



JAIN
DEEMED-TO-BE UNIVERSITY

SCHOOL OF
COMPUTER
SCIENCE AND IT

Department of BCA

6th Semester

20BCA6S21: IT INFRASTRUCTURE

LIBRARY

Activity 1

WIPRO



SUBMITTED TO

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INTRODUCTION

Wipro ltd originally as a manufacturer of vegetable ghee and edible oil etc was established in the year 1945. Later it diversified into various other businesses and made a foray into Information Technology business in 1982. It entered into the area of finance in 1992 through Wipro finance.

Wipro ltd originated from an old mill in Amalner, Maharashtra was founded in 1947 by Azim Premji's father. Because of sudden death of his father in 1966 Azim Premji took over the leadership of the company at the age of 21, when he was just a graduate in Electrical Engineering from Stanford University. After taking the position he transformed Wipro into a consumer goods company and in 1975 he introduced Wipro Fluid Power which manufactures hydraulic and pneumatic cylinders.

When IBM left India in 1977 Wipro stepped in into Information technology business. In 1979 it started developing its own computer and by 1981 it started selling finished products. This made Wipro India's first computer makers. After getting licensed technology from Sentinel Computers it started making India's first minicomputer and hired experienced managers to handle the management.

Wipro forayed into software development in 1982 and introduced customized software packages for its hardware customers. Thus it expanded the business in IT sector and later developed India's first 8086 chip. It started its off shore business in the United States in 1992 and was listed in New York Stock exchange in the year 2000. It has been acknowledged as an offshore provider of technology services by many research firms.

Headquarters of the company



Fig 0.1 , Bangalore, Karnataka, India

HISTORY OF WIPRO

Early years

The company was incorporated on 29 December 1945 in Amalner, Maharashtra by Mohamed Premji as "Western India Palm Refined Oil Limited", later abbreviated to "Wipro". It was initially set up as a manufacturer of vegetable and refined oils in Amalner, Maharashtra, British India, under the trade names of Kisan, Sunflower, and Camel

In 1966,

After Mohamed Premji's death, his son Azim Premji took over Wipro as its chairman at the age of 21. During the 1970s and 1980s, the company shifted its focus to new opportunities in the IT and computing industry, which was at a nascent stage in India at the time. On 7 June 1977, the name of the company changed from Western India Vegetable Products Limited, to Wipro Products Limited. In 1982, the name was changed again, from Wipro Products Limited to Wipro Limited. Wipro continued to expand in the consumer products domain with the launch of "Ralak" a Tulsi based family soap and "Wipro Jasmine", a toilet soap

1986–1992

In 1988, Wipro added mobile hydraulic cylinders and heavy-duty industrial cylinders to its line of products. A joint venture company with the United States' General Electric in the name of Wipro GE Medical Systems Pvt. Ltd. was set up in 1989 for the manufacture, sales, In 1991, tipping systems and Eaton hydraulic products were launched. The Wipro Fluid Power division, in 1992, "Santoor" talcum powder and "Wipro Baby Soft" range of baby toiletries were launched in 1990.

1994–2000

In 1995, Wipro set up an overseas design centre, Odyssey 21, for the projects of Wipro released new products such as the Wipro SuperGenius personal computers (PCs). In 1999, the product was the one Indian PC range to obtain US-based National Software Testing Laboratory (NSTL) certification for the Year 2000 (Y2K) compliance in hardware for all models. Wipro Limited joined with KPN (Royal Dutch telecom) to form a joint venture company "Wipro Net Limited" to provide internet services in India. In 2000 Wipro launched Wipro OSS Smart and Wipro WAP Smart. In the same year, Wipro was listed on the New York Stock Exchange.

2001–2010

In February 2002, Wipro became the first software technology and services company in India to be ISO 14001 certified. Wipro Consumer Care and Lighting Group entered the market of compact fluorescent lamps, with the launch of a range of CFL, under the brand name of Wipro Smartlite. As the company grew, a study revealed that Wipro was the fastest wealth creator for 5 years (1997–2002). It set up a wholly owned subsidiary company (Wipro Consumer Care Limited) to manufacture consumer care and lighting products. In 2004 Wipro joined the billion-dollar club. It also partnered with Intel for i-shiksha. In 2006, Wipro acquired cMango Inc., a US-based technology infrastructure consulting firm, and a Europe-based retail provider. In 2007, Wipro signed a deal with Lockheed Martin. It also agreed to acquire Oki Techno Centre Singapore Pte Ltd (OTCS) and signed an R&D partnership contract with Nokia Siemens Networks in Germany. In 2008, Wipro's entered the clean energy business with Wipro Eco Energy

2011–2018

In April 2011, Wipro signed an agreement with Science Applications International Corporation (SAIC) for the acquisition of their global oil and gas information technology practice. In 2012, Wipro employed more than 70,000 temporary workers in the United States. In 2012, Wipro acquired Australian Trade Promotions Management firm Promax Applications Group (PAG) for \$35 million. Also, in that year, Wipro Ltd. demerged its consumer care, lighting, furniture, infrastructure engineering (hydraulics and water and medical diagnostic business) into a separate company to be named 'Wipro Enterprises

Ltd'. Prior to demerger, these companies together contributed about 10% of the revenues of Wipro Limited. In 2014, Wipro signed a 10-year \$1.2 billion contract with ATCO, a Canadian Energy and Utilities corporation based in Calgary, Alberta. This was the largest deal in Wipro's history. In October 2016, Wipro announced that it was buying Appirio, an Indianapolis-based cloud services company for \$500 million. In 2017, the company expanded its operations in London. In 2017, Wipro Limited won a five-year IT infrastructure and applications managed services engagement with Grameenphone (GP), a major telecom operator in Bangladesh and announced it would set up a new delivery centre there. In 2018, the company began building software to help with the General Data Protection Regulation (GDPR) in Europe. In March 2018, Wipro said it would be buying a third of Denim Group. In April 2018, the company sold its stake in the airport

IT services company JV. In August 2018, Wipro paid US\$75m to National Grid US as a settlement for a botched SAP implementation that a 2014 audit estimated could cost the company US\$1 billion. Wipro had been hired as systems integrator in 2010, but errors in the rollout, intended to replace an Oracle system, caused serious losses and reputational damage. To compete with Hindustan Unilever and Procter & Gamble, in May 2018 Wipro Consumer Care and Lighting announced it would increase Indian distribution of its acquired personal care brands Enchanteur and Yardley. Other recent acquisitions included Unza Holdings, LD Waxson, and Zhongshan. On 3 May 2018, it was announced that Wipro was opening manufacturing locations in Andhra Pradesh and Guangzhou. On 4 May 2018, it was reported that Wipro's stock value had been decreasing. The day earlier, it was reported that HCL would likely unseat Wipro that quarter as the third largest Indian IT company, after TCS and Infosys.

2019-2020

In 2019, Wipro Consumer Care and the Ang-Hortaleza Corporation signed a share purchase agreement for the sale of 100% of the latter's stake in the personal care business of Splash Corporation, the companies announced on Monday, 29 April. Wipro partnered with Moogsoft, an AIOps company. In February 2020, Wipro acquired Rational Interaction, a Seattle-based digital customer experience consultancy. In July 2020, Wipro announced the launch of its 5G edge services solutions suite built with IBM software systems.

IT Services

The Company is a provider of IT services to enterprises across the globe. The IT Services segment primarily consists of IT Service offerings to its customers organized by industry verticals, which include Banking, Financial Services and Insurance (BFSI), Healthcare and Life Sciences (HLS), Retail, Consumer Goods, Transport and Government (RCTG), Energy, Natural Resources and Utilities (ENU), Manufacturing and High-Tech (MFG), and Global Media and Telecom (GMT). The Company provides a range of services, which include digital strategy advisory, customer centric design, technology consulting, IT consulting, custom application design, development, re-engineering and maintenance, systems integration, package implementation, global infrastructure services, business process services, cloud, mobility and analytics services, research and development and hardware and software design. It delivers end-to-end services across the Oracle product spectrum, including E-Business suite, Oracle Cloud Applications and Engineered

Systems. Its Connected Enterprise Services include Digital Customer Experience Management (DCxM) and Encore (Next Gen Commerce Solution). The Service Transformation Group is instrumental in evaluating the market trends, and identifying and incubating various technologies. Its Global Infrastructure Services (GIS) is an end-to-end IT infrastructure and management service provider, which include Business Advisory, Cloud Migration, Data Center Transformation, Workplace Transformation, Networks, Managed Services to System Integration



Fig 0.2 , Revenue of 2021

The Company offers integrated business solutions that span across enterprise applications and digital transformation to security and testing. Its application services offerings include Oracle Application Services, SAP Application Services, Connected Enterprise Services, Cloud Application Services, Enterprise Architecture, Enterprise Security Solutions and Testing Services. Its Analytics includes the spectrum of offerings, which cover the Data-Information-Insight Supply Chain, including artificial intelligence, machine learning, etc.,.

IT Products

In order to offer IT system integration solutions, the Company uses a combination of hardware products (including servers, computing, storage, networking, security), related software products (including databases and operating systems) and integration services. The Company's range of third-party IT Products is comprised of Enterprise Platforms, Networking Solutions, Software Products, Data Storage, Contact Center Infrastructure, Enterprise Security, IT Optimization Technologies, Video Solutions and End-User Computing solutions. It provides its offerings to including government, defense, IT and IT-enabled services, telecommunications, manufacturing, utilities, education and financial services sectors. The Company is a reseller of third-party enterprise products through its direct sales force

WIPRO GROUP COMPANIES

Wipro enterprise(P)Limited

Wipro Enterprises (P) Limited comprises of two main divisions

1)Wipro Consumer Care and Lighting (WCCLG)

Wipro Consumer Care and Lighting (WCCLG) is among the top fastest growing FMCG companies in India. It has a strong brand presence in personal care and skin care products in South-East Asia and Middle-East apart from significant market share in identified segments. Today WCCLG has global workforce of 8300 serving over 40 countries

2) Wipro Infrastructure Engineering (WIN)

Wipro Infrastructure Engineering (WIN) is the largest independent hydraulic cylinder manufacturer in the world, delivering around 2 million cylinders to OEMs in different geographies. WIN has global workforce of over 1,700 committed and skilled people, and 14 state-of-the-art manufacturing facilities across India, Northern Europe, Eastern Europe, US, Brazil and China

Wipro Enterprises (P) Limited also has two associates

- Wipro GE Healthcare Private Limited
- Wipro Kawasaki Precision Machinery Private Limited

PROFILE OF WIPRO

Wipro Limited (Wipro) is a global information technology (IT) services company. Wipro provides outsourced research and development, infrastructure outsourcing, business process outsourcing (BPO) and business consulting services. The Company operates in three segments: IT Services, IT Products, Consumer Care and Lighting. The IT Services segment provides IT and IT enabled services to customers. The IT Products segment sells a range of Wipro personal desktop computers, Wipro servers and Wipro notebooks. The Company is also a value added reseller of desktops, servers, notebooks, storage products, networking solutions and packaged software. The Consumer Care and Lighting segment manufactures, distributes and sells personal care products, baby care products, lighting products and hydrogenated cooking oils in the Indian and Asian

markets. On June 10, 2011, the Company acquired the Commercial Business Services Business Unit of Science Applications International Corporation (SAIC)

Wipro Technologies is a global services provider delivering technology driven business solutions that meet the strategic objectives of its clients. Wipro has 55+ 'Centers of Excellence' that create solutions around specific needs of industries. Wipro delivers unmatched business value to customers through a combination of process excellence, quality frameworks and service delivery innovation. Wipro is the World's first CMMi Level 5 certified software services company and the first outside USA to receive the IEEE Software Process

VISION OF WIPRO

The Vision of WIPRO is to contribute for global e-society, where a wide range of information is being exchanged beyond time and space over global networks, which breaks down the boundaries among countries, regions and cultures, allowing individuals to take part in various social activities in an impartial, secure way.

GOALS OF WIPRO

- To support customers who rely on our ability as an advanced RF System Solution Provider
- To build up core competencies through collaboration with technological partners contribute to the Ubiquitous Networking Society by providing chip level RF system solutions

CORE VALUES OF WIPRO

- Outstanding
- Teamwork
- Challenge
- Spirit

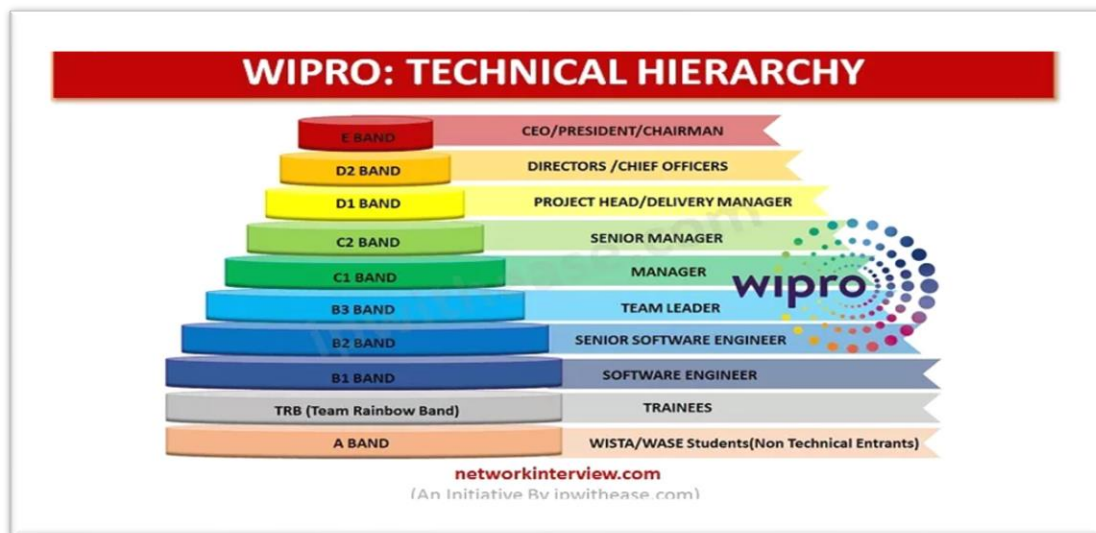


Fig 0.3, Technical Hierarchy of WIPRO

Name of Director	Skills/Expertise/Competencies					
	Wide Management and Leadership Experience*	Information Technology	Diversity	Functional and Managerial Experience*	Personal Values	Corporate Governance
Rishad A. Premji	✓	✓	✓	✓	✓	✓
Thierry Delaporte ¹	✓	✓	✓	✓	✓	✓
Azim H. Premji	✓	✓	✓	✓	✓	✓
William Arthur Owens	✓	✓	✓	✓	✓	✓
M. K. Sharma	✓	-	✓	✓	✓	✓
Ireena Vittal	✓	✓	✓	✓	✓	✓
Patrick J. Ennis	✓	✓	✓	✓	✓	✓
Patrick Dupuis	✓	✓	✓	✓	✓	✓
Deepak M. Satwalekar ²	✓	✓	✓	✓	✓	✓

Fig 0.4, Table of skills Wipro board directors

BOARD OF GROUP COUNCIL



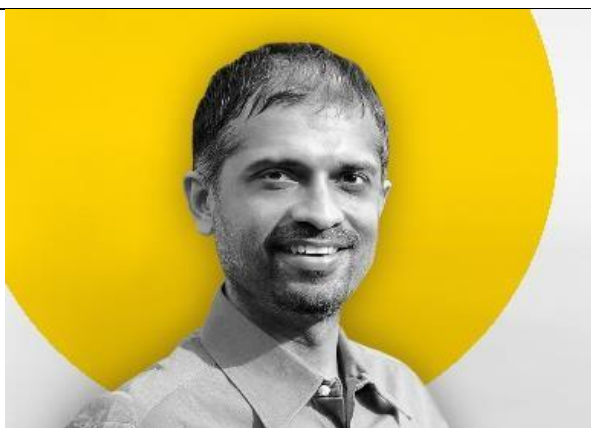
Azim H. Premji
Founder Chairman



Rishad Premji
Chairman



Anand Padmanabhan
President, Business Development



Anurag Behar
CEO, Azim Premji Foundation



Bhanumurthy B. M.
President and Chief Operating Officer



Jatin Dalal
Chief Financial Officer



Milan Rao
President – Innovation & Technology, and Global Head



Nalinikanth Gollagunta
President & CEO of GE Healthcare – India & South Asia



N. S. Bala
President, Energy, Natural Resources



Pratik Kumar
CEO, Wipro Infrastructure Engineering



Rajan Kohli
President, Wipro Digital



Saurabh Govil
President & Chief Human Resources Officer



Fig 0.5, Board of directors

HIRING PROCESS

1. Apply Online Apply for a specific job that matches your profile Upload your resume
2. Evaluation Attend interviews Complete online assessments
3. Documentation Share requested document The list of documents required will be shared by HR
4. Offer Hold an active discussion with recruiters and receive final offer Confirm acceptance
5. Joining Check your credentials Welcome to Wipro

STAFF

Speaking of employees, they naturally play a large role in this equation as well. With the right people in place, working toward the goals of the organization should become a relatively easy task. However, if your company lacks the skills in key areas to get the job done right, you may struggle even if you are hitting on the other six points on this list.

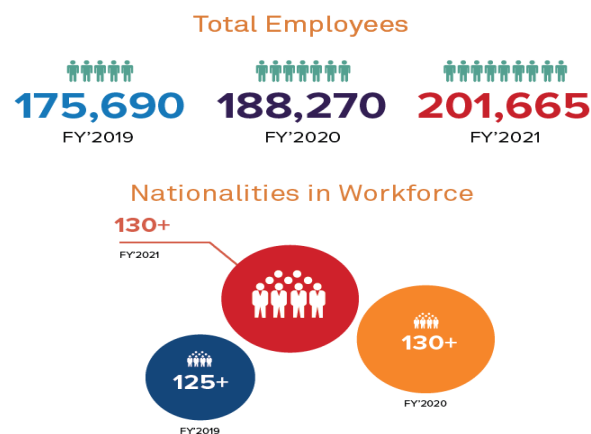


Fig 0.6, Employees

WIPRO WORKFORCE

- 1,56,600+ employees in foundational, intermediate and advanced digital skills as of FY 2021.
- Wipro On Air –We profiled unique stories on our global podcast series to celebrate the resilience of the human spirit. Since its launch in 2017, it has received over 766,000 hits on 99 podcasts. Fig 0.6.

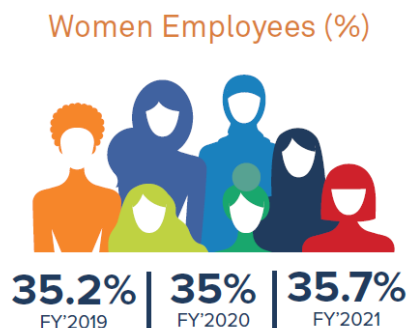


Fig 0.7, % of growth

WOMEN WORKFORCE

- Our internal social networking platform, Yammer has Our internal social networking platform, Yammer has 160,000+ users who have shared more than 2.8 million messages and formed thousands of groups which are strong communities within Wipro.

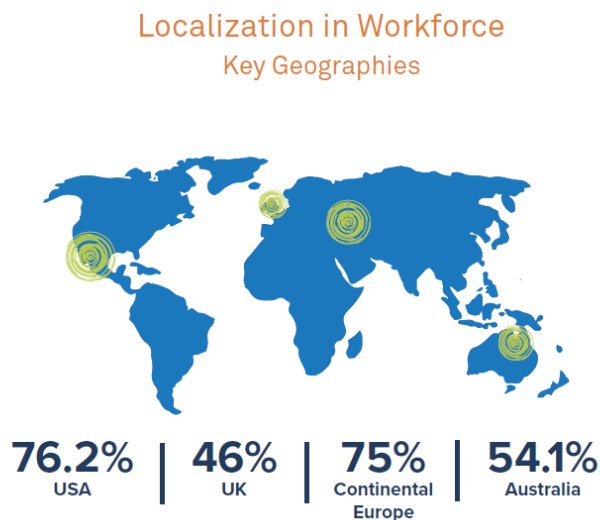


Fig 0.8, Localization view

- Our internal social networking platform, Yammer has 160,000+ users who have shared more than 2.8 million messages and formed thousands of groups which are strong communities within Wipro.

Persons with Disabilities

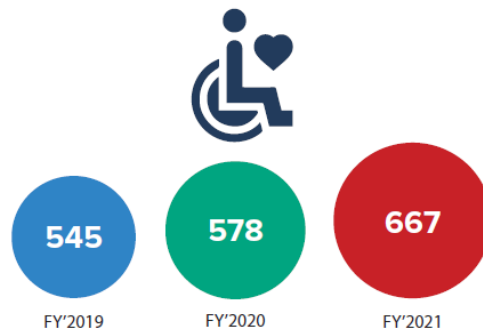


Fig 0.9, Years and persons with disability

ECOLOGICAL SUSTAINABILITY

- 42.6% (73.7 million units) of our total India Energy Consumption comes from Renewable Energy (RE) in FY21

Total GHG Emission (Tons of CO₂ eq.)

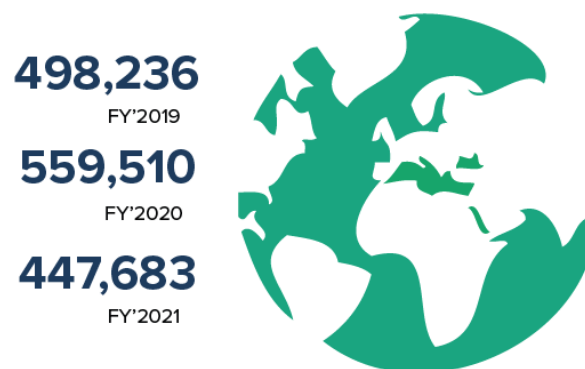


Fig 1.0 , Emission from consumption

- 21% increase in energy saving due to server virtualization from FY20
- 3 biodiversity projects completed till date - Butterfly Park, Wetland Zone and Thematic Garden in Bengaluru and Pune

Environmental Impact (NCX Valuation in USD million)

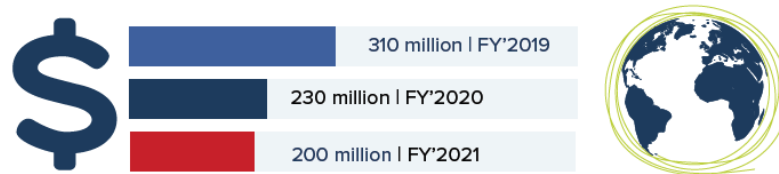


Fig 1.1, Cost of impact

- Long-term urban water programs in Bengaluru, Pune and Hyderabad for citizen engagement and advocacy on groundwater management
-

Water Recycled (% of Total Water Consumption)

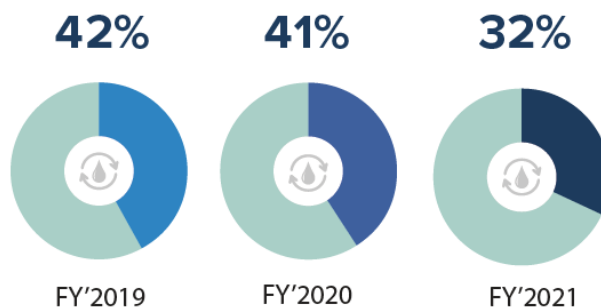


Fig 1.2, Recycle of water

- Bengaluru Sustainability Forum hosted a reading and discussion series on the UN SDGs on topics related to health, gender equality, quality education, sustainable cities, clean energy and reduced inequalities.

Waste Sent to Landfill (Excluding C&D)



Fig 1.3, Recycled through landfill

- Wipro's services and solutions are backed by over 2 decades of domain expertise in water utility business processes, having worked with more than 32 global water and waste water utilities. With more than 1,500 people dedicated to our water accounts, Wipro is transforming water utilities to streamline operations.

SUPPLY CHAIN SUSTAINABILITY

- supply chain sustainability is the management of environmental, social and economic impacts, and the encouragement of good governance practices, throughout the lifecycles of goods and services. The objective is to create, protect, and grow long-term environmental, social and economic value for all stakeholders involved in bringing products and services to market. By mitigating and responding to sustainability risks in the supply chain, companies can control costs, protect their market share, and reduce risk premiums. Through many supply chain sustainability activities, companies can create efficiencies in their supply chains and reduce sourcing costs.

Engaging with Suppliers

Ethical	Ecological	Responsible	Diversity
Wipro expects its suppliers to adhere to Wipro Code of Business Conduct and Sprit of Wipro. We conduct Social Compliance Program for manpower services providers.	Our IT hardware procurement guidelines comply with the EPEAT standard from Green Electronic Council. We use Managed Print Services for higher operational efficiency and reduction in resource consumption.	Wipro expects its suppliers to adhere to principles of human rights, employee welfare, health and safety, minimum wages and maximum working hours.	Wipro is an Equal Opportunity employer and advocates the same through its supply chain by encouraging supplier diversity. We have 25.6% gender diversity ratio for suppliers staff deployed at our facilities.

Fig 1.4, Supply sustainability activities

- **Why do we need Supply Chain Sustainability?**

About 76% of Americans who shop for eco-friendly products some of the time. As the customers are beginning to want to know the supply chain process and ensure that it is also following sustainability, it becomes very important for organizations to ensure that in every stage from production to distribution, sustainable practices are involved. Around 80 percent of a typical consumer company's greenhouse gas emission value is from their supply chain process. A lack of supply chain sustainability incurs a loss of close to \$500M every year.

RISK MANAGEMENT FRAMEWORK

The risk landscape in the current business environment is changing dynamically with The dimensions of Cyber security, Information Security and Business Continuity, Data Privacy and Large Deal Execution figuring prominently in the risk charts of most organizations. To effectively mitigate these risks, we have employed a risk management framework, which helps proactively identify, prioritize and mitigate risks. The Framework is based on principles laid out in the four globally recognized standards as below



Fig 1.5, Policy framework overview

- Orange Book by UK Government Treasury
- COSO; Enterprise Risk Management—Integrating with Strategy and Performance (2017) by Treadway Commission
- AS/NZS ISO 31000:2009 Risk Management – Principles and Guidelines by AUS/NZ Standards Board
- ISO - ISO 31000:2018, Risk management – Guidelines

RISK MANAGEMENT

The risk landscape in the current business environment is changing dynamically with the dimensions of Cyber security, Information Security and Business Continuity Data Privacy and Large Deal Execution figuring prominently in the risk charts for most organizations in our sector. To effectively mitigate these risks, we have employed a risk management framework, which helps proactively identify, prioritize and mitigate risks. The framework is based on principles laid out in the four globally recognized standards as below.

FINANCIAL RESULTS

- Wipro reported a 61% rise in third-quarter profit as it added new clients and made improvements in its pricing structure.
- Net income under U.S. accounting rules rose to 4.27 billion rupees (\$98 million) in the three months ended Dec. 31, from 2.66 billion rupees (\$61 billion) a year earlier, slightly higher than analysts expected. Revenues rose 34 percent in the period.

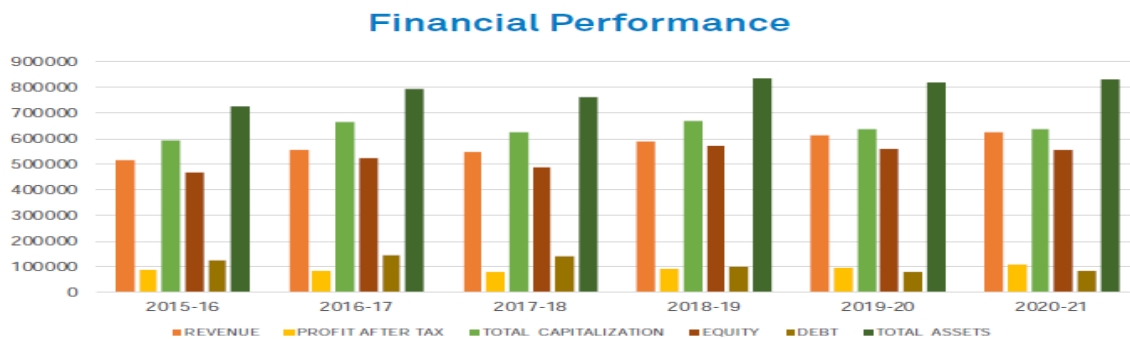


Fig 1.6, Financial performance over the years

- Wipro said it was able to charge new clients more for higher-margin services. The company added 26 clients in the quarter at the unit serving customers outside Asia-Pacific, boosting sales to 20.9 billion rupees (\$479 million) from 15.6 billion rupees (\$357 million) a year earlier.
- However, gains from price increases were offset by increasing salaries and a huge turnover in staff in its business process outsourcing (BPO) division. The company continues to use currency hedging to offset the rising rupee but said the rupee's rise against the dollar remains a challenge.

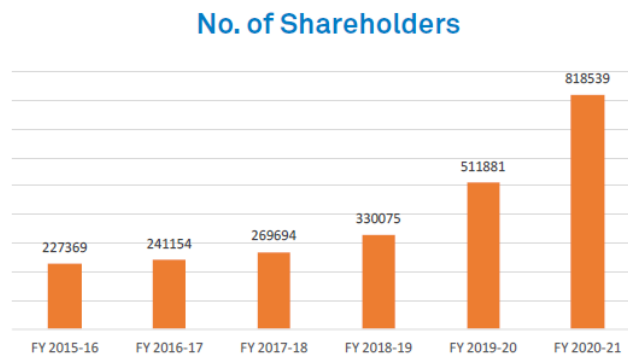


Fig 1.7, Rise of shareholde

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2.	20BCAR0110	INSIYA J N	Sustainability, Supply chain sustainability and PPT preparation.
3.	20BCAR0123	SHRUTI S	Introduction, History of Wipro and PPT.
4.	20BCAR0137	JATIN P	Work group companies and report preparation.
5.	20BCAR0116	NITHISH KUMARAN	IT Services, IT Products, Financial report and report preparation.



CERTIFICATE

This is to certify that **Mr. SIDHARTH M (20BCAR0124)**_has satisfactorily completed **Activity-1** prescribed by JAIN Deemed to be university for the **Six Semester** Degree course in the year 2022-2023.

S. No	CRITERIA	MARKS	MARKS OBTAINED
1	TITLE	1	
2	BACKGROUND	8	
3	DIAGRAM	4	
4	REPORT	2	
5	TOTAL	15	

MARKS	
Total	Conversion of Marks
15	

Signature of the Student

Signature of the Staff member

Date of Submission



CERTIFICATE

This is to certify that **Mr. NITHISH KUMARAN_S (20BCAR0116)** has satisfactorily completed **Activity-1** prescribed by JAIN Deemed to be university for the **Six Semester** Degree course in the year 2022-2023.

S. No	CRITERIA	MARKS	MARKS OBTAINED
1	TITLE	1	
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5	TOTAL	15	

MARKS	
Total	Conversion of Marks
15	

Signature of the Student

Signature of the Staff member

Date of Submission



CERTIFICATE

This is to certify that **Mr. JATIN_P_(20BCAR0137)** ___has satisfactorily completed **Activity-1** prescribed by JAIN Deemed to be university for the **Six Semester** Degree course in the year 2022-2023.

S. No	CRITERIA	MARKS	MARKS OBTAINED
1	TITLE	1	
2	BACKGROUND	8	
3	DIAGRAM	4	
4	REPORT	2	
5	TOTAL	15	

MARKS	
Total	Conversion of Marks
15	

Signature of the Student

Signature of the Staff member

Date of Submission



CERTIFICATE

This is to certify that **Ms. Shruti_Sivaramakrishnan (20BCAR0123)** has satisfactorily completed **Activity-1** prescribed by JAIN Deemed to be university for the **Six Semester** Degree course in the year 2022-2023.

S. No	CRITERIA	MARKS	MARKS OBTAINED
1	TITLE	1	
2	BACKGROUND	8	
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4	REPORT	2	
5	TOTAL	15	

MARKS	
Total	Conversion of Marks
15	

Signature of the Student

Signature of the Staff member

Date of Submission



CERTIFICATE

This is to certify that **Ms. Insiya Juzer Nandarbarwala_(20BCAR0110)** has satisfactorily completed **Activity-1** prescribed by JAIN Deemed to be university for the **Six Semester** Degree course in the year 2022-2023.

S. No	CRITERIA	MARKS	MARKS OBTAINED
1	TITLE	1	
2	BACKGROUND	8	
3	DIAGRAM	4	
4	REPORT	2	
5	TOTAL	15	

MARKS	
Total	Conversion of Marks
15	

Signature of the Student

Signature of the Staff member

Date of Submission
