: 01-323-838-1508
Email: info@artisansew.com
Web: www.westchestersewing.com

Whirler Centrifugals Pvt Ltd.

1213, Phase-3, GIDC Ind. Estate,
Vatva, Ahmedabad - 382 445, Gujarat, India
Contact no: +(91)-(79)-25890021
Email: whirlcent@gmail.com

Windsor Machines Limited

Shah Industrial Estate, C Building,
1st Floor, Saki Vihar Road,
Andheri (East), Mumbai, India
Contact no.: +91-22-28570060, 28571354
Email: marketing@wml.co.in Web: www.wml.co.in

Wintech Power Private Limited

B 69/3, Wazirpur Industrial Area,
Delhi, India
Contact person: Mr. Ankur Jain
Contact no.: +91 - 9811131223, 9811049370
Email: wintechpower@mail.com
Web: www.wintechvoltagesabilizers.com

Wipro Eco Energy

88, SB Tower, 5th floor, B Wing,
MG Road, Bangalore, India
Contact person: Mr. Sudarshan Ananth
Contact no.: +91-80-41365104
Email: sudarshan.ananth@wipro.com
Web: www.wiproinfra.com/html/wipro_ecoenergy.html

Wittemann India

Plot 454, GIDC, N.H. 8, Por – Ramangamdi,
Vadodara, Gujarat, India
Contact person: Mr. Rakesh Lonial
Contact no.: +91-9891509509
Email: rlonial@wittemann.com
Web: www.pureco2nfidence.com

Wuhu Surmount Machinery & Equipment Co. Ltd.

WUHU MACHINERY & INDUSTRIAL ZONE,
Wuhu, Anhui, China (Mainland) /241100
Contact no: 86-553-8732158
Fax: 86-553-8731866

Warpp Engineers Pvt. Ltd.

67, Govt. Ind. Estate, Kandiwali (W),
Mumbai - 400067, India
Phone: 91-22-28687298, 91-22-28687919
Contact person: Mr. Prabhu Das N. Golla Director
Mobile: +91 09324682069
Web: http://www.warpp.co.in

Waves Aircon Pvt. Ltd.

867 D, A-Block, Sushantlok, Phase1, Gurgaon
Contact No.: 0124 2577797
Email: wavesaircon@gmail.com

Weldor Engineering Pvt. Ltd.

Dhebar Road (South)
Rajkot-360002, Gujarat, India
Contact No.: 02812360242
Fax-02812360466

Winlycn Printing & Packing Machinery Trading Company Building

A, First Floor, LongYuang Industrial District,
55 Feng Tang Street, LiuYue,
Heng Gang Town, ShenZhen, China
Contact No.: 0086-755-28745636
E-mail: winlycn@winlycn.com
Web: www.winlycn.com

Winston Tech Industrial Corp.

8F-2, No. 280, YanPing North Rd, Sec. 2
Taipei, Taipei City Taiwan 103
Contact No.: 886-2-2557-4318 / 886-2-2557-3843
Fax : 886-2-8192-4305 / 886-2-2557-8549
Homepage : http://www.winstech.com.tw

Wuxi Pyramid General Machinery Co., Ltd.

No.7 Yangshan Industrial Park
Wuxi, Jiangsu China 214155
Contact No.: 86-0510-8270-7323
Fax : 86-0510-8270-7379

Waveultrasonics

Contact person: Mr. Govind Raj R.V.
No. 8, Patel Venkatappa Complex,
Sunkadakatte Bengaluru - 560058,
Karnataka, India,
Mobile: 09953364663

Western Enviro Solutions

Mr. Harish Neknarayan (Manager)
Sr. No. 33-B, ION No. 7, 4th Floor,
Near Finolex, Square,
Pimpri Pune - 411018, Maharashtra, India
Mobile: 08447570263, +(91)-9860339033

WJ Morray Engineering Ltd.

105 Nayland Road, Colchester,
Essex, CO4 5EW
Contact No. - 01376 322722, 01206 843 670

Wuxi Meikai Machinery Co., Ltd,

Wuy Road, Yuqi Town,
Wuxi, Jiangshu, Zip-214183
Country-China (Mainland), State-Jiangsu, City-Wuxi,
Tele: 86-510-83889750
Fax-86-510-83886096

Xerox India Ltd.

5th & 6th Floor,
Block One Vatika Business
Park Sector-49, Sohna Road,
Gurgaon - 122018, Haryana, India
Contact no.: +91-124-39400400
Email: askus@xerox.com
Web: www.monotech.in

Xinmin Bangyou Woodworking Machinery Works

Shenyang
Contact no: 86-24-87721353,13604211457
Web: http://www.xyybm.com

Xinya Machine Tool Manufacture Co. Ltd.

Bowang Special Economic Industry Park,
Ma'anshan, Anhui, China
Contact person: Ms. Zheng
Contact no: +86-0555-6761710
Fax: +86-0555-6767838
Email: pressbrakes@gmail.com,
shearingmachine@gmail.com

XL Plastics Ltd.

303/2 Makarpura Ind. Estate,
Vadodara 390 010, India
Contact no.: +91-265-2638125/2638026/ 2652118
Email: info@xlplastics.com
Web: www.xlplastics.com

Xtreme Mech Xperts

Mr. Karthick Prabhu
No. 5- C / 2, Kalkatti Thotam,
Periyar Nagar, Ganapathy,
Coimbatore, Tamil Nadu - 641 601, India
Contact No.: +(91)-(422)-3029001
Mobile: +(91)-9842093414

Xiamen Xinhonghua Machinery Co., Ltd.,

Koujian, Xiadian She, Houxi Village,
Houxi Town, Jimei Dist.,
Xiamen, Fujian, China (Mainland),
Tele: 86-592-6269080
Mobile- 15305927580

Yamato Sewing Machine Mfg. Co. Ltd.

4-12, 4-Chome, Nishi-Tenma,
Kita-KU, Osaka- 5300047, Japan
Contact No.: +81-6-6364-5621
Fax: +81-6-6364-7185
Email: export-dept@yamato-sewing.com
Website: www.yamato-sewing.com

Yamazaki Mazak Corporation

1-131 Takeda, Oguchi-cho, Niwa-gun,
Aichi-Pref., Japan
Tel: +(81)587-95-1131
Fax: +(81)587-95-3611

Yamazen Corporation

Recruit Shinosaka Bldg., Nishinakajima,
Yodogawa-Ku Osaka 532-0011, Japan
Tel: +81-6-6304-5839
Fax : +81-6-63.3681
E-mail: info@yamazenc.co.jp
Web : www.yamazenc.co.jp

Yamauchi Corporation

2-7, Shodai Tajika,
Hirakata-shi, Osaka, Japan
Tel: 81-72-856-1130
Web: http://www.yamauchi.co.jp/

Yaskawa Electric Corporation

2-1 Kuroskashiroishi, Yahatanishi-ku,
Kitakyushu 806-0004 Japan
Tel: +81-93-645-8801
Fax: +81-93-631-8837
Web: www.yaskawa.co.jp

YHM Springtech Machinery Co.

No. 83, Hsing Kung 1st Rd.,
Beidou Town, Changhua Hsien 521, Taiwan
Contact No: +886-4-887-1086
Email: yeouheuy@wire-machine.com.tw
Web: www.wire-machine.com.tw

Yokogawa India Ltd.

Plot No.96, Electronic City Complex,
Hosur Road, Bangalore - 560 100 India
Contact person: Mr. Avnish Garg
Contact no.: +91-80-4158-6000
Email: avnish.garg@in.yokogawa.com
Web: www.yokogawa.com

Yokogawa Electric Corporation

9-32, Nakacho 2-chome,
Musashino-shi, Tokyo 180-8750, Japan

Yugma Impressions

Plot No. H5/25, MIDC, Chikalthana,
Aurangabad - 431010, Maharashtra, India
Phone: +(91)-(240)-3208236
Preferred Number: 08447502652
Website: http://www.etchingmachines.co/

Young-pearl Machinery Co., Ltd.

No.35 , Jiangyang East Rd.,
YZ, JS, CN 225003 Prc.
Contact no.: +0514-87233712/87229185
Email: yp@young-pearl.com
Web: www.young-pearl.com

Yuvraj Merch - X

Agent: Pailung Machinery Mill Co. Ltd.,
Yuvraj Trade Centre, 1/1(B)-1,
Gandhi Road, Avinashi Main Road,
Annupparpalayam (p.o), Tirupur - 641652. India
Contact no. : 0091-421-4343700
Fax : 0091-421-4343733
Contact person: Mr. M.M. Elango
Mobile: 0091-98940-47400
E-mail : elango@yuvrajindia.com
Web: http://www.yuvrajindia.com

Zeco Aircon Industries Pvt. Ltd.

DDA Shopping Complex,
E Block, 2nd Floor, New Rajinder Nagar,
New Delhi, India.
Contact no.: +91-11-45666111
Email: delhisales@zecoaircon.com
Web: www.zecoaircon.com

Zeta India Inc.

B-238, 6th Main Road,
Peenya Industrial Estate,
Bangalore - 560 058, INDIA
Contact no: 80-2836 3753, 2836 4322

Zhangjiagang Feijiang Plastic Package Machinery Co., Ltd.

South of Huangqi Bridge,
Tangshi Town, Zhangjiagang City,
Jiangsu Province, China (Mainland) - 215618
Contact No : +86-512-58592811
Fax: +86-512-58593908

ZheJiang sini Machinery Co. Ltd.

188 Donghanmen South Road,
Yuyao, China - 315400
Contact no.: +86-0577-65563517 65562786
Email: sale@sinimachine.com
Web: www.sinimachine.com

Zhongshan OMS Industrial Co. Ltd.

Yat-sen Science & Technology Park Torch Development,
District Zhongshan City,
Guangdong Province, China
Tel: 86-760-88388670-820
Fax: 86-760-88885870
Website: <http://www.china-oms.com>

Zhuji Fengzu Computer Knitting Machine Co.

Datang Industrial Area,
Shaoxing Zhejiang 311801, China
Contact No.:86-575-87113480
Web: <http://fengzu.en.ec21.com/>

Zhucheng Kyrgyzstan Hengtai Machinery Co., Ltd.

Contact Person: Jian Wang
Zhuchengshichangchengzhenxingshi
Zhuchengshi, China-262216
Phone No.-86-0536-6333998
Fax: 86-0536-6357559

Zhangjiagang Zhongtai Machinery Co., Ltd.

Zhangjiagang City, Zhangjiagang,
Jiangsu - 215600 China (Mainland)
Contact No.: 86-0512-56356570
Mobile: 15250357655
Fax: 86-0512-58531965
Website: <http://www.z-tai.com>

Zhangjiagang Kingswel Precision Mold Manufacturing Co., Ltd.,

Zhangjiagang Economic Development Zone,
Jiangsu Province,
Tele: (+86512)-58913508
Fax:(+86512)-58913508
Mobile-(+86)13962460909,
Email: hp3509@126.com

