

SIDBI FINANCING SCHEME FOR ENERGY SAVING PROJECTS IN MSME SECTION

OBJECTIVE

The Japan International Cooperation Agency (JICA) has extended a Line of Credit to Small Industries Development Bank of India (SIDBI) for financing Energy Saving Projects in Micro, Small, and Medium Enterprises (MSMEs) Sector. The project is expected to encourage MSME units to undertake energy saving investments in plant & machinery / production process to reduce energy consumption, enhance energy efficiency, reduce CO₂ emissions and improve the profitability in the long run.

The financial assistance to MSMEs will be through SIDBI, as well as through refinance to banks / State Finance Corporations (SFCs) and Non Banking Financial Companies (NBFCs). Under the Line technical assistance is also provided to financial institutions and MSME units for dissemination of information and successful implementation of Energy Saving projects in MSME Sector.

FINANCIAL PARAMETERS

The financial parameters for assistance under the Scheme are:

Parameter	Norms
Minimum Assistance	Rs. 10 lakh
Minimum Promoters contribution	25% for existing units 33% for new units
Debt Equity Ratio	Maximum 2.5:1
Interest Rate	The interest rate is based on internal risk rating within the band given below: <ul style="list-style-type: none">• Fixed rate : 9.5 – 10% p.a• Floating rate: 9.75 – 10.5% p.a
Security	First Charge over assets acquired under the scheme; first/second charge over existing assets and collateral security as may be deemed necessary.
Asset coverage	Minimum Assets Coverage should be 1.4:1 for new units and 1.3: 1 for existing units.
Repayment period	Need based. Normally, the repayment period doesn't extend beyond 7 years. However, longer repayment period of more than 7 years can be considered under the Line if considered necessary.

ELIGIBILITY CRITERIA FOR UNITS (DIRECT ASSISTANCE)

- New / existing MSME units, as per the definition of the Micro, Small & Medium Enterprises Development (MSMED) Act, 2006 (www.Laghu-udyog.com; www.Smallindustryindia.com) . However, units graduating out of medium scale will not be eligible for assistance.
- Existing units should have satisfactory track record of past performance and sound financial position.
- Energy saving projects will be screened as per Energy Saving List, which is available on SIDBI website.
- Units should have minimum investment grade rating of SIDBI.
- Sectors such as the arms industry, narcotics industry or any unlawful businesses are non eligible. Similarly, such projects which may result in larger negative social and environmental impact are also not eligible under this scheme.

ELIGIBLE SUB-PROJECTS / ENERGY SAVING EQUIPMENT LIST

The energy saving sub-project under this initiative means-

- Acquisition (including lease and rental) of energy saving equipments / facilities, including new installation, remodelling and upgrading of the existing ones;
- Replacement of obsolete industrial furnaces and/or boilers or burners etc. or introduction of additional equipment which improve performance comparable to those of replacement;
- Installation or improvement or adoption of such manufacturing machinery and equipment that meet the specific requirements for energy performance standard provided by the related energy conservation act/code in India (e.g. Top Runner Equipment, Energy Labels etc.);
- Installation of building envelopes, equipments, heating systems, lighting and electrical power / motors in compliance with energy performance standard provided in the Energy Conservation Building Code (ECBC)²;
- Introduction of the equipments that utilize alternative energy sources which can reduce GHG emissions such as natural gas, renewable energy, biogas etc. instead of fossil fuel such as oil and coal etc.

- Clean Development Mechanism (CDM) projects involving cluster level intervention by a change in the process and technologies for the cluster as a whole duly supported by technical consultancy.

The equipments eligible for financing under this initiative are available in SIDBI offices. The equipment list would be continuously revised and updated by the Consultants – Winrock International India (www.winrockindia.org) appointed by JICA. The List shall be used for screening the sub- projects for deciding their eligibility for coverage under the JICA Line of Credit and the list would be the primary criteria for the sub – projects. Please contact the nearest SIDBI Branch Office or refer to SIDBI website (www.sidbi.in) for the updated List.

APPLICATION FOR LOAN ASSISTANCE

The prospective borrower is required to submit duly filled in application form along with the supporting documents as per the prescribed format. In addition to the information requested for in the application form, it may be ensured that the prospective borrower explicitly provides details of the energy saving potential of the project. This will be an important parameter for deciding the eligibility of the project financing under the Line of Credit.

DISBURSEMENT

Disbursement would be carried out after compliance of the terms of sanction.



Energy Saving Equipment List

(Release 7.0)

Prepared for



Small Industries
Development Bank of India

Prepared by



Supported by



Japan International
Cooperation Agency (JICA)



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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/WII office or download as PDF document from <http://jica.org.in>.

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".
- (ix) **Equipment having energy saving potential less than 10% are highlighted in red.**

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 Winrock International India 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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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		* ABB India * Schneider Electric India * Siemens Ltd.
1.2	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.
1.3	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.
1.4	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.
1.5	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.
1.6	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.
1.7	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.
1.8	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.
1.9	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
1.10	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
1.11	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
1.12	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
1.13	Energy Efficient Air Compressors / Blowers	30~50%	Easy to install and operate	ASME B19.1		* Atlas Copco India Ltd. * Hitachi Industrial Equipment Systems Co. Ltd. * Pecma Air Systems Pvt. Ltd.
1.14	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.
1.15	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.
1.16	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
1.17	Soft Starter for Motors	15%	Provides smooth and stepless acceleration and deceleration 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.
1.18	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.
1.19	Automatic Temperature Controller	10%	Accurate temperature regulation, prolongs life of equipment	BS EN 14597:2005		* Electrotherm (India) Ltd. * Meta Therm Furnace Pvt. Ltd. * Yokogawa Electric Corp- Yokogawa India Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
1.20	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.
1.21	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
1.22	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		* Doshi Technologies Pvt. Ltd. * Electrotherm (India) Ltd. * Tenova Hypertherm Pvt Ltd
1.23	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
1.24	Electromagnetic Irradiation	50%	Selective heating (heats water rather than substrate or surrounding air), ideal for materials with non-uniform moisture content		TUFS	* Acmevil Engineers Pvt. Ltd. * Electricoil Super Thermal Engineers * Tecknotrove Systems Pvt Ltd.
1.25	Infrared Irradiation	5~8%	Heats directly the object by radiation thus no energy loss in heating air medium		TUFS	* Inraid Engineers Pvt. Ltd. * Infrared Systems Pvt. Ltd. * PSI Technologies Inc.
1.26	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.
1.27	Screw Compressor	30~50%	Low leakage levels and low parasitic	GB/T 13280-1991, ISO 8573-1 CLASS 0		* Atlas Copco India Ltd. * Hitachi Industrial Equipment Systems Co. Ltd. * Kaeser Compressors India Pvt. Ltd.
1.28	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.
1.29	Cooling Towers (Fills with PVC Honey Comb)					* Airttech Cooling Process (Pvt.) Ltd
1.30	# Wide Belt Sander	15-20%	Easy to operate and monitor the operation	Wider sand belt (24")		* GRIGGIO SPA
1.31	# Spindle Moulder		Higher productivity due to higher spindle speed	Table Size-900 MM x 350 MM, Spindle Diameter-25 MM or 30 MM, Electric Motor, 3 Phase - 3 HP - 2800 RPM, Weight of Machine-300 KG		* GRIGGIO SPA
1.32	# Multi-boring machine	10-15%	With advance PLC control for higher productivity			* GRIGGIO SPA * Xinmin Bangyou Woodworking Machinery Works

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
1.33	# Visicooler	45-50%				* Voltas Ltd.
1.34	# Robot Arms	50-60%	Hiig efficient, automated operation			* Changzhou Boer Precision Powder Engineering Co. Ltd
1.35	# Enginator based on Natural Gas	30%				* Dresser Waukeshia
1.36	# CNC Router	20-6-%	Improved product quality, less rejection, higher productivity			* Angel India Cad Cam Private Limited * HSD S.p.A.
1.37	# Vacuum forming machine with thermostat control	30-40%	PLC controlled, easy to operate,			* Bel-O-Vac * Sai Thermoformers
1.38	# Edge Bander Sprint with Power-PC Control	95%	Fast heat-up time	"3 degree Approach Angle" allows easy feeding of large wood		* HOLZHER
1.39	# Enterprise Resource Planning (ERP) (with PPC module)		Integration of design, planning & production	Integrated Production Data Acquisition (normal and fast entry)		* Miven Mayfran Conveyors Pvt. Ltd.
1.40	Automatic Book Sewing Machine	10-15%	Easy operation, quick make-ready, high quality sewing and high output	Maximum mechanical speed-13,200 cycles/ hour		* Book Automation, Inc.
1.41	Tunnel Dryer for mosquito coil industry	50%	Environmental friendly and less pollution	Thermal heat requirement is maximum of 800 Kcal/hr		* SUNTRACK Energy Systems Pvt. Ltd.
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. * Veasons 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. * Veasons Energy Systems Private Ltd.
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	* 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		* Daikin Airconditioning India Pvt. Ltd. * Thermax Ltd. * Trane India Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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		* Blue Star India. * Frick India Ltd. * Sea Bird Refrigeration 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		* ENCON THERMAL ENGINEERS (P) LTD. * Technoplus Services * Yokogawa Electric Corp-Yokogawa India Ltd.
2.9	Regenerative Burners for Furnace	30%	Increase in production, furnaces size smaller for new installations	BS EN 267:1999, 40 CFR 266.102		* Bloom Combustion India Pvt. Ltd. * Eclipse Combustion Pvt. Ltd. * The Wesman Engineering Company Pvt. Ltd.
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. * Veesons Energy Systems Private Ltd.
2.11	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.
2.12	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.
2.13	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.
2.14	Waste Heat Recovery Boiler	7~19%	Reduce equipment size and auxiliary energy consumption, reduces pollution	ASTM, ASME		* Thermax Ltd. * Transparent Energy Systems Pvt. Ltd. * Veesons Energy Systems Private Ltd.
2.15	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
2.16	Dehumidification Dryer	30%	Adsorbent is non toxic / non flammable & fully water washable, minimum heat carry over			* Aerodry Plastics Automation Pvt. Ltd. * Bry-air * Matsui Technologies

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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		* Johnson Controls India * Schneider Electric India * Siemens Building Technologies Pvt. Ltd.
3.2	Energy Efficient Air Conditioner	20~40%	Less on / off cycle, better indoor air quality, low noise pollution	SEER 16-23, IEC 60335-2-40	CLCSS	* Carrier Airconditioning & Refrigeration Limited * LG Electronics India Pvt. Ltd * Trane India Pvt. Ltd.
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 operation in wide range of heating value, 37% reduction of CO2 emission	Electricity generating efficiency > 35%		* Horizon Fuel Cell Technologies Pte. Ltd. * Panasonic Asia Pacific Pvt 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		* 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.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	Temperature exchange efficiency(70-75 %), Enthalpy Exchange Efficiency (60-65%)UL 1812 (Ed. 2), UL 1815 (Ed. 3)		* Daikin Airconditioning India Pvt. Ltd. * Honeywell Automation India Ltd. * LG Electronics India Pvt. Ltd.
3.11	High Efficiency Escalator	30%	Redcue 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		* Johnson Lifts Pvt. Ltd. * Kone India * Otis India
3.12	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
3.13	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
3.14	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
3.15	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.
3.16	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
3.17	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
3.18	Air Sealing Support Material	30~40%	Controls hot or cold temperatures, fills cracks and crevices preventing bugs and vermines from entering home	ASTMC 1029, IS 13205, CAN/ULC-S704, ASTM C1289		* Dow Chemical Int'l Pvt. Ltd. * Llyod Insulation India Ltd * Owens Corning
3.19	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(s)
3.20	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	* 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. * Pentaflor 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	80-90% thermal efficiency of gasifier, 70-90% rated efficiency of cogeneration	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	* 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	80-90% thermal efficiency	MNRE	* Ankur Scientific Energy Technologies Pvt. Ltd. * Infinite Energy Pvt. Ltd. * Southern Carbon Pvt. Ltd.
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.
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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	Regenerative chamber, counter flow chamber, insulation "Calcium Silicate"	CLCSS	* Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd
6.2	Wate Heat Recovery from Recuperative Tank Furnace	10~15%	Utilization of waste heat, Reduction in flue gas equipment sizes, Reduction in fuel consumption	Radiant type, special alloy fined tubes, insulation "Calcium Silicate"	CLCSS	* Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd
6.3	Insulation for Furnace	3~10%	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.
6.4	Mechanical Conveyor for Soda Ash (by Replacing Pneumatic Conveyor)	30%	Reduce cycle time, productivity improvement, reduce wastage			
6.5	Natural Gas Fired Pot Furnace with Recuperator	20-25%	Utilize clean energy source, productivity improvement, less harmful to workforce	Open 12 pot furnace, pre-heating of secondary air, heat recovery ststem	CLCSS	* Encon Thermal Engineering Pvt Ltd * Shikovi Heat Gen Technologies Pvt Ltd
6.6	Natural Gas Fired Muffle Furnace	20%	Utilize clean energy source, productivity improvement, less harmful to workforce	Low pressure natural gas burner with 10-12 sm3/hr, Silicon Carbide muffle		*
6.7	Thermal Gasifier (Biomass / Coal as Fuel)	35~60%	Utilize clean energy	Rated thermal output: 15,00,000 Kcal/hr, fuel: woody biomass, auxilary power consumption: 12 HP	CLCSS	* Associated Engineering Works * Radhe Renewable Energy Development Pvt Ltd.
6.8	Oxy-Fuel Fired Glass Melting Technology	10~ 15 %	Increase production, improve glass quality			* Honeywell Automation India Ltd.
6.9	Automatic Controllers & Recorders for Furnace Temperature / On-Line Oxygen Analyzer	3~10%	Productivity improvement, furnace efficiency improvement	Monitoring & controlling flue gas temperature, CO, CO2 & Percentage of oxyzen in flue gas	CLCSS	
6.10	LPG Fired Bead Making Furnace	20%	Better temperature, improve product quality	Preheating of secondary air	CLCSS	* Encon Thermal Engineering Pvt Ltd
6.11	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, ANSIZ97.1 GB9963	CLCSS	* Glass & Glazing technologies (India) Pvt Ltd.
6.12	# 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.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
6.13	# CNC Based Glass Cutting Machine	45-50%	Can cut different shapes, can optimize layout with optimization software			* CMS Industries
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, IS8154, BS3958, 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)	5~10%	Utilize waste heat from Kiln cooling zone, elimination of fuel for drying zone	Radiant type, cross flow, high grade stainless steel		* 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	Variable frequency drive selection depends on horse power, torque and speed characteristics of the motor		* Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited
7.5	Roller Kiln (by Replacing Conventional Tunnel Kiln)	50%	Productivity improvement, reduce cycle time to half	Multiple speed setting, multiple zones with IR Sensors, multi layer drying		* 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	Alumina balls of three different sizes are used	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		CLCSS	* Rajesh Engineering Works
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)		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	Scientific design of length of three zones, use of low thermal mass cars	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
7.15	Automatic Tile Pressing Unit	5~10%	Uniform force on tiles, productivity improvement, wastage reduction		CLCSS	
7.16	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
7.17	Improved Insulation for Ring Chamber	3~5%				* Lloyds Insulation * Megha Insulation Pvt Ltd.
7.18	Recuperator	20~25%	Utilize waste heat, reduce flue gas equipment sizes, reduce fuel consumption	Radiant type, special alloy fined tubes, insulation "Calcium Silicate"		* Dukhiram Maurya Engineers & Refractory Works (India) Pvt Ltd * Encon Thermal Engineering Pvt Ltd
7.19	Control Instruments for Firing System	5~10%	Productivity improvement, quality improvement, reduce cycle time		CLCSS	*
7.20	Continuous Tunnel Dryer with Indirect Fired Hot Air Generator	20~30%	Higher safety, easy to operate, less maintenance		CLCSS	* New AVM Systech Pvt. Ltd.
7.21	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.
7.22	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.
7.23	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
7.24	Squaring Line	25%	Equipped with PLC control, frequency inverter and heavy duty type grinding assembly			* Sunworld Vitrified Pvt. Ltd
7.25	Glazed Line	33%				* Sunworld Vitrified Pvt. Ltd
7.26	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	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. * Veasons Energy Systems Private Ltd.
8.5	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
8.6	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.
8.7	Heat Recovery Boilers for Waste Combustion					
8.8	High-concentration size press	50%	High-concentration size fluid, reduced drying load, and makes high-speed coating possible	Rod blade-type size press		* Japan Paper Association / ECCJ (JIEC) * C&D Paper Co. Ltd.
8.9	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.			* Japan Paper Association / ECCJ (JIEC) * Zhucheng Kyrgyzstan Hengtai Machinery Co., Ltd.
8.10	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 consumption is decreased by 20%			* Japan Paper Association / ECCJ (JIEC)
8.11	steam-recompression heat pump	1,175 kL/h	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	Energy saving achieved by reusing steam after recompressing (VRC, MRC) by a screw compressor and reused.		* Japan Paper Association / ECCJ (JIEC)

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
8.12	Integration of punched metal screen, slit screen and maceration machine for processing waste paper	26-31%	Shorter operation period and energy saving	ADS-N double separator,DRS reject screen,Tail Screen		* Japan Paper Association / ECCJ (JIEC)
8.13	Multi-functional combined screen	Punched-hole screen-24.2 to 58.5%,Slit screen-39.3 to 70.2%	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.	MF-type multi-functional slit screen,MFC-type multi-functional punched-hole screen		* Japan Paper Association / ECCJ (JIEC)
8.14	Crown controlling roll	42%	Non-contacting pressuring part to reduced friction loss.	Width and length of the roll are 7 meters and 900 millimeters, respectively		* Japan Paper Association / ECCJ (JIEC)
8.15	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.
8.16	Adoption of AC Driving for Papermaking Machine and Winder System	20-30%	Energy Efficient			* Japan Paper Association / ECCJ (JIEC)
9	Foundry					
9.1	kWh Indicator for Induction Furnace	5~10%	Monitoring & control of electrical energy consumption			* ABB Ltd
9.2	Medium Frequency Induction Furnace (by replacing Arc Furnace or Main Frequency Furnace)	2 ~ 7%	Cost saving by elimination of electrodes	Magnalenz Induction Furnace		* INDOTHERM FURNACES PVT. LTD. * Magnalenz Furnaces Pvt. Limited
9.3	Heat Recovery System for Stress Relieving Furnaces	5~30%.	Waste heat recovery system, reduction in equipment size			* Heatech Engineers * Transparent Energy Systems Private Limited
9.4	Variable Frequency Drive for Screw Compressors	25~30 %	Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation	Frequency 48 to 63 Hz, efficiency at nominal power is 98%		* ABB India * Sirius Electronic India Pvt. Ltd. * Vacon Drives and Controls Pvt Ltd.
9.5	Oil Fired Core Drying Oven	50%	Complete combustion, easy to operate, low maintenance cost, better product quality			* MV International (GBM Industries) * NSW India Limited
9.6	Gas fired Aluminium Melting Furnace (replace Oil Fired Furnace)	5~30%.	Reduction in Thermal Energy consumption	Mode of operation: Batch/ Continuous, Capacity : 2 to 1000 Kg/hrs with PID control system and Automatic On/OFF		* Electroil * Meta Therm Furnace Pvt. Ltd.
9.7	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
9.8	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
9.9	Oil Fired Rotary Furnace	20% & 10%	Reduce initial / subsequent heating time, auto on/off control	Design as per requirement		* Axial Thermal Engineering Company * Prakash Fabricators
9.10	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
9.11	Induction Ladle Refining Furnace	10~25%	Value added casting, eco friendly	Design as per requirement		* Doshi Associates * Electrotherm (India) Ltd.
9.12	Natural Gas Based Power Generating Set	5 ~10%	Environmental-friendly, high efficient, low emission			* DSR Power Systems * Reddy Generators
9.13	Intensive Mixers (Molding / Core)	10%	Reduce defective casting, better cast surface finish			* J K Foundry Engineers * Sree Sakthi Equipments Company
9.14	Simultaneous Jolt / Squeeze Moulding Machine	10%	Higher productivity, dimensional accuracy, less skill requirement			* L. S. Engineering Corporation * The Zanvar Group of Industries
9.15	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
9.16	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
9.17	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
9.18	CNC Milling Machine	55~60%	Higher productivity, dimensional accuracy, less skill requirement, improve quality			* Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd.
9.19	CNC Lathe Machine	55~60%	Higher productivity, dimensional accuracy, less skill requirement, improve quality			* Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd.
9.20	CNC Milling (Pattern Shop)	55~60%	Higher productivity, dimensional accuracy, less skill requirement, improve quality			* Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd.
9.21	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
9.22	Waste Heat Recovery System for Exhaust Gases	25%	Utilise waste heat, reduce pollution, reduce auxiliary energy consumption			
9.23	Hot Blast Cupola	30~50%	Lower sulphur pick-up, higher carbon pick-up (blast air temperature should be above 400 degree C)	Cupola furnace range from 18 inches to 13 feet		* FTL Foundry Equipment Ltd. * MS Furnace
9.24	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
9.25	Automatic Pouring System	10~15%	Higher-quality casting with precision pouring, eliminates underpours and wasteful overpours	P ³ ™ Control Technology - Automatic Pouring system		* Inductotherm India * Sree Sakthi Equipments Company
9.26	Energy Efficient Thermal Reclamation Plant	5~10%.	Thermal reclamation is economical compared to mechanical reclamation	Reclamation plant of capacity 1 Ton/hr to 10 Tons/hr is available		* J K Foundry Engineers * Sree Sakthi Equipments Company
9.27	Energy Efficient Short Blasting Machine	10~15%.	Rugged design of the machine reduces fettling cost, save labour cost, tooling cost, reduce rejection	42" X 48" Super Tumbblast (14, 28, 34 Cu. Ft.)		* Patel Furnace & Forging Pvt. Limited * Precicut Engineers
9.28	Online Shot Blasting Machine (for Cleaning the Returns)	20%	Airless centrifugal suitable for cleaning railway and power transmission casting	27" X 36" Tumbblast Machines (5 Cu. Ft.)		* Foundmatic Engineers * Patel Furnace & Forging Pvt. Limited
9.29	High Efficiency Centrifugal Fans	25~30%	Long life, abrasion resistant	RB type centrifugal fans, supplies air 680 to 4500 CMH against system resistance of 100 to 400 mm of WC		* Aerovent Projects Pvt. * R. K. Engineering Works
9.30	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	Available range 7.5 KW to 2.7 MW		* Acoustic Power Gensets * Asian Diesel Corporation
9.31	Automatic Flaskless Molding Machine	15%.	Higher production efficiency, mold hardness is excess of 85			* Sree Sakthi Equipments Company * Zeta India Inc.
9.32	Core Setter and Automatic Mold Conveyor	5~15%	High-precision mould transport with no shifting, distortion or displacement of moulds	Design as per requirement		* DISA India Ltd. * Sree Sakthi Equipments Company
9.33	Compact Vertical Moulding Machine	15~20%	Higher production capacity upto 350 moulds/hour (uncored), PLC system for optimum production, less space requirement			* DISA India Ltd. * Zeta India Inc.
9.34	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. Machinerics * Sree Sakthi Equipments Company

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
9.35	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)
9.36	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.
9.37	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			* Moulding Machine Manufacturing Pvt. Ltd.
9.38	Mechanical Sand Reclamation (PLC controlled)	60~65%	Low running cost			* I.M.F.
9.39	Automatic On-line Sand Controller	60~65%	Low running cost			* Rhino Machines Pvt Ltd.
9.40	Variable Speed Sand Mixer	10~30%				* Rhino Machines Pvt Ltd.
9.41	Computer Controlled Sand Cooler-Mixer					* Rhino Machines Pvt Ltd.
9.42	Liquid Metal Supply	25~30%	Re-heating is avoided			
9.43	Automatic Manganese Phosphating Plant	30~40%				
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	Atomizers evaporation capacity from 0.75 to 40 lit./hr, air circulation (800-1600 Meter Cube/ Hour)		* Acmevil Engineering Systems Pvt. Ltd. * Amoto Engineers Pvt. Ltd. * Swish Technologies
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	Reliability on single system		* Vacon Drives and Controls Pvt. Ltd.
10.4	Synthetic Flat Belt Drives (Replace V-belts)	4~8%	Extraordinary tensile and high frictional coefficient, light weight and narrower width reduce shaft load	DIN III, ISO 100		* Kwalty Power Ltd.
10.5	Variable Frequency Drive for Autocore Suction Motor	15~20%	Smooth start / stop operation, better process control	Frequency 48 to 63 Hz, efficiency at nominal power is 98%, Range 0.18 kVA to 6000 kVA		* ABB India * Vacon Drives and Controls Pvt Ltd.
10.6	Variable Frequency Drive for Water Circulating Pump	25~30%	Smooth start / stop operation, better process control	Frequency 48 to 63 Hz, efficiency at nominal power is 98%, Range 0.18 kVA to 6000 kVA		* ABB India * Vacon Drives and Controls Pvt Ltd.
10.7	Transvector Nozzle for Cleaning Application	5~10%	Sucks atmospheric air along with airjet, reduce air consumption by 50%	Thrust (power) in oz. at 12-inch: 6, air consumption: 8 SCFM, air stream size at nozzle: 5/8"		* Vortexair

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.8	Fludised Bed Combustion Boiler (replacing Stoker Boiler)	4%	Efficiency improvement by 70-79%	Design as per requirement		* Elite Thermal Engineers Pvt Ltd. * Energy Process Equipments * MICRO Dynamics Pvt. Ltd.
10.9	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	Capacity:300-1500 kgs/batch, upto 120 Deg C, high vacuum 710 mm-hg to 755 mm-hg (99%), connected load: 52-144 KW		* Alidhra Weavetech Pvt. Ltd. * Blue Moon Engineering & Manufacturing Company
10.10	Automatic Rotor Spinning Machine with MRPS System	20~25%	Every spinning position shows production rate, spinning components are directly accessible & replaceable without tools	SDSI Single Drive Sliver Intake, Intake speed 0.1-8 m/min, draft range 20-450 fold, upto 5 kg in weight 360 spinning positions, rotor speed upto 130,000 rpm		* Oerlikon Textile India Pvt. Ltd.
10.11	Open-width Continuous Scouring and Bleaching Range with Microprocessor Control	15~20%	Controlled cloth tension, low chemical consumption	Working Width: 1200-3200 mm, Tight Strand: 60-200 meters, Combi-Steamer Capacity: 900-1800 meters		* Swastic Group of Companies * Texfab Engineers (I) Pvt. Ltd.
10.12	Ring Frame Machine	15~21%	Higher production rate			* Applied Automation Systems Private Limited * Blue Moon Engineering & Manufacturing Company
10.13	Speed Frame Machine	10~15%	Smooth start / stop operation, better process control			* Kirloskar Toyoda Textile Machinery Pvt. Ltd. * Sri Lakshminarasimha Engineers (P) Ltd.
10.14	Extraction Lamination Line with Frequency Control Motors	10~30%	Smooth start / stop operation, better process control			
10.15	High Speed Moulder Mounter					* Juki India Private Limited
10.16	Warp / Raschel Knitting Machine (Manufacturing of Knitted Fabric)	25~30%	Inverters to control speed, operate conveniently	Working width: 170 inches, 2 to 8 bars fabrics can be used, 3-5 HP, 800 RPM,		* Fung Chang Industrial Co.
10.17	High Speed Computerized Warping Machine for Knitting	15~25%	Broken & lost end can be memorised	Size: 2500-4000 mm, Maximum Warping Speed: 800 mtr./min, Maximum Beaming Speed: 150 mtr./min		* Rabatex Industries
10.18	Modern Industrial Humidification System (for Controlling Relative Humidity & Temperature)	90~95%	Ease to maintain, longer life, multiple axial fans with direct drive, PVC diffusers	Axial fans offer upto 4000 CFM / HP		* Excel Airtechnics (P) Ltd. * Samarth Air Tech Pvt. Ltd.
10.19	Wet Fabric Spreading and Squeezing Machine (Dyeing)	20~30%	Excellent squeezing and spreading performance, increase roller life			* Ramsons Garment Finishing Equipments (Pvt) Ltd.
10.20	Roller Steamer / Polymeriser (Dyeing)	10~20%	Less maintenance and operating cost			* Urja Process & Technologies Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.21	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
10.22	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	Size: 24" 36" 48" 60", Approximate Loading Capacity (Polyester): 27-45-63-90 kg		* Sparrow Tex Engineering Works * Swastic Group of Companies
10.23	Tumble Dryer (Dyeing)	15~20%	Fully programmable electronic control, cool down feature minimizes wrinkling & guarantees longer fabrics life, timer controlled operation	Capacity: 25-100 kgs, 1-3HP motor, Steam consumption: 40-150 kg/hr		* Prashant Manufactures Company * Whirler Centrifugals Pvt Ltd.
10.24	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.
10.25	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	2 & 3 pass tensionless drying and shrinking system with 3 / 4 teflon glass conveyors, production capacity: 4-20 Tons / day		* Swastic Group of Companies
10.26	Heat Recovery System for Stenters	30%	Utilise waste heat			* Swastic Group of Companies
10.27	Balloon Padding Machine	10~15%	Compact in size, high durability, motors controlled by A.C. invertors	Speed ranges from 0-50 Mtrs./min, squeezer Rollers width of 1.4 meters covered with special synthetic rubber / PU compound		* Q-tek CNC * Swastic Group of Companies * Whirler Centrifugals Pvt Ltd.
10.28	Slit Opener with Squeeze Mangle	40%	Excellent Squeezing performance, increase in roller life			* ANDRITZ Küsters GmbH Eduard-Küsters-Straße
10.29	PLC Based Compacting Machine	20~30%	Sensitive load cells, variable frequency drive, PLC control, lowest residual shrinkage values	Nomex felt approx. 20 mm thick, steam heated chrome-plated center roller of 400 mm diameter, compacting pressure roller, felt tension & center roller		* Swastic Group of Companies
10.30	PLC Based Mercerizing Machine	20~30%	Saving of dyestuff in subsequent processing, increase penetration of printing paste, improve response to sueding or raising	Fabric Loading Capacity: 300-1000 kgs, Liquore Capacity: 1200-5000 lts, Electric Load: 12.5-33 HP		* Texfab Engineers (I) Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.31	Fabric Reversing and Slit Opening Machine	5~15%	Smooth and fast working	Twist Detector consists of 2 sensor rollers and one proximity sensor		* Eastman Exports * Swastic Group of Companies
10.32	Air Tight Hot Air Stenter Machine (using AC Interfer 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.
10.33	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	Boiler efficiency monitoring		* Thermax Ltd.
10.34	Thermo Pac (Heating System)	10~25%	Easy access to parts for maintenance, easy to monitor	1.0 - 30.0 Lakh kcal/hr, maximum temperature 380 degree C		* Thermopac Boilers Pvt. Ltd.
10.35	Biomass Gasifier Based Hot Water Generator	5~20%	Reduce cost of operation, reduce auxiliary energy consumption, reduce Fuel consumption	Waste heat recovery system designed based on exhaust temperature		* Heatech Engineers * Transparent Energy Systems Private Limited.
10.36	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			* Virka Textile (P) Ltd. * Yuvraj MERCH-X
10.37	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
10.38	Interlock Knitting Machines	5~20%	Higher production rate, needle detector, inverter controlled motor, anti-dust device, tripping during emergency			* Yuvraj MERCH-X
10.39	RIB Pointel Jacquard Machines	10~30%	Higher production rate, needle detector, inverter controlled motor, anti-dust device, tripping during emergency			* Yuvraj MERCH-X
10.40	RIB Knitting Machines	30%	Higher production rate, needle detector, inverter controlled motor, anti-dust device, tripping during emergency			* Yuvraj MERCH-X

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.41	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	Speed:1300-1050 feeder per inch feeding system, 4 track caming		* Virka Textile (P) Ltd. * Yuvraj MERCH-X
10.42	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
10.43	Single Jersey Auto Striper 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
10.44	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	Single cylinder: 3.75 inches diameter, Needles: 84 to 144 needles, Double picker point & double down picker, Speed : 300-320 rpm		* Yuvraj MERCH-X * Zhuji Fengzu Computer Knitting Machine Co. Ltd.
10.45	Float Plating Denim Machine	15~30%	Higher production rate, less maintenance, high quality cam surface, increase needle life, tripping during emergency			* Yuvraj MERCH-X
10.46	Double Knit Electronic Jacquard Machine	20~30%	Latest generation electronics			* Aroma Tech
10.47	Woven Like Corduroy Machine	5~15%	Higher production rate, less maintenance, tripping during emergency			* Anusam Knitting Mills * Yuvraj MERCH-X
10.48	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			* Anusam Knitting Mills * Yuvraj MERCH-X
10.49	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.50	Grey Heat Setting	20~ 30%	PLC, suitable for removal of snarling and curling effects, stabilise moisture level in dry yarn, variable frequency drive systems	Speed: 3 - 5 meters/ min, Motor load: 8 KW, Heating load: 32 KW, Steam required: 100 Kg/Hr		* Guruson International * Jogindra Industries
10.51	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			* Devrekha * Whirler Centrifugals Pvt Ltd
10.52	Squeezer with Slit Opener	15~30%	PLC, magnetic stretcher, variable frequency drive	Working width: 1400mm, Speed: 3 rpm, Power: 7.5kw		* Dezhou Yaxing Textile Machinery Co., Ltd * Guruson International
10.53	Balloon Padding	10~25%	Compact in size, high durability	Speed range: 0 to 50 Mtrs./min, Variable frequency control for motors, Squeezer rollers covered 1.4 meters with special synthetic Rubber / PU compound		* Q-tek CNC * Swastic Group of Companies
10.54	Relax Dryer	5~30%	Optimum residual shrinkage with softer, fuller, bulkier handle of fabrics, shape stability	2 & 3 pass tensionless drying and shrinking system with 3 /4 teflon glass conveyors, production capacity: 4-20 Tons / day		* Swastic Group of Companies
10.55	Specialty Fabric Finisher such as Brushing, Sueding, Raising, and Compacting	5~15%	Creaseless drying	Mangle Roll Diameter: 300 mm, Roller Width: 1200 - 2400 mm, Maximum Pressure: 6 Tons, Power: 8 - 10 kW		* Swastic Group of Companies
10.56	PLC Based Package Dyeing Machine	10~15%	PLC controlled, highly reliable			* Micro Services Group
10.57	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	Dyeing machine for 54", 72" and 96" circumference Yarn		* Swastic Group of Companies
10.58	Direct-drive, High Speed, Lockstitch Machine with Automatic Thread Trimmer	10%	Increase in feed, broadend sewing range, prevent sewing problem	Power Consumption: 400VA		* Juki India Private Limited
10.59	Lockstitch Machine with Automatic Thread Trimmer	5~10%	Easy to operate, sure thread trimming mechanism	Power Consumption : 650 VA		* Juki India Private Limited
10.60	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	Maximum sewing speed: 6000 rpm, Auotmatic Lubrication		* Juki India Private Limited
10.61	Computer-controlled, High Speed, Lockstitching Buttonholing Machine	25%	30 stitch patterns for buttonhole	Speed: 4200 rpm, Power Consumption: 600 VA		* Juki India Private Limited

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.62	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	Maximum swing speed: 1500 rpm		* Juki India Private Limited
10.63	High-speed, Flatbed, Top & Bottom Coverstitch Machine	20~25%	Stitch type as per sewing items, simplified maintenance mechanism	Stitch type: 2 / 3 needles top and bottom covering stitch		* Juki India Private Limited
10.64	High-speed, Cylinder-bed, Top & Bottom Coverstitch Machine	20~25%	Stitch type as per sewing items, simplified maintenance mechanism	Stitch type: 2 / 3 needles top and bottom covering stitch		* Juki India Private Limited
10.65	Computer-controlled, High-speed, Bartacking Machine	10~30%	Faster speed, high productivity, better seam quality, wider sewing area, different sewing pattern	Maximum sewing speed: 2700 / 3000 rpm, Power Consumption: 320 Watts		* Juki India Private Limited
10.66	Servo-motor Stitching Machines	63%	Clutch-less operation, variable speed, Reverse Motor rotation Up to 4000 RPM / High Torque 400 watts,	Speed: 4000 rpm, Variable speed DC servomotor		* Westchester Sewing Machine Co.
10.67	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
10.68	Computerized Embroidery Machine	15~20%	Advance Dahoo program gives high quality performance, colour LCD displays current embroidery design, use servomotor, high precision	9 needle, 20 head area, 1200mm with double alternate, memory storage of 1000000 stitches & 99 designs		* Laxmi Creation
10.69	Automatic Printing Machine	10~30%	Auto start / stop with auto counters, aluminium honey comb pallets, half index to clean screen	Printing width: 90" / 140", Table length: 100", Centre of lifting lever: 1500 / 1200 mm		* Jaya Industries * Screenotex Engineers Pvt. Ltd.
10.70	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	Capacity: 25 - 100 (Kgs), Drive Motor: 1440 rpm, 1 - 3HP, Blower Motor: 2800 rpm, 1 - 3HP		* Whirler Centrifugals Pvt Ltd.
10.71	Draw Winder	40~50%	Inverter driven motor drive system offers stepless parameter setting in running condition	Speed: 1200 meters/ min, Width: 10 - 18 ft, Height: 10 ft, Power: 39.2 - 142.18 KW		* Aalidhra Textile Engineers Ltd.
10.72	Air Draw Texturising Machine	40~50%	Inverter driven motor drive system offers stepless parameter setting in running condition	Width: 3.2 meters, Height: 3.2 meters, Power: 28.4 - 36.0 KW		* Aalidhra Textile Engineers Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.73	Draw Texturising Machine	40~50%	Inverter driven closed loop speed control for individual drives	Speed: 1200 meters/ min, Power: 88.75 - 136.5 KW		* Aalidhra Textile Engineers Ltd.
10.74	Filament Twisting Solutions	40~50%	Electronic NXG Power Saver Control System	Feed: 0.5 - 3.0 Kgs, Speed: 200 meters/ min		* Aalidhra Textile Engineers Ltd.
10.75	Spun Twisting Solutions	40~50%	Electronic NXG Power Saver Control System	Feed: 0.4 - 2.8 Kgs, Speed: 70 meters/min		* Aalidhra Textile Engineers Ltd.
10.76	Industrial Twisting Solutions	40~50%	Electronic NXG Power Saver Control System	Feed: 2.5 Kgs, Takeup: 2 - 10 Kgs, Speed: 200 meters/ min		* Alidhra Weavetech Pvt.Ltd.
10.77	Thread Manufacturing Solutions	40~50%	Electronic NXG Power Saver Control System	Feed: 3.0 Kgs, Speed: 120 meters/ min, Electronic thread break detector		* Alidhra Weavetech Pvt.Ltd.
10.78	Crepe Yarn Solutions	40~50%	Electronic NXG Power Saver Control System	Feed: 3.0 Kgs, Single & double deck design upto 50 meters/min, Electronic thread break detector		* Alidhra Weavetech Pvt.Ltd.
10.79	Automatic Cone Winder	15~20%	Variable frequency drive controlled, vacuum sensor & electronic circuit to optimize suction pressure			* Nota Industries * Reshmi Industries (India) Pvt Ltd. * Veejay Lakshmi Engineering Works Limited
10.80	Yarn Guided Machine with Precision Crossing with Inverter Control	10~30%				
10.81	Tape Winder (Using Frequency Drive)	10~30%				* Lohia Starlinger Ltd.
10.82	High Speed Shuttleless Velcro Machine					* Ningbo Keguang Mechanical & Electrical Products Co. Ltd.
10.83	Water Jet Looms	50%	High Speed, low vibration, lowest power consumption per meter of fabric manufactured	Shedding: Plain or Dobby, Power: 1.5 - 2.7 KW		* Alidhra Weavetech Pvt. Ltd.
10.84	Air Jet Looms	50%	Lowest power consumption per meter of fabric manufactured	Shedding: Plain or Dobby or Jacquard, Speed: Upto 800 rpm, Power: 2.2 - 3.0 KW		* Alidhra Weavetech Pvt. Ltd.
10.85	Rapier Looms	50%	Lower production cost due to higher efficiency	Shedding: Plain or Dobby or Jacquard, microprocessor control, electronic selector		* Alidhra Weavetech Pvt. Ltd.
10.86	Jacquard Machine with Electronic Control					* Bonas Textile Machinery NV
10.87	Water-tube Boilers (by Replacing Conventional Smoke-tube Boiler)	2~5%	Higher steam output, higher pressures & higher temperature	Steam 120 TPH at pressure 65 Kg / cm ² at temperature 500 degC		* Alidhra Weavetech Pvt. Ltd. * Fire Cad Technologies
10.88	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.	Designed based on exhaust temperature		* Forbes Marshal

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
10.89	Heat Recovery Systems for Boilers (Economizer, Air Pre-heater)	5~10%	Reduce auxiliary energy consumption, equipment size, fuel consumption, pollution	Designed based on exhaust temperature		* Heatech Engineers * Transparent Energy Systems Private Limited
10.90	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	Range: 7.5 KW to 2.7 MW		* Acoustic Power Gensets * Asian Diesel Corporation
10.91	Energy Efficient Fan, Blower, Pump	25~30%	Lesser heat generated, reduced maintenance requirements	IEC 60335-2-40		* Aerovent Projects Pvt. Limited * R. K. Engineering Works
10.92	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
10.93	Variable Frequency Drives for Fan, Blower, Pump	25~30%	Extended equipment life, reduced maintenance, reduced peak demand, safety against power fluctuations	Frequency: 48 - 63 Hz, Range: 0.18kVA - 6000 kVA		* ABB India * Sirius Electonnet India Pvt. Ltd. * Vacon Drives and Controls Pvt Ltd.
10.94	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.
10.95	Polishing Line with High Efficient Electric Motors using AC drives	23%				* Sunworld Vitrified Pvt. Ltd
10.96	Circular Weaving Machine	20-25%	Optimum output of fabric and quality from the machine corresponding to the quality of tape			* Lohia Starlinger Ltd.
10.97	Tape Extrusion Line	25-30%	Equipped with automatic screen changer with in-line gear pump system			* Lohia Starlinger Ltd.
10.98	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	Based on the concept of central extrusion modules		* Lohia Starlinger Ltd.
10.99	Automatic Stitching Machine	20-25%	High nonstop speeding machine			* Shanghai Eterna Machinery Co., Ltd.
10.100	Bridge Guiding machine		High Accuracy and faster operation	Full width sensor with mounting brackets for lateral movement detection of webs		* Erhardt leimer

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11	Engineering					
11.1	Energy Efficient Air Compressors	30~50%	Easy to install and operate	ASME B19.1		
11.2	Variable Frequency Drive for Screw Compressors	25~30 %	Extend equipment life, reduce maintenance, reduce peak demand, safety against power fluctuation	Frequency 48 to 63 Hz, efficiency at nominal power is 98%		
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	Recyclable Refrigerated Dryer		
11.4	Variable Frequency Drive for Oil Pimp in Hydraulic Power Pacs	25~30%	Smooth start / stop, increase life	Frequency: 48 - 63 Hz, Range: 0.18kVA - 6000 kVA		
11.5	Energy Efficient Exhaust Fans	25%	Improve in suction	Flow Rate: 19.04 m ³ /s, Total Pressure: 34.83 (mm of water gauge)		
11.6	Variable Frequency Drive for Hot Air Circulation Fan for Preheating Furnace	25~30%	Smooth start / stop, increase life	Frequency: 48 - 63 Hz, Range: 0.18kVA - 6000 kVA		
11.7	Ceramic Fiber Insulation for Batch Furnaces	2~4%.	Reduce surface temperature, minimised convection & radiation losses, improve safety	Design as per requirement		
11.8	Air Preheater (for Furnace Flue Gas Waste Heat Recovery)	5~30%.	Reduce auxiliary energy consumption, equipment size, fuel consumption, pollution	Design waste heat recovery system based on exhaust temperature		
11.9	CNC Cutting Machine with End Former	45~50%	Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality	Available in various specifications and can customized		
11.10	Full Automatic CNC Return Bender	45~50%	Automatic feed, produce return bends at high production speed			
11.11	Automatic Ring Sizing and Loading Machine	45~50%	Higher productivity, require less maintenance	Rounding dies: 17 pieces, Net / Gross Weight (Kgs): 50 / 75, Dimensions (mm): 520 x 320 x 230, Shipping Volume (m ³): 0.04		
11.12	CNC Vertical Machining Centre	45~50%	Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality			
11.13	Vacuum Holding for Non-Ferrous Components for High Speed Milling	25~30%	Higher productivity, higher accuracy			
11.14	CNC Co-ordinate Measuring Machine	25~30%	Higher productivity, higher accuracy			

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11.15	CNC Sharpening and Profile Grinding, Automatic Broach Shapping Machine	15~30%	Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality		CLCSS	
11.16	Turning Machine with Variable Frequency Drive with Regenerative Braking System	30~35%	Variable frequency drive, high speed machining		CLCSS	
11.17	Servo Electric Turret Punch Machine	10~20%	Punching force: 20 / 30 ton, compact size, low maintenance			
11.18	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	Abrasive waterjet cutting head: 6200 / 4100 bar		
11.19	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		
11.20	CNC Plasma Cutting Machine	40~45%				* CNP Engineers
11.21	Double Polishing Machine (with Inverter Control)	30%				* Pyung Chang Machinery Co. Ltd
11.22	Pressure Die Casting Machine					* Buhler Druckguss AG
11.23	Semi Automatic Pillar Type Hydraulic Hot Moulding Press (with PLC Control)	30~40%				* Flowmech Engineers (P) Ltd.
11.24	CNC Electronic Spring Control Machine					* WAFIOS AG
11.25	Fully Automatic Hydraulic Hot Chamber with Diesel Burner	20~25%				*
11.26	Rotary Table Machine for Surface Finishing and Polishing (with Inverter Speed Regulation)	10~30%				* Surface Engineering
11.27	CNC Punching Forming Machine	25~30%	NC Control			* Murata Machinery (Shanghai) Co. Ltd.
11.28	CNC Based Gear Tester					* Klingelberg, Francis Klein & Co. Pvt. Ltd.
11.29	Open Back Double Point Press – PLC Controlled	30~40%				* Jiansu Yangli Group
11.30	Automatic Transfer Unit	35~40%				* Lee Yih Automation Co.
11.31	CNC Garter Spring Former	35~40%				* YHM Springtech Machinery Co.
11.32	Electro-Hydraulic CNC Punching Machine	25~30%				* TRUMPF (India) Pvt. Ltd. * Murata Machinery (Shanghai) Co. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11.33	Automatic NC Control Bending Machine					* TRUMPF (India) Pvt. Ltd.
11.34	Sensor Oxy – Height Control (OHC) and Sensor Plasma Height Control (PHC)					* Hypertherm, Inc.
11.35	Gasifier Based Heat Treatment Furnace	20~30%	Utilize clean energy			* ENCON Thermal Engineers Pvt. Ltd. * Shanghai Esong Mining Machinery Co.
11.36	Insulated Gate Bipolar Transistor Based Inverter	30~40%	High power factor (0.95), can start up at any load, automatic power & frequency tracking			* Larsen & Toubro Ltd. (Welding Products Business)
11.37	Cylinder Block Boring and Milling Machine (with Variable Speed and Cycle Control)	10~30%				* AMC-SCHOU AS
11.38	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			* Innovative Technologies
11.39	Hollow Heading Machine					
11.40	Heading Machine with Semi Cover					
11.41	Nut Former Machine					
11.42	Laser Marking Machine					* Sahajanand Laser Technology Ltd.
11.43	Double End Chamfering Machine for Pipes					*
11.44	Heavy Duty Plano Milling Machine (using AC Variable Drive)	10~30%				* Sagar Engineering Works * Simplex Engineering Works
11.45	Heavy Duty Multi-coil Electromagnetic Rectangular Chuck (with Variable Control Unit)	10~30%				
11.46	NC Hydraulic Shearing Machine					
11.47	NC Flame Cutting Machine					
11.48	CNC Spring Making Machine					
11.49	CNC Wire Bending Machine					
11.50	Plano Miller with 3 Cutting Head					
11.51	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	Beam weight: 750 - 3300 kg, Nos. of magnets: 5 - 8, Lifting capacity: 2000 - 16000 kg, Power consumption: 15KW x 2sec		* East Coast Magnets Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11.52	Electro Permanent Magnetic - Telescopic Spreader Beam	90~95%	System length can be adjusted based on plate length being handled	Beam weight: 1500 - 3800 kg, Nos. of magnets: 8, Lifting capacity: 4000 - 16000 kg		* East Coast Magnets Pvt. Ltd.
11.53	Electro Permanent Magnetic - Tilting Plate Handling	90~95%	Self tilting mechanism, spreader beam fitted with elastic suspension, radio remote control integrated	Beam weight: 2000-4000 kg, Nos. of magnets: 4 - 6, Lifting capacity: 4000 - 16000 kg		* East Coast Magnets Pvt. Ltd.
11.54	Electro Permanent Magnetic - Billet Handling Machine	90~95%	Used for storing / unloading / handling of billet, handling of Billets upto 600 degC	Beam weight: 800 - 3000 kgs, Nos. of magnets: 4 - 6, Lifting capacity: 4000 - 16000 kg		* East Coast Magnets Pvt. Ltd.
11.55	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	Self weight: 20 - 90 kgs, Lifting capacity: 300 - 2000 kg		* East Coast Magnets Pvt. Ltd.
11.56	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	Lifting falt load: 1500 - 5000 kg, Self weight: 120 - 375 kg		* East Coast Magnets Pvt. Ltd.
11.57	Heavy Duty EPM Systems for Rail Machining	90~95%	High clamping force, accurate & uniform clamping, perfect alignment to the rail, absence of machine vibration	Modular elements with approximately 1000 mm length each		* East Coast Magnets Pvt. Ltd.
11.58	EPM Modules for Fast Mould Clamping	90~95%	Fail proof holding system for mould during power failure, helps to change mould very fast	Electrical Input: 15 kVA, 25 kVA, 32 kVA, Magnet thickness: 50 - 53 mm		* East Coast Magnets Pvt. Ltd.
11.59	Electro Permanent Magnetic Chucks(MAGNASLOT)	90~95%	Universal clamping directly on magnetic chuck			* East Coast Magnets Pvt. Ltd.
11.60	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.
11.61	High Speed Circular Sawing Machine	20-25%	Latest state-of-the-art technology to overcome quality and technology limitations, good surface finish and face squareness do not require facing operations			* Axies industries
11.62	23 & 4 Hole drilling SPM	30%	High operational efficiency, high production rate, high downtime of engine			* Axies industries
11.63	15 Hole drilling SPM	70%	High operational efficiency, high production rate, high downtime of engine			* Axies industries

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11.64	4 Way U drilling & fine boring SPM	10%		Drill Dia- 25.4, Spindle RPM-1250, Cutting Speed-100m/minute		* Axies industries
11.65	Multi spindle drilling head SPM	20-25%	It can double or triple our drilling / tapping / reaming operations by simultaneously drillingcountersinking, reaming or tapping two or more holes in one operation			* Axies industries
11.66	Three pillar type drilling SPM	30-40%				* Axies industries
11.67	2Way fine boring SPM	79%				* Axies industries
11.68	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
11.69	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			* * Sai Electricals
11.70	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.
11.71	Single Axis NC Tube bender with linear and rotary indexing arrangement		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
11.72	Marine engine			Inline 6 cylinder, 4 stroke diesel		* * Cummins Inc
11.73	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
11.74	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
11.75	Two Glazing Bead Saw with automatic control		Two glazing beads can be cut at the same time quickly and efficiently,Automatic operation with adjustable saw speed			* * Elumatech
11.76	High Alumina Brick Refractories					* * Raasi Refractories Ltd.
11.77	Servo driven Spring Coiling Lathe Machine		"Accurate pitch control, Programmable initial tension, Programmable squareness of ends, Excellent repeatability"			* * Bennett Mahler Ltd
11.78	Cold Heading Machine	40-45%	High quality surface finish and close repetitive tolerances at high speed			* * Stalcop
11.79	CNC Engraving Machine	40-45%	L.M. guide-ways for all axes,AC Servo Drive for all axes,High Frequency air-cooled spindle			* * Sunita Engineering Corporation Nasik
11.80	Pick and Place Machine	45-50%	High speed, high precision placing of broad range of electronic components			* * Juki India Private Limited
11.81	NC Cutter and Rotary	30-40%	High precision slitting, easier operation, higher efficiency and reduced down-time for change-over.			
11.82	Radial CNC Multi Spindle Drilling Machine		Greater precision and reliability			* ** REDEMA "
11.83	Electrically heated Nitriding Furnace		Nitriding quickly,Low brittleness,Stable performance,Easy operation			* * Foshan Jutong Industrial Furnace Co., Ltd
12	Food Processing					
12.1	Improved Oven with Heat Recovery Equipment (Puffed Rice)	15~45%	Improve in quality, reduce breakage, reduce pollution		CLCSS	
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	* Sahara Impex India Private Limited

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	
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 Qualit	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
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	* 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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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 self life			* 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 Enterproses * Naik Oven Manuafacturing Co.
12.16	# Prover	35%	Separate system for heating & humidity, durable & reliable	Nos. of Trays: 22 x 400 - 600 mm, Power: 2.6 KW		* CS Aerotherm Pvt. Ltd. * Ningbo Sybo Machinery Co.
12.17	Spiral Mixer	5~10%	Improve quality through homogeneous mixture			* Himalyan Equipment Manufacturing Co.
12.18	Automatic Rinsing, Filling & Capping Machine for PET Bottles	10~15%	Improve productivity & quantity, easy to operate & control			* 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	Cylinder length: 570 mm, Cylinder diameter: 60 mm, Cylinder opening: 0 to 40 mm, Motor: 1.0 HP		* Artisan Engineering Works * CS Aerotherm Pvt. Ltd.
12.22	# Rotary Rack Oven	30-40%	Illuminating elements outside main heating chamber with off facility	Rotary Rack Oven Tray Size: 450 mm x 450 mm, Connected load: 1.5 KW		* Artisan Engineering Works * CS Aerotherm Pvt. Ltd. * Pritul Machines
12.23	# Deck Oven	25-30%	Special burner, improved compartment design	Heat load: 28 MJ/hr, Gas consumption: 0.48 kg/hr		* Artisan Engineering Works * CS Aerotherm Pvt. Ltd.
12.24	# Planetary Mixer	30-40%	Performs efficient mixing, interlocked safety guard, emergency stop, motor cooling system to ensure safe & smooth function	Capacity: 9 - 72 Ltrs, Power: 0.3 - 3.0 HP		* Artisan Engineering Works * CS Aerotherm Pvt. Ltd.
12.25	# Cookie Drop	25-30%	Adjustable speed & time of depositing roller, adjustable speed of nozzle rotation	Capacity: 100 - 120 Kg/Hr, Dropping point: 6 Nos. Power: 1.5 / 2.5 KW		* 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	Capacity range: 10.6 - 996 cfm		* Delair India Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
12.27	# Cashew Peeling Machine with Screw Compressor	25-40%	Increase temperature automatically in short time span, continuously duty cycle, maintenance & clearing easily	Capacity: 100 kg/h, Power: 1.7kw, Air Pressure: 5 - 10 Kg		* 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 * Oxygenerator
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			* Roots Enviro Systems (P) Ltd * Vaccunair Engineering Co Pvt Ltd.
12.33	CNC based Dispensing Machine	30-35%				* Balaji Udyog
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.
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			* 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			* 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	Furnace temperature upto 1400 degC, Power rating: 5 - 200 kw, Temperature control through PID controller and thyristor		* Electroil * Meta Therm Furnace Pvt. Ltd.
14.5	CNC Wire Cut	30~60%	Good surface finish, high performance in machining			* Sanki Machine Tools India Pvt. Limited * Savita Machine Tools Pvt. Limited

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
14.6	CNC Milling	30~60%	Higher productivity, dimensional accuracy, require less manpower skill, consistency in quality			* 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			* Khan Machines * Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd.
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	Power rating: 80 - 1430 KVA & 1606 - 8150 KVA		* 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	Capacity: 80 - 3000 MT		* 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	Manual & Automatic series		* Gallant Equipment Pvt. Ltd.
14.13	Conveyorised Powder Coating Curing Oven	5%.	Precise temperature control, longer functionality	Temperature range: upto 2500 degC, Fuel: electric or fuel fired		* A K Enterprises * Red Line Industries Limited
14.14	CNC Milling Machine – Vertical Machining Centre	30~60%	Higher productivity, consistency in quality, low maintenance			* Macpower CNC Machines Pvt. Ltd. * TAL Manufacturing Solutions Ltd.
14.15	PVD (Multi-arc Ion) Coating Machine	10~15%	Low running cost, higher productivity, less pollution	Range: Small, medium and large PVD System		* Huicheng Vacuum Technology Co. Ltd. * Sanovac Technology Limited
14.16	CNC 3 Axes Hobbing Machine	25~35%	Dry cutting without using coolant, improve quality, improve productivity			* Kashifuji
14.17	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	Temperature range: upto 1100 degC		* J.R. Furnace & Ovens (P) Ltd. * Uma Shankar Engineers * WESMAN GROUP
14.18	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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
14.19	# 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.
14.20	# CNC Turret Punch Press	25-30%	Higher productivity, produce variety of components without re-tooling, suitable for regular & repetitive job	Auto Index machine. Table length: 3.0 meters, Sheet size: 1270 x 3000 mm (auto repositioning beyond 1500 mm),		* Trustwell Industries
14.21	# Heavy Duty Injection Pump Test Bench (with Variable Frequency Drive)	15-25%	Variable speed drive, expandable compound pulley system, dual belt fitting, auto align	Hydraulic gear pump motor: 1.0 HP, Electronic Multi Stroke: 100 - 1200 in steps of 100 strokes, Injector nozzle: 175 kg/cm ²		* Bosch Limited * Maneklal and Sons (Exports)
14.22	# Continuous Gas Carburising Furnace with Endogas Generator		PLC automatic system with Hmi & computer controlled			* Thermotech Engineering Company * Vibrant Thermal Engineering
14.23	Electronic Spring Coiling Machines					
14.24	CNC Gear shaving machine	50-55%				
14.25	Medium Frequency End-bar Heater	5-15%				
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		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		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.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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		CLCSS	* A.S. Precision Machines Pvt. Ltd. * Singhs Industries * SMT Machines (India) Limited
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		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	* 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	* 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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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.
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		High quality precision parts with optimum surface finish, longer tool life, increased productivity, lower unit cost			* Amco Press System
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. * Torielli * 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. * MOLINAeBIANCHI SpA
16.3	Automatic Pounding Machine	50%	Improves quality of the final products.		IDLS, CLCSS	* ALPE SPA * MOLINAeBIANCHI 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 * MOLINAeBIANCHI 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. * MOLINAeBIANCHI 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. * MOLINAeBIANCHI SpA
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.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
16.8	Mackey Sole Stitcher	40%	Fast production rate, better accuracy & product finish		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%	increaes production rate		IDLS, CLCSS	* CERIM S.p.a. * Focus Machines India Pvt Ltd. * Torielli
16.10	Roughing Machine for Plastic Blocks	10~15%	increaes 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, acurate 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. * MOLINAE BIANCHI SpA * Toriell
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%				* 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
16.20	Vacuum Dryer	15~25%	Uniform & better drying, shorter drying time		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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
16.22	Auto Spray with Dryer	15~20%	Uniform spraying & drying, pattern control, fine atomization, high production rate		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%		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			* Blue Star Limited * Frick India Limited * Kirloskar Chillers (P) Ltd.
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		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	Forming Film Thickness: 0.2 - 0.3 mm, Forming Film Width: 120 mm		* Europack Machines (India) * Rapidpack Engineering Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	Output: 25000 - 30000 capsules/ hour, Power: 0.25 HP (loader), 1.5 HP (Auger)		* Anchor Mark Private Limited * Pankaj Industries
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	Co2 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
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	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
18.3	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.
18.4	Sinter Cooler Waste Heat Recovery	60% & 34%	Reduce coke consumption, reduce emission, can avail carbon credit, applicable for circular type or linear type cooler			* Laimura Technology (P) Ltd. * Thermax Ltd. * Transparent Energy Systems Pvt. Ltd.
18.5	Coke Dry Quenching	80%	Improve on coke quality & strength, reduce water usage			* Nippon Steel Engineering Co. Ltd. * Stork India * Thermax Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
18.6	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.
18.7	High Efficiency Combustion Control System in Pre-Heating Furnace	5~15%	Furnace callibration is not required, less furnace maintainence	BS EN 14597:2005		* Eclipse Combustion Pvt. Ltd. * ENCON THERMAL ENGINEERS (P) LTD. * Pyrotech Engineers & Mfrs.
18.8	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			* ENCON THERMAL ENGINEERS (P) LTD. * Siemens VAI Metal Technologies * Suzhou Fangzhou Aerial-model Co. 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%				* Simplicity Engineers Pvt. Ltd.
19.3	Manganese Steel Heat Treatment Furnace with Recupertor	25~30%				
19.4	Hi Chrome Grinding Media Oil Fired Heat Treatment Furnace with Recupertor					
19.5	Wire Drawing (with Variable Frequency Drive Control)					* Ajit Machine Tools Industries
19.6	Spooling Machines (with Variable Frequency Drive Control)					* Assomac Machines Ltd.
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	Molecular sieve battery assembly for adsorption of moisture and carbon dioxide		* Kanak Cryo
20	Plastics & Polymers					
20.1	Multi Layer Film Extruder	25~30%			CLCSS	* R. K. Engineering Works
20.2	Solvent Less Lamination Machine				CLCSS	
20.3	Servo Motor Plastic Injection Machine	30~70%	Better molding stability, lower cycle time		CLCSS	* Ferromatik Milacro * Modern Plastics & Polymers Infomedia Pvt. Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
20.4	PET Moulding Machine	40~45%	Fast production rate, uniform production quality, require less manpower		CLCSS	* Shyam Plastic Machinery
20.5	Fully Automatic Micro Processor Controlled Plastic Injection Moulding Machines	50%	Homogeneous force applied, improve productivity, reduce wastage		CLCSS	* Guru Harkrishan Hydraulics
20.6	CNC Milling Machine	10~15 %	Productivity improvement, improve quality, easy to operate	Travel: 120 / 350 mm (X / Z axes), Y axis: 25 mm, Max turning length: 300 mm, Max turning Dia: 200 mm, Spindle speed range: 50 - 3000 rpm, Min axis increment: 0.001 deg	CLCSS	* Jyoti CNC Automation Pvt Ltd * LMW India Ltd.
20.7	PLC Controlled Hydraulic Press	5~10%	Productivity improvement, improve quality, easy to operate		CLCSS	* Santec Exim Private Limited
20.8	Pultrosen Machine	10~20%	Productivity improvement, improve quality, easy to operate		CLCSS	* Ashirwad Industries * SVS Hydraulics
20.9	Infra Red Heaters / Oven	30~40%	Reduce cycle time		CLCSS	* Matrusree Electro Heats
20.10	Microprocessor Controlled Fully Automatic Extrusion / Injection Blow Moulding Machine	10~20%	High productivity, improve quality		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			* Chuam Lih Fa Machinery Works Co. Ltd * Ferromatik Milacron
20.12	Fully Automatic – HM/ LDPE (using Variable Frequency Drive)	35%				* Gurucharan Industries
20.13	Corona Treater (using Advanced IGBT Technology)					* Eltech Engineers
20.14	Slitting Machine (Using AC Frequency Drive)					* Fadia Engineers * Skyflex Engineering
20.15	Pneumo Hydraulic Edge Guide System					* Om Suntronics Converting Equipments
20.16	Three Layer Brown Film Plant (using Variable Frequency Drive)	20%				* Kabra Extrusionstechnik Ltd,
20.17	Standy Zipper Pouch Making Machines (using AC Frequency Drives)					* Jartolia Engineering Works
20.18	Rotary Cap Compression Moulding Machine					* Magnum Machine & Tools (P) Ltd.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
20.19	Laminated Tube Body Maker Machine					* Jinbaotian Packing Machinery
20.20	Screwing Cap Machine					* Jinbaotian Packing Machinery
20.21	Thermoforming Sheet Extrusion Machine (using Variable Frequency Drive)					* R.R. Plast Extrusions Pvt. Ltd.
20.22	Thermoforming Machine with Infra-red Heaters (using Variable Frequency Drive)					* Rajoo
20.23	Scrap Grinder					* R.R. Plast Extrusions Pvt. Ltd.
20.24	Automatic Strap Bend Making Machine	25~30%				* Jumbo Steel Machinery Co. Ltd.
20.25	Automatic High Speed Bag Making Machine					* Mamata USA Inc
20.26	Flex Lamination Machine					* Canara Flex
20.27	Bottom Seal Bag Packing Machine (with Micro Processor Controlled)					* XL Plastics
20.28	Plastic Injection Machine (with Variable Pump)	15~20%				* Negri Bossi S.p.a
20.29	Production line for manufacturing of laminated panels		Equipped with PLC control system which helps to set length and provide accurate automatic cutting			* Ningbo Aoli Machinery 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			* Lohia Starlinger Ltd.
20.33	PLC based tape stretching line	45-50%				
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	Provision of IR Sensors for Material Movement	3~7%	Quality improvement, waste minimization			* Matrusree Electro Heats

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
21.3	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	Selection of drive depend on motor horse power, torque & speed characteristics, full load amp rating, voltage rating		* Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited
21.4	Liquid and Gaseous Fuel Ratio Controllers (Ratiotrols)	5~10%	Reduce scale loss			* Diligent Micro Controls * Wesman India
21.5	Heating and Pumping Units	5~10%	Improve combustion efficiency			* Encon Thermal Engineers Pvt Ltd * Macro Furnaces Pvt Ltd.
21.6	High Efficiency Burners with Multifuel Capacity	5~10%	Multi fuel handling capacity			* Aerotherm Systems * Wesman India
21.7	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	Selection of drive depend on motor horse power, torque & speed characteristics, full load amp rating, voltage rating		* Crompton Greaves Limited * Dynaspede Integrated Systems (P) Limited
21.8	Energy Efficient Motors with Variable Frequency Drive	10~30%	Eliminate voltage dip, reduce starting shock on motor / coupling / gear, improve process control, reduce motor heating / stress	IEC 34-1; IS 12615:1989; Performace (IS 325/ IEC 60034-1)		* International Copper Promotion Council (India) * The Indian Electric co.
21.9	Dry Type Starter for Slip Ring Motor	4~5%				
21.10	5Hi re-rolling machine	35-40%	Less noise, compact helical gear, and multiple gear ratio for reduction of speed			* Gayatri Engineering Works
21.11	Rolling mill stand	20%				* Punjab Engineers and Fabricators
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. * Veasons Energy Systems Private Limited
22.3	Web Based Coating Machine for Water Based Coating	30%	Eco-friendly, recyclable, free from fire hazard		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		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
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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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	Case Maker & Printer Slotter	15~20%	Instant drying, simple to operate & maintain		CLCSS	* 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		Modular design with maximum flexibility and productivity	Equipped with NSF 36 non-stop feeder		* Heidelberg India Pvt. Ltd.
22.11	Sticker labeling machine		Accurate labeling, Minimum Glue consumption, Labour saving, Minimum maintenance			* Lan Pharmatech
22.12	Assembling Machine		Capable of processing Multicomponent closures (up to 5 pcs.) with output rates between 7.000 and 60.000 pph.	Style-Continuous motion Carousel, Max. reachable speed- 60.000 p.p.h.		* Lamfi Equipment
22.13	Lining/Wadding Machine		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.	Style-Indexing Carousel, Lining method-Punching out of reel, Max. reachable speed-12,500 cycles/h		* Lamfi Equipment
22.14	Automatic water slotter with variable frequency drives	20~30%	Wear-free, frequency controlled motors with long operation life, Pneumatic clamping system for safe material clamping, No adjustment needed for similar profile types	Spindle speed: 12.000 r.p.m.		* Elumatech
22.15	Aluminum Foil Sealing and screwing cap machine		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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
22.17	Three Layer Blown Film Plant		Equipped with advanced CAD Design dies to ensure uniform flow distribution, excellent melt characteristics and film quality	Advanced CAD Design dies with crucial Internal Bubble Cooling (IBC) mechanism		* Kabra Extrusion Technik
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%				* Bharaj Machineries Pvt. Ltd
23.7	Rubber Injection Moulding Machine with Electronically Controlled Hydraulic Pump	25~30%				
23.8	PLC – Rubber (Plastic) Dispersion Mixer					* 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		Shorten curing time, increases production efficiency, High speed vacuum system	Vaccum cover design reduces ,diversified stripping device		* Tung Yu Hydraulic Machinery Co., Ltd.
24	Stone Cutting					

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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
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.
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%	Prodcue 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, decreased 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

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
25.13	Plasma Cutting Inverter	60%	Light weight, more powerful, longer life, higher reliability, quality cutting	IGBT technology, Flow pressure: 4.8 bar, H class insulation, no load consumption < 0.1 KVA	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 Krishma 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 * Sarvasv 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		CLCSS	* Fair Deal Pvt Ltd. * Sahil Graphics * Sud and Waren Pvt. Ltd.
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		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.

Sl. No.	Eligible Equipment/ Technology	Energy saving potential (%)	Other advantages	Specifications	Financial/ Fiscal Incentives	Name of Equipment Supplier(s)
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%				* Heidelberg India Pvt. Ltd.
26.14	Stahlfolder (Folding Machine)	20~25%				* Heidelberg India Pvt. Ltd.
26.15	CPT UV Shatter Machine					* basysPrint Headquarters
26.16	Violet Photopolymer CTP					* Monotech Systems Limited
26.17	Auto Color Registering Controller					* Om Suntronics Converting Equipments
26.18	Micro Processor Controlled Doctoring Machine					* HCI Converting Equipment Co. Ltd.
26.19	Slitting Machine					* HCI Converting Equipment Co. Ltd.
26.20	Automatic Book Sewing Machine					* Meccanotecnica S.p.A.
26.21	Flex Printer					* LIPI Marketing (P) Ltd
26.22	Coding Machine					* Videojet Technologies Inc.
26.23	Ultra Violet Acqua Card Board Varnish Coating Machine					
26.24	Ultra Violet Curing Machine along with Infrared Dying					
26.25	Web Offset Printing Machine		Automatic adjustment for registration of 4 colours on each side of web, Variable speed motorised dampening, fitted with disconnection clutch			* K.K. Printing Machines Mfg. Co. Pvt. Ltd.
26.26	Digital Inkjet Printer	30-50%		Full-photolithography Inkjet Nozzle Engineering (FINE) technology print head		* Amont Software & Equipment Pvt Ltd
26.27	CNC controlled Copam cutting plotter and Photocopier					
26.28	Laser Marking Machine	15-20%	Fast and Accurate Solution	MIL 130 UID Compliant		* Kirti Lasers
26.29	Image press	15-25%	High Productivity, high speed and high image quality	JDF and PPML standards		* Canon India Pvt. Ltd

Chapter 3: Details Equipment Suppliers

A K Enterprises

147A/1, Girish Ghosh Road
Near Bajarang Bali, Ghosuri
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
Udhyog Nagar, 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, Shivkrupa 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.aeicashewmachinery.com

Acme Electronics

780/A GIDC Industrial Estate
Makarpura, Vadodara - 390 010 (India).
Contact person: Mr. Alpesh PaContact no.
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/

Acmevil 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: acmevileng@dataone.in,
info@acmevil.co.in
Web: http://www.acmevil.co.in

Acmevil 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@acmevil.
co.in
Web: www.acmevil.com

Acoustic Power Gensets

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

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, Shengkang,
Taichung 429 Taiwan.
Contact no. No : 886-4-25622651
Fax No : 886-4-25628289
E-Mail : 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, Phase III, GIDC, Vatva,
Ahmedabad-382445, India.
Web: www.aerithermsystem.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/>

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.
www.akashpack.com

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>

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

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

AMC-SCHOU AS

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

Amco Press System

809, Industrial Area-B
Ludhiana 141-003
Punjab (INDIA)
Tel: 0161-2532938, 2533899, 5121149
Fax: 0091-161-2530324,
Email: info@amcoppreses.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>

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
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.eContact 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 Upvan, 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 Complex,
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, Dediyaan,
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. 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

B.R.M. Machine Tools

5, Ambica Building, Swathicomplex,
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

basysPrint 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,Vaniy
ambadi,
Vellore district, Tamilnadu.,
Contact person: Mr.R. Manoharan,
Contact no.: +91-4174-232 155,
Email: info@bharathmachine.com,
Web: www.bharathmachine.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.eContact 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., 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/>

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.
www.bullionflexipack.com

Canara Flex, Opp. Bostik Findley (I) Pvt. Ltd.

Next to Bommasandra Indl. Area, Kachanayakanahalli, Bangalore
- 562199
Karnataka.
Contact No: +91- 80 - 7831113

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), E47/7, 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: ceedeevacuum@vsnl.com
Web: <http://www.ceedeevacuum.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

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.

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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

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Email: info@goldplusgroup.com
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Goodlife Technologies Pvt. Ltd

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Gopi Engineering Works

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Guleryuz Tannery Machinery Ltd.

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Web: www.guleryuzmakina.com

Guru Harkrishan Hydraulics

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Badhkal Road, N.I.T
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www.guruharikrishanhydraulics.com

Gurucharan Industries

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Web: enquiry@gci-india.com

GURUSON International

2512/10 (9B/3), Industrial Area-A Extension,
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Haian Baixie Forging Hammer Co. Ltd.

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Haier Appliances India Pvt. Limited

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Harish Tex-Mach Pvt. Ltd.

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HCS Enterprises

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Heatech Engineers

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Hi Tech Cooling Systems

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HIC Print Pack Machine

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Himalyan Equipment Manufacturing Co.

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Sarajni Nagar, Lucknow, Uttar Pradesh.
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Hindustan Electric Motors

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Honeywell Automation India Ltd.

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Hypertherm, Inc.

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832/8, 3rd Main Road OMBR Layout,
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Indotherm Furnace and Engineers

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Pawar Nagar, Thane (west) 400 602.
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INDOTHERM Furnace Pvt. Ltd.

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ITL Industries Ltd.

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

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Jartolia Engineering Works

E-64, Sanjay Colony, Sector – 23
Faridabad – 121 005, Haryana
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Jas Enterprises

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

Jaya Industries

369, Ulaipalar Street,
Vellakinar Post, Coimbatore.
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Jiansu Yangli Group

No.99 Middle Yangtze Road, Yangzhou City,
Jiangsu Province, China.
Contact No: 0086 514 87848251
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Jinbaotian Packing Machinery

West Side of Vinhe Bridge
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Jinjiang Sheng Da Shoes Machine Trading Co. Ltd.

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Johnson Lifts Pvt. Ltd.

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Jumbo Steel Machinery Co. Ltd.

No. 4, Roar 12, Taichung Industrial Park,
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Web: http://www.straw-machines-jumbo.com/

Jyoti CNC Automation Pvt. Ltd.

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Kaeser Compressors India Pvt. Ltd.

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Kirloskar Toyoda Textile Machinery Pvt. Ltd.

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Kirti Lasers

17/A, Madhuban Soc, Vishnu Ngr.,
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Klingelberg, Francis Klein & Co. Pvt. Ltd.

92-93, C-Wing, Mittal Court, Nariman Point,
Mumbai-400 021.
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Kodak Graphic

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Ulhasnagar - 421003, Maharashtra, India.
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Larsen & Toubro Ltd. (Welding Products Business)

EWAC Administrative Building, 2nd Floor,
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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
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Web: http://www.lipimarketing.com/

LiContact no. Infrared Systems Pvt. Ltd.

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Web: www.liContact no.ir.com

Llyod Insulation India Ltd

Post Box No. 4321, Punj Star Premises,
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New Delhi – 110019
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Web: www.lloydinsulation.com

LMW India Ltd.

Perianaicken palayam, SRKV Post,
Coimbatore, Tamilnadu - 641 020.
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Lohia Starlinger Ltd.

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Kanpur - 208 022
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LTP Engineering

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Web: http://www.landglass.com

M H Engineering Pvt. Ltd.

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Web: http://wiredrawingmachine.co.in/

Maa Santoshi Casting Company

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Village - Mandpura Pataudi,
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Machinotherm Engineers

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Macons Equipments

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Macpower CNC Machines Pvt. Ltd.

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Macro Furnaces Pvt. Ltd.

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Macro Print Engineers (India) Pvt. Ltd.

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Magnalenz Furnaces Pvt. Limited

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Magnum Machine & Tools (P) Ltd.

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Mailhem Engineers Pvt. Ltd.

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Mammon Furnace & Fabricators Co.

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Maneklal and Sons (Exports)

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Manometer India Pvt. Ltd.

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Maruti Equipments Ltd.

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Maruti Intelli Mech

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Nr.Tulsi Petrol Pump
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Mather and Platt Pumps Ltd.

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Mumbai.
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Matrusree Electro Heats

1-1-475/1, Gandhi Nagar, New Bakaram, Hyderabad - 500 080
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Matsui Technologies

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MD Corporation

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Meena Engineering Works

113, New Modella Ind Estate,
Behind Automatic Electric Co,
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Web: www.fillingcappingmachine.com

Megha Insulation Pvt. Ltd.

A-11/6th Floor, Dadasahed Jain Flats,
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Memco Machinery Mart

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Meta Therm Furnace Pvt. Ltd.

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9 Cambridge Avenue, Trading Estate,
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Metallon Holdings Limited

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Micro Engineers India

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Micro Services Group.

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Micro Thermal Inc

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

Mikrons

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Minwool Rock Fibres

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Hubli -580 024, Karnataka.
Contact No: 0836-2212201
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Web: 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.
www.modernplasticsandpolymers.in

Modern Refractory Erectors

118, Mangalagiri Complex, Gajuwaka,
Visakhapatnam -530 026,
Andhra Pradesh, India.
www.modernrefractory.com

Mohindra Mechanical Works

RZ-73, Nursing Garden, Near Khyala Village,
New Delhi - 110018, India.
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MOLINAeBIANCHI SpA

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Moulding Machine Manufacturing Pvt. Ltd.

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Web: http://www.mouldmasters.in

MS Furnace

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Mobile +91 98150-09200
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E-mail msfurnace@yahoo.in

Mukand Industries Pvt. Ltd.

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Ludhiana - 141010 Punjab (India).
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Murata Machinery (Shanghai) Co. Ltd.

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MV International (GBM Industries)

RZ-B-27, Dabri Extn., East New Delhi
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MVS House

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

NACH Engineering Pvt. Ltd.

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Naik Oven Manufacturing Co.

8, Suchita I.E, Talwar Compound,
Pokhran Road No2, Maji Wada,
Thane, Maharastra.
Web: www.naikoven.net

Nanghai Xiangda Machinery Co., Ltd.

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Web: www.avmsystech.co.in

Ningbo Aoli Machinery Co. Ltd.

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Ningbo City, Zhejiang Province, China
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Email: sales@aolimachinery.com

Ningbo Keguang Mechanical & Electrical Products Co., Ltd.

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Ningbo, Zhejiang, China
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Web: <http://keguang.en.made-in-china.com/>

Ningbo Obinder Co., Ltd.

188 Donghanmen south road, Yuyao,
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Ningbo Sybo Machinery Co. Ltd.

Rm.1104-1105, Xintiandi Building 12Th,
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Plant and Machinery Division (Kaohsiung Plant & Machinery Co.
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Nippon Steel Engineering Co., Ltd.

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Nirankari Electro Platers

Plot No. 350, Sector - 58, Electroplating Zone,
Faridabad - 121004, Haryana, India.
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NKH Hammers

Plot No. 1, Link Road, Industrial Area-A.
Extn., Ludhiana, Punjab, India.
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NOTA Industries

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NRS Welding Technologies

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NuGen Machineries Ltd.

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Oerlikon Textile India Pvt. Ltd.

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Om Suntronics Converting Equipments

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Osram India Pvt. Ltd.

Signature Towers ,11 th Floor ,
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Owens Corning

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Oxygenerator/ ING. L&A.

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

PALSER

Via Ronchetto, 321030 Mesenzana, (VA),
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Panasonic Asia Pacific Pte Ltd.

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Punjab Engineers and Fabricators

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Pankaj Industries

Gala No. 5, Indo Industrial Estate No. 3,
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Paper Board Machinery Company

115, D.L.F. Industrial Area Phase - 1,
Faridabad - 121003, Haryana (India).
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Parallels Optimized Computing

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Param TechnoSystem Pvt. Ltd.

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Paramount Conductors Ltd.

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Parota Overseas

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PaContact no. Furnace & Forging Pvt. Ltd.

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Pecma Air Systems Pvt. Ltd.

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Perfect Equipments

No.7, Multi Industrial estate,
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Perfect Forging, 2, Umakant Pandit

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Perfect Mechanical system

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Phillips Electronics India Ltd.

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Pioneer Intertrade

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Pioneer water solutions

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Plasma House

Work Shop No. 9 & 12, B/3, Ankur Building,
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Power Hydraulics

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Sirus Electronet India Pvt. Ltd.

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Sree Sakthi Equipments Company

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Sunworld Vitrified Pvt. Ltd,

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Technocrat Mouldings Pvt. Ltd.

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The Indian Electric Co.

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The Penn Group

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The Wesman Engineering Company Pvt. Ltd.

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Thermopac Boilers Pvt. Ltd.

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Thermotech Engineering Company

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THERMOTEC Furnaces (India)

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Viet Mold Machine Production Trading Services Co Ltd.

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