

Chapter 4

Survey and Problem Identified for GIDC (Lodhika)

Industrial Association

4.1 Introduction

GIDC (Lodhika) Industrial Association Represents Lodhika GIDC Estate, spread over 424 Hecter close to state Highway Number 23 & at the distance of 12 Km. from Rajkot city, the 4th biggest city in the state of Gujarat. The estate is equipped with the infrastructure facility required for the development of the industry. Being an ideal location for industry, at present 1000+ industries mainly Engineering, Forging, Casting, Plastic, Packaging & Printing, Food processing, etc. are situated in the estate and also generating employment of 60000+.

In GLIA Metoda industrial area total Members registered 1200 with 56 different categories, but only 89 units register as per category-wise registers out of 89 are not specified in his category but registered their industries on the portal. So, it's very difficult for to us be shortlisted category-wise.

GIDC (Lodhika) Industrial Association (GLIA) was established in the year1996 by industries located in Lodhika GIDC Estate to develop industry along with its estate. At present, it is having member strength of 1090. GLIA according to its objectives has been performing various activities like Industrial promotion, Development & maintenance of the infrastructure of the estate, Environmental, Social, and Educational, etc. Besides, it also looks after the cleanliness of the estate. Due to excellent activity by GLIA in this arena, the estate in both competitions was awarded as the clean industrial estate amongst all GIDC estates in the state.

Based on critical infrastructure projects implemented and the creation of certain facilities in the estate, GLIA caters various services with its maintenance i.e. supply of drinking water (Narmada), street light service, facility of the auditorium, conference hall, board room, product display house, industrial training to the existing employees of the MSMEs as well as unemployed youth. Besides, it has also created facilities to provide Fire brigade services 24x7x365 days, free dispensary, etc. It has been also organizing a Mega Blood Donation Camp in the estate to serve needy patients.

With the trust of its members and a clear vision, GLIA has succeeded to form the Lodhika GIDC estate as Model Industrial Estate, and because of that, it is recognized

as one of the best industrial estates in the state of Gujarat. METODA GIDC latitude longitude 22.2447° N, 70.6743° E, Rajkot coordinates 22.3039° N, 70.8022° E.



Figure 4.1: GLIA Metoda^[1]

In GIDC more than 1200 Units are present and require all units own ERP Server. And after the covid-19 period, almost all fields like education, manufacturing, field, i.e. all are required to do boundary-less work, and any were to access location CCTV camera ERP and related its facility.

Metoda GIDC also Expands to Khirasara side, its new name for Khirasara GIDC its distance near about 9 min (6.3 kilo meter) via Kalavad Road, Rajkot Road and Vada Road. The starting or developing time to GIDC it's very difficult to develop all facilities, it requires time and if fully faze develop all facilities are available in the proper manner. Metoda GIDC are developed fully completed then if the data centre is placed in metoda so all redundancy and data centre basic technical requirement is filled. And also Wireless connection 10Gig or 40Gig Radio connection fore central connected to Khirasara GIDC and also individual units are connected to Metoda Data centre via Wireless Point to point connection. And also, khirasara GIDC is all units medium and small are used data centre facility in cheapest rates and 99% redundant connectivity, to develop company mas' production manufacturing.

In GLIA Metoda industrial area total Members registered 1200 with 56 different categories, but only 89 units register as per category-wise registers about 89 are not specified their category but register their industries on the portal. So it's very difficult for to us sot the listed category wise. I have a survey of 20 units that are not specified category and not listed above table. His list and technical survey details are mentioned below the table.

Sr.No	Category	Units
1	Agriculture Equipment	58
2	Alloy steel	56
3	Aluminium Extrusion	25
4	Aluminium Products and Aluminium Extrusion	75
5	Architectural Hardware	12
6	Automobile	35
7	Automobile Spares and Accessories	9
8	Batteries	2
9	Bearing Bushing and Spares	89
10	Building Hardware & Materials	38
11	Casting Foundry	78
12	Cement	6
13	Cement and Cement Products	9
14	Ceramic & Flooring Materials	8
15	Chemical	11
16	Dies Moulds Jigs and Fixtures	9
17	Diesel Engine and Spares	18
18	Drug Pharmaceuticals and Herbal Products	16
19	Earth Moving Generators and Industrial Parts	8
20	Electric and Electronics	11
21	Electric Motor Pumps and Spares	24
22	Fabrication	19
23	Fashion Accessories Garments and Cosmetics	8
24	Fasteners Nut Balls Screw and Stud	36
25	Fire Safety Products and Equipment	7
26	Food and Beverages	27
27	Forging	8
28	Foundry Raw Materials	7
29	Furniture	12
30	Gases	2
31	Heat Treatment	2
32	Job Work	106
33	Kitchenware and Home Appliances	21
34	Liner Sleeves And Blocks	8
35	Lubricant Oil	7

36	Machine Tools	14
37	Marbles and Granite	6
38	Metal Perforated and Expanded Sheet	8
39	Modular Railing	11
40	Oil Edible and Raw Materials	18
41	Wire And Bright-Round Bar	16
42	Packaging and Packaging Materials	9
43	Paint Colour and Varnish	3
44	Pipe and Pipe Fittings	24
45	Plastics and Plastics Raw Materials	17
46	Plastics Processing Machinery	18
47	Printing and Stationery	31
48	RADIATORS	7
49	Refrigeration and Manufacturer	12
50	Renewable Energy	15
51	Rubber and Rubber Products	32
52	Soap Detergent and Oil Soap	26
53	Surgical Dressing Parts & Equipment	5
54	Valve and Valve Guides	21
55	Watches and Clocks	5
56	Others	35
	Total Industries Units	1200

 Table 4.1: GLIA Metoda industrial Units ^[3]

4.2 Visit GIPL (Guj Info Petro Ltd.) Data Centre Gandhinagar

Guj Info Petro Ltd is a Government of Gujarat Undertaking pioneer in satisfying the state's energy needs and has risen to the technical development software and colocation data centre. It's helpful and mandatory infrastructure has currently driven it to enter digital landscapes, which has controlled the construction of Guj Info Petro Ltd. (GIPL). In a very short time frame, Guj Info Petro Ltd. has successfully established itself as one of the primaries of Gujarat. GIPL provides information technology Project Consultancy and Facility Management Services as a Total Solutions Provider, and Nodal Agency to significant Enterprises, Educational Institutions, and Government Departments.

Visited on the date of 29th October 2020 GIPL Data center located on Gandhinagar, IT HUB, and Tower-1. This is a Government data centre to provide Cloud data centre services in Government University located in Gujarat. As per security reasons, he cannot provide any information on written but he explained orally for data centre related information. The first major part of data centre is the location to choose a location that is safe and secure natural and artificial. A second major part of the data centre is physical security. To provide data centre safe for any human attacks. The third one is

virtual security for the internet throw attacks on the data centre. Forth is monitoring 24x7x365 days. The monitoring of all things in the data centre like power, cooling, internet, server, usage of data, vulnerability, attacks, etc. The data centre has one ISO 27001 2013 this is a security certificate required. Air cooling at 25 to 28 temperatures require. 7 42U rack, One rack dedicated to networking, 3 shift, One Power Line, One DG, 2 UPS 14KVA, and One 80Mbps ILL. As per our discussion the DC are designed as per the requirements/services expected of the client.

4.3 Visit Sheela Foam Data Centre

On dated 23rd April 2022 Online Visit to the data centre of Sheelafoam ltd is Noida based Polyurethane foam-based company last 1971. It is a sub-branch company STAQO world Pvt. Ltd. its IT solution provider company its software as well as cloud data centre solution providers worldwide. Sheela foam Data centre Noida visited online virtually. 1000 square fit space with container-based rack solution, total 10+10=20 rack with inbuilt ups and air cooling with censor and safety features. Tier 2 data centre with 600 Mbps ILL leased line. Each container 10kva power capacity. Two power supply, AC, Diesel generator, and internet leased line provide leased line included malware and some anonymous protection. Sophos firewall, Aruba Network solution. Two security people with one IT Employee sifts wise to monitor 24x7. Dell EMC rack server. Physical verification and register entry, biometric access with CCTV camera monitoring.

4.4 Request to Provide Permission Google Data Centre Visit

I contact Telephonic contact Salesperson working in Google Data Centre. I request to will arrange any Indian located data centre visit and give technical information about data centre, but Google Data Centre Policy he can't share information, or visit the data centre, also he cannot share the google data centre location for security reasons.

4.5 Visit Centre of Excellence GLIA-METODA

The Centre of Excellence is the Central facility for the metoda Industrial association to provide all activities, meetings, and rules and regulations are discussed and applied to this centre. This centre is also provided to display facility for industries production items and provide training to an employee for skilled. If the data centre is deployed to her so all industries are trusted for security and agree.

The facility are central Auditorium Capacity is 266 seats with the latest facility of the audio-video system and air conditioning, etc. at CoE. The Conference hall Capacity of

30 seats with the latest facility of the audio-video system and air conditioning, etc. The board room and administrative office of GLIA with the latest facility are accommodated in centre. Product display facility to showcase the product manufactured by industry located in the estate. The skill development centre was established and activated by GLIA in the year 2018 with the purpose to improve the skill of existing MSMEs employees and also train Unemployed youth to enable them to work in the industry. With training activities, the centre also makes effort to the placement of trainees in the industry. The center is also approved by the State Government.

Another facility of GIDC (Lodhika) Industrial Association (GLIA) Metoda. Emergency centre GIDC (Lodhika) Industrial Association. GIDC Lodhika Industrial Association has well-known in the Rajkot Saurashtra region, its alternative centre namely Robin Seva Sadan for provided emergency services like a fire team in real estate as well as neighbouring areas. Free dispensary GLIA in relationship with Shree Swaminarayan Gurukul Rajkot has made the facility to provide the local services of the free dispensary to the civilization.

GLIA has been providing the following services. The water supply services project of the estate is exclusively managed by GLIA. It distributes drinking water every day. As of date, 1200+ water connections is released to members of the estate. Street light services this project is also managed by GLIA. It provides street light services in the estate. It has become very useful for safety and security purposes. Accommodation for meetings and events etc. for the organization of the meeting, seminar, conference, etc. GLIA provides the facility of Auditorium, Conference hall, meeting hall, etc. in CoE and 'Decora Bhavan.

Dustbin lifting services to maintain estate neat and clean GLIA provides services for the lifting of solid waste dustbins from industry to outside. Fire brigade GLIA has established an emergency centre namely Robin Seva Sadan through which fire brigade service is being provided 24x7 hrs. GLIA metoda nearest Private facilities have been providing the following services. Hospitals, restaurants, Resorts, Temple, Petrol pumps, Banks, Post offices, schools, Shops, Residential Places, Electricals, Cloths, Hair saloon, Courier and Transportation services, etc.

4.6 Visit GLIA and Understand his Requirement

- GIDC (Lodhika) Industrial Association (GLIA) Metoda, Industries can't trust any Clod Data Centre provider for data security.

- Industries require 100% data control but data storage on clouds it's dependent on the Services provided.
- Cloud data centre are can't provide data after 10 GB of Storage and get meter charges. And our data are locked to his server.
- If we are used thousands of MB of Data stored in the Cloud then he will be permanently charging.
- Start-up/new Development/Website Hosting are reliable to Cloud Data Services.
- Industrial Use ERP/SAP and his application usage are limited location and users so he's not preferred Cloud.
- Any Application related services are not preferred on Cloud because his charges per MB/GB Data usage and also Bandwidth are pay meter charges.

4.7 Online Survey for Data Centre Questionnaire

The online survey created on google form for covid-19 are there so industries are total shutting down and business is surviving in this time the industries can't support any further help, industries also saving money so unnecessary expense cant effort. At this time I have many issues to convey for data centre-related survey questions and also request to talk telephonic and discussion about it facility is how to use and minimum expense. Then and then out of 1200 units many of the nearest to shutdown potion and some are surviving in this situation more than two hundred of industries are supported to positive replay and as per below table, I collect data for our research work analysis.

Sr. No	Online Survey Questions	Answer	Ratio
1	Do you need a data centre?	No	58
		Yes	49
2	Where do you want the data centre to be located?	On-Premises	82
		Cloud Data centre (Online)	25
3	From your point of view, the data centre is secure	On-Premises	85
		Cloud Data centre (Online)	21
4	From your point of view, managing a data centre is easy	On-Premises	80
		Cloud Data centre (Online)	26
5	In your opinion, the data centre is cheaper	On-Premises	78
		Cloud Data centre (Online)	29
6	In your opinion, your control over the data centre will be better.	On-Premises	87
		Cloud Data centre (Online)	19
7	It does not matter to you how long your server or ERP stays down or off	Less than one hour	40
		Less than two hour	30
		Less than three hour	17
		Less than four hour	8

		Less than five hour	9
		Cant effect	3
8	How many employees' works in your company.	12 Hour Shift	84
		24 Hour Shift	21
9	Employees from outside your company should also be able to use the server?	No	73
		Yes	34

Table 4.2: Online Survey for Data Centre Questions

In this survey I concluded to the industries do not require any data centre or costly solution for their ERP-related solution they need only local solutions to provide reliable services for industrial usage. The industries can't afford its related expense and he requires the technology working on his industries time and most cases industries only towel horse working few of our manufacturing industries are working on twenty-four hours.

4.8 Online Survey for which Types of Data Centre are you Preferred

Another online survey was done on which type of data centre is preferred to industries the mainly on-premises data centre are preferred industries because their critical information of data is required or safe with on-premises so they can't place outside of industries. But today clouds are there but industries can't trust data security and privacy of their data. The cloud is the party server rental provider so it's cant reliable for data security reasons. In this survey, I offer proposed town data centre services to the nearest GIDC geographical location and industrial are also positive replay. Industrial is expected to if and data centre are please in nearest to us and provide a cost-effective solution for the data centre. Its trust when any data centre is physically view vied on his front of.

Sr. No	Which type of Data Centre are you Preferred	Survey Report
1	Cloud Data Centre - this off-premises data centre provide services to applications are hosting by cloud services provider such as Amazon Web Services, IBM Cloud, Microsoft (Azure), or other Private Cloud Services Provider.	15
2	Hybrid Data centre - A hybrid data centre means mixed computing and storage environments. Adoption of a hybrid IT infrastructure environment combines the benefits of on-premises data centres, private cloud, and/or public clouds services.	10
3	On-Premises - These data centre are built maintained, and operated by the companies and are optimized for their users. Furthestmost often they are housed on the corporate campus.	71
4	Town Data Centre - TOWN data centres are smaller facilities located close to the Industrial area they serve that deliver Data centre facilities to industries.	115

Table 4.3: Online Survey for which type of Data Centre is Preferred to Industries

4.9 Online Survey for On-Premises and Cloud Data Centre Compared

In this survey, I collected data for on-premises and cloud data centre services comparison, in this online survey, most preferred the on-premises data centre. The single latency of data centre connection security purpose, customization of server hardware in this industries no more require to auto-scale up hardware once a fix the server requirement then can't scale up. The industries are working in a different scenario so industries can't use full for cloud data centre.

Sr. No	On-premises and Cloud Data Centre Compared Survey	On-premises	Public Cloud
1	Data centre single tenancy (for compliance)	183	18
2	Highly secure data encryption	173	28
3	Customizable hardware, purpose-built systems	173	28
4	Capacity easy to scale up and down	153	48
5	Infrastructure requires large, regular investments	175	26
6	Pay-as-you-go, usage-based pricing	103	98
7	Complete data visibility and control	179	22
8	Built-in, automated data backups, and recovery	176	25
9	Near-zero downtime risk	175	26

Table 4.4: Online Survey for on-Premises and Cloud Data Centre Services Comparison

4.10 Offline Survey for Industrial units using on-Premises Data Centre Facility

Metoda industries are growing up and accept information technology day by day in the eighteen industries I visit personally on-premises and this all are using their server room with tier one data centre facility. This industries unit is using technology like 42U rack, server rack with free VMWare virtualization and firewall and central distribution internet LAN cable, CCTV Camera, and Wi-Fi. Online ups and air conditions are there. The main thing behind the on-premises server room is the industries mostly use SAP solutions and remain using CMS or ERP Software but local deployment provides zero latency with 100% SLA, which means the industries are working then and then the server room is also in working. But the main headache and expansion is third-party maintenance and support. Some industries are hiring a dedicated technician but his local-level troubleshooting provides, major issues are required for third-party solutions or hardware support teams.

Sr. No	Name of Unit	Internet technology	Technology Used	Server Details	Total End User	Server Type	Data Centre Site	RA CK	Online Users
1	Surelia Virecut	Broad band	Shree accounting	RACK Server	7	VMware Virtual	No	6U	No
2	GNA	Firewall	SAP	RACK Server Dell EMC 530	25	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
3	Gopal Snaks	Broad band	Tally accounting	Rack Server	12	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
4	Gopal Packaging	Broad band	Tally accounting	Rack Server	5	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
5	Vikram Valve	Broad band	Tally accounting	Rack Server	17	VMware Virtual	no	No	no
6	Shilpan Steel casting	Firewall	SAP	Lenovo RAM 64, 4 TB, 8 Core	10	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
7	Cast & Alloy	Firewall	SAP	Rack Server	11	VMware Virtual	Server Room	42U	Yes (Only the Owner

									are access to the outside)
8	QUBA	Firewall	Tally accounting	Rack Server	20	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
9	BALAJI MULTIFLEX PVT. LTD	Firewall	CMS	Rack Server	15	VMware Virtual	Server Room	42U	No
10	Angel Pump	Firewall	SAP	Rack Server	30	VMware Virtual	Server Room	42U	Yes (Only the Owner are access to the outside)
11	Jeppy Incridibal Snaks	Firewall	Tally accounting	Desktop Server	8	No	No	No	Yes (Owner and Remote site access allow)
12	Hathi Masala	Firewall	SAP	Rack Server	9	VMware Virtual	No	42U	Yes (Owner and Remote site access allow)
13	Pixon redefining Solar	Firewall	SAP	Rack Server	20	VMware Virtual	Server Room	42U	Yes allow employee
15	Pelican	Firewall	SAP	Rack Server	25	VMware Virtual	Server Room	42U	Yes (Owner and

									Remot e site access allow)
16	Jyoti CNC	Firewa ll	SAP	Rack Server	50	VMwa re Virtual	Server Room	42U	Yes (Owne r and Remot e site access allow)
17	MACP ower CNC	Firewa ll	SAP	Rack Server	34	VMwa re Virtual	Server Room	42U	Yes (Owne r and Remot e site access allow)
18	TurboC ast India Pvt. Ltd.	Firewa ll	SAP	Rack Server	27	VMwa re Virtual	Server Room	42U	Yes (Owne r and Remot e site access allow)

Table 4.5: Offline survey for industries unit using on-premises data centre facility

4.11 Proposed Town Data Centre for Small Industrial Area

Introducing Town Word

Several people, industries, and others use cloud or hybrid data centre, and some areas are using a premises data centre or server rooms. Indian government initiated and deploy each state data centres to provide a data centre facility for government agencies called a "state data center". A town is a human settlement. Towns are generally larger than villages and smaller than cities. "Same as the Town Data centre is larger than Server room or on-premises Data centre and smaller than Cloud Data centre or Hybrid data centre".

Towns normally have a good range of shops and facilities which are used by people from nearby villages. "Town data centre has more than one server facilities are used by industrial are from nearby town data centre" A town is usually a place with a lot of houses, but not a city. When they say "town" people are normally thinking of a big, important place. "Town Data centre is usually a place with a more than rack, but not a cloud or hybrid data centre" People in towns usually get money from industry, shops,

and public service. “Same as industries usually get data centre facility from the nearby industrial area”.

Sometimes a place is a city because it got the name "city" by law. However, people often call a place a "town" if it is small. “today scenario the cloud data centre name is very large and work internationally, however people often call a server room it is very small but the town Data centre is a larger than server room but smaller than cloud and hybrid data centre, it provides data centre services near the industrial area”.

Proposed Town Data Centre

Town data centres are smaller facilities located close to the Industrial area they serve that deliver Data centre facilities to end users. They typically connect to a wireless point-to-point connection to reduce latency and improve the customer experience.

Latency has always been a problem for data centre managers, End users and devices demand anytime access to ERP applications, and services and latency are no longer tolerable. GLIA Metoda industries are deployed on Premise's data centres to provide. As a high-performance and cost-effective functionality.

Proposed User for Town Data Centre

Currently, about 2% of industries are having on Premises data centres, around 90% of industries are using simple server-installed accounting software like, Miracle, Tally, Shree, and the rest of 8% are not using any facility. But by 2025, this figure will reach 40%. Here are some of the units that are migrating to upper-level technology. Smart Industries' gathering and analysis of Real-time data on traffic, utilities, and infrastructure allow city officials to immediately respond to problems. Manufacturing Equipping industrial devices are connected to SAP or ERP and real-time data storage and analysis of computing capabilities for better predictive production, maintenance, energy efficiency, high bandwidth, and low latency possibly making more profit.

Characteristics of Town Data Centres

TOWN data centres may be defined differently by different data centre professionals based on their roles, and industries, and due to the relative infancy of TOWN data centres as an established trend. TOWN data centres are placed near/ local to the areas they serve and are managed remotely. TOWN data centres have the same components as traditional data centre but are packed into a much smaller footprint. The Town data centre is one of many in the Wireless network including a central data centre. Town data centres mission-critical data, ERP applications, and services for remote processing and storage.

The Role of Town Data Centre

There are many challenges specific to Town data centre management, such as being able to direct technicians to complete changes properly, monitoring data centre health across multiple Industrial locations, and managing all assets and their connections across the entire data centre deployment. Having to manage Town data centres remotely usually involves a combination of multiple remote management tools, analytic capabilities, and databases.

I was identified at an early stage the Small and Medium industries use on-premises server rooms or also use Cloud Data centre. In both scenarios, Small and medium enterprise businesses can't afford it. In this comparative services research paper, I have displayed some data. Server room and Data centre working functionality same as like require power, cooling, cabling, and technical maintenance and management. Additionally, mission-critical applications require 24x7 support. I compare the cloud data centre and local server room cost estimated in this paper to the conclusion that small businesses or just starting up a business, and might find value in keeping servers in a data centre. Not be able to choose what hardware is being used for server stacks. The financial burden involved with infrastructure and maintenance for an onsite server can be significant.

Each Small and Medium Enterprise or company has different needs, and his Small ERP or SAP HANA works for the company is a basic need not necessarily working to cloud solution. When it comes to the local Server Room or Data centre there are many factors to consider, many of which come down to individual preferences. The best way to make a server room decision is to determine. The ERP required a simple server to SME database solution is very straightforward. I compare the server room and data centre and normalization things in this article as per require meant and after calculation, the local server room is suggestible to SME.

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