



August 2018

**CAPACITY BUILDING OF LOCAL
SERVICE PROVIDERS (LSP) UNDER
GEF-UNIDO-BEE PROJECT
“PROMOTING EE/RE IN SELECTED
MSME CLUSTERS IN INDIA”
LSP Mapping Report - Gujarat Dairy
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.PROJECT BACKGROUND	3
2.CLUSTER SCENARIO	4
2.1 Indian Dairy Scenario	4
2.2 Gujarat Dairy Sector.....	4
2.3 Major operations & Technologies in the cluster	5
3.MAPPING OF LOCAL SERVICE PROVIDERS	8
3.1 LSPs Operation in Gujarat Dairy Cluster and their influence on Energy Efficiency.....	9
3.2 Objective of Mapping.....	10
3.3 Role of LSPs in Gujarat Dairy Cluster	12
3.4 Approach and Methodology	13
4.OUTCOME OF LSP MAPPING.....	15
5.ANNEXURE.....	18
Annexure 1 – LSP Data Collection Format.....	18
Annexure 2 – List of Major OEMs in the cluster.....	52
Annexure 3 – List of LSPs in Gujarat Dairy Cluster	53
Annexure 4 – Participant List of Stake Holder Workshop.....	66
Annexure 5 – Workshop Agenda	69

List of Tables

Table 1 : List of clusters identified	3
Table 2: Role of LSPs	12

List of Figures

Figure 1 Annual milk production last five years.....	4
Figure 2: Major dairies in Gujarat	5
Figure 3 : Typical process flow diagram of milk manufacturing	7
Figure 4 Typical Energy Use Pattern in Dairy Sector.....	8
Figure 5 : Process wise Mapping.....	10
Figure 6: LSP Mapping Tree	11
Figure 7: Sh. A.K. Bayati, delivering Inaugural speech.....	13
Figure 8: Glimpse of Stakeholder Workshop	13
Figure 9: Visit to Jay Ambe Electric Service.....	14
Figure 10: Geographic Location of LSPs	15
Figure 11: Skill Set of LSPs.....	15
Figure 12: Employee Strength of LSPs	16
Figure 13: Educational Qualification of LSPs.....	16
Figure 14: No of LSPs in cluster.....	16
Figure 15: SWOT Analysis.....	17

1. PROJECT BACKGROUND

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 MSMEs 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 MSMEs 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.

The details of the sectors and clusters identified is as below

Table 1 : List of clusters identified

Sector	Cluster
Brass	Jamnagar, Gujarat
Ceramics	Khurja, Uttar Pradesh
	Morbi, Gujarat
	Thangadh, Gujarat
Dairy	Gujarat
	Kerala
	Sikkim
Foundry	Belgaum, Karnataka
	Coimbatore, Tamil Nadu
	Indore, Madhya Pradesh
Hand tools	Jalandhar, Punjab
	Nagaur, Rajasthan

CONFEDERATION OF INDIAN INDUSTRY – CII Sohrabji Godrej Green Business Centre has been engaged by Bureau of Energy Efficiency to carry out the assignment on “Capacity building of Local service providers (LSPs) under GEF-UNIDO-BEE project **“Promoting Energy Efficiency and Renewable energy in selected MSME clusters in India”** for the Dairy cluster of Gujarat.

2. CLUSTER SCENARIO

2.1 Indian Dairy Scenario

India has emerged over the past few years to be the largest milk producing nation in the world, with milk production of 146.4 million tonnes¹ in 2014-15 and 155.5 million tonnes in 2015-16 with an annual growth rate of 6.27%. The National Dairy Development Board located in Anand, Gujarat acts as the premier institution for accelerating the dairy development on cooperative lines in India. During 2015-16 the sale of milk by the cooperative dairies was 32 million per day, recording a growth of 2.7% over the previous year. Over the last few years there is a growing demand for milk and milk products in our country.

2.2 Gujarat Dairy Sector

Gujarat is now the third largest milk producing state in India, following Uttar Pradesh and Rajasthan with a total production of 12.262 Million Tonnes² of milk in 2015-16. The graph below shows the increase of milk production during the last 5 years

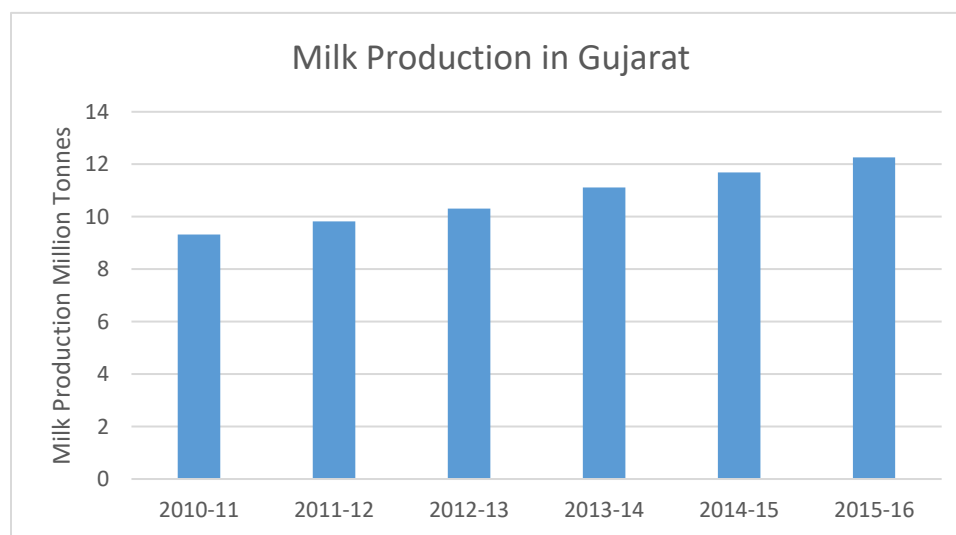


Figure 1 Annual milk production last five years

There are 19 dairies under the membership of Gujarat Cooperative Milk Marketing Federation (GCMMF) which are scattered over Gujarat. GCMMF is the nodal agency for marketing the milk products manufactured by different milk cooperative member societies in the state. The distribution of major dairies in Gujarat is shown in the figure below:-

¹ Annual Report (2016-17) – Department of Animal Husbandry, Dairying and Fisheries – Ministry of Agriculture & Farmers Welfare Government of India

² <http://nddb.coop/information/stats/milkprodstate>

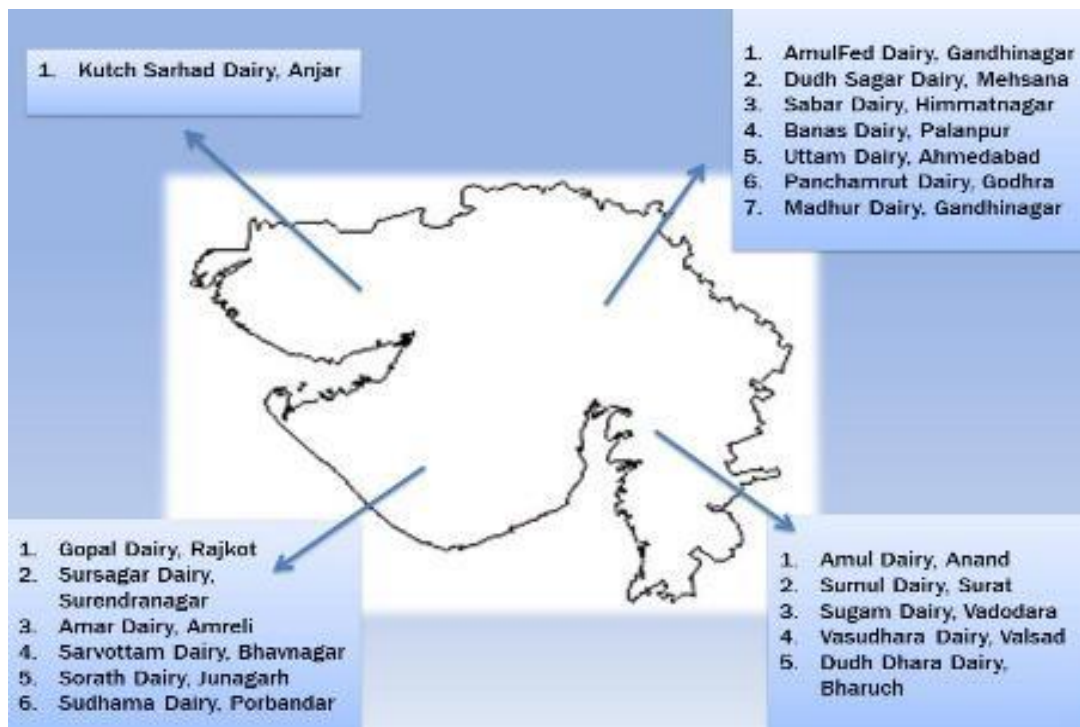


Figure 2: Major dairies in Gujarat

2.3 Major operations & Technologies in the cluster

There are two major operations in milk processing: (i) Milk Chilling Centers (ii) Dairies.

- i) **Milk Chilling Centers (MCC):** The milk collected from different locations is first chilled in MCCs. Chilled milk is graded, weighed, sampled and dispatched in tankers for further processing. Refrigeration load is major energy consumption area.
- ii) **Dairies:** Processing involves number of processes like pasteurization, homogenizing, evaporation, heat exchange etc., Number of products are manufactured which include – Milk, butter, curd, Shrikhand, Yoghurt, Ice cream, Flavoured Milk etc. Steam, Hot water, electricity and refrigeration are the major loads.

Typical Process Flow in Dairy Plant

Milk Production

The processes taking place at a typical milk plant after receiving and filtration of milk from the chilling units includes:

Separation: After being held in storage tanks at the processing site, raw milk is heated to separation temperature in the regeneration zone of the pasteurizer. The milk (now hot) is standardized and homogenized by sending it to a centrifugal separator where the cream fraction is removed. The skim milk is then usually blended back together with the cream at predefined ratios so that the product has the desired fat content. Surplus hot cream is cooled and usually processed in a separate pasteurizer ready for bulk storage and transportation to a cream packing plant.

Pasteurization is a process of heating milk to 72°C for 16 seconds then quickly cooling it to 4°. This process slows spoilage caused by microbial growth in the food. Unlike sterilization, pasteurization is not intended to kill all micro-organisms in the food. Instead, it aims to reduce the number of viable pathogens so they are unlikely to cause disease.

Homogenization (if required): Milk must then be homogenized. Without homogenization, the milk fat would separate from the milk and rise to the top. Milk fat is what gives milk its rich and creamy taste. Homogenization makes sure that the fat is spread out evenly in the milk. Milk is transferred to a piece of equipment called a homogenizer. In this machine the milk fat is forced, under high pressure, through tiny holes that break the fat cells up into tiny particles, 1/8 their original size. Protein, contained in the milk, quickly forms around each particle and this prevents the fat from rejoining. The milk fat cells then stay suspended evenly throughout the milk.

Packaging and storage: Milk is then pumped through automatic filling machines direct into bags, cartons and jugs. The machines are carefully sanitized and packages are filled and sealed with automated machines. This keeps outside bacteria out of the milk which helps keep the milk stay fresh. During the entire time that milk is at the dairy, it is kept at 1°-2°C. This prevents the development of extra bacteria and keeps the milk fresh.

Typical process occurring at a milk plant is given below

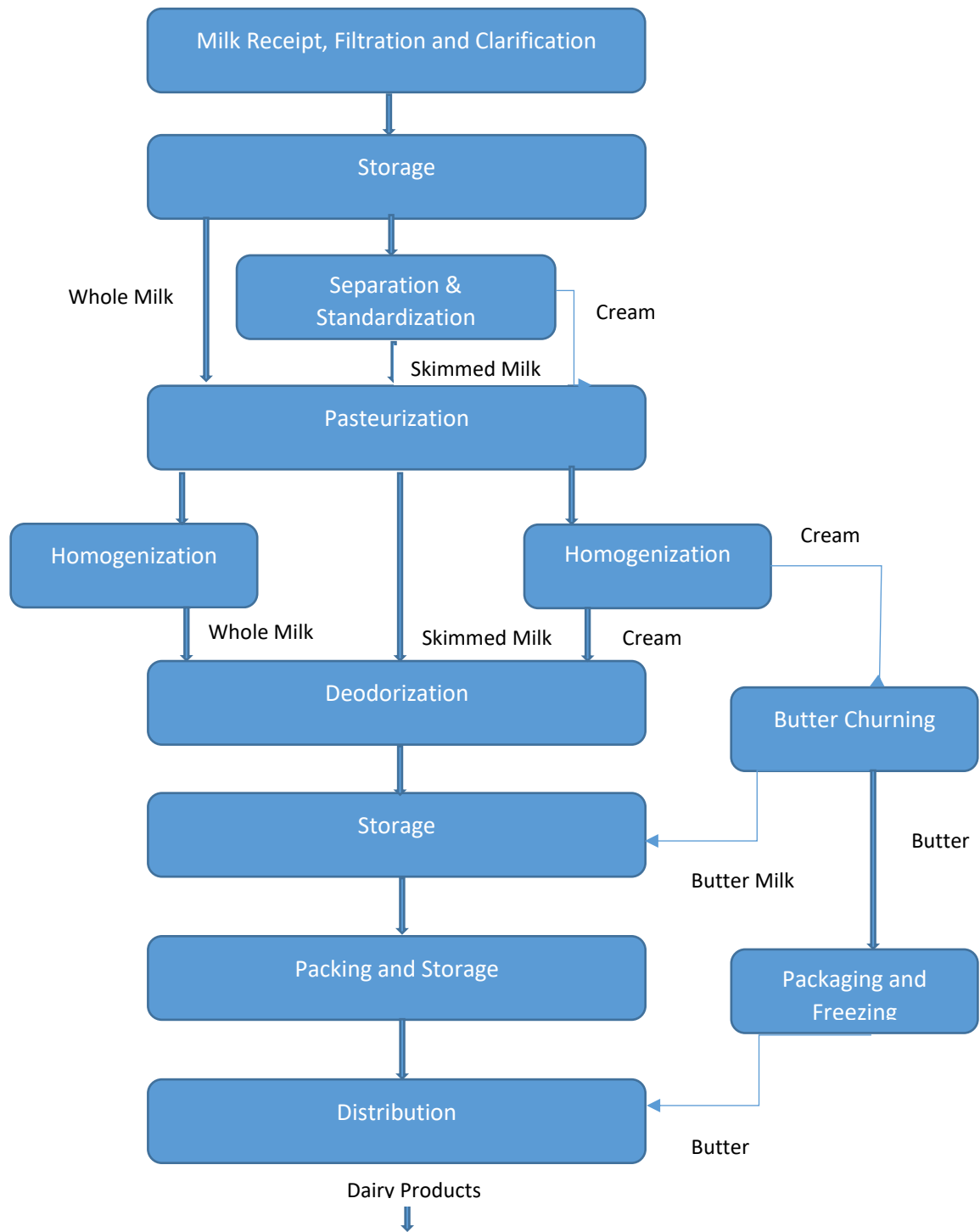


Figure 3 : Typical process flow diagram of milk manufacturing

Technologies Involved

Energy intensive equipment in a typical milk processing unit include,

- a) Ammonia Refrigeration system – Chilling
- b) Cooling towers - Cooling
- c) Boilers & Steam – Heating
- d) Pasteurizer, Homogenizer, Evaporators, Spray Dryers – Processing
- e) Auxiliaries viz., Pumps, Fans, Motors, Compressor

Typical energy use pattern is as shown below:

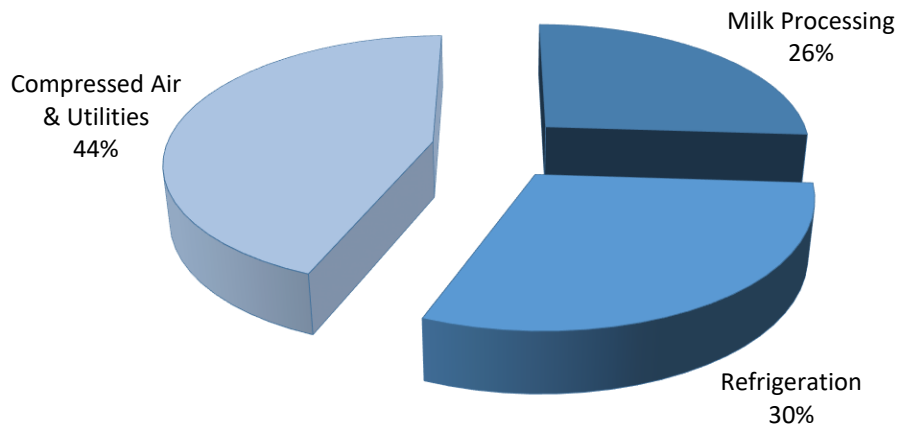


Figure 4 Typical Energy Use Pattern in Dairy Sector

3. MAPPING OF LOCAL SERVICE PROVIDERS

3.1 LSPs Operation in Gujarat Dairy Cluster and their influence on Energy Efficiency

Local Service Providers are instrumental in influencing industrial unit's journey towards sustained growth. LSP can be a firm or an individual providing the services to the units in order to run their operation smoothly and effectively. The services provided by the LSP can be a consultancy services, operation, repair & maintenance services, new installation and commissioning services. These services have a significant role in energy consumption of equipment as they are major energy guzzlers and most of the energy cost of industries is due to these equipment & utilities. So LSPs should have better knowledge in terms of best industrial practices for energy use optimization and applications of renewable energy technologies. A well trained LSP will perform the job efficiently that would help industry to reduce their cost and increase competitiveness. Equipment life will also increase without degrading the quality of the product.

In Gujarat dairy cluster, dairy units are mainly dependent upon Original Equipment Manufacturers (OEMs) for the services of equipment's like chiller, boiler, pumps etc. These OEMs have offices in different parts of Gujarat, as a result they are easily accessible by the dairy units. In addition to this in a typical dairy unit most of the repair and maintenance activities are done by in-house technicians and maintenance operators. The LSPs can be categorized as follows :-

- All major OEMS directly provide services to dairy units which
- OEMS who provide service to the units through sub vendors
- Local technicians and operators who do the repair and maintenance activities



3.2 Objective of Mapping

The objective of the mapping is to identify the LSPs based on the demand and supply needs of dairy units against available local service providers in the cluster and nearest locations. The LSPs were identified based on the major process and operations involved in the dairy units. The figure below shows the process wise mapping of LSPs in a dairy unit

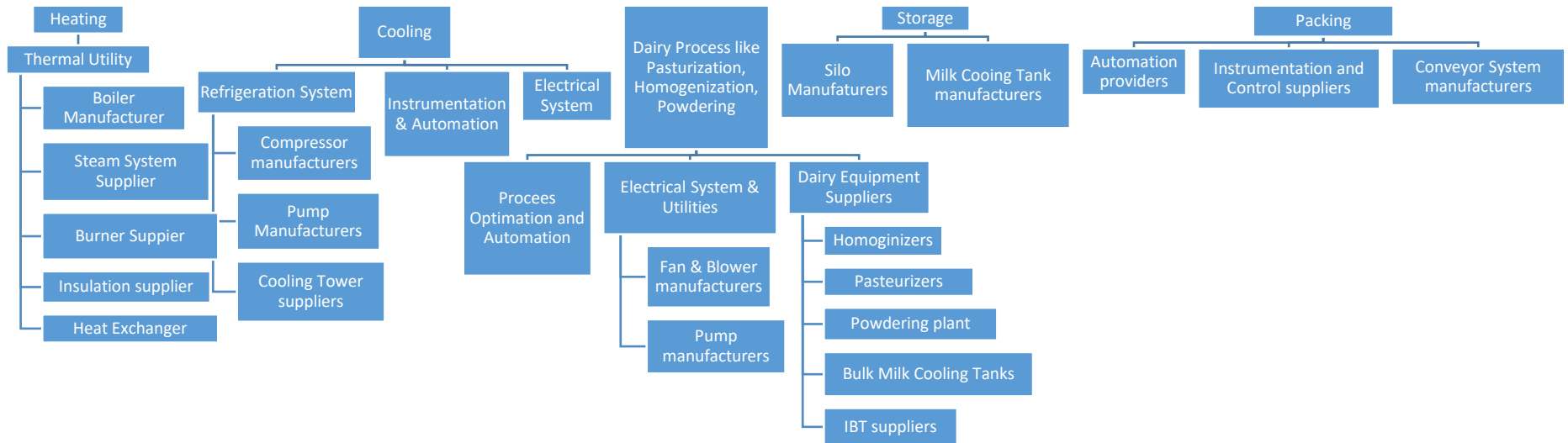


Figure 5 : Process wise Mapping

A two tier approach is adopted here for mapping the LSPs:-

- Tier 1 Category (Major OEMS): It includes the major OEMs and service providers in the cluster, viz. Thermax, Atlas Copco, and Ingersoll Rand, Frick India etc.
- Tier 2 Category (Service and maintenance people) :It includes local equipment manufacturers, fabricators, technicians etc, who do the repair and maintenance activities.

Only the Tier 1 category benefit from international linkages(adoption of new and innovative technologies) and global OEM contracts based on their capabilities. Currently all the LSP's which are falling in the Tier 2 category are not updated with the recent technological developments and best operating practices as their exposure to global market and R&D is limited.

The major reasons for this are

- Lack of operational competitiveness
- Huge gap on the existing skill set of employees
- Poor sustainable market linkage and gap in supply chain
- Competition from others providing same technology/service
- Lack of awareness of the latest technologies on EE/RE

The main purpose of mapping is to create a data base for the existing LSPs in the cluster, to do a gap analysis in terms of technology and skills and to identify for newer LSPs.

A typical mapping process adopted in Gujarat Dairy cluster is shown below:

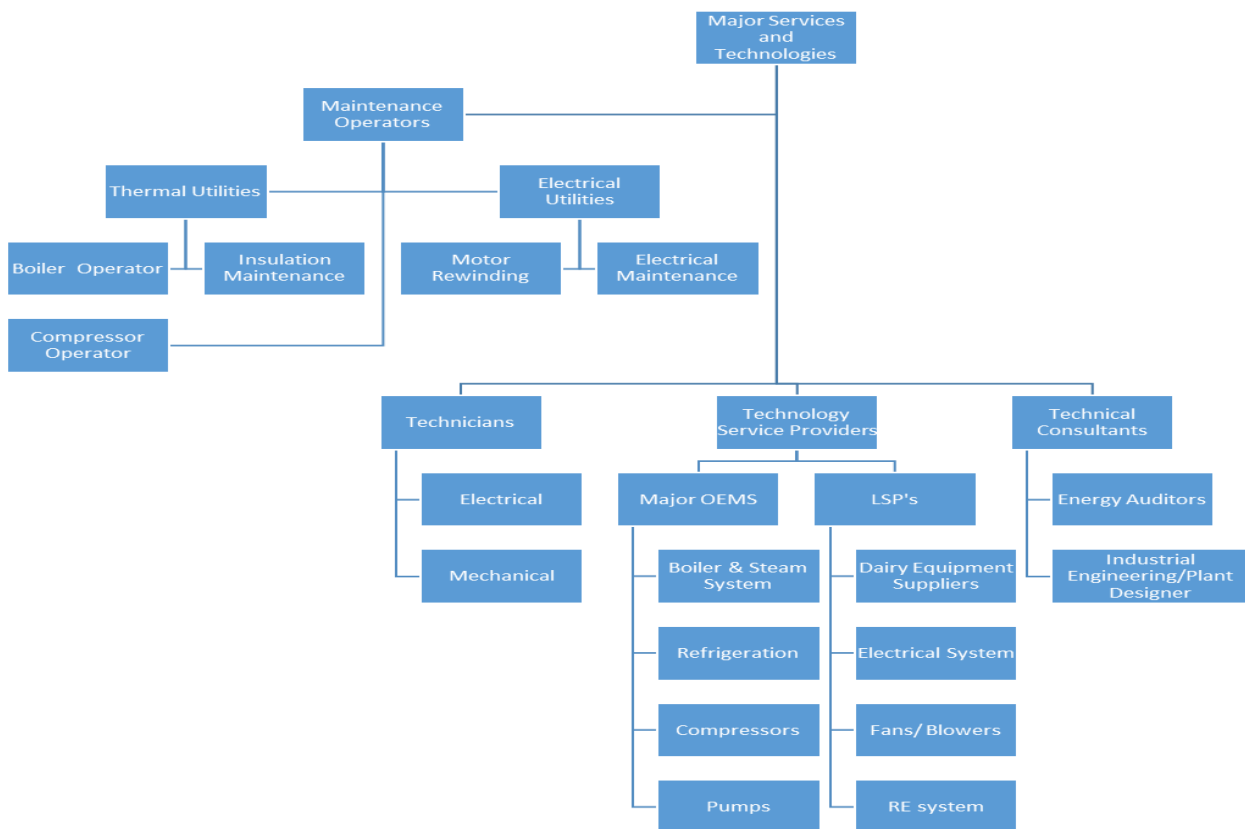


Figure 6: LSP Mapping Tree

3.3 Role of LSPs in Gujarat Dairy Cluster

Table 2: Role of LSPs

	Category List	Role of LSPs	List of LSPs*
Plant Level	Energy Audit Agencies	Conduct energy efficiency studies and recommend ECON measures	<ul style="list-style-type: none"> • Devki Energy Consultancy Pvt Ltd, Vadodara • GEDA, Gandhi Nagar
	Plant Designers	Provide project management services to design and build up dairy which include fabrications, erection of plant, equipments etc	<ul style="list-style-type: none"> • Ashtavinayaka Technocrafts Private Ltd, Ahmedabad • Flavi Dairy Technical Services, Ahmedabad
Process Level	Homogenization, Pasturization, Powdering, Clarification, Cleaning	Provides complete process solutions which govern the quality of products manufactured which includes automation, process loop modification	<ul style="list-style-type: none"> • IDMC, Gandhinagar • ICAM Technologies, Ahmedabad • Akxa Tech Pvt Ltd, Kohlapur
Equipment Level	Electrical Utilities <ul style="list-style-type: none"> • Compressor • Pumps • Fans & Blowers • Refrigeration System • Motors • Solar PV 	Provide regular repair & maintenance service of equipments, health check up, introducing new energy efficient technologies to cluster with respect to equipment.	<ul style="list-style-type: none"> • Venus Compressor, Ahmedabad • Nirmal Energy System, Ahmedabad • Jay Ambe Electric Service Center, Ahmedabad • IDMC , Gandhi Nagar
	Thermal Utilities <ul style="list-style-type: none"> • Boilers • Insulation • Burners • Heat Exchanger • Solar Water Heating 	Provide regular repair & maintenance service of equipments, health check up, introducing new energy efficient technologies to cluster with respect to equipment	<ul style="list-style-type: none"> • Balakrishna Boiler, Ahmedabad • Pyron Engineers, Ahmedabad • Vardhman Insulations, Ahmedabad • Thermax
Operator Level	<ul style="list-style-type: none"> • Welding • Fabrication 	To provide basic engineering services like welding , fabrication, fitting etc with respect to equipment and sub equipments like tanks,etc	<ul style="list-style-type: none"> • Nithin Fabricator, Ahmedabad • Devi Fabricator, Ahmedabad
*Detailed list given in Annexure 3			

3.4 Approach and Methodology

Local service providers in dairy cluster majorly comprises of maintenance operators, technicians, fabricators, energy auditors, engineering consultants, plant design engineers and other people who frequently provide their services to dairy plants.

CII has adopted following approaches to collect the information and understand the need and requirements of local service providers:

1. Inception meeting with the “Gujarat Cooperative Milk Marketing Federation” members and LSPs

CII had conducted an inception meeting at Amul Fed Dairy, Ahmedabad on 20th September 2017 with Sh. A.K. Bayati, GM, AmulFed Dairy, Sh. P.K. Sarkar, OSD- Project & Utilities AmulFed, Sh Prashanth Seth Senior Manager and other members and LSPs in the Gujarat cluster to explain the various activities of the project and create awareness about the project among various stake holders and to understand about the various challenges of the cluster. We have received a positive response from the association president for supporting all our activities to promote energy efficiency and renewable energy in the cluster.

2. Stakeholder Kick off Workshop

CII had organized a Stakeholder kick off workshop on 13th November 2017, inviting all the potential stakeholders like dairy units, local service providers, technology suppliers/OEM and financial institution to create awareness about the project and to understand the involvement and significance of different stakeholders in the project.

56 participants attended the workshop from various dairy units and major OEMS The technology suppliers made detailed



Figure 7: Sh. A.K. Bayati, delivering Inaugural speech



Figure 8: Glimpse of Stakeholder Workshop

presentations to share the best practices on existing system and energy efficient technologies available in the market. SIDBI had also made a presentation on EE/RE schemes of Government of India. The participant list and detailed agenda are attached in annexure 1 and 2. The detailed action plan for the project was discussed with key stake holders. We got positive feedback from GCMMF regarding the overall outline of the project and upcoming activities. Some of the units also shared some areas of interest where technology feasibility study need to be done. Also there was a discussion on some of the technology/services which are

currently not met by the existing LSPs in the cluster. This includes technologies on waste water treatment, falling film evaporator, application of micro turbine, installation of solar wind hybrid, light pipe etc.

3. Questionnaire

A questionnaire to collect basic information including the area of service and their strength and weakness of LSPs has been developed by CII. During field visits, LSPs were interviewed and necessary details were captured for mapping. The figure below shows a visit to a LSP M/s Jay Ambe Electric Service.



Figure 9: Visit to Jay Ambe Electric Service

Filled in data collection form obtained from field visits is attached in annexure 1.

4. OUTCOME OF LSP MAPPING

Comprehensive LSP data was collected through meeting with service providers and through various interaction during stakeholder workshops. The survey helped in analyzing various aspects of LSPs like:

- Existing skill sets
- Employee Strength
- Years of service
- Areas in which LSP need training

Geographic Location

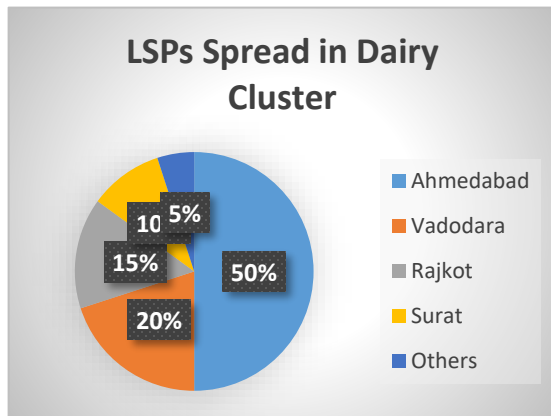


Figure 10: Geographic Location of LSPs

Ahmedabad and Gandhinagar are the two major locations where most of the LSPs in Gujarat operate from. For the major energy consuming equipment's like chillers, boiler, air compressor etc, plants are directly depending upon on OEM's which are spread across the country. Most of the LSPs related to utilities are located in Rajkot and Surat as it is an industrial belt

Skill Set

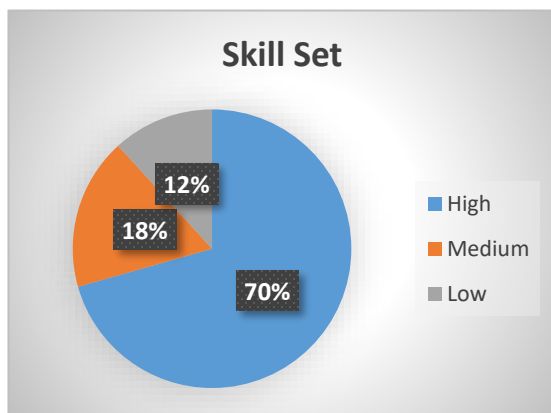


Figure 11: Skill Set of LSPs

The existing skill set of LSPs in Gujarat Dairy cluster is high as most of them are bigger OEMS and service providers and are equipped latest technologies and services. However there are some smaller LSPs in the cluster which do the repair and maintenance activities fall in the low and medium skill category. These LSPs need to get trained by the bigger OEMS such that there service can be used by the units in a productive way.

Employee Strength

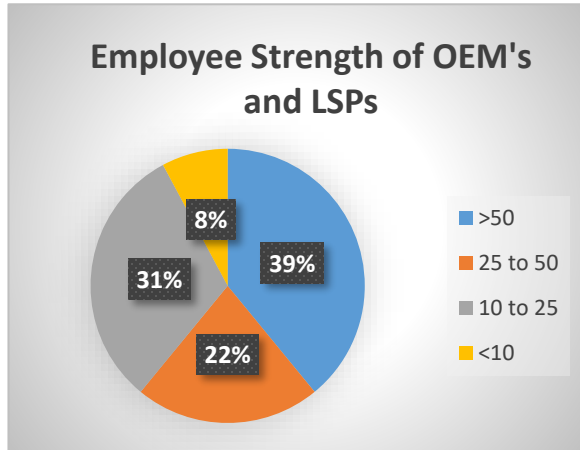


Figure 12: Employee Strength of LSPs

LSPs in dairy cluster are big and employee strength of these service providers is more than 25. Some of them major OEMS which operate from different parts of the country have more than 75 people as their employees. However there are some smaller LSPs in the cluster which include local fabricators, technicians , maintenance workers etc which are either single owned or have less than 10 employees with them

Educational Qualification

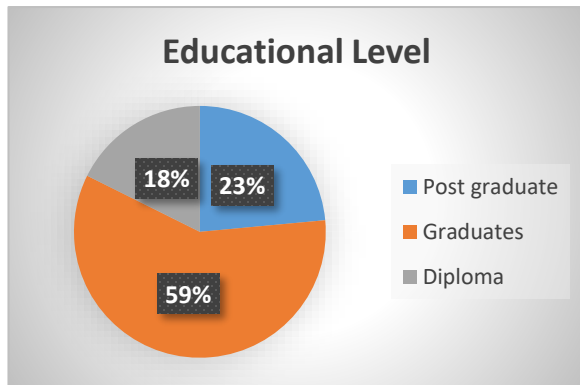


Figure 13: Educational Qualification of LSPs

Most of the stakeholders who participated in the survey are highly qualified. Local service providers and all the employees of dairy units in the cluster have a mix of post graduates, graduates and diploma holders. Even though the skill set of LSPs are high in the cluster, the survey helped in identifying various gaps regarding awareness about latest EE/RE technologies.

Technology wise mapping of LSPs identified in the cluster is given below:-

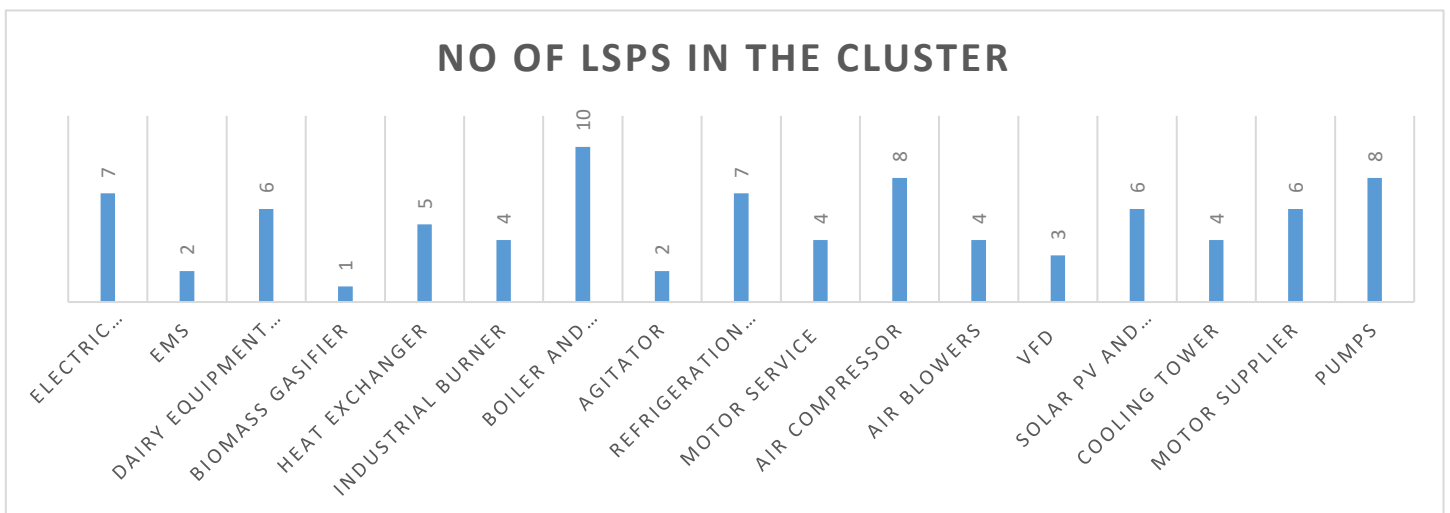


Figure 14: No of LSPs in cluster

Based on the LSP data, strength and weakness of service providers were analyzed and also what are the opportunities and threats for them in the cluster were identified during the mapping process SWOT analysis was also done based on the demand supply need of the services in the cluster.

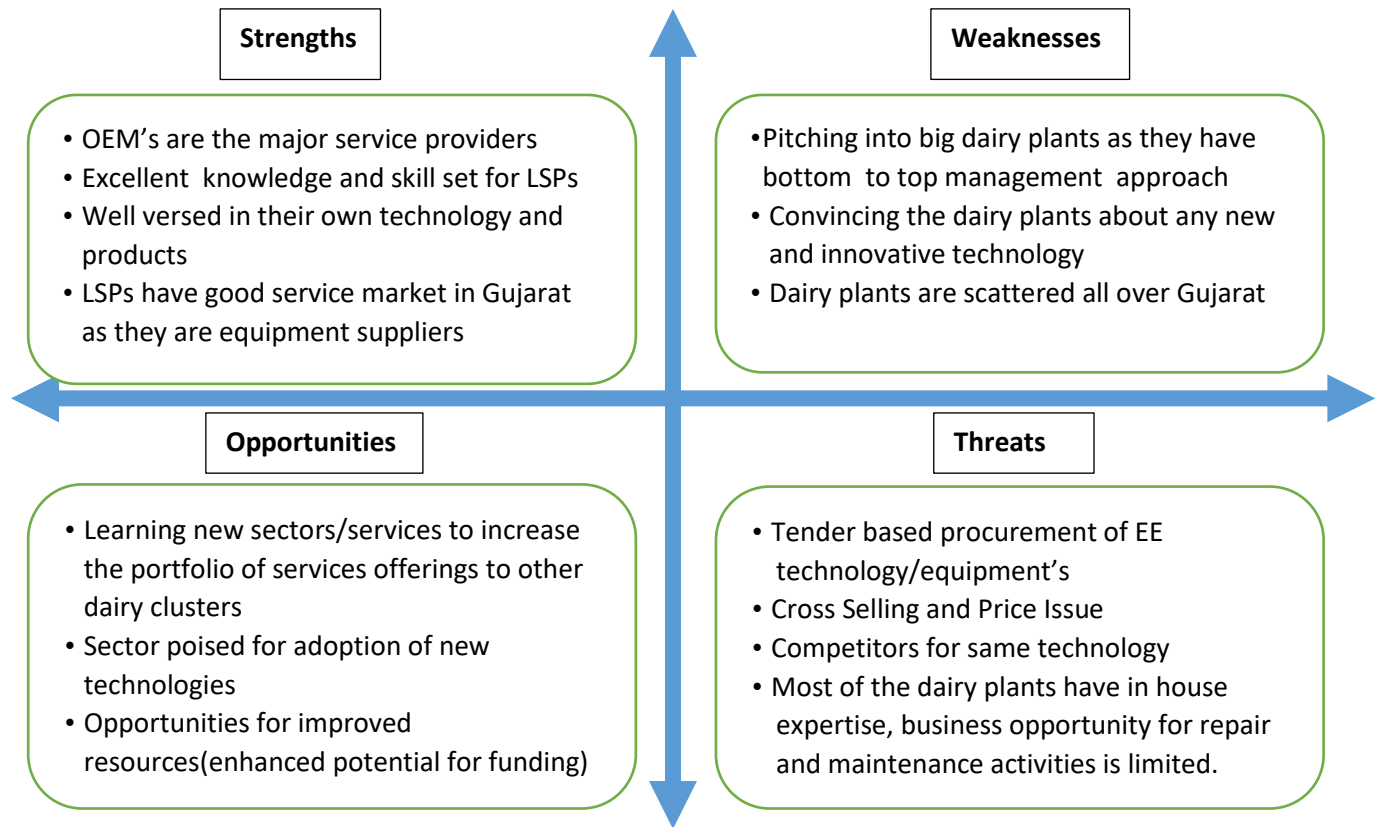



Figure 15: SWOT Analysis

5. ANNEXURES


Annexure 1 – LSP Data Collection Format


LSP Data Collection Format for Gujarat Dairy Cluster	
Name of the Local Service Provider	Vardhaman Insulation Limited
Address	409, Kaleswari shopping hub Opp Sai Baba Temple, Rd. Satkhada Cross Road, Ghettodia, Ahmedabad
Contact Person Name	Rohit Mehta
Designation	SA Engineer
Mobile No	9704321902
Mail ID	info@vardhamaninsulation.com
No of years in existence	7-Years
Technology/ Service Provided	Service provides
Major OEM's/ Supplier dealing with	Pharmaceuticals, cement industries, Petrochemicals, food Industries, Chem plants
Areas/Locations Served or covered	within Gujarat & Rajasthan, MP Himachal Pradesh, Haryana, Assam Andhra Pradesh, Karnataka, Bihar, Jh Dadra-Niagar, Arunachal
Name of the Dairy Units served by the LSP	
No of Employees currently working	54
Existing Skills of the employee and gaps	—
Main Competitors providing same technology	Insul Well India, India Insulation Rt Ltd, Lloyd Insulation
Organisational Strength and Weakness	—
Support Needed if any	—







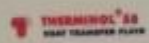

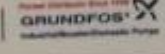
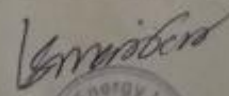

For VARDHAMAN INSULATION LIMITED


Authorized Signatory

2


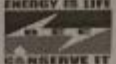

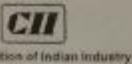

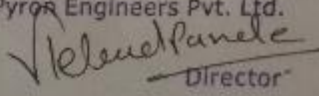
LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider:	 <p>NIRMAL ENERGY LIMITED AN ISO 9001:2015 CERTIFIED COMPANY</p> <p>Madhusoodanan S. Director - Technical & Marketing</p> <p>Corporate Office: 402, Icon Elegance Nr. Jan Temple, Prahladnagar Cross Road, S.G. Highway, Ahmedabad - 380015, INDIA Phone: +91-79-66168944, 66168945 Fax: +91-79-66168944 E-mail: info@nirmalenergy.com Website: www.nirmalenergy.com</p> <p>THERMINOL ballfur GRUNDFOS</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	19
Technology/ Service Provided	Pumps, Burners, Hot Transfer Fluids
Major OEM's/ Supplier dealing with	Pump - Grundfos Burner - Ballfur
Areas/Locations Served or covered	Pump - Gujarat, HTF - Gujarat & Jh Burner - India + Bangladesh + Sri Lanka
Name of the Dairy Units served by the LSP	Amul Dairy, Anand Dairy, Bans & Doodh Sagar Dairy, Santal Dairy.
Support Needed if any (in terms of technology, skill development etc)	* Already internal training done a marketing skills.



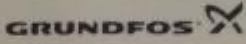
Madhusoodanan S.


LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	     NIRMAL ENERGY LIMITED AN ISO 9001:2015 CERTIFIED COMPANY  Madhusoodanan S. Director - Technical & Marketing Corporate Office: 402, Icon Elegance Nr. Jan Temple, Panchdurg Cross Road S.O. Highway, Ahmedabad - 380015, INDIA Phone: +91-79-60188944, 60188945 Fax: +91-79-60188944 E-mail: info@nirmalenergy.com Website: www.nirmalenergy.com   
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	25+1 Service-IT (2)
Education Level?	Burner & 5 Employees Graduates - Pumps - 4 & Diploma
What are your area of services?	Pumps, Burner, Heat Transfer Fluid
What type of Industries you cover ?	Dairy, Coca Cola, Pharma, Beverages
Type of challenges faced?	→ Competition • Cross selling leads to price war
Type and name of OEM you work with?	Directly Selling
New areas you would like to Learn?	New technologies in Pumps
Areas in which training is required ?	Pumps - Advancements
In which Language Training material is required?	English
Is training material required in soft or hard copy?	
Expectation from the Project?	Should benefit Dairy Cluster
Suggestions/Remarks:	 




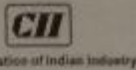


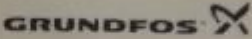

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	Pyron Engineering
Address	Vivek N. Tekadpande (M) 92272 56121 Pyron ENGINEERS PVT. LTD. BOILERS & BURNERS B-121, Silicon Valley, Shivrangani Cross Road, Satellite Road, Ahmedabad 380 015, Gujarat (INDIA) Ph. : 079- 26747945, 40041121 E-Mail : info@pyron@yahoo.com • Website : www.pyronengineers.com
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	22 [8 EMPLOYEES]
Technology/ Service Provided	HOT WATER BOILER → (Water) → STEAM BOILER. → OIL & GAS BURNER. ALL COMBUSTION EQUIPMENTS.
Major OEM's/ Supplier dealing with	FOOTEX, MAJIMA BOILER BHEL, VERUJ, PYRONIS.
Areas/Locations Served or covered	ALL OVER GUJARAT.
Name of the Dairy Units served by the LSP	Mahulaxmi Dairy → Surat Dashan Dairy → Bombay Modern Dairy → Bombay
Support Needed if any (in terms of technology, skill development etc)	* Increase the knowledge → More C/O


For, Pyron Engineers Pvt. Ltd.
Vivek N. Tekadpande
Director

    ②	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	Vivek N. Tekadpande (M) 92272 56121
Address	 BOILERS & BURNERS B-121, Silicon Valley, Shivranjani Cross Road, Satellite Road, Ahmedabad 380 015, Gujarat (INDIA) Ph.: 079- 26747945, 40041121 E-Mail : infopyron@yahoo.com • Website : www.pyronengineers.com
Contact Person Name	
Designation	
Mobile No	
Email ID	
Exiting Skill set?	8 → Graduals
Education Level?	GOOD.
What are your area of services?	— [GIVEN] ①
What type of Industries you cover ?	DAIRY, CHEMICAL STEEL, PHARMA.
Type of challenges faced?	× COMPETITORS
Type and name of OEM you work with?	— [GIVEN] ①
New areas you would like to Learn?	BOILER & STEAM SYSTEM
Areas in which training is required ?	NEW TECHNOLOGIES
In which Language Training material is required?	ENGLISH
Is training material required in soft or hard copy?	EITHER
Expectation from the Project?	
Suggestions/Remarks:	For, Pyron Engineers Pvt. Ltd.  Director







LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	   Piki Modi 9426616303 info@urmisolar.com www.urmisolar.com Urmi Solar Systems Ltd Plot No. 5208, Phase-4 Road No. T-1 (Towards Ramol) G.I.D.C. Vatva Ahmedabad-382445, Gujarat
Address	
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	30 [25 Employees]
Technology/ Service Provided	a Solar water Heating System a Heat Pump Water Heater [Dealers]
Major OEM's/ Supplier dealing with	Venus -> Heat Pump
Areas/Locations Served or covered	Only in Gujarat
Name of the Dairy Units served by the LSP	Cattle Feed Plant - Amul [5400 LTR -> BFR]
Support Needed if any (in terms of technology, skill development etc)	In house R&D -> Consultant of GEDR -> with themselves




   	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	   <p> Urm Solar Systems Ltd Plot No. 5208, Phase-4 Road No. T-1 (Towards Ramol) G.I.D.C. Vatva Ahmedabad-382445, Gujarat </p>
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	25 → 20.951 → 5 Graduates
Education Level?	
What are your area of services?	<ul style="list-style-type: none"> • Solar Water Heating • Heat Pump
What type of Industries you cover ?	Dairy, Fertilizer Food & Beverage Pharma
Type of challenges faced?	• Cost & Technology
Type and name of OEM you work with?	Venus → Heat Pump [OEM]
New areas you would like to Learn?	In house
Areas in which training is required ?	They are consultant of GEFT.
In which Language Training material is required?	English.
Is training material required in soft or hard copy?	SOFT OR HARD.
Expectation from the Project?	BENEFIT LSP
Suggestions/Remarks: 	

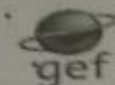
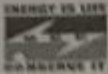
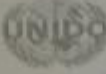


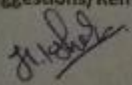
LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	
Address	H. V. A. C. Pratik Nathavad
Contact Person Name	PRANAM HVAC ENGINEERING PVT. LTD.
Designation	A-405-406, Neelkanth Palace, 100ft. Anand Nagar Road, Nr. Sima Hall, Satellite, Ahmedabad-15. Ph. No.: 079-26933579 / 26931445
Mobile No	M : 9979867347 E-mail : pratik@pranamhvac.com
Mail ID	
No of years in existence	15 [30+ Employees]
Technology/ Service Provided	HVAC
Major OEM's/ Supplier dealing with	HITACHI, SAMSUNG, DAENEKAL
Areas/Locations Served or covered	ALL OVER GUJARAT
Name of the Dairy Units served by the LSP	AMUL DAIRY NANDS
Support Needed if any (in terms of technology , skill development etc)	<ul style="list-style-type: none"> ➤ More Market Penetration ➤ Learning on new technologies in HVAC




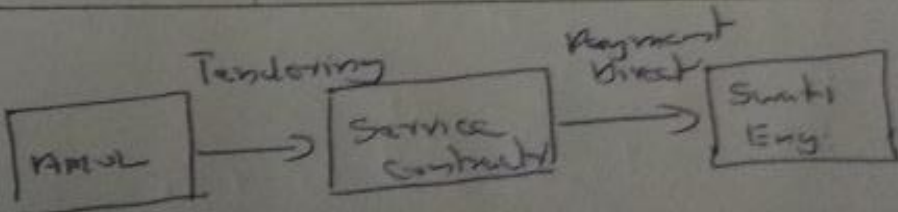
    <p>Confederation of Indian Industry</p>	
<h3>LSP Training Need Assessment Form for Gujarat Dairy Cluster</h3>	
Name of the Local Service Provider(LSP)	 H. V. A. C. Pratik Nathavad PRANAM HVAC ENGINEERING PVT. LTD. A-405-406, Neeilkant Palace, 100ft. Anand Nagar Road, Nr. Sima Hall, Satellite, Ahmedabad-15. Ph. No.: 079-26833579 / 26831445 M : 9979867347 E-mail : pratik@pranamhvac.com
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Exiting Skill set?	EXCELLENT
Education Level?	70, Mix of Engineers & ITI.
What are your area of services?	
What type of Industries you cover ?	DAIRY, PHARMA, COMMERCIAL BUILDINGS, HOTELS
Type of challenges faced?	Competition
Type and name of OEM you work with?	To Plants Direct Dealership through vendors
New areas you would like to Learn?	
Areas in which training is required ?	LATEST Advancement in HVAC.
In which Language Training material is required?	ENGLISH.
Is training material required in soft or hard copy?	EITHER OR ANY.
Expectation from the Project?	MAKE MARKET PENETRATION
Suggestions/Remarks	

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	 <p>HIMANSHU K. SHAH Sr. Tech. Executive</p> <p>ELECON ENGINEERING CO. LTD. 12, 2nd Floor, Shree Krishna Center, Nr. Mithakhali Six Road, Navrangpura, Ahmedabad - 380 009, Gujarat, India. Tel. : +91-79-26406683/84/85 Fax : +91-79-26401363 Mobile : +91 99099 07871 Email : hkshah@elecon.com Web : www.elecon.com</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	67 [500+ employees]
Technology/ Service Provided	<ul style="list-style-type: none"> Power Transmission Product Mechanical. Gear Boxes & Couplings.
Major OEM's/ Supplier dealing with	Directly with Dairy.
Areas/Locations Served or covered	All over India. [3 offices in Gujarat]
Name of the Dairy Units served by the LSP	Amul, Bansa Dairy, Amul Anand.
Support Needed if any (in terms of technology , skill development etc)	<ul style="list-style-type: none"> Collaboration with K&D already having. Motor & gears.

Dr. Kishor







    <p>Confederation of Indian Industry</p>	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	 <p>HIMANSHU K. SHAH Sr. Tech. Executive</p> <p>ELECON ENGINEERING CO. LTD. 12, 2nd Floor, Shree Krishna Center, Nr. Mithakhali Six Road, Navrangpura, Ahmedabad - 380 009, Gujarat, India. Tel. : +91-79-26406683/84/85 Fax : +91-79-26401363 Mobile : +91 99099 07871 Email : hkshah@elecon.com Web : www.elecon.com</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	Graduates & Post-graduates
Education Level?	more than 500 Employees
What are your area of services?	<ul style="list-style-type: none"> • Power Transmission product • Gear Box
What type of Industries you cover ?	Cement, Steel, Power etc.
Type of challenges faced?	Competition - Siemens, Shakti Premium
Type and name of OEM you work with?	Directly
New areas you would like to Learn?	Advancement in Motor & Gear
Areas in which training is required ?	Motor & Gear Systems
In which Language Training material is required?	ENGLISH
Is training material required in soft or hard copy?	Either or Any
Expectation from the Project?	
Suggestions/Remarks: 	



LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	Hemal Shah Mo. 9016507387
Address	Phone +91-79-2656 1594, 2646 1196 Fax +91-79-2646 1196 E-mail sabrosapares@gmail.com Website www.swatieng.com
Contact Person Name	 SWATI ENG. ENTERPRISE TRADERS & EXPORTER Replacable Spares for Accel Sabroo, Kirloskar, Voltas, IR and Trans Utility Compressor Office : 20, 2nd Floor, Shree Krishna Centre, Mitkhali, Navrangpura, Ahmedabad-380009
Designation	
Mobile No	
Mail ID	
No of years in existence	34 yrs (4 Employees)
Technology/ Service Provided	Refrigerator Compressor Spares
Major OEM's/ Supplier dealing with	No OEM's,
Areas/Locations Served or covered	All over India
Name of the Dairy Units served by the LSP	Through service contractors to Amul →
Support Needed if any (in terms of technology, skill development etc)	<ul style="list-style-type: none"> • Skill development, • Move Business from other Dairies • Technology Upgrade.








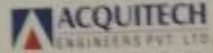

```


            graph LR
            Amul[AMUL] -- Tenders --> SC[Service Contractors]
            SC -- Payment Direct --> Swati[Swati Eng.]
        
```

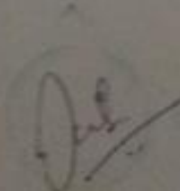
   	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	Hemal Shah Mo. 9016507387 
Address	Phone +91-79-2656 1594, 2646 1195 Fax +91-79-2646 1190 E-mail svbrowspares@gmail.com Website www.swatieng.com
Contact Person Name	SWATI ENG. ENTERPRISE TRADERS & EXPORTER Replacable Spares for Accel Satma, Kirloskar, Voltas, IR and Trane Utility Compressor Office : 20, 2nd Floor, Shree Krishna Centre, Nithakhali, Navrangpura, Ahmedabad-380009.
Designation	
Mobile No	
Email ID	
Existing Skill set?	4 Employees
Education Level?	At Pass Education level.
What are your area of services?	Refrigeration Compressor Spares
What type of Industries you cover ?	Cold Storage, Dairy, Unit
Type of challenges faced?	<ul style="list-style-type: none"> • Competition • Awareness about technology
Type and name of OEM you work with?	No OEM's
New areas you would like to Learn?	New Technology in Refrig. ^{sector}
Areas in which training is required ?	Refrigeration.
In which Language Training material is required?	English.
Is training material required in soft or hard copy?	Both.
Expectation from the Project?	More business than other clusters
Suggestions/Remarks: Part made through subcontractors.	
	

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	AKASH PATEL Manager Sales Mobile: 98240 58551 Email: juhnsqn@acquitech.com
Address	
Contact Person Name	
Designation	A-407, Premium House, Nr. Gandhinagar Railway Station, Navrangpura, Ahmedabad - 380 009, India.
Mobile No	Phone: + 91-79-2657 4825/5383/8684 M.: 98240 23690
Mail ID	E-mail: admin@acquitech.com Website: www.acquitech.com
No of years in existence	25 [16 Employees]
Technology/ Service Provided	Pumps & Valves
Major OEM's/ Supplier dealing with	Arvind Envisol, Thomas Keter Consultant, Chem Process S
Areas/Locations Served or covered	North Gujarat, Kutch Gandhidham, Surendra
Name of the Dairy Units served by the LSP	Amul, Doodh Sagar
Support Needed if any (in terms of technology, skill development etc)	Automation of Pumped Steam Valves

A. Patel



    Confederation of Indian Industry	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	AKASH PATEL Manager Sales Mobile: 98240 58051 Email: akashp@acquitech.com
Address	 A-407, Prajapat House, Nr. Gandhinagar Railway Station, Navrangpura, Ahmedabad - 380 005, India. Phone: + 91-79-2957 4823/2263/8664 M. 98240 22900 E-mail: admin@acquitech.com Website: www.acquitech.com
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	16 Employees, Technically sound
Education Level?	All are engineers.
What are your area of services?	Pumps & Valves.
What type of Industries you cover ?	All Sector.
Type of challenges faced?	→ In terms of technology. → Market.
Type and name of OEM you work with?	Amval (Emico) Thermax.
New areas you would like to Learn?	Automation.
Areas in which training is required ?	Automation.
In which Language Training material is required?	ENGLISH
Is training material required in soft or hard copy?	Either or Both.
Expectation from the Project?	
Suggestions/Remarks: <div style="text-align: right; margin-top: 10px;">  <i>A. Patel</i> </div>	

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	Power Control
Address	
Contact Person Name	
Designation	
Mobile No.	
Mail ID	
No of years in existence	20 [18 Employees]
Technology/ Service Provided	Electrical Contractors EPC
Major OEM's/ Supplier dealing with	Direct
Areas/Locations Served or covered	Gujarat
Name of the Dairy Units served by the LSP	NDDK, Amul Dairy Banos Dairy
Support Needed if any (in terms of technology, skill development etc)	Electrical Contracting Electrical Substation




gef ENERGY 2015 UNIDO CII



LSP Training Need Assessment Form for Gujarat Dairy Cluster





Name of the Local Service Provider(LSP)	Power Control
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	Mix of technicians & Graduate
Education Level?	12 People
What are your area of services?	Consultant + Electrical + IT/PLC & Monitoring
What type of Industries you cover ?	Automobile, Dairy
Type of challenges faced?	
Type and name of OEM you work with?	Direct
New areas you would like to Learn?	Substation
Areas in which training is required ?	Erection & Laying of Substation
In which Language Training material is required?	English
Is training material required in soft or hard copy?	Either or Any
Expectation from the Project?	

Suggestions/Remarks:


[Signature]

LSP Data Collection Format for GUJARAT DAIRY Cluster		
Name of the Local Service Provider	 <p>Aviva AVIVA Equipments Pvt. Ltd. MFG. : DAIRY EQUIPMENTS 22 aviva@avivaequipments.com 24 Bharat.shah@avivaequipments.com www.avivaequipments.com</p> <p>Bharat Shah CMD +91-98253 0489</p> <p>Regd. & Corporate Office: E-05, Taran Ch. Center, W. Sector Town, Anand Nagar Road, Sakinaka, Ahmedabad-380 015 (Gujarat) INDIA. © IFS 2019/4031 Factory: 313, Saphale Estate, 3rd Stage, Rajiv Gandhi Square, Gandhinagar, Gandhinagar Ring Road Circle, Dholu, Ahmedabad-380115</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">AN ISO 9001:2008 CERTIFIED</p>	
Address		
Contact Person Name		
Designation		
Mobile No		
Mail ID		
No of years in existence		11 <u>L18 Employees</u>
Technology/ Service Provided		Bulk Milk Cooler <u>1300-10000L</u> Milk Storage Tanks Instant Chilling Plants
Major OEM's/ Supplier dealing with		CIERA
Areas/Locations Served or covered		West Bengal, Gujarat, MP
Name of the Dairy Units served by the LSP	Mehsana, Major Dairy Sri. Durbhousmi Dande	
Support Needed if any (in terms of technology, skill development etc)	a Process Equipments in Dairy	












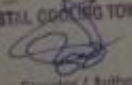
LSP Training Need Assessment Form for Gujarat Dairy Cluster

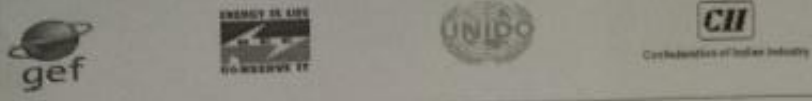

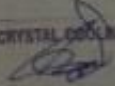
Name of the Local Service Provider(LSP)	 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: left;"> <p>Bharat Shah CMD +91-98253 04991</p> </div> <div style="text-align: center;"> <p>Aviva AVIVA Equipments Pvt. Ltd. MFG. DAIRY EQUIPMENTS aviva@avivaequipments.com Bharat.shah@avivaequipments.com www.avivaequipments.com</p> </div> </div> <p style="font-size: small; margin-top: 5px;"> Regd. & Corporate Office: 5-102, Theban City Center, 4th, Sector Tower, Akash Nigam Road, Sakinaka, Ahmedabad 380 015, Gujarat INDIA. © 2016-2020 Factory: 217, Sakinaka Estate, 3rd, Sakinaka, Sakinaka, Sakinaka, Ahmedabad 380 015 </p>
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	G+12 → JFI + Formulas
Education Level?	Contract Workers [Good knowledge]
What are your area of services?	• BMC • Milk Storage Tanks - • Instant Chilling Plants
What type of Industries you cover ?	Mainly Dairy.
Type of challenges faced?	• Market Competition • Technological Advancement
Type and name of OEM you work with?	GIEA.
New areas you would like to Learn?	New Technologies.
Areas in which training is required ?	Process Equipments in Dairy.
In which Language Training material is required?	ENGLISH
Is training material required in soft or hard copy?	SOFT / HARD.
Expectation from the Project?	





Suggestions/Remarks:



LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	
Address	
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	35 years
Technology/ Service Provided	Cooling Towers → All types including FRP
Major OEM's/ Supplier dealing with	<ul style="list-style-type: none"> → Fans → Local & outside India → Direct Dealership → MCH → Sabar, New Jersey
Areas/Locations Served or covered	Mainly Gujarat
Name of the Dairy Units served by the LSP	Mehsana Dairy, Anand
Support Needed if any (in terms of technology, skill development etc)	<ul style="list-style-type: none"> → Latest trends in EE Market → latest development in FRP Man. → latest trends in HE2 & HE3


 For: CRYSTAL COOLING TOWERS PVT. LTD.
 Director / Authorized Signatory


LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	  CRYSTAL COOLING TOWERS PVT. LTD. <small>AN ISO 9001:2008 COMPANY</small> Reg. Office: B-1, Kankar Nagar, Old Punjab National Bank, W. Borsay Complex, GIDC Vada, Ahmedabad-382415, Tel: 079-2322261, 079-2322262 Email: info@crystalcoolingtowers.com sales@crystalcoolingtowers.com enquiry@crystalcoolingtowers.com Website: www.crystalcoolingtowers.com www.crystalcoolingtowers.in
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	12 [2-3 JTI root graduates]
Education Level?	CT
What are your area of services?	
What type of industries you cover ?	Chemicals, Steel, Pans Engineering.
Type of challenges faced?	<ul style="list-style-type: none"> Go with low quantity Appreciation of Price.
Type and name of OEM you work with?	Higher quality in low price.
New areas you would like to Learn?	New JET & JET3 mch
Areas in which training is required ?	Latest trends in Fans FKA
In which Language Training material is required?	English.
Is training material required in soft or hard copy?	Soft or Hard.
Expectation from the Project?	
Suggestions/Remarks:	For CRYSTAL COOLING TOWERS PVT. LTD.  Director / Authorized Signatory







LSP Training Need Assessment Form for Gujarat Dairy Cluster


Name of the Local Service Provider(LSP)	 <div style="float: right; text-align: right; font-size: small;"> Deepak Sharma M : 9727452487 7948375999 exports@balkrishna.com </div>
Address	<div style="display: flex; justify-content: space-between;"> <ul style="list-style-type: none"> • Mfg of • Wood, Coal, Gas, Oil & • Industrial Plant • Steam Boiler • Thermal Fluid Heater • Hot Air Generator <ul style="list-style-type: none"> • Hot Water Boiler • Air Pollution Control • Water Treatment • Power Generation • Boiler Accessories • Steam Accessories </div> 
Contact Person Name	• Plot No. 798, Phase - I, GDC, Vahiv, Opp. Ashad Bhood, Ahmedabad - 382 2445 • Phone : (0) 079 - 2589 4701, • Fax : 079 - 2589 4702 • E-mail : info@balkrishna.com, office@balkrishna.com • URL : www.balkrishna.com
Designation	
Mobile No	
Email ID	
Existing Skill set?	ZC+, Diploma, Graduate
Education Level?	[Grad] PG
What are your area of services?	TFH Boiler ITM G.
What type of Industries you cover ?	Steel, Dairy, Power Plant.
Type of challenges faced?	Cost effective solutions.
Type and name of OEM you work with?	Direct.
New areas you would like to learn?	EIE Projects
Areas in which training is required ?	EIE Projects New Technology
In which Language Training material is required?	English.
Is training material required in soft or hard copy?	Either or Both
Expectation from the Project?	

Suggestions/Remarks:




LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	
Address	<p>Deepak Sharma M : 9727492487 7546275999 export@balkrishna.com</p> <p> <ul style="list-style-type: none"> • Mfg. of: • Hot Water Boiler • Hot Water Boiler • Hot Water Boiler • Air Pollution Control • Water Treatment • Power Generation • Boiler Accessories • Steam Accessories </p> <p>BALKRISHNA BULK RIMS PVT. LTD.</p> <p>Plot No. 758, Phase - I, GDC, Vahiv, Opp. Ashad Bungal, Ahmedabad - 381 245. Phone: (0) 79 - 2589 4751, Fax: 079 - 2589 4752 E-mail: info@balkrishna.com, office@balkrishna.com URL: www.balkrishna.com</p>
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	22 [24+ Empties]
Technology/ Service Provided	Boilers HACs ESP TFH Electric Boilers
Major OEM's/ Supplier dealing with	Direct
Areas/Locations Served or covered	Global
Name of the Dairy Units served by the LSP	Rajukum Saps, Doodh Suraaj Gugardi Dairy, Mehsana Dairy Kamdena Dairy, 55 Dairy, Jishir Suktha Dairy
Support Needed if any (in terms of technology, skill development etc)	• Efficiency & Fuel Savings • Different types of Fuel firing

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	 <p>Deepesh Singh Manager - Marketing +91 - 998 143 195</p> <p>DRAFT AIR Creating Just The Right Atmosphere - Always</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	
Technology/ Service Provided	<ul style="list-style-type: none"> → Fans & Blowers → Humidity Control, Air ventilation → Dust Extraction Systems
Major OEM's/ Supplier dealing with	BITEL
Areas/Locations Served or covered	All Over India with Export
Name of the Dairy Units served by the LSP	Mother Dairy, Sabar Dairy, Banas Dairy
Support Needed if any (in terms of technology, skill development etc)	<ul style="list-style-type: none"> → latest designs in Fans → EE in Fans

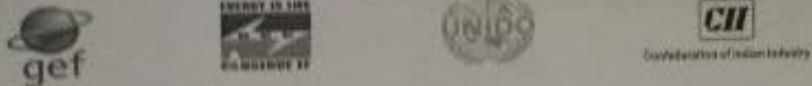



3702, B & C, PHASE-IV, G.I.D.C.,
BEHIND NEW NIRMA,
OPP: SABAR PUMP,
MEDARAD-382445


LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	 <p>DRAFT AIR Creating For The Right Atmosphere - Always</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	200 / 1/16 or any engineer
Education Level?	EXCELLENT
What are your area of services?	• Fans of Blowers • Humidification systems
What type of industries you cover ?	Dairy, Textile, Petrochemicals, Garment, Food.
Type of challenges faced?	Competition. not in local market.
Type and name of OEM you work with?	BITAL.
New areas you would like to learn?	Label-headers in EE
Areas in which training is required ?	• EE in Fans of Blowers • Design aspects.
In which Language Training material is required?	English
Is training material required in soft or hard copy?	Either or Any.
Expectation from the Project?	
Suggestions/Remarks:	<p>DRAFT AIR INDIA PVT. LTD. 3702-B & C, PHASE-IV, G.I.D.C., BEHIND NEW NIRMA, OPP. ...</p>

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	
Address	<p>Rang Refrigeration & Engineers 291/21, Panchratna Estate, G.I.D.C Phase - 4, Vahia, Ahmedabad - 382445</p> <p>Manish Dave M. : +91 98257 98048 O. : +91 70969 28928</p> <p>E mail : rang.refrigeration@gmail.com web : www.rangrefrigeration.in skype : manish.dave4275</p>
Contact Person Name	
Designation	
Mobile No	
Mail ID	
No of years in existence	11 [25 Employees]
Technology/ Service Provided	Ammonia Compressor Ice Plants Chilling Plants.
Major OEM's/ Supplier dealing with	Carrier, Subco, Kirloskar → Ammonia Compressor.
Areas/Locations Served or covered	All over India & Global
Name of the Dairy Units served by the LSP	→ Khetval Sun Dairy Rajasthan AMP. → Some plants in
Support Needed if any (in terms of technology, skill development etc)	→ New Technologies in Refrigeration → Cooling System.

  	
LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	<p>Rang Refrigeration & Engineers 291/271, Panchratna Estate, G.D.C Phase - 4, Vahva, Ahmedabad - 382445</p> <p>Manish Dave M. : +91 98257 88048 O. : +91 71909 26928</p> <p>E mail : rang.refrigeration@gmail.com web : www.rangrefrigeration.in skype : manish.dave4775</p>
Address	
Contact Person Name	
Designation	
Mobile No	
Email ID	
Existing Skill set?	25+, Graduates &
Education Level?	[Grad]. Diploma
What are your area of services?	<ul style="list-style-type: none"> • Ammonia Compressor • Chilling Plants
What type of Industries you cover?	Food & Beverage Chemical, Cold Storage
Type of challenges faced?	Market Challenges
Type and name of OEM you work with?	Carrier, Subro, Kubota
New areas you would like to Learn?	New Technologies about
Areas in which training is required?	Cooling System Refrigeration
In which Language Training material is required?	English
Is training material required in soft or hard copy?	Soft / Hard
Expectation from the Project?	
Suggestions/Remarks:	

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	JAY AMBE ELECTRIC
Address	CS4, Kailash Industrial Estate Satdar Patel King Road Odhav
Contact Person Name	-
Designation	-
Mobile No	9376671071
Mail ID	jayambeelectric@yahoo.co.in
No of years in existence	25 [15 Employees]
Technology/ Service Provided	→ Motor Service ↳ Repairing
Major OEM's/ Supplier dealing with	-
Areas/Locations Served or covered	Gujarat & states nearby
Name of the Dairy Units served by the LSP	Amul Fed Dairy
Support Needed if any (in terms of technology, skill development etc)	→ EE in motor → Best Practices in casting → HE ₂ & SF ₆ motor

LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	  
Address	
Contact Person Name	
Designation	
Mobile No.	
Email ID	
Existing Skill set?	15 - Non skilled & Skilled
Education Level?	
What are your area of services?	All over India.
What type of Industries you cover ?	Dairy, Chem & Pharma
Type of challenges faced?	Market Challenge
Type and name of OEM you work with?	Here Dealers
New areas you would like to learn?	EE in Compressor.
Areas in which training is required ?	Screw Compressor
In which Language Training material is required?	English
Is training material required in soft or hard copy?	Either or them
Expectation from the Project?	
Suggestions/Remarks:	

LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	
Address	
Contact Person Name	
Designation	
Mobile No.	
Web ID	
No. of years in existence	25 [15 Employees]
Technology/ Service Provided	Air Compressor - Rusproudy Vacuum Kumps
Major OEM's/ Supplier dealing with	Have dealers for supplying
Area/Locations Served or covered	
Name of the Dairy Units served by the LSP	Mehranpur Dairy & some plants
Support Needed if any (in terms of technology, skill development etc)	<ul style="list-style-type: none"> • Servo Compressors - Latest Technology. • New Compressed Air Solutions



LSP Data Collection Format for GUJARAT DAIRY Cluster	
Name of the Local Service Provider	Anupam Renewable Energy Private Limited,
Address	Anupam Renewable Energy Private Limited, 138, GIDC, Vithal Udhyognagar, Anand, 388121, Gujarat, India. Tel : +91 2692 235210, ext.290 Website : www.anupamgroup.com
Contact Person Name	E. Avadhuth
Designation	Manager- Marketing
Mobile No	9913604355
Mail ID	mkt@anupam-arepl.com
No of years in existence	1
Technology/ Service Provided	<p>Hybrid renewable energy system designed and optimized for on and Off grid and On-Grid installations :</p> <p>The Solar Mill® is the world’s most complete renewable energy generation device. Instead of a footprint dedicated to a singular solution, Wind Stream Technologies’ engineers have designed a unique set of vertical axis wind turbines, added the highest quality solar panels, and a patented system of integrated electronics, to create a hybrid device with the highest energy density in the market.</p> <p>In an effort to provide more consistent energy generation than a “wind only” or “solar only” system, Wind Stream Technologies has developed a first-of-its-kind, fully integrated, “HYBRID” renewable energy product, The “Solar Mill®.” This helps in creating the greatest energy density of any product on the market. The hybrid concept of the Solar Mill® is unique, seamlessly integrating wind and solar energy generation in a single unit.</p>
Major OEM's/ Supplier dealing with	Wind Mill and Solar PV Modules.
Areas/Locations Served or covered	Pan - India
Name of the Dairy Units served by the LSP	Amul Dairy

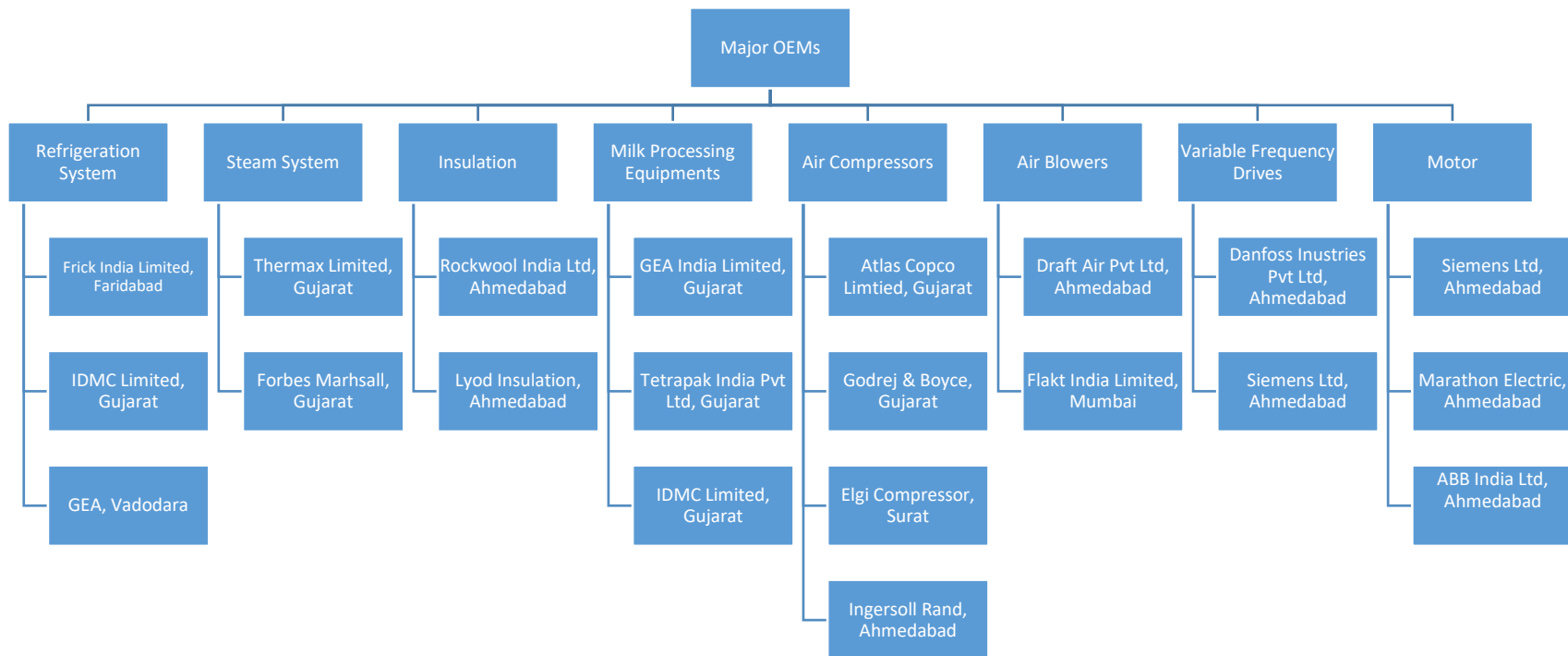
Support Needed if any (in terms of technology, skill development etc.)

Marketing Support and Product awareness .

LSP Training Need Assessment Form for Gujarat Dairy Cluster	
Name of the Local Service Provider(LSP)	Anupam Renewable Energy Private Limited
Address	<p>Anupam Renewable Energy Private Limited, 138, GIDC, Vithal Udhyognagar, Anand, 388121, Gujarat, India.</p> <p>Tel : +91 2692 235210, ext.290 Website : www.anupamgroup.com</p>
Contact Person Name	E. Avadhuth
Designation	Manager- Marketing
Mobile No	9913604355
Email ID	mkt@anupam-arepl.com
Existing Skill set?	Technical
Education Level?	Graduate
What are your area of services?	Renewable Energy, On-Grid & Off-Grid systems
What type of Industries you cover?	All Corporate, NGO Trusts, Institutions etc.
Type of challenges faced?	Promotion of Technology
Type and name of OEM you work with?	Energy Efficient
New areas you would like to Learn?	About Energy Savings
Areas in which training is required?	Technicality of the Product
In which Language Training material is required?	English
Is training material required in soft or hard copy?	Soft

Expectation from the Project?	Market Promotion
-------------------------------	------------------

Annexure 2 – List of Major OEMs in the cluster



Annexure 3 – List of LSPs in Gujarat Dairy Cluster

SI No	Name of LSP (Dairy Equipment)	Phone No	Website	Location	Services Provided	Year of Establishment	No of Employees
1	Aviva equipment Pvt Ltd	98253 04691 99090 15696	www.avivaequipments.tradeindia.com	E-503, Titanium City Centre, Nr. Sachin , Tower, Anand Nagar Road, Satellite, Ahmedabad	AC Motor Driven Double Cluster Milking Machine , Automatic Milk Collecting Systems (AMCS), Bowl Type Weighing scale, Bulk Milk Cooler Milk Measurement & Monitoring	2007	18
2	Mahesh Engineering Works	7622020350 76220 20355 76220 20359	www.maheshengworks.com	Block No 817/1, Plot No 3 Opp. Sun Agro Export, Near Patel Airtemp, Before Kothari Cross Road,Village Rakanpur, Tal : Kalol, Distt. Gandhinagar	Cream Separator Machine, Manual & Electrical Milk Cream Separator Machine, Manual & Electrical Milk Fat Testing Machine, Stirrer (Valona) & other Dairy Equipment	1985	20
3	Taj Sigma	98989 87968	awww.tajsigma.com	503-Shapath V, S G Road, Ahmedabad, Gujarat, India	Homogenizer, Pasteurizing Plant, Plate Chiller, Ice Cream Freezer, BMC, Cream Churner, Ice Cream Plant	1967	15
4	Ashtavinaya Technocraft Pvt Ltd	79 2290 0582, 2970 0237 9377 548845, 9426 048845	swww.ashtavinayaka.com	Plot No. 388, Road No. 9, G.I.D.C. Kathwada, Ahmedabad	Pasteurizing Plant, Ice Cream & Ghee & Paneer Equipment's, Milk Storage Plants	2002	30

LSP Mapping Report

SI No	Name of LSP (Boiler & Steam System)	Phone No	Website	Location	Services Provided	Year of Establishment	No of Employees
1	Balakrishna Boiler	9727452487	www.indianboilers.com	Plot No. 78/8, GIDC Vatva, Opp Abad Bread, Ahmedabad	Boiler, Thermic Fluid Heater, Hot Air Generator, Boiler Accessories, Burner	1992	22
2	Thermal Engitech Pvt Limited	9824555431, 9714777677, 08079466159	www.industrial-boiler.net	119, GVM, Odhav Ring Road , Ahmedabad - 382415	Biomass Boiler, Thermic Fluid Heater, Hot Air Generator, Air Pre heater	2011	
3	Indtex Boiler	9825015168	www.indtexboiler.com	Plot No1601, Phase 1 GIDC, Naroda, Ahmedabad	Steam Boilers, TFC, Burner	1989	25
4	Rajdeep Boiler	+91 90998 98985	www.rajdeepboiler.co.in	I/17-18-19, Road No. 6(I/A), G.I.D.C., Sachin, Gujarat	Boilers, Pressure Vessels, Thermic Fluid Heaters, Boiler Equipment's	1999	
5	Hitech Boiler	+91 98795 31204	www.hitechboilers.in	Plot no.361, GIDC Estate, Manjusar, Taluka, Vadodara	Boiler, Thermic Fluid Heater, Hot Air Generator, Boiler Accessories Condensate Recovery, Hot Water Generator	1998	25

SI No	Name of LSP (Refrigeration)	Phone No	Website	Location	Services Provided	Year of Establishment	No of Employees
1	Rang Refrigeration and Engineer	98257 08048, 95863 68081	www.rangrefrigeration.in	A/7, Akshardham Estate, Near Panchratna Estate, Phase-IV, G.I.D.C., Vatva Ahmedabad - 382445, Gujarat, India	Refrigeration Compressor and parts	2007	25
2	Gauri Engineering Works	98988 00917, 98984 95216	www.gauriengineeringworks.com	SHOP. NO. 18-19, GHANSHYAM ,ESTATE, NR. MARGHA FRAM, BH. LAL BHADUR SHASTRI STEDIYAM, VIRATNAGAR ROAD, BAPUNAGAR,	Refrigeration Compressor and parts	1992	
3	HEMS Industries Pvt Ltd	9978609640 /9978609641	www.hemsiindustries.com	9 Barsezona Industrial Estate, S.P. Ring Road, Odhav,Ahmedabad-382 415 Gujarat (India)	Refrigeration Compressor and parts	1988	50
4	Ice Make Refrigeration Ltd	9879107881, 9879107884	www.icema keindia.com	Survey No. 226/227, Dantali Industrial Estate, Gota -Vasdar Road, Gandhinagar	Cold Room or Cold Storage Room, Refrigeration Unit, Chillers or Chilling Plants, Milk Cooler	1989	200
5	Pranam Engineering	9979867347		A405, Neelkanth palace, Satellite, Ahmedabad	HVAC Systems	2003	70
6	Swati Engineering	9016507387	www.swatiengineering.net	Swati Engineering Enterprise, 20 2nd Floor, Sree Krishna Center, Mithakali , Navarangpura, Ahmedabad	Refrigeration Compressor parts	1984	4

LSP Mapping Report

Sl No	Name of LSP (Heat Exchanger)	Phone No	Mail ID	Location	Services Provided	Year of Establishment	No of Employees
1	Tru Fab Engineer	94266 35250 +91 98259 02658	info@pyron engineering. com	B-121, Silicon Valley ,Shivranjani Cross Road, Satellite Road, Ahmedabad	Heat Exchanger, Air Receiver, Storage Tank	1985	5
2	Sondex Heat Exchangers Pvt Ltd	2667-267000	sales@sond ex.in	E/1, GIDC – SAVLI, P.O. MANJUSAR 391775, TALUKA : SAVLI, DIST. VADODARA,	Plate heat exchangers, standard plate heat exchangers, semi- welded plate heat exchangers	2008	30
3	Rex Heat Exchange India Pvt LTD	9974176693	response@r exheatexcha nger.com	246-A, 2 nd Floor,Atlantis K-10 – Tower “A”, Opp. Vadodara Central mall,Sarabhai main Road, Alkapuri, Vadodara	Shell & Tube heat exchanger, U tube bundle heat exchanger, PHE, condenser		

Sl No	Name of LSP (Industrial Burner)	Phone No	Website	Location	Services Provided	Year of Establishment	No of Employees
1	Pyron Engineers Pvt Limited	09227256121	www.pyron engineers.co m	B-121, Silicon Valley ,Shivranjani Cross Road, Satellite Road, Ahmedabad	Industrial Burners, Valves and Other Products	1996	8
2	Shukla Enterprise	079-26821302 09714014433	www.shukla enterprise.c om	A – 224, Shreyas Complex, Nr. Axis Bank ATM, Vejalpur, Ahmedabad	oroflam burners, gas burners, oil burner, dual fuel burners, uret burners. Oil, gas, heavy oil & dual fuel burners	1998	10
3	Energy Combustion	8071684033 9998018875	www.energy industrialbur ners.com	31, Yash Vijay Soc Opp Sharda School, CTM , Cross Road Ramol, Ahmedabad	boiler ignition transformer, annealing treatment burner, industrial monoblock burner, gas sequence controller	2002	

LSP Mapping Report

4	Nirmal Energy Limited	9825804927	www.nirmalenergy.com	402, ISCON Elegancem Near Jain Temple, Ahmedabad	Pumps, Burners, Heat Transfer Fluids	1999	26
---	-----------------------	------------	----------------------	--	--------------------------------------	------	----

Sl No	Name of LSP (Thermal Insulation)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Vardhman Insulations Pvt Ltd	7043219702		402, Kalasagar Shopping Mall, Opp. Sai ,Baba temple, Nr. Sattadhar Cross Road, Ghatlodia, Ahmedabad – 380061	Acoustic Insulation, Cold Insulation, Hot Insulation, Injectable PUF Insulation, Spray Insulation Turbine Insulation, G.I/S.S Ducting Works	2010	50
2	Gujarat Corporation Insulation	9825020726	www.gujaratinsulation.com	171, 172, 2 nd Floor, Chetan Cloth Market, Out Side Sarangpur , Gate, Ahmedabad-380001, Gujarat, India	Ceramic Wool, PUE, Rockwool insulation	1987	50+
3	Sheth Insulation Private Ltd	8079464420	www.shethinsulations.com	No. 402/B, Phase- 2, G. I. D. C., Vatva,Ahmedabad	Glass Wool (White, Loose), Mineral Wool (Slag Wool), Thermocol (Sheet / Pipe Section), L.R.B. Mattresses, Rock Wool Slabs, Cerawool	1983	25
4	Natraj Insulation	8079447496	www.jacketinsulation.com	No. 317, Navarang Complex, Raopura,Vadodara	Band Heater Jacket, High Temperature Insulation Jacket, Industrial Insulation Lagging, Insulation Jacket, Insulation Mattress, Roofing Insulation	1992	8
5	Sukan Insulation	9825779596 9712327656	sukaaninsulation.in	No. 21, Shyam Hari Estate, Plot No. 3202, Phase-IV,Vatva GIDC, Ahmedabad	Ceramic Fiber, Ceramic Fiber Boards and Ceramic Fiber Blanket	2003	

LSP Mapping Report

SI No	Name of LSP (Biomass Gasifier)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Ankur Scientific Energy Technologies Pvt Ltd	265-2793098	www.ankurscientific.com	'Ankur', Near Navrachana School,Sama, Vadodara	Biomass Gasifiers	1986	250

SI No	Name of LSP (Energy Management System)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Ecolibrium Energy	7940165151	ecolibriumenergy.com	504, Venus Atlantis, 100 ft Road, Prahlad Nagar, Ahmedabad	EMS		20
2	V B Tech Automations	82382 49845	vbtechautomation.com	54, Akshar Industrial Park, Near Hathijan Circle, B/H Vatva GIDC Phase IV,Vinzol, Ahmedabad	EMS		15

SI No	Name of LSP (Electrical Control Panel)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Dynamic Control Systems	079 22890011 9898000163	www.dcspanels.com	L-535/1 G.I.D.C. Estate Near Post, Office, Odhav,, G I D C Industrial Area, Odhav,	Power Control Centre, Motor Control Centre, PLC Panel, Drive Control Panel, AMF Panel, DG Synchronizing Panel	2008	60

LSP Mapping Report

4	Power Control	9904004123	info@powercontrol.com	503, Ashwamegh Elegance, Ahmedabad	Electrical, plumbing and HVAC	1998	18
5	Power Tech Systems	9624024196 9624067778	www.ptssurat.com	UG 21, SHREENATH COMPLEX, OPP JEVAN JYOT CINEMA,UDHNA MAIN ROAD Surat	Drive panels, PLC panel, machine control panel, PCC, MCC, APFC, Distribution board, junction boxes, Desk panel	2001	15
6	Electro Control Systems	281-2377288	www.electrocontrolsystems.electrogroups.org	Plot No. 1123,Aji Industrial Area,80 Feet Road, Nr. Accurate Weighbridge, Rajkot	electrical control panel, ht panel, lt panel, vcb panel, mcc, pcc, feeder piller, amf, apfc,	1999	35
7	Elecon	9909907871	www.elecon.com	12, 2 nd Floor, ShreeKrishna Center, Navrangpura, Ahmedabad	Power Transmission Product, Gear Boxes	1951	500+

Sl No	Name of LSP (Agitator)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Shree Virkrupa Engineering	9426501853	www.agitatormanufacturer.com	Plot No.B-63, Bileshwar Industrial Estate, Opp.Vepari Maha Mandal,Nr. Kathwada , G.I.D.C, Saradar Patel Ring Road. Odhav, Ahmedabad	Mixing Tanks with Agitators, Air Headers, Screw Conveyors, washing System & Material Weighting System	1983	20
2	J M Engineers	8071682474		Plot No 143, Opposite Patel Alloy, behind New Post Office, Phase 1 GIDC Vatva, Ahmedabad	heat exchangers, filtration, evaporation equipment's, drying equipment's, energy	1997	

LSP Mapping Report

					efficient agitation & process equipment's		
--	--	--	--	--	---	--	--

SI No	Name of LSP - Motor Service	Phone No	Email ID	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Jay Ambe Electric Service Center	9376671071	jayambeelectric@yahoo.co.in	C84,Kailash Industrial Estate, Girnar Scooter Chokadi, Sardar Patel Ring Road, Odhav	Motor Repair and rewinding		15
2	Monpara Electric and Motor Rewinding	9726518619		Shop No. 2, Jolly Shopping Centre, SV Road No. 10, Udhana GIDC,Hari Ichchha Industrial Society, Udhna Udhyog Nagar, Udhna, Surat	Motor Repair and rewinding		
3	Patel Electric & Motor Rewinding	99981 48319		Shop No.7, Gopinath Complex, Varachha Main Rd, Himat Nagar Society, Purvi Society, Hirabaugh, Surat			
4	Shivam Electric Service	93277 09893	pendharkar3860@gmail.com	16, Deepu Complex, Sama Rd, Below Kalyan Hall, Opposite SBI Bank,Anandvan Society, New Sama, Vadodara			

SI No	Name of LSP (Air Compressor)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
-------	------------------------------	----------	---------	----------	---------------------------	-----------------------	-----------------

1	Dew Air Compressor	79 227 40916 90 333 65767	dwww.dwar keshenginee ringworks.co m	1,Bharat Estate Opp. Soneria Block-, General Hospital Road, Rakhial, Ahmedabad	Air Compressor		
2	Gajjar Compressor	9426051482	www.aircom pressorindia .com	Plot No.5319, Phase IV, Opp.Ramol Police ,Chowkey,B/h.Windsor Ltd, G.I.D.C.,Vatwa, Ahmedabad	Single Stage/Two Stage Dry Vacuum Pumps, Single Stage/Two Stage Compressors, High Pressure Air Compressor, Water Cooler Lubricated/Non Lubricated Compressors,	1990	15
3	Zen Air Tech Pvt Ltd	91-79-2281 9821	zenairtech.c om m	CM-14, GIDC, Estate Naroda, Ahmedabad	High and Low Pressure Air Compressors, Auto Drain Valves, Moisture Separators, Air Rceivers,Aftercoolers, Filters	1995	50
4	Venus Compressor	9825200073 / +91-9909922752	www.venusc ompressor.c om	60/3,Diamond Industrial Estate, N.H.8.Nr.Unnati Industrial ,Corporation, Nana Chiloda,Naroda,Ahmedabad	air compressor, screw compressor, industrial air compressor, air booster compressors, double stage low pressure air compressors	1996	11

Sl No	Name of LSP - Fans and Blowers	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Fan Tech Industries	9376151120, 9925171120	www.fantech ind.com	No. 8, Khodiyar Estate, Near Shakriba Industrial Estate, Phase- IV, GIDC, Vatva, Ahmedabad	centrifugal fan, industrial blower, pulse jet bag filter & dust collector systems	2008	

LSP Mapping Report

2	Draft Air Pvt Ltd	09998946195	www.draftair.com	3702 - B & C, Phase-IV, B/h. New Nirma, GIDC, Vatva, Ahmedabad	Conditioning, humidification, and ventilation system, fans and blowers, air pressurization system	1995	200
3	Lakhi Blower	9825869605 9825209605		J-3003, 4th Phase, GIDC Vapi-396 195. Dist. Valsad, Gujarat	Industrial Blower, Dust Collecting System, Centrifugal Blower, Cyclone Scrubber, Mechanical Handling System, Air Pollution Control System	1994	10
4	Mittal Engineering	99795 34374	info@mittalblowers.com	Plot No. 429, Rd Number 11, Kathwada GIDC, Odhav, Ahmedabad			

SI No	Name of LSP (VFD)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Power Tech System	8079456238 9824320976 79-65242588	www.powertechsystem.org	No 22 23, Shukan Mall, Near CIMS Hospital, Science City Ahmedabad	Inverter, UPS, and Industrial Automation	1999	25
2	AC Tech Control system	8048601211 8128680813	www.actech-drives.com	B22 A22 1st Floor Meddy Estate, Neat Gota Railway Crossing, Gota	Inverter, UPS, and Industrial Automation	1998	35
3	Amtech Electronics India Ltd	91-79-23289101,23289102, 23289103	www.amtechelectronics.com	E-6, GIDC, Electronics Zone, Gandhinagar - 382 028,	Soft starter, automatic voltage regulator, harmonic filters, servo motor & controller, passive harmonic filter	1991	74

SI No	Name of LSP (Solar PV and Thermal)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
-------	------------------------------------	----------	---------	----------	---------------------------	-----------------------	-----------------

LSP Mapping Report

1	Zodiac Energy	9879106443	zodiacenergy.com	A-1204, Siddhi Vinayak Towers, Near DCP Office, Beside Kataria Auto Makarba, S. G. Highway - Ahmedabad	Solar Power system and Solar Heaters	1992	40
2	Euro Solar System	8071808593	www.euroolarsystem.in	SF-2, JBR Arcade, Opposite Axis Bank Science City Road, Sola, Ahmedabad	Home lighting system, solar pv mw project, solar pv km project, on grid & off grid roof top projects, solar water heater	2011	40
3	Urmi Solar	9426616303 9426010911	www.urmisolar.com	Plot No. 5208, Phase IV, Road No. T-1, G.I.D.C Vatva, Ahmedabad	Solar water heating systems, solar equipment's,	1988	25
4	Trom Solar	(079) 23288187	www.tromsolar.com	B-53/A, Electronics Estate, Sector - 25, Gandhinagar	Solar panel, solar street light led, solar street light cfl, solar lantern, solar home lighting system	2011	
5	Solex Energy Pvt Ltd	90992 36367,90992 64643	http://solex.in	Plot No 131/A Phase 1, GIDC, Vithal Udyognagar	Solar Power system and Solar Heaters	1998	

SI No	Name of LSP – Cooling Tower	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Crystal Cooling Towers Pvt Ltd	9824013727	www.crystalcoolingtower.com	B-1, Kailash Nagar Estate, Opp. Punjab National, Bank, Bombay Conductor, Phase-1, G.I.D.C. Vatva, Ahmedabad	Cooling Towers and Chilling Plants	1983	5
2	Atech Cooling Towers	2646-227231 2646-250302	www.artechcoolingtowers.com	Plot No. 5021, B/h, Meghmani Organics, G.I.D.C., Ankleshwar - 393 002,	Induced Draft FRP Round Cooling Tower, Induced Draft FRP Square cooling tower, Fanless Finless (Zero maintenance)	1987	

LSP Mapping Report

					Induced Draft Cooling Towers		
3	Advance Cooling Tower	(022) 26001067	www.advancedcoolingtower.com	405-406, Span Center, R. K. Mission Marg	Industrial Cooling Towers, FRP Cooling Towers, Cooling Towers, Components of FRP Cooling Tower	1982	50
4	Southern Cooling Towers Co Ltd	9662507396 0265 3204178	www.southerncooling.net	Survey No. 47, Refinery Char Rasta, Bajwa, Vadodara	FRP Cooling Towers, Timber Cooling Towers and RCC Cooling Towers	1980	200





SI No	Name of LSP (Motor)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
1	Elcen Machines	265 2642001 / 2634777 / 2648501	www.elcen.com	270, G.I.D.C. MAKARPURA, VADODARA-390010. GUJARAT. INDIA.	Three phase motors, dual speed motors, flange mounted motors, face mounted motors & brake motors	1973	20
2	NBE Motors Pvt Ltd	9327049213	www.newbharat.com	Shed No. 1 TO 7, Tirupati Estate, Opposite Bombay Housing, Everest-Milan Road, Saraspur, Ahmedabad	Single phase ac motors, three phase ac induction motor, vertical flange and foot mounted motors	1981	70
3	Rotomag Motors and Controls Ltd	92271 10023/24/25	info@saikrupaelectricmotor.com	870/17, G.I.D.C. Industrial Estate, Behind Himalaya Machinery, GCEL Road, Makarpura Vadodara	Different types of motors AC	1900	33

SI No	Name of LSP (Pump)	Phone No	Website	Location	Product/Services Provided	Year of Establishment	No of Employees
-------	--------------------	----------	---------	----------	---------------------------	-----------------------	-----------------

LSP Mapping Report

1	Nirmal Energy Systems	079 2692 3170	www.elcen.com	402, Iscon Elegance, Near Jain Temple, Prahladnagar Cross Roads, S.G. Highway, Ahmedabad	Domestic Pumps, Industrial Pumps and HVAC Pumps	2002	15
2	Acquitech	9824058551	www.acquitech.com	A-407, 4th Floor, Premium House, Near Gandhigram Railway Station, Ashram Rd, Navrangpura, Ellisbridge, Ahmedabad	Pumps and Steam Valves	1990	
3	Earth Care Equipment's Ltd	9825591731 , 7405 731731	www.nayan corporation.com	Shop No 8, Naroda Road, Ahmedabad - 382330, Near Sindh Petrol Pump opposite Fruit Market Vijay Mill	Lubi Pump, Centrifugal Pump, Pressure Pump		
4	Goodluck Marketing	9879106503	www.oodluckmkt.com	106, HARIKRUPA CHAMBERS, B/H. NATIONAL CHAMBERS, NR. CITY GOLD CINEMA, ASHRAM ROAD, Ahmedabad	Submersible Pumps, Industrial Pumps	1984	10

Annexure 4 – Participant List of Stake Holder Workshop










Confederation of Indian Industry


Capacity Building of Local Service Providers Stakeholders Kick Off Workshop

Date: 13th November 2017 | Venue: FDI, Ahmedabad

List of Participants					
S.NO	Name	Company/Plant	Email Id	Mobile No.	Sign.
1	Kalpesh Parmar	Vidya Dairy	kparmar@vidyadairy.com	9371925136	
2	Ajay M. Zala	Vidya Dairy	amzala@vidyadairy.com	9377425125	
3	JT Bhat T Patel	Vidya Dairy	engineering@vidyadairy.com	9978180128	
4	Gopal S. Khankar	AMAR Dairy	gkhankar@amar.com	7001001895	
5	Abhishek B. Bhatt	AMAR Dairy	abhatt@amar.com	9727720949	
6	Vigash A. Shah	Amul Dairy	vah@amul.com	9729075966	
7	Hitesh J. Patel	Amul Dairy	hpatel@amul.com	9726515657	
8	Mansukh Panchal	Samul Dairy	mvp@samul.com	9824711750	
9	Bhavesh Mehta	AFD, Amul	bhavesh.mehta@amul.com		
10	Omesh D. Deshpande	Rasana Dairy	omesh@rasana.com	9929991157	
11	Nikunj K. Kotil	-	nikunj@amul.com		
12	Jaydeep Senariya	Sashad Dairy	jaydeep@senariya.com	9446011	
13	Shaitesh Solanki	Amul Dairy	shaitesh@amul.com	9978814602	
14	Parash Mehta	Amul Dairy	parash.mehta@amul.com	8347476668	
15	Ankit Patel	Amul Dairy	ankit@amul.com	9077920290	
16	Hitesh Mehta	Amul Dairy	hitesh@amul.com	9377312397	
17	Chandhy Shaitesh	Amul Dairy	chandhy@amul.com	9422776157	
18	Shashikant Pyram	Amul Dairy	shashikant@amul.com	9924127602	
19	Jitendra K Patel	Banas Dairy	jitendra@banas.com	9427209715	
20	Binit Bhavsar	AFD	binit.bhavsar@amul.com	9876149026	
21	Ajit K Rana	AFD	ajit.rana@amul.com	762102777	
22	Arun D Chaudhari	Dudh Sagar Dairy	arun@chaudhari.com	9974059270	
23	K D. Chaudhari	Dudh Sagar Dairy	kdc2@chaudhari.com	9926059270	
24	M M Chaudhari	Dudh Sagar Dairy	mrc@chaudhari.com	9374059277	
25	Abhijeet Kanchade	AKXA	abhijeet@akxa.com	9401256400	

   					
List of Participants					
S.NO	Name	Company/Plant	Email Id	Mobile No.	Sign.
26	Kohit Sharma	Attracting Tech.	kohitsharma@attracting.com	9980993600	[Signature]
27	Harmukh M. Chaudhary	Datta Industries	harmukh@dattda.com	9925321282	[Signature]
28	Ramesh B. Muralidhar	Datta Industries	ramesh@dattda.com	9824333753	[Signature]
29	Nitin C. Ramesh	Attracting Tech.	nitin@attracting.com	909902914	[Signature]
30	Mani Jindal	Attracting Tech.	mani.jindal@attracting.com	95041511	[Signature]
31	Ashok R. Sarda	Valspar Paints	ashok.sarda@valspar.com	7537200004	[Signature]
32	Dipak R. Sarda	Valspar Paints	dipak.sarda@valspar.com	9616356155	[Signature]
33	Prateek B. Ad	Valspar Paints	prateek.ad@valspar.com	767007163	[Signature]
34	Pranav R. Patel	Sabar Dairy	pranav@subardairy.com	9426282502	[Signature]
35	Chiranjit E. Patil	"	chiranjit@subardairy.com	9425878281	[Signature]
36	Dinesh B. Pawar	"	dinesh@subardairy.com	7670154112	[Signature]
37	Rajgar Pinakin	AED	rajgar.pinakin@aed.com	9301731881	[Signature]
38	Ankush V. Patil	AED	ankush.patil@aed.com	9420419004	[Signature]
39	Himanshu Mathur	AED	himanshu@yashwanth.com	9909153917	[Signature]
40	Avadhut E.	Anupam Labs	avadhut@anupamlabs.com	9712609311	[Signature]
41	Manideep Patil	AED	manideep@anupamlabs.com	9898792849	[Signature]
42	V.P. Mathur	AED	v.p.mathur@anupamlabs.com	7359803707	[Signature]
43	Gurav Desai	AED	gurav.desai@anupamlabs.com	9376631667	[Signature]
44	Prasad Jankar	AED	prasad.jankar@anupamlabs.com	977951118	[Signature]
45	SAHAY P SOLANKI	AED	sahay.p.solanki@anupamlabs.com	9808888805	[Signature]
46	Vikram B. Patel	Eatec Eng. Solns	vikram.b.patel@eatec.com	9708314822	[Signature]
47	Nikay Upadhyay	B-view global	nikay@bviewglobal.com	9925435776	[Signature]
48	Shawn Kanan	Yodan	shawn@yodan.com	9930858106	[Signature]
49	Talagan Pandya	SEE	talagan@see.com	9925190741	[Signature]
50	Pratikant Saha	AFDG	pratikant.saha@afdgc.com	7359243707	[Signature]

Annexure 5 – Workshop Agenda

    Confederation of Indian Industry		
Capacity Building of Local Service Providers – Gujarat Dairy Cluster Stakeholders Kick Off Workshop Date: 13th November 2017 Venue: EDII, Ahmedabad Agenda		
0915 hrs	Registration	
0930 hrs – 1050 hrs: Opening Session		
0930 hrs	Lighting of Lamp	
0935 hrs	Inaugural Speech	Shri A K Bayati GM, AmulFed Dairy
0950 hrs	Future Strategies of EE in Dairy Sector	Shri P K Sarkar OSD, Projects & Utility Amul Fed Dairy
1010 hrs	Activities in Gujarat Dairy Cluster so far	UNIDO
1030 hrs	General Aspects of Energy Conservation	Shri Prashant Sheth Sr. Manager Utility
1050 hrs	Introduction about the LSP project	Mr. Dinesh Ghai Senior Counsellor CII – Godrej GBC
1105 hrs	Health Break	
1120 hrs – 1140 hrs: Presentation by SIDBI on EE Financing		
1120 hrs	EE Financing for MSME – Criteria and Procedure	SIDBI
1140 hrs – 1300 hrs: Presentation by Technology Suppliers- Electrical System		
1140 hrs	Assessment & Mitigation of Process Fluctuation in Dairy	Aloxatech
1200 hrs	Light Pipe and Fiber Optics	E View Global
1220 hrs	Energy Efficient BLDC Ceiling Fans	Atomberg Technologies Pvt. Ltd
1240 hrs	kVAr Energy Compensator	Athena Cleantech
1300 hrs	Lunch Break	



1345hrs – 1520 hrs: Presentation by Technology Suppliers-Utilities

1345 hrs	Best Practices for Energy Efficiency in Utilities	CII – Godrej GBC
1405 hrs	Energy Saving Opportunities in Air Compressors	Godrej Electricals & Electronics Compressed air Solutions
1425 hrs	Energy Efficient Cooling and Heating – Heat Pumps	Thermax Ltd
1445 hrs	Vapor Compression System	Johnson Controls
1505 hrs	Health Break	

1520 hrs – 1600 hrs: Presentation by Technology Suppliers-Renewable Energy

1520 hrs	Solar Wind Hybrid System	Windstream Technologies Pvt.
1540 hrs	Bio Gas Generation	FOV Bio Gas / Ahuja Engineering

1600 hrs – 1630 hrs: Interactive Session

1600 hrs	Interactive Session, Discussions and Agreement on way forward
1630 hrs	Close