



August 2018

**CAPACITY BUILDING OF LOCAL
SERVICE PROVIDERS (LSP) UNDER
GEF-UNIDO-BEE PROJECT
“PROMOTING EE/RE IN SELECTED
MSME CLUSTERS IN INDIA”
Workshop Proceedings Report- Nagaur
Hand Tool Cluster**

Submitted to
(Prepared under GEF-UNIDO-BEE Project)



Bureau of Energy Efficiency

4th Floor, Sewa Bhawan, Sector – 1, R. K. Puram, New Delhi - 110066

Prepared by



**Confederation of Indian Industry
CII – Sohrabji Godrej Green Business Centre**

Survey No. 64, Kothaguda Post, Near HITEC City
Hyderabad 500064

Table of Contents

1. EXECUTIVE SUMMARY.....	1
2. WORKSHOP PROCEEDINGS	1
2.1 First LSP Training Program, Nagaur	2
2.2 Second LSP Training Program, Nagaur.....	4
2.3 Third LSP Training Program, Nagaur	5
2.4 Fourth LSP Training Program, Nagaur.....	7
3. CONCLUSION OF TRAINING PROGRAMS.....	9
4. ANNEXURE.....	10
4.1 Scan copy of training programs Agenda	10
.....	11
4.2 Scan copy of attendance sheet for training programs.....	1

List of Tables

Table 1: Workshop summary 2
Table 2: Summary of 1st Workshop..... 3
Table 3: Summary of 2nd Workshop..... 5
Table 4: Summary of 3rd Workshop 6
Table 5: Summary of 4nd Workshop..... 8

List of Figures

Figure 1: First Training Program..... 2
Figure 2: Presentation on Energy Saving Approach..... 2
Figure 3: Presentation on Power Factor Management 3
Figure 4: Second Training Program..... 4
Figure 5: Second Training Program..... 4
Figure 6: EE Motors..... 5
Figure 8: CNC Machines 6
Figure 7: Energy Efficient Furnace 6
Figure 9: Presentation on Induction Billet Heater 7
Figure 10: Fourth Training Program..... 7
Figure 11: Fourth Workshop 7
Figure 12: Workshop participation 9

List of Abbreviations

AC	Alternate Current
ANSI	American National Standards Institute
BEE	Bureau of Energy Efficiency
DC	Direct Current
DPR	Detailed Project Report
EE	Energy Efficiency
GEF	Global Environmental Facility
IRR	Internal Rate of Return
kW	Kilo Watt
LSP	Local Service Provider
MSME	Micro and Medium Scale Industries
NPV	Net Present Value
OEM	Original Equipment Manufacturer
PSPCL	Punjab State Power Corporation Limited
PV	Photovoltaic
RE	Renewable Energy
TOE	Tons of Oil Equivalent
UNIDO	United Nation Development Organization
CII	Confederation of Indian Industry

1. EXECUTIVE SUMMARY

Bureau of Energy Efficiency (BEE), a statutory body under Ministry of Power, Government of India, in collaboration with United Nations Industrial Development Organization (UNIDO) is executing a Global Environment Facility (GEF) funded national project “Promoting energy efficiency and renewable energy in selected MSME clusters in India”.

The overall aim of the project is to develop and promote a market environment for introducing energy efficiency and enhanced use of renewable energy technologies in process applications in 12 selected energy-intensive MSME clusters across 5 sectors in India (with expansion to more clusters later). This will enable improvement in the productivity and competitiveness of units, as well as reduce overall carbon emissions and improve the local environment.

Key activities involved in the project are shown below

- Detailed Mapping of LSPs in the cluster
- Preparation of 10 Bankable DPRs
- Development of 5 customized training materials
- Conduct 4 training programs in the cluster for the capacity building of local service providers
- Facilitation of LSPs in becoming local dealers of OEMs

The report summarized the four training programs conducted in Nagaur Hand Tool Cluster to train the local service providers and hand tool units on Energy Efficiency/Renewable Energy. The objective of the workshop was to provide awareness on the concept of EE to fill the knowledge gaps and assist in creating an enabling environment for implementation energy efficient measures in the Cluster. In these workshop lectures and presentations were delivered by representatives of Major OEMs, Hand Tool Units, UNIDO, and CII and the proceedings of all the workshop are discussed in this report.

2. WORKSHOP PROCEEDINGS

In Nagaur Hand Tool Cluster four training programs were conducted at Nagaur to train the local service providers and hand tool units on best operating practices, latest technologies/innovations and create awareness on importance of energy efficiency & renewable energy. These workshops also provided a platform to 130+ stakeholders to interact with each other in the cluster.

The detailed agenda for each workshop was decided based on the training need assessment survey and multiple meetings conducted with all the stakeholders in the cluster. At each event, CII introduced the workshop, followed by UNIDO providing vision and more details of the

project. This was followed by presentations from technology suppliers on energy efficient technologies and services available in the market with open Q & A sessions after each presentation. Each workshop was attended by different stakeholders such as MSMEs, consultants, association, technology suppliers and subject experts.

The following table shows the summary of workshops completed at Nagaur Hand Tool Cluster

Table 1: Workshop summary

S. No	Dates	Workshop Theme	No of LSPs/OEMs	Total No of Participants
1	11-May-18	Energy Saving Approach & Electrical System	38	135
2	22-Jun-18	Renewable Energy Systems		
3	13-July-18	Thermal Systems		
4	03-Aug-18	Induction Thermal Heating		

2.1 First LSP Training Program, Nagaur

The first training program was organized on 11th May 2018 at Hotel MeghMount Nagaur which had a participation of 31 people including local service providers, OEMs and representation from hand tool units, CII and UNIDO. The program started with a welcome address by Mr. Rajeev Singhal, Cluster Coordinator, Nagaur Hand Tool Cluster, special remarks by Mr. A K Singh, Deputy Director MSME, Nagaur. Closing remarks was given by Mr. Sugreev Meena, DIC, Nagaur. During the opening session Mr. Rajiv Singhal, Cluster Coordinator, Nagaur Hand Tool Cluster, UNIDO has briefed the participants on the key project elements such as technology feasibility studies for the preparation of DPR and different models for engaging the LSPs with OEMs to promote EE/RE in the cluster.



Figure 1: First Training Program

The technical sessions started with presentation by Mr. Khalid Khan, Associate Counsellor Energy Management, Confederation of Indian Industry on energy saving approach and methodology for hand tool sector. He also highlighted different approached of energy conservation. This was followed by session on energy efficient motors by Mr. Pankaj Dhote, Engineer Energy Management, Confederation of Indian Industry. He explained different class of motors i.e., IE3 and IE4 energy efficient motors and discussed about energy



Figure 2: Presentation on Energy Saving Approach

saving potential in smaller rating IE3 in case of replacement with standard motors and also the applications of new generation IE4 motors in units. After energy efficient motors he has discussed on power factor and power quality management and explained the importance of power factor management to improve system reliability and saving energy.

In the last session Mr. Khalid Khan, Associate Counsellor Energy Management, Confederation of Indian Industry has discussed about the energy efficient fuel fired furnaces and energy saving opportunities in furnaces.



Figure 3: Presentation on Power Factor Management

The following table shows the summary of 1st LSP workshop at Nagaur.

Table 2: Summary of 1st Workshop

1 st LSP Workshop, Nagaur Hand Tool Cluster	
Total No of Participants	31
No of technical sessions	4
No of LSP's attended	11
No of Hand Tool Units attended	20
Outcomes	<p>Increased capacity building of LSPs and other stake holders</p> <ul style="list-style-type: none"> • Facilitated B2B discussion between LSPs and experts • Training for LSPs to consider EE as an important parameter in their services (mechanical fitter, technicians, electricians etc.) • Facilitated B2B meeting between LSPs and local service providers with an objective of LSPs becoming service provider for electrical distribution panels. • Training given on EE measures such as <ol style="list-style-type: none"> 1. Energy Saving Approach & Methodology 2. Power Factor Management 3. Energy Efficient Motors 4. Energy Efficient Furnaces <p>Field Visits of Energy Experts</p> <ul style="list-style-type: none"> • Discussion on importance of good quality copper material for rewinding of electrical motors • Facilitation of CII's visit to different hand tool units for understanding present electrical and thermal systems and scope for improvements <p>Introduction of new technology/services</p> <ul style="list-style-type: none"> • Introduced the significance of EE electrical system • Introduced the different classes of EE motors and their advantages • Introduced the significance of power factor and power quality management

- Introduced the significance of EE furnaces

2.2 Second LSP Training Program, Nagaur

The second training program was organized on 22th June 2018 at Raj International which had a participation of around 31 people including local service providers, OEMs and representation from hand tool unit. The program started with a welcome address by Mr. Sharafat Hussain, President, Nagaur Hand Tool Association. Thereafter Mr. Rajiv Singhal, Nagaur Hand



Figure 5: Second Training Program

tool Cluster Leader, UNIDO gave a brief insight on

UNIDO's activities in Nagaur Hand Tool Cluster. A detailed presentation was made on the energy saving opportunities in hand tool sector by Mr. Khalid Khan, Associate Counsellor, CII. During this session the participants were briefed on the key project elements such as technology feasibility studies for the preparation of DPR and different models for engaging the LSPs with OEMs to promote EE/RE in the cluster. The theme of the second was Renewable Energy Generation and way towards business development. First technical sessions started with presentation by Mr. Khalid Khan, Associate Counsellor, CII, on best operational practices for hand tool sector. This was followed by session on application of solar photo voltaic system for



Figure 4: Second Training Program

renewable energy generation by Mr. Satish Choudhary, Senior engineering and marketing head, Solar Plus Energy Pvt Ltd. He explained Group has shared different implantation models of solar rooftop and also covered in detail about the investment and cash flow through projects and highlighted the economic returns and environment benefits possible through renewable energy interventions. This was followed by session from Mr. Ajay Goswami, Chairman

Confederation of Indian Industry Jalandhar Zonal Council and managing Director Ajay Industries, Jalandhar on business development opportunities and way forward towards growth for Nagaur Hand Tool Cluster. He has explained opportunities available for business development for Nagaur Hand Tool Cluster, he talked about the new technological

advancements in hand tool sector and specific products which can help units to grow their business with high profit margins in domestic as well as in international markets.

The following table shows the summary of 2nd LSP workshop at Nagaur

Table 3: Summary of 2nd Workshop

2 nd LSP Workshop, Nagaur	
Total no of Participants	31
No of technical sessions	3
No of LSP's attended	10
No of Hand Tool Units attended	21
Outcomes	<p>Increased capacity building of LSP's and other stake holders</p> <ul style="list-style-type: none"> • Facilitated discussion between LSPs and OEMs • Training for LSPs to consider EE as an important parameter in their services • Training given on EE measures such as <ol style="list-style-type: none"> 1. Case studies on energy saving opportunities in hand tool sector 2. Application of Solar PV System for Renewable Energy Generation <p>Supplier Unit Engagement</p> <ul style="list-style-type: none"> • Facilitation of Solar Plus Energy Pvt Ltd visit to conduct site feasibility study and scope of RE rooftop solar PV system • Facilitated the visit of CII to understand the scope for energy saving in Nagaur Hand Tool Cluster <p>Introduction of new technology/services</p> <ul style="list-style-type: none"> • Introduction for application of solar PV system for renewable energy generation

2.3 Third LSP Training Program, Nagaur

The third training program was organized on 13th July 2018 at Raj International Nagaur which had a participation of 35 people including local service providers and OEMs.

The program started with a welcome address by Mr. A K Singh, Deputy Director MSME HT-TDC, Nagaur. Thereafter a detailed presentation was made on the project objectives, deliverables and present status by Mr. Khalid Khan, Associate Counsellor, and Confederation of Indian Industry.

Mr. Rajiv Singhal, Cluster Leader, BEE gave a session on UNIDO's activities in hand tool cluster. During the opening session the participants were briefed on the key project elements such as



Figure 6: EE Motors

technology feasibility studies for the preparation of DPR and different models for engaging the LSPs with OEMs to promote EE/RE in the cluster.

The technical sessions started with presentation by Mr. Rajendra Kumar Kabra, Territory



Figure 7: CNC Machines

Manager Jodhpur, Siemens Limited on different class of motors i.e., IE3 and IE4 energy efficient motors and discussed about energy saving potential in smaller rating IE3 in case of replacement with standard motors and also the applications of new generation IE4 motors in units. He was followed by Mr. Rajesh Kushwaha, MD, Multi Axis CNC Robotics, Gurgaon he discussed about the importance of CNC machines for die preparation. Session on CNC machine and their advantages was

followed by Mr. Dharamvir Uppal, Senior Marketing Manager – EN EFF Thermal Engineers. He discussed on energy efficient furnaces fuel fired furnaces and their auxiliaries in detail. He has also kept focus on semi-automated and fully automated furnaces.



Figure 8: Energy Efficient Furnace

The following table shows the summary of 3rd LSP workshop at Nagaur.

Table 4: Summary of 3rd Workshop

3 rd LSP Workshop, Nagaur	
Total no of Participants	37
No of technical sessions	4
No of LSP's attended	10
No of Hand Tool Units attended	27
Outcomes	<p>Increased capacity building of LSPs and other stake holders</p> <ul style="list-style-type: none"> • Facilitated B2B discussion between LSPs and OEMs • Training for LSPs to consider EE as an important parameter in their services (mechanical fitter, technicians, welders, dealers etc.) • Facilitated B2B meeting between LSPs and OEMs with an objective of LSPs becoming service provider for the bigger OEM • Training given on EE measures such as <ol style="list-style-type: none"> 1. Energy Efficient Motors 2. Energy Efficient Furnaces 3. Application of CNC Machine for Hand Tool Sector <p>Supplier Unit Engagement</p>

	<ul style="list-style-type: none"> • Discussion on importance of good quality copper material for rewinding of electrical motors • Facilitated the visit of Siemens Limited to conduct site feasibility study and saving potential for installation of energy efficient motors • Facilitated the visit of EN EFF Thermal Engineers to conduct site feasibility study and saving potential for installation of energy efficient furnaces <p>Introduction of new technology/services</p> <ul style="list-style-type: none"> • Introduced the different classes of EE motors and their advantages • Introduced EE fuel fired furnaces
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2.4 Fourth LSP Training Program, Nagaur

The Fourth training program was organized on 03th August 2018 at Hotel MeghMount Nagaur which had a participation of around 35 people including local service providers, OEMs and representation from Hand Tool Units. The program started with a welcome address by Mr. Mohd. Haneef, MD M H Tools, Nagaur. Thereafter a detailed brief on the project objectives,



Figure 10: Fourth Training Program

deliverables and project journey till date by Mr. Rajiv

Singhal, Nagaur Hand Tool Cluster Leader, UNIDO. The theme of the fourth Program was induction heating billet system. Technical sessions started with presentation on energy efficiency opportunity using induction billet heaters. Mr. Nitin Jain, Assistant Manager Sales and



Figure 9: Presentation on Induction Billet Heater

Marketing, Electrotherm India Limited. He discussed about cost saving opportunities exist by installation of induction billet heaters and also its benefits over its productivity improvements. The next session was from Confederation of Indian Industry, Mr. Pankaj Dhote has shared saving opportunities and best operational practices in hand tool units. He has covered all the saving opportunities exists in typical

hand tool unit. The workshop concluded with closing

remarks by Mr. Rajiv Singhal, Nagaur Hand Tool Cluster Leader, UNIDO.



Figure 11: Fourth Workshop

Following table shows the summary of 4th LSP workshop at Nagaur.

Table 5: Summary of 4th Workshop

4th LSP Workshop , Nagaur	
Total no of Participants	36
No of technical sessions	2
No of LSP's attended	7
No of Hand Tool Units attended	29
Outcomes	<p>Increased capacity building of LSP's and other stake holders</p> <ul style="list-style-type: none"> • Facilitated discussion between LSPs and OEMs • Training for LSPs to consider EE as an important parameter in their services (induction Billet Heating System) • Training given on EE measures such as <ol style="list-style-type: none"> 1. Energy efficient induction billet heater 2. Energy efficient electrical and thermal systems <p>Supplier Unit Engagement</p> <ul style="list-style-type: none"> • Facilitated the visit of Electrotherm India Limited to conduct site feasibility study and scope of induction billet heating system <p>Introduction of new technology/services</p> <ul style="list-style-type: none"> • Induction billet heating technology

3. CONCLUSION OF TRAINING PROGRAMS

The four training programs organized in Nagaur Hand Tool Cluster helped in the capacity building of all the stake holders in the cluster which include service providers, OEMs and hand tool units. All the workshops had several discussions among the participants focusing on various energy efficient technologies, various technical challenges faced in implementing a new technology in the cluster and also on availability of local service providers for any technology.

The graph below shows the workshop participation in Nagaur.

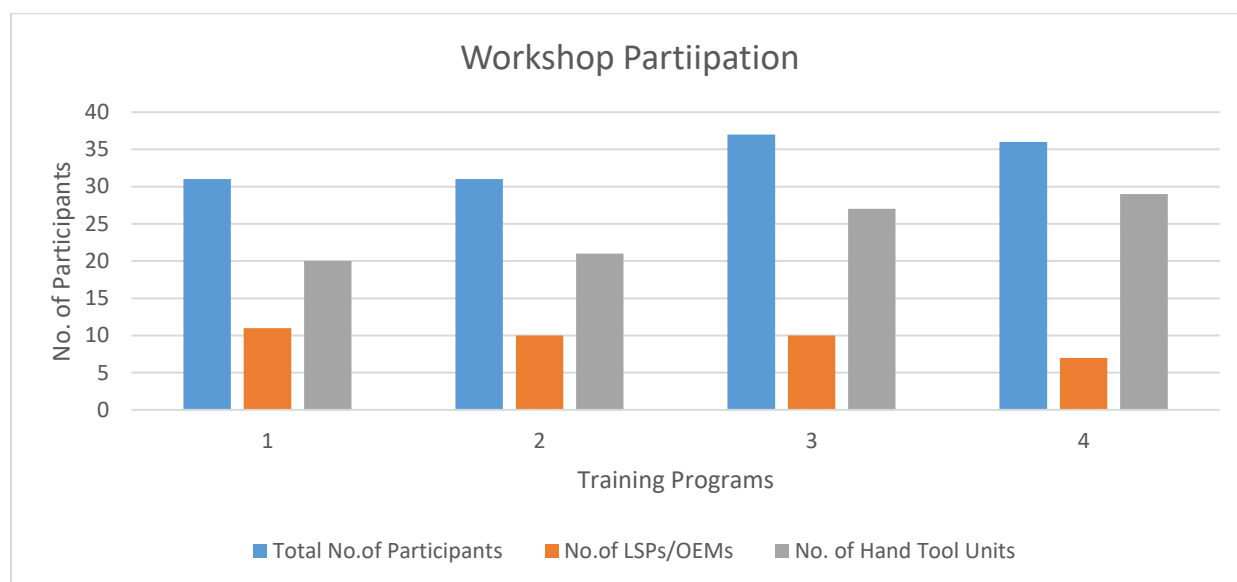


Figure 12: Workshop participation

Following are some of the key highlights of the workshops:-

- 135 stakeholders trained through four workshops which include 97 people from hand tool units and 38 LSPs associated with Nagaur hand tool cluster
 - LSP includes local fabricators and technicians associated with hand tool units, solar consultants, furnace, burner, induction billet heating system, electrical system service providers etc.
- 13 different technical topics covered during the four training programs in which several new technologies like EE furnace , motors, solar PV system, insulating material, induction billet heater etc. were introduced to the cluster
- Training given by major OEMs such as Siemens Limited, EN EFF Thermal Engineers, Electrotherm India Limited, Solar Plus Private, Limited etc to the local service providers associated with the hand tool cluster
- Facilitated B2B meeting between OEMs and LSPs with an objective of LSP becoming local service provider.

4. ANNEXURE

4.1 Scan copy of training programs Agenda



**1st Workshop
on
Capacity Building of Local Service Providers at Nagaur, under GEF-UNIDO-BEE
project, "Promoting Energy Efficiency and Renewable Energy in selected MSME
clusters in India"
Friday, 11 May 2018: Nagaur**

Friday, 11 May 2018

Time	Programme Structure	
1500 – 1530 hrs	Registration/ Networking Tea & Coffee	
Inaugural Session		
1530 – 1540 hrs	Welcome Address	UNIDO
1540 – 1550 hrs	About "Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India"	UNIDO - BEE
1550 – 1555 hrs	Special Address	Nagaur Hand Tool Association
1555 – 1600 hrs	Tea	
Technical Session		
1600 – 1700 hrs	Energy Saving Approach & Methodology	Mr. Khalid Khan Associate Counselor Confederation of Indian Industry
1700 – 1800 hrs	Energy Saving Approach by Power Factor Management	Mr. Pankaj Dhote Engineer Management Confederation of Indian Industry
1800 – 1830 hrs	Energy Efficient Motors	Mr. Pankaj Dhote Engineer Management Confederation of Indian Industry
1830 – 1900 hrs	Energy Efficient Furnaces	Mr. Khalid Khan Associate Counselor Confederation of Indian Industry
1900 – 1930 hrs	Q & A and Closing Remarks	
1930 – 2030 hrs	Networking Dinner	



2nd Workshop
on
Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE
Project, "Promoting Energy Efficiency and Renewable Energy in Selected MSME
Clusters in India"
Friday, 22 June 2018: Nagaur

Friday, 22 June 2018

Time	Programme Structure	
1500 – 1530 hrs	Registration/ Networking Tea & Coffee	
Inaugural Session		
1530 – 1540 hrs	Welcome Address	Mr. Sharafat Hussain President – Nagaur Hand Tool Association MD – Raja Forging Nagaur
1540 – 1550 hrs	About “Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India”	Mr. Rajiv Singhal Nagaur Hand Tool Cluster Leader UNIDO – BEE
1550 – 1555 hrs	Special Address	Mr. A k Singh Deputy Director MSME HT – TDC Nagaur
1555 – 1600 hrs	Tea	
Technical Session		
1600 – 1630 hrs	Best Operational Practices for Hand Tool Sector	Mr. Khalid Khan Associate Counselor Confederation of Indian Industry
1630 – 1700 hrs	Application of Solar PV System for Renewable Energy Generation	Mr. Satish Choudhary Senior Engineering & Marketing Head Solar Plus Energy Pvt Ltd
1700 – 1730 hrs	Interactive Session on Business Opportunities & Growth for Nagaur Hand Tool Cluster	Mr. Ajay Goswami Chairman CII Jalandhar Zonal Council & Managing Director – Ajay Industries, Jalandhar
1800 – 1830 hrs	Q & A and Closing Remarks	
1830 – 2000 hrs	Field Visit	Nagaur Hand Tool Industry
2000 – 2100 hrs	Networking Dinner	



3rd Workshop
on
Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE
Project, "Promoting Energy Efficiency and Renewable Energy in Selected MSME
Clusters in India"
Friday, 13 July 2018: Nagaur

Friday, 13 July 2018

Time	Programme Structure	
1730 – 1800 hrs	Registration/ Networking Tea & Coffee	
Inaugural Session		
1800 – 1810 hrs	Welcome Address	Mr. A K Singh Deputy Director MSME HT-TDC, Nagaur
1810 – 1820 hrs	About "Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India"	UNIDO – BEE
1820 – 1830 hrs	Special Address	Mr. Khalid Khan Associate Counselor Confederation of Indian Industry
Technical Session		
1830 – 1900 hrs	Energy Efficient Motors	Mr. Rajendra kumar Kabra Territory Manager, jodhpur Siemens Limited
1900 – 1930 hrs	Application of CNC Machine for Hand Tool Sector	Mr. Rajesh Kushwaha MD – Multi Axis CNC Robotics Gurgaon
1930 – 2000 hrs	Energy Efficient Furnaces	Mr. Dharamvir Uppal Senior Marketing Manager EN EFF Thermal Engineers
2000 – 2030 hrs	Best Insulation Practices	Mr. Dharamvir Uppal Senior Marketing Manager EN EFF Thermal Engineers
2030 – 2045 hrs	Q & A and Closing Remarks	
2045 – 2130 hrs	Networking Dinner	



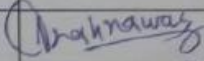
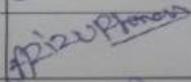
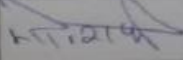
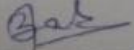
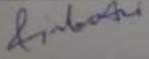
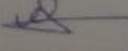
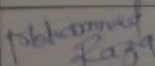
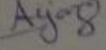


4th Workshop
on
Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE
Project, "Promoting Energy Efficiency and Renewable Energy in Selected MSME
Clusters in India"
Friday, 3 August 2018: Nagaur

Friday, 3 August 2018

Time	Programme Structure	
1730 – 1800 hrs	Registration/ Networking Tea & Coffee	
Inaugural Session		
1800 – 1810 hrs	Welcome Address	Mr. Mond Haneef MD – M H Tools, Nagaur
1810 – 1820 hrs	About "Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India"	Mr. Rajiv Singhal Nagaur Hand Tool Cluster Leader UNIDO – BEE
1820 – 1830 hrs	Special Address	Mr. Khuda Bux MD – K B Tools, Nagaur
Technical Session		
1830 – 1900 hrs	Energy Efficient Induction Billet Heaters	Mr. Nitin Jain Assistant Manager – Sales & Marketing Electrotherm India Limited
1900 – 1930 hrs	Case Study Presentation from Hand Tool Industry	Mr. Pankaj Dhote Engineer – Energy Management CII – Centre of Excellence for Competitiveness
2000 – 2020 hrs	Q & A and Closing Remarks	
2020 – 2130 hrs	Networking Dinner	

4.2 Scan copy of attendance sheet for training programs

 Confederation of Indian Industry					 Centre of Excellence for Competitiveness for SMEs				
Capacity Building of Local Service Providers at Jalandhar, under GEF-UNIDO-BEE project, "Promoting Energy Efficiency and Renewable Energy in selected MSME clusters in India"									
11 May 2018, Nagaur									
Attendance Sheet									
S.No.	Company Name	Delegate Name	Designation	Signature					
1	Quality Tools center	SHAHNAWAZ.							
2	Rajasthan tools Ind.	AZIZURRAHMAN.							
3	Faraj Enterprises	Faraj Ahmed							
4	KARIM BUX HAND Tools	Ashtaque Ali							
5	F.M. machine tools Industries	Rajab Ali							
6	Asia forgings	Asad Ali							
7	Saied Engineering	Mohammed Raza							
8	Vision tech HandTools	Ajaz Ahmed							

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S.No.	Company Name	Delegate Name	Designation	Signature
9	सुपर फोरेस्टिंग	श्री अरमान		श्री अरमान
10	वर्गीर अहमद	Buseed		Buseed
11	Abhinav Verma (MSME)	Abhinav Training Officer →		Abhinav
12	Mohd MSME	Mohan Singh	Maintenance officer -	Mohan Singh
13	RANJHA HAND TOOLS IND.	DILAWAR ALI		Dilawar Ali
14	Shakeel Ahmed ASME	Shakeel Ahmad		शकील अहमद
15	SH. KINGETPRISES	Gafoor HUSSAIN		गफूर हुसैन
16	Parveen Forgings	Gause Mohammad.		Gause Mohammad.
17	श्री अमर सिंह	श्री अमर सिंह		श्री अमर सिंह
18	श्री अजय कुमार	Wajid		Wajid
19	Khatawan Iron Industries	Abid Hussain		अबिद हुसैन

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S.No.	Company Name	Delegate Name	Designation	Signature
20	JAYCO INDIA	Mukhtar Ahmed	Partner	Mukhtar
21	Toshiba Forgings	Mukhtar Ahmad Zulfiqar Ali	Manager	Mukhtar
22	Self Hand Tools	Sajid Husain		Sajid
23	PINK CITY ENTERPRISE	SHROFA THUSAN		Shrofa
24	Sugreev Meena	GUN DIC	Manager	Sugreev
25	Hand Tools Industries Association	Secretary	Khuda Buz	Khuda Buz
26	Confederation of Indian Industry	Khalid Khan	Associate Counselor	Khalid
27	NOBLE TOOLS & Treads	Noorul Islam	owner	Noorul
28	Noble TOOLS	MOHAMMED AARIF		Muhammad
29	N.S. engg works Sharafat Ali	Sharafat Ali	Owner	Sharafat
30	UNIDO	Rajiv Singhal	Cluster leader	Rajiv



Confederation of Indian Industry



Centre of Excellence
for Competitiveness for SMEs

Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE Project, "Promoting Energy Efficiency and Renewable Energy in selected MSME Clusters in India"

22 June 2018, Nagaur






Attendance Sheet

S.No.	Company Name	Delegate Name	Designation	Signature 22-06-2018
1	Rajasthan Tools Industries	Azizur Rehman		
2	Quality Tools center	Shahnawaz		
3	Asia forgings	Wajid Hussain		
4	F.m. machine tools	Rajab Ali		
5	MSME-TDC (HT)	Abhinav Verma	Training Coordinator	
6	KARIM BUX HAND TOOLS vdyog	Ashfaqullah		
7	Auzzav collectins	M. Suleman		
8	Kohinoor forgings	IMDAD HUSSAIN		

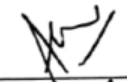

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S.No.	Company Name	Delegate Name	Designation	Signature 22-06-2018
9	M.Y. SON TOOLS INDUSTRIES	SACHAWAT ALI		
10	Sufi Hand Tools	Qakhaud Hussain		
11	AVON Tools industry	Usman Gani		
12	Fime Engg. works	Rifat Ahmed.		
13	Zahra hnd tools	Fiaz Ali.		
14	Fire Industries	Mosamud Shrif		
15	Jayco India	Mukhtad Ahmad Partner		
16	Toshiba Forgings.	Zulfiqar Ali		
17	Sufi Hand Tools	Sajid		
18	Khatovan Iron Industries	Abid Hussain		
19	N.S. Eng. works	Shawad		

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S.No.	Company Name	Delegate Name	Designation	Signature 22-06-2018
20		अली नफिस		
21	Saeed Engineering	Shabbir Ahmed		
22	Vision Tech Hand Tools	Rafique Ahmed		
23	Hand Tools Industries Association Nagaur (Secerty)	Khuda Bux 9352910424		Khuda Bux
24	होम टूल इंडस्ट्रीज एसोसिएशन नागौर उपाध्यक्ष	अब्दुल इल्हाज अली 9414118543		अब्दुल इल्हाज अली
25	शब्बीर हुसैन (कारिगर) लोहार पुर्णिया	शब्बीर हुसैन		शब्बीर हुसैन
26	Hand Tools Industries Association Nagaur President.	शरफत हुसैन 9014341033		Sharabat
27	RANJHA HAND TOOLS IND. (Forging unit).	फोर्गर अली 9352013007		
28	सुपर फोर्जिंग	सी० अलम 9414369696		अलम
29	रामेश्वर इल्ट	9509605859		रामेश्वर
30	MSME-TDC-HT	A K Singh	Dy. Director	
31	Solan Puhre Pvt Ltd	Pankaj Kalwani a	Solar Engg	

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S.No.	Company Name	Delegate Name	Designation	Signature 22-06-2018
32	Ajay Industries	Ajay Goswami	MD	
33	UNIDO	Rajiv Singh	cluster leader	
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Confederation of Indian Industry



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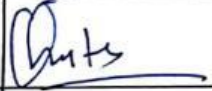

Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE Project, "Promoting Energy Efficiency and Renewable Energy in selected MSME Clusters in India"

13 July 2018, Nagaur

Attendance Sheet


S.No.	Company Name	Delegate Name	Designation	Signature 13-07-2018
1	Rajasthan Tool Industries	Ambarish	Manager	Ambarish
2	श्री 21 कृषि		-	श्री 21 कृषि
3	रफ्तार फौज	श्री 21 कृषि	-	श्री 21 कृषि
4	रफ्तार फौज	श्री 21 कृषि		श्री 21 कृषि
5	Karim Bux Hand Tools	श्री 21 कृषि		M. Bux
6	Kohinoor Forging	Imdad Hussain	-	Imdad Hussain
7	श्री 21 कृषि			श्री 21 कृषि
8	Khetan Iron Industries	श्री 21 कृषि Arid Hussain		श्री 21 कृषि

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S.No.	Company Name	Delegate Name	Designation	Signature 13-07-2018
9	MSME-TDC (HT), Nagaur	Abhinav Verma	Training Co-ordinator	
10	MSME-TDC (HT) Nagaur	Ashutosh Kumar	Trainer	
11	शिवदास इन्डिया	शिवदास इन्डिया	-	शिवदास इन्डिया
12	AJMEERY UDYOG	-	-	शशी लजपत
13	M.F. Forging	-	-	
14	Parveen Forgings	Gause Mohammed	-	Gause Mohammed
15	M.A. Udyog - श्री टी इन्डिया	श्री. उमर श्री. उमर इन्डिया करी		श्री. उमर श्री. उमर
16				
17	ACI2297 collecting	M.S. Khan	-	M.S. Khan
18	RANJHA Eng works.	Sam sir ali	T -	Sam sir ali
19	Ranjha Hand Tools IND.	Dilwarali.	-	Dilwarali

S.No.	Company Name	Delegate Name	Designation	Signature 13-07-2018
20	Payo India	Mukhtol Ahmed	Partner	
21	(Zulfikar Ali) Tosliba Forgings	Zulfikar Ali	Partner	
22	Aron Tools Industry	Zaminur	Proprietorship Partner	
23	Sufi Hand Tools	Dakhaud	PROPRIETORSHIP	
24	M.Y. SON TOOLS INDUSTRIES	Sulath	Managing Director	
25	Fine Eng. works.		Manager.	
26	Hand Tools Industries Association Horn Nagan. clo KB. Industries	Khuda Bux	Secretary	
27	KARIM BUX HAND TOOLS Udyog	Ashfaqul Ali	PROPRIETOR	
28	Sufi Hand. Tools	Sajid	Manager.	
29	ASIA Forgings		Partner.	
30	Saeed Engineering Work	Shabir Ahmad	Partner	
31	Quality tools center		Manager	

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S.No.	Company Name	Delegate Name	Designation	Signature 13-07-2018
32	Siemens India Ltd	Rajendra kabra		
33	EN EFF Thermal Engineers	Dharmveer Uphall	Chief Marketing officer	
34	Multi Axis CNC Robotics	Rajesh Kushwaha	MD	
35	MSME Nagaur	A K Singh	Dy. Director	
36	UNIDO	Rajw Singhel	Cluster leader	
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S.No.	Company Name	Delegate Name	Designation	Signature 13-07-2018
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33	EN EFF Thermal Engineers	Dharmveer Uphall	Chief Marketing officer	
34	Multi Axis CNC Robotics	Rajesh Kushwaha	MD	
35	MSME Nagaur	A K Singh	Dy. Director	
36	UNIDO	Rajw Singhel	Cluster leader	<i>[Signature]</i>
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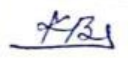
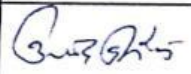


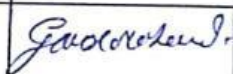
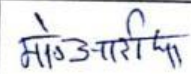


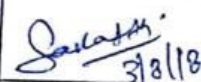

Capacity Building of Local Service Providers at Nagaur, Under GEF-UNIDO-BEE Project, "Promoting Energy Efficiency and Renewable Energy in selected MSME Clusters in India"

3 August 2018, Nagaur

Attendance Sheet

S.No.	Company Name	Delegate Name	Designation	Signature 03-08-2018
1	Vision Tech Hand Tools Nagaur	Ajaz Ahmed	Manager	Ajaz Ahmed
2	Saeed Engineering Work	Shabbir Ahmed	Manager	Shabbir Ahmed
3	Quality Tools Center	Shahnawaz	owner	Shahnawaz
4	Kohinoor Tools	Muhammad Hanif	owner	Muhammad Hanif
5	Sarkar Forging	Bashir Ahmad	Foreman	Bashir Ahmad
6	Kohinoor Forgings	Imdad Hussain	owner	Imdad Hussain
7	M.H FORGING.	Mohd. Hanif Bhatti	Manager.	Mohd. Hanif Bhatti

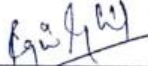

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S.No.	Company Name	Delegate Name	Designation	Signature 03-08-2018
9	K.B. Industries. Nagaur. Cloth Hand Tools Association.	Khuda Bux	Secretary	
10	Khatron Iron Industries	Abid Hussain	Manager	
11	KARIM BUX HAND TOOLS Udyog	Ashfaq ul Ay	Proprietor	
12	Asia Forgings Nagaur	Wajid Mulkani	Manager	
13	सुपर कौटिली	श्री ३१८५		श्री ३१८५
14	Paaveen Forgings	Ghase Mohammad	Manager	
15	M.A. Udyog	Mohammed Arif	Proprietor	
16	Safi Hand Tools	Sakharat Husain	Manager	
17	F.m. machen Tools -	moh. Zebaf.	Manager	
18	M.Y. SON TOOLS INDUSTRIES	SAKHAWATI POLWALA	Managing Director	
19	श्री ३१८५ GRZ Ahmed.	श्री ३१८५	Manager	

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S.No.	Company Name	Delegate Name	Designation	Signature 03-08-2018
20	Teskiba Forgings.	Zulfikar Ali	manager	
21	Jayco. India.	Mukhtar Ahmed	Partner.	
22	Avon Tools industry	Abid Huda	Proprietor	
23	Sarkar Forging	M. Yousuf	Proprietor	
24	Basheer TOOLS	Basheer Anemath	Pro.	
25	Auzaver Collections	Mo. Saaleman	manufacter	
26	N.S. Eng. work	Sharbat	Rso.	
27	ਜੀਆ ਫੋਰਜ਼ ਇੰਡਸਟਰੀ	mo ARIF	fo Rweo	
28	AShameer UDYOG	Shekeel Ahmed	PRO	
29	MASTER Engineer	Mukhtyar Ahmed		
30	P Confederation of Indian Pankaj Dhole - cpi Industri	Engineer Pankaj	Engineer	

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S.No.	Company Name	Delegate Name	Designation	Signature 03-08-2018
31	UNIDO	Rajiv Singh	Cluster leader	
32	UNIDO RANJITH HAND TOOLS IND.	DIWAWAR ALI	Pro.	
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