



सत्यमेव जयते

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Ministry of MSME

ANNUAL REPORT

for the 1st year (2008-09)

Rolling Mill & Induction Furnace Cluster, Jaipur

under

Micro & Small Enterprises Cluster Development Programme (MSE-CDP)



सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

Carried out by

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1-CLUSTER OVERVIEW

Introduction

Realizing the importance of cluster development, Govt. of India, Ministry of MSME has adopted the cluster approach as a holistic view to enhance productivity and generate sustainable employment competitiveness as well as capacity building of enterprises by adopting collective approach in the cluster in India under Micro & Small Cluster Development Programme (MSE-CDP) MSME - Development Institute, Jaipur has undertaken Rolling mill and induction furnace cluster to promote them under MSE-CDP Programme.

Cluster Scenario

Rolling Mill and Induction Furnace cluster in Jaipur is located at Vishwakarma, Jhotwara, Bagru & Jaitpura Industrial Area. Broadly classified into four sectors i.e. Induction Furnace, Automatic TMT bar plant, Structural Rolling Mill (ingot based) and Re-Rolling mill scrap based. About 15 Nos. Induction furnaces, 6 Nos. Automatic TMT Bar Plant, 18 Nos. Structural Rolling Mills & 12 Nos. Re-Rolling Mills are manufacturing about 2,70,000 tonnes ingot, 1,80,000 tonnes TMT bars, 1,51,000 tonnes angles, rounds, square bar to cater the market demand of Rajasthan

mainly & providing direct employment to about 3000 people & approx 10,000 people indirectly.

Strategic Interventions

- The structure of the Rolling Mill & Induction Furnace association to be revived with incorporating all the cluster units. : All activities will be carried out in association with Rajasthan Steel Chamber, Jaipur.
- The recruitment of Network Development Agent (NDA) is to be done, to be trained by MSME-DI and UNIDO/EDI in Cluster Development methodology.
- Arranging Training programme in association with UNDP(GEF) Steel Project, NISST, PCRA etc
- Credit linked capital subsidy scheme of SIDBI and raw material assistance scheme of NSIC is to be introduced.
- Consortiums are to be formed under cluster development program to deal with common procurement of raw material, to explore the opportunities to tie up with foreign collaboration and conversion agent of PSU /Large Scale Unit and technological up gradation
- To arrange joint exposure visit under cluster development program.

2 - EXECUTIVE SUMMERY

The cluster units are being visited regularly in order to build trust among stake holders & supported institutions and members of Rajasthan Steel chamber under which Cluster activities are being carrying out. The state govt. has already allotted 500 sq. mtr. land at Bagru industrial area for Rajasthan Steel Chamber.

Shri Govind Mishra, project coordinator, UNDP(GEF), steel project was requested to play vital role in technological intervention in Rolling mill & Induction furnace cluster, Jaipur. The UNDP (GEF) steel project has selected following four units as model unit from Jaipur cluster.

- M/s Shri Prithvi Steel Rolling Mill Pvt. Ltd.,
- M/s Premier Bars Pvt. Ltd.,
- M/s Mangala Ispat Jaipur Ltd.,
- M/s M.P.K. Products Pvt Ltd.,

M/s. Premier Bars Pvt. Ltd. & M/s Mangala Ispat Jaipur Ltd has adopted latest technology & added Coal gesifier in their re-heating furnace & to enhance productivity. 5 'S' are being implemented in their units with the help of UNDP/GEF, steel project. M/s Shri Prithvi Steel Rolling Mill Pvt. Ltd has innovated Coal fired re-heating furnace and automated cooling bed with the

assistance of UNDP, MSME-DI, Jaipur, Rajasthan Steel Chamber and UNDP/GEF organized following training programme to promote Rolling Mill Induction Furnace Cluster:-

- Technical Training programme on Energy Efficiency in the SME steel re-rolling mills held on 18-21 August, 2008. at VKI Association hall, Jaipur.
- National Workshop 2008 on "Energy Efficiency in Steel Re-rolling Mill sector" held on **13th December, 2008**.
- Training Workshop on "5S and Lean Manufacturing System" held on **15-16 Dec. 2008**

To promote eco-friendly practices in Rolling mill & Induction furnace Cluster, more emphasis is being given on plantation and clean environment technology for which most of the units have started plantation in their unit premises. MSME-DI, Jaipur, Rajasthan Steel Chamber have started their plantation from VKI Association under Cluster awareness programme on 3rd January 2009.

In keeping view of sensitive analysis, the procurement of Raw materials play key role in maximizing the profit in Rolling mill Induction Furnace Cluster as reveal in diagnostic study. Programme on Common procurement of Raw material, organized at MSME-DI, Jaipur conference hall was attended by

Shri Sitaram Agarwal, President and Shri G. D. Kanoongo, General Secretary, Rajasthan Steel Chamber and the same was discussed in general body meeting of Rajasthan Steel Chamber and the programme on Raw material assistance and other schemes of NSIC was organized at VKI association hall on 19th January 2009 and also attended the programme organized by MSME-DI, Jaipur, SIDBI and State Govt. to create awareness about CLCSS scheme. Most of the units are intended to avail to credit Link Capital Subsidy Scheme to modify their re-heating furnace.

In- plant study and operator training and Energy Audit of M/s. Shiv Prasad Rolling Mill and M/s. Barijari Walas were conducted in order to enhance productivity and minimize burning and other losses. The most of recommendations made by In plant study report are being implemented by Shiv Prasad Rolling Mill and M/s. Barijari Walas. The about 20% productivity is likely to be enhance and awaited results are to be demonstrated for other units.

A cluster website and directory of Rajasthan Steel Chamber (Rolling mill Induction Furnace Cluster) are being brought out in order to increase market share and highlight activities of

Rajasthan Steel Chamber and Rolling mill Induction Furnace Cluster.

Cluster Tech Mart-2009 was organized on 3-4th March 2009 at B.M. Birla Auditorium Jaipur in association with VKI association in which Rajasthan Steel Chamber participated actively.

Seven different technical papers were presented by eminent speakers from around India. The main objective of the Workshop was to spread awareness to the Steel Re-Rolling Mills on the latest technology Development in the Steel Re-Rolling Mill Sector. These technologies will not be limited to lower Specific Fuel Consumption (Around 50-55 Kgs / Tone) but also lower the SPM level of these units.

A Workshop has been organized at Hotel Mansingh, JAIPUR, on 13th Dec. 2008. 76 of Participants from the steel Re-Rolling Mill Sector (SRRM Units) had attended This Workshop which was mainly focused on Pulverized Coal Technologies and its efficient use. The eminent speakers were from various expertise including Industries & Academia. The event was sufficiently covered by various Media people (Print & Electronic) from leading local newspaper and TV Channels.

The Participants were :-

3 - NATIONAL WORKSHOP ON ENERGY EFFICIENCY IN STEEL RE- ROLLING MILL SECTOR

The workshop planned at JAIPUR in association with MSME-DI, Jaipur and Rajasthan Steel Chamber was targeted to the Steel Re-Rolling Mills in India who are running on Pulverized Coal Firing. Seven different technical papers were presented by eminent speakers from around India. The main objective of the Workshop was to spread awareness to the Steel Re-Rolling Mills on the latest technology Development in the Steel Re-Rolling Mill Sector. These technologies will not be limited to lower Specific Fuel Consumption (Around 50-55 Kgs / Tone) but also lower the SPM level of these units.

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The Participants were :-

Rolling Mills Unit Owners / Technical Staffs / Technology Providers / Domestic Equipment Manufacturers / Consultants, Government officials from all over India.

Programme Schedule

Inaugural Session : –

- Welcome Address by **Shri. Pradeep Lal** — UNDP/GEF Project
- Keynote addresses by **Shri G. Mishra**, National Project Coordinator - UNDP/ GEF Project.
- Special Address by **Shri. Sita Ram Agrawal**, President of Rajasthan Steel Chamber- Jaipur, Prop. Mangla Ispat.
- Special Address by – **Shri Jyotirmay Mathur** (Reader in Mechanical Engineering MNIT Jaipur, I/c M-Tech in Energy Management Course, PHD).
- Special Address by – **Shri Umesh Gaur**, Deputy General Manager- SIDBI.
- Special Address by – **Shri V.K.Sharma**, Deputy Director MSME Development Institute.
- Inaugural Address by **Chief Guest- Shri Gautam Bose**, General Manager - Indian Oil Corporation Ltd., State Level coordinator Oil Industries – Rajasthan.).
- Vote of thanks by **Shri.Ghanshyam Kanoongo**, General Sectary- Vishwakarma Industries Association, Rajasthan.

4 - TRAINING PROGRAMME ON "5S AND LEAN MANUFACTURING SYSTEM"

Recognizing the importance of **"5S and Lean Manufacturing System"**, MSME-DI, Govt. of India, Jaipur, Project Management Cell (PMC) & Rajasthan Steel Chamber organized a Training Program on 5S and Lean Manufacturing System for two days on 15th & 16th December, 2008 at "Conference Hall, Vishwakarma Industry Association, Road No. 1, Vishwakarma Industrial Area, Jaipur (Rajasthan)". The objective of the program ("5S and Lean Manufacturing System") is Reduction in manufacturing cost and improvement in all spheres of functioning i.e. productivity, technology, energy efficiency, cleaner environment, quality etc. First of all Shri G. D. Kanoongo General secretary of Rajasthan Steel Chamber, Jaipur welcomed all the dignitaries of UNDP and NPC and also welcome participants of Rolling Mill & Induction Furnace Cluster.

Extract of training material as mentioned below:

CONCEPT OF 3 M-COST & WESTERN REDUCTION.

A. Muda means waste - Waste refers to any activity that does not add value. Waste only adds to time and cost.

B. **MURA means irregularity-** Whenever a smooth flow of work is interrupted in an operator's work, the flow of parts and machines, or the production schedule, there is mura.

C. **MURI** - means strenuous conditions for both workers and machines as well as for the work process.

5S techniques

5S				
5S	5S	P*(Plan)	D*(Do), C* (Check)	A* (Act)
		Preparation	Implementation	Improvement
Japanese SEIRI	English SORTING	Identify "What" is necessary to perform the tasks and "WHY" we need those things	Provide the necessary items to perform your job efficiently and put out unnecessary and excessive items	Establish procedures for including/ excluding anything in your work place, No item should be outside of Seiri
SEITON	SYSTEMATIC ARRANGEMENT	Define "Where" and "How" to arrange the items you need to carry on your job.	Identify, arrange and store in accordance with the definitions in the previous phase. That is create "a place for everything and keep everything in its place only" with clear identification.	Consolidate all changes you have done in implementation phase in order to avoid retrogression. Establish systematic verification.
SEISO	SPIC & SPA	Identify sources of dirt, dust and deformities and root causes clean and take to eliminate the causes	Eliminate all sources of dust, dirt and deformities.	Capture and record all actions that resulted in root causes, removal. Have a cleaning Calendar or schedule
SEIKETSU	STANDARDIZATION	Maintain high standards of 3Ss. Convert all	Choose the best possible way of doing the 3S. Eliminate Non-	Standardize all systems finalized in 3Ss. Establish mistake proof mechanisms to prevent repetition of

		improvement actions into standards through Checklists and Visual Controls	Conformities already identified in the previous phase.	incidents of errors. Review your standards periodically. Have a periodic and systematic non conformities identification schedule.
SHITSUKE	SELF DISCIPLINE	Create a habit of 5S. A discipline of doing 5S and doing all things with a 5S app. should be created. Self discipline through a habit formation is better than imposing from outside	Create a habit of doing 5S every day and doing things in the 5S way. Ensure keenness and enthusiastic participation of all to identify abnormalities. Create interest in all to improve all the time. Every day there shall be improvement.	Whenever people lose interest see that the interest is reestablished Retrain people at regular intervals. Train new entrants from Day-1 on 5S. a well informed habit never dies. Ensure that the whole organizations involved in 5S as a content improvement movement.

QUALITY CONTROL & SEVEN (7) QC TOOLS

A. Elements of Problem

- Desired state
- Current state
- Constraints
- Internal –Limited resources
- External – Pressures to restrict resources flows

s to a problem

- Goal
- Givens
- Means of Transformation
- Obstacles

B. SEVEN (7) QC tools

g
ect Diagram
sis

5 - PROGRAMME ON RAW MATERIAL ASSISTANCE AND OTHER SCHEME OF NSIC

A Programme on Raw material assistance and other scheme of NSIC was organized in association with Rajasthan Steel Chamber & MSME-DI, Jaipur at VKI Association hall, Jaipur on 19 January 2009. After registration process of participants, Shri G. D. Kanoongo, Secretary, Rajasthan Steel Chamber in his welcome address briefed about activities made by Rajasthan Steel Chamber in Rolling mill Induction Furnace Cluster and also emphasized to conduct in plant study, workers training and energy audit in individual unit in keeping view to enhance productivity and minimize burning and other losses.

Shri V.K. Sharma, Dy. Director, MSME-DI, Jaipur point out that procurement of raw material play vital role in optimizing the profit. There is a need to chalk out strategy of common procurement of Raw material and enlisting suppliers of Spare parts and BDS.

Shri S. Sen Gupta, Representative NSIC gave information about service provided by NSIC on Raw Material Assistance and other schemes. He highlighted the benefits of scheme such as Financial Assistance for procurement of Raw Material upto 90 days. SSI helped to avail Economics of Purchases like bulk purchase; cash discount etc. NSIC takes care of all the

procedures, documentation & issue of Letter of credit in case of imports. and it gives an opportunity to helping Small Scale Industries/Enterprises by way of financing the purchase of Raw Material (both indigenous & imported). SSI and to focus better on manufacturing quality products. He also informed that the application forms downloaded from NSIC website may be filled and submitted to the concerned Regional & Branch Offices. The blank forms are also available free of charge from the zonal and Branch offices.

Shri G.D. Karooaga, Gen. Secretary, Raj. Steel Chamber addressing to the participants
Shri Sitaram Agarwal, President, Rajasthan Steel Chamber informed to the participants that a 500 Sq. Mtr. Land for CFC has already allotted by the state govt. for Rajasthan Steel Chamber. The same may be utilized for CFC of Rolling mill Induction Furnace Cluster, Jaipur and possession process for the same is going on by RIICO. More than 31 participants of Rolling mill Induction Furnace cluster members attended the programme. The programme/ workshop was concluded with vote of thanks by Shri Sudesh Sharma, Treasurer, Rajasthan Steel Chamber.

Shri S. Sengupta, Rep. NSIC giving information services provided by NSIC

6- Awareness Programme on Cluster Development and Plantation under MSE- CDP at Jaipur on 03.01.09

The Awareness programme on Cluster Development and plantation was organized at Vishwakarma Industrial Association Hall, VKI Area on 03.01.09. The objective of this programme is to create awareness on Cluster Development Programme and activities to be carried out under MSE-CDP.

Shri H.S. Meena, IAS, Joint Development Commissioner, O/o DC (MSME), New Delhi was the chief guest of programme.

The programme was started with inaugural address of Shri H.S. Meena, IAS, JDC, O/o DC (MSME), New Delhi. Shri H.S. Meena, IAS, JDC stressed the following topics in inaugural address:-

- Detail of MSE-CDP scheme,
- Result oriented Soft & Hard intervention proposals for Cluster Development
- Formation of Special Purpose Vehicle (SPV)
- Need base proposals for Soft & Hard interventions under MSE-CDP scheme.

Shri G.M. Ambhore, Director, MSME-Development Institute, Jaipur briefed the progress of Cluster Development Programme & Cluster Profile, Govt. Schemes like as MSE-CDP, CLCSS, MDA, NMCP, National awards, ISO-9000 etc.

Shri Ghanshyam Kanoongo, General Secretary, Vishwakarma Industrial Association, Jaipur gave the welcome address along with briefed industrial scenario of Jaipur.

During the afternoon plantation were done in the premises of VKI Association hall by the Chief Guest Shri H.S. Meena, JDC, O/o DC (MSME), New Delhi, Shri G.M. Ambhore, Director, MSME-Development Institute and other dignitaries. More than 75 participants belonging to the Cluster units, BDS providers, Financial Institutions, stake holders and official relating to the Cluster participated in this event.



Shri G.D. Kanoongo, Secretary, Rajasthan Steel Chmber, and VKI Association, welcoming the Chief guest of progrmme Shri H.S. Meena, IAS, JDC, DC(MSME), New Delhi

7 - A brief Report on Cluster Techmart-2009 and Participation of Rajasthan Steel Chamber, Jaipur

A Programme on National Vendor Development Programme cum Exhibition & Cluster Techmart-2009 was organized at B.M. Birla Auditorium, Jaipur on 3-4 March 2009, in association with Commissioner of Industries, SIDBI, NSIC, KVIC, RIICO and VKIA & other Associations.

An Exhibition comprising 100-120 stalls for Micro Small & Medium enterprises to show their capabilities by displaying their products on one hand and large PSUs like North- Western Railway, telecom industries JVVNL, BSNL, and Central & State Govt. Departments such as PHED, NSIC etc. gave Technical information on requirement and Procurement policy of their organization and Large Private Corporate Bodies to select their vendors by displaying their requirement on the other hand.

Ms. Rukmini Haldiya, IAS, Add. Principal Secretary, Small Industries, Govt. of Rajasthan inaugurated the function.

A Concurrent Technical Seminar was also organized, to focus on Vendor registration procedure Energy saving potential in various clusters, global bench marking, manufacturing competitiveness, front line technology, outsourcing practices, recent trends and tomorrow's challenges for the benefit of

participants. During the technical session talks were delivered on the following topics:-

- Rate contract policy- by DGS&D, Jaipur
- Trade possibilities in Reliance Industry- by Reliance
- SME Banking – by HSBC, Jaipur
- Role of Insulation in Energy conservation- Loyid insulation
- Energy saving possibilities in Induction Furnace- Electotherm, Jaipur
- Services provided by CIPET- CIPET, Jaipur

Final session was oriented on Interaction meet of Cluster Stake Holders. In this session Cluster members discussed about problems and their solutions in developing of Cluster Development Programme. The valedictory function was organized in the evening 4th march 09. Shri Damodar Sharma, CEO, Jaipur Nagar Nigam distributed certificate to the participated units.



Participation of Premier Bar Pvt. Ltd. (Rolling mill Induction Furnace Cluster unit)

8 - In plant Study and Energy Audit

In plant studies under MSE-CDP are being requested by Rajasthan Steel Chamber to study to enhance quality productivity and improve working environment of individual unit. The joint study was carried out by a team from Quality certification, Jaipur, MSME-DI, PCRA and NPC. The following units covered under this programme.

Name of Units

Contact Person

1. M/s Shiv Prasad Mills Pvt. Ltd.
F-373, Road No. 9/F, VKI Area,
Jaipur.

Shri G.D. Kanoongo

2. M/s Barijari Walas
E-102A Road No 8 VKI Area,
Jaipur -13

Shri Lakhan Goyal

The following area was covered under the study:-

- ❖ Plant layout of the unit
- ❖ To reduce ineffective time due to short coming of management
- ❖ To reduce ineffective time within control of workers
- ❖ Energy audit by PCRA is to be followed as next programme.

Recommendation and compliance:-

1. Furnace capacity is need to be increased in order to reduce idle time of workers (i.e. 13%).
2. It is noticed that during the production of the time goes unaccountable due to ineffective planning and frequent change of product on production line. (Average time consumed mill setting is about 2 to 4 hrs.) This can be reduced by proper planning and supervision.

3. It has been noted that working of around 5-6 hours per week goes waste due to material clogged due to cobble, which effects the productivity. Proper testing procedure and best rolling practices is to be implemented.
4. Energy audit reveals that units power consumption is much higher than global bench mark practices. It observed that mismatch in capacity of furnace and rolling mill, in absence of roughing mill, unbalanced fly wheel and manual handling of hot ingots.

Suggested measures:

1. Furnace is need to be renovated as per proven technology and unit can avail Credit Link Capital Subsidy for the same
2. Installation of separate roughing mill
3. Implementation of standard operating and maintenance practices
4. Implementation of quality improvement techniques, Productivity improvement tools like 5'S', Kizen etc. which will help in improving the working condition as well as the product quality and play vital role increasing the productivity .

Note: Shri G.D. Kanoongo, M/s. Shiv Prasad Rolling Mill, has agreed to implement all the suggestions and taken initiative to replace existing coal fired furnace with proven design and also attended programme on 5'S' and Lean manufacturing organized at VKI Association.

Shri Lakhan Goyal has also agreed to implement all the suggestions were made by the report

9 - Activities and outcome

Soft interventions in Rolling mill Induction Furnace cluster, Jaipur are being carried out with Rajasthan Steel Chamber. The members are actively participating MSE-CDP programme and State govt. of Rajasthan has already allotted 500 Sq. Mtr. Land at Bagru Ind. Area to Rajasthan Steel Chamber. The same land is being utilized for CFC or hard intervention. Fund sanctioned by DC (MSME), New Delhi- Rs. 1.43 Lakhs has been fully utilized for soft intervention activities during year 2008-09.

S. No.	Name of unit	Unit benefited
1	M/s Barijari Walas	In plant Study To enhance productivity & To save power Energy Audit
2	M/S M. P. K. Product Pvt.	Model unit selected by UNDP/GEF steel project & 5S implementation programme
3	M/s Mangala Ispat Jaipur Ltd.	Model unit selected by UNDP/GEF steel project & 5S implementation programme
4	M/s Shri Prithvi Steel Rolling Mill Pvt. Ltd.	Model unit selected by UNDP/GEF steel project & 5S implementation programme
5	M/s Premier Bars Pvt. Ltd.	Model unit selected by UNDP/GEF steel project & 5S implementation programme
6	M/s M.P.K. Products Pvt Ltd	Model unit selected by UNDP/GEF steel project & 5S implementation programme
7	M/s MPK Steel Pvt Ltd.	5S implementation

08.	Hiring of Networking Development Agent	To support the association in carrying out CDP.
S. No.	Activity of soft intervention organized under MSE-CDP	Outcome of the activities
01.	Unit visit	51 units have been registered and 4 model units have been selected by UNDP (GEF) Steel project from Cluster.
02.	Cluster awareness and Plantation on dated 3.01.2009	Create awareness about Cluster Methodology. And promotion of eco friendly practices and most of the units have taken plantation in their units.
03.	Seminar on benefit of "Consortia Approach and Formation of CFC on dated 1-10-2008 at MSME-DI, Conference hall	5 participants from Cluster units were participated. Create awareness among cluster units regarding benefit of Consortia Approach.
04.	In plant study & operator training Programme	To enhance productivity and To demonstrate the case study to other cluster units. In plant study carried out in 2 units
05.	Seminar on Common Procurement in sourcing of Raw Material on dated 19.12.08	2 Persons from Cluster units were participated.
06.	Seminar on Raw Material Assistance other schemes of NSIC & other Govt. schemes on 19 Jan.2009	31 persons from Cluster units were participated.
07.	Cluster Website, Directory and Brochure are bring out.	To wider exposure for Marketing and to strengthen backward forward linkages. Website of Raj. Steel Chamber has designed.

08.	Hiring of Networking Development Agent Services	To support the association in carrying out CDP.
09.	Participation in Cluster Tech Mart-2009 organized on 3-4 March 2009	The Rajasthan Steel Chamber and VKI association actively participated in organizing Cluster tech Mart-2009
10.	Programme on use of Methodology & tool for Energy Management-Key towards Sustainable Development on dated 13-08-2009 at New Delhi(organized by UNDP/GEF steel project)	7 persons participated from Rolling Mill Induction furnace Cluster
11	Technical Training programme On Best rolling mill practices on dated 18-21 Aug. 2008 organized by UNDP & MSME-DI, Jaipur	20 persons from Cluster units were participated.
12	National Workshop on Energy Efficiency In Steel Re- Rolling Mill Sector on 13 Dec. 2008 organized by UNDP & MSME-DI, Jaipur	80 Participants from All India interact with Jaipur Rolling mill cluster stake holders
13	Training Workshop on "LEAN MANUFACTURING THROUGH 5'S' METHODOLOGY on dated 15-16 Dec. 2008 organized by UNDP & MSME-DI, Jaipur	30 persons from Cluster units were participated

10 - Directory of Rolling mill & Induction Furnace Cluster units, Jaipur

S. N.	Name	Address	Contact Person	Ph. No. Mobile No. Fax No.	Product / Activity
1.	M/s Barijari Walas	E-102A Road No 8 VKI Area, Jaipur -13	Sh. Lakhan Goyal	9829389700 2330825	Structure Rolling Mill Ingot based Angle, Flat, Round
2.	M/s. Bharampuri Steels Ltd.	A-301/D, Road No. 15, VKI, Jaipur-302013	Sh. M.K. Gupta	9829018556 2460074,	Structure Rolling Mill Ingot based Angle, Channel, Round and profiles
3.	M/s Ganganagar Steel Rolling Mills Pvt. Ltd.	G -1- 458/E Road No 12 VKI Area, Jaipur-302013	Sh. Pavan Kanoria, Ashok	9413340461 2330950	Re-Rolling mill scrap based square bar
4.	M/s Neelkanth Rolling Mill (M/s Goyal Alloys Ltd.)	F-878-79 Road No 14 VKI Area-13	Mr. Rajesh Natani Mr. Sushil Goyal,	9414362527 2331402 9829060151	Structure Rolling Mill Ingot based Angle, Channel, Round and profiles
5.	M/s Himkundan Steel Mills	F-649, Road No. 14, VKI, Jaipur 302013	Mr. B.K. Khetan Mrs Chitra Khetan	9414067207 2460121	Re-Rolling Mill (6" Light) Scrap based Diesel Engine driven, Flat and Round small size
6.	M/s Khetan Alloy Pvt. Ltd.	A-300 Road 15 VKI Area-Jaipur 302013	Sh. M.P. Khetan	9829254422 2460734	Structure Rolling Mill Ingot based Angle
7.	M/S M. P. K. Product Pvt.	G-818, Road-14, VKI Area, Jaipur -302013	Sh. S.K. Sharma	9414058637 2332924	Structure Rolling Mill Ingot based (8 ") Angle, Round and Square
8.	M/s Mahendra Steel Industries	F-736 A Road No 9/F-2 VKI Area, Jaipur 302013	Mr. Mahendra Gupta	9829060631 2332014	Structure Rolling Mill Ingot based (8.5") Flat, Square and Round
9.	M/s Mangala Ispat Jaipur Ltd.	B-234, Road No. 9, V.K.I, Jaipur 302013	Mr. Sita Ram Agarwal	2331194 2340575	TMT Bar (ISI marked), Automatic Rolling Plant
10.	M/s Marudhara Steel Rolling mills pvt. Ltd.	B-34, Road No. 9, VKI Area, Jaipur 302013	Sh. Santosh Beeyani	9314514987 2330789	Re-Rolling Mill Scrap based (6") Flat
11.	M/s Natani Rolling Mills Pvt. Ltd.	F-694, Road No. 9/F-2, VKI Area	Sh. Babu Lal Natani	9314955233 2460516	Structure Rolling Mill Ingot based (10") Angle, Channel, Round
12.	M/s R.S. Industries	A-241-242, Road No. 6/D, V.K.I. Jaipur 302013, Navjeevan, Station Road-6	Sh. Mahesh Gupta Sh. Anil Kumar Gupta	9314507955, 9829055590 2332955	Structure Rolling Mill Ingot based (8 and 10") and 3 Tonne IF Angle (ISI), Channel, Round
13.	M/s Ranka Steel Re Rolling Mills Pvt. Ltd.	F-650, Road No.-9/F-2, VKI, Jaipur	Sh. Uttam Ranka	9414049378 2460320	Re-Rolling Mill Diesel Engine

14.	M/s Shiv Prasad Mills Pvt. Ltd.	F-373, Road No. 9/F, VKI Area	Sh. G.D. Kanoongo	9829010371 2330679	Structure Rolling Mill Ingot based Angle (ISI) and profiles
15.	Sh. Shyam Rolling Mills (M/s Ganpati Rolling mill 1972)	E-102/B Road No. 8, VKI	Sh. Lakhan Goyal	2330367 5067825 9829389700	Re-Rolling mill scrap based, flat, rods square bar
16.	M/s Shri Prithvi Steel Rolling Mill Pvt. Ltd.	B-230/A, Road No. 9, VKI, Jaipur	Sh. J. N. Sharma Sh. Sudesh Sharma	98290 4664 2332522 2330478 93149 33478	Induction Furnace and Structure Rolling Mill Ingot based Angle (ISI) and profiles
17.	M/s Ganesh Rolling Mills Pvt. Ltd.	755-756 Road No. 9F2 VKI Area, Jaipur	Sh. J. N. Sharma Sh. Pawan	9829014664 2332522 9828433740	Re-Rolling mill scrap based (6-7"), flat, rods square bar
18.	M/s Sharda Enterprises	E-298 VKI, Jaipur	Sh. Kamal Sharda	9414079339 2460768	Re-Rolling mill scrap based (upgraded Ingot based 2006) flat, rods square bar
19.	M/s Pinkcity Rolling Mills Pvt. Ltd.	VKI area, Jaipur	Sh. Hareesh Agarwal	9414065301	Re-Rolling mill scrap based, flat, rods square bar
20.	M/s Garg Steel Re-Rolling Mills	A-1 /441 Road no. 13 VKI Area, Jaipur 302013	Sh. Shankar Gupta	9414073223 2332380	Re-Rolling mill scrap based, flat, rods square bar
21.	M/s Shri Krishna Rolling (Jpr) Ltd. Medium Scale	37, Jhotwara Industrial Area, Jaipur 302012	Sh. Shri Niwas Gupta Sh. Vinod Gupta	9829015305, 2340305 9829014305 Fax. 2341052	Induction Furnace TMT Bar Plant (Krishana Saria) Structure Rolling Mill Ingot based Angle, Channel, Round and profiles
22.	M/s Sharma Steel Rolling Mills	127 Industrial Area Jhotwara 302012	Sh. G.L. Sharma	9414075573 2342972	Structure Rolling Mill Ingot based Angle, Channel, Round and profiles
23.	M/s Vikas Steel	163 A, Industrial Area, Jhotwara-Jaipur-302012	Sh. Krishna	9829014305 2340575	Structure Rolling Mill Ingot based Angle, Channel, Round and profiles
24.	M/s Ramdev Steel Rolling Mills	79 B Industrial Area Jhotwar	Sh. Babu Lalji	2344368	Re-Rolling mill scrap based, flat, rods square bar
25.	M/s Jajoo Iron Re-Rollers Pvt. Ltd.	92-B, Industrial Area Jhowara Jaipur 302012	Sh. Jadai Chand Jaju	9351538244 2342993	Re-Rolling mill scrap based, flat, rods square bar
26.	M/s Shekhawati Rolling Pvt. Ltd.	60c Industrial Area Jhotwara Jaipur 302012	Sh. Rajuji Khetan	9829061134 2342441	Re-Rolling mill scrap based, flat, rods square bar
27.	M/s Rama Steel Rolling Mills	B-129, Jhotwara Industrial Area-12	Sh. Arvind Bajoriya	2340296 9414073927	Re-Rolling mill scrap based flat

28.	M/s Laxman Veer Pvt. Ltd.	65-A Jhotwara Industrial Area Jaipur 302012	Sh. Laxman Das	9414063519 2340811, 2340761	Semi automatic TMT Bar, (Maruti Saria) Induction Furnace
29.	M/s Premier Bars Pvt. Ltd. director.bars@premiersaiya.co.in	A/106, Industrial Area Phase-II, Bagru	Sh. Arun Jain	9829032374 5123187 3959500	Semi automatic TMT Bar, (Premier Saria)
30.	M/s M.P.K. Products Pvt Ltd	G-818 , Rd. 14, VKIa, Jaipur	Sh. Sureshji	9414058637 2332673	Structure Rolling Mill 12 -14 " Ingot based Angle, Channel, Round and profiles
31.	M/s Bagru Ferro Alloys pvt ltd.	G-169-170 RIICO Indl area ext, Bagru ext phase-1 BAGRU	Sh. Ashok Dharendra	9314847409 5123869	Structure Rolling Mill Ingot based Angle
32.	M/s Damheri Steel & Agricultutal impliment	F-118 RIICO I.A Bagru	Sh. Subhash Sharma Sh Sunil Sharma	9829041810	Re-Rolling mill scrap based 6 mm rod
33.	M/s R.N. Brothers	B-129 Industrial Area Jhotwara, Jaipur	Sh Arvind Bajoria	2340296	Re-Rolling mill scrap based
34.	M/s Mangla Products pvt ltd	B-235, Road No. 9, V.K.I, Jaipur	Sh. Sitaram Agarwal	9414054729 2332666	Induction Furnace / Ingot
35.	M/s Jagdamba Ispat Pvt Ltd.	A-338, Road No. 14, VKI	Sh. Rajesh Sh B L Gupta	9314518176 2460018	6 Ton Induction Furnace Ingot
36.	M/s Savitri Con Cast Pvt Ltd.	876-77 Road No.14 p VKI Jaipur	Sh. Harish	9314065301 2331054/61	Induction Furnace / Ingot 6 tonne
37.	M/s. Nirmal Inducto melt PVT.Ltd.	167-168-169 Udhyog Vihar Jaitpura Jaipur	Sh. Nirmal Sh Rajendra Mehta	9829066787 01423- 224998	Induction Furnace 5 Tonne Ingot
38.	Rajasthan Industries Pvt Ltd.	SP 188 Jaitpura Indl Area, Jaipur	Sh Rakesh Jain	9829055880	Induction Furnace 6T Ingot
39.	M/s. R.M. Brothers Pvt Ltd.	92-93 Indl Area, Jaipura, Jaipur	Sh. Rajeev Sh Ashish	9414012568, 9414076057 2348785 2340275	Induction Furnace 6t Ingot
40.	M/s. Shree Sharma Rolling Mills pvt ltd	90 ABC, 91B Indl Area, Jhotwara, Jaipur	Sh Shrawan Kumar	2340575 9828018575	Automatic TMT Bar
41.	Amar Pratap	A161 RIICO Indl Area, Bagru Ext-2, BAGRU	Sh. Gurumukh Singh	9829073333 0141 5123092, 3236856	Induction Furnace 6T - Ingot
42.	M/s G. Diamond	G-87 Bagru Indl Area, Phase II, BAGRU	Sh Prashant	9829272004 5123598, 5105945	Induction Furnace 6T / Ingot

43.	M/s. Kamal Sponz	A-160, INDUSTRIAL AREA BAGRU	Ms Himangni Chadda Sh. Aluiwaliya Onwer Mr Nayar GM	3213450 5173989 9929596901	Induction Furnace Ingot , TMT Bar
44.	Shri Balaji Rolling Mill	F-375B, Road 9F VKI Area Jaipur-302013	Mr. Mool chand sharma Mr Vivek sharma	2332278 9828551278 9214451278	Structural Rolling Mill Ingot based Angle, Round, Flat
45.	M/s MPK Steel Pvt Ltd.	A-195 RIICO IInd Area, Phase II, BAGRU	Sh Manoj Sharma	0141- 3264216 9414054216	Structural Rolling Mill Ingot based Angle, Round, Flat, Channel
46.	M/s MPK Industries	RIICO IInd Area, Phase II, BAGRU	Sh Suresh	9414058637	Structural Rolling Mill
47.	M/s. RVM	Bagru	Sh. Jeevan	9216072617	Induction Furance/Ingot
48.	M/s. R. N. Forging	bagru	Sh. S.K. Jain		Induction Furance/Ingot
49.	M/s Sharma Commercial Pvt Ltd.	90,91 & 91A Industrial Area, Jhotwara, Jaipur	Sh. G. L. Sharma	2340575 9414075573	Induction Furance/Ingot