

December 07, 2022

To,

The Manager Listing Department National Stock Exchange of India Limited Exchange Plaza, Bandra Kurla Complex, Bandra (East), Mumbai– 400051

Company Trading Symbol: FROG

RE: Disclosure under Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 ("SEBI Listing Regulations").

Subject: Investor Presentation – December 2022

Dear Sir(s)/ Madam,

With reference to the subject above, please find attached herewith Investor Presentation – December 2022.

Head Office : B-3, Sector-65, Noida-201301 (U.P) India Tel: +91-120-4859650 Fax: +91-120-4859696

: Khasra No. 142 Kha & Ga, Mohabewala Industrial Area, Dehradun-248110 (UK) India

Regd. Office : 406, D-35, 3rd Floor, Old Plot No.2-A, Laxmi Nagar, Delhi-110092, India

: +91-135-2640366, 3247314 CIN: U51909DL2004PLC127530

The same will also be available on the website of the company at www.frogcellsat.com

This is for your information and records.

Thanking You Yours Faithfully, For Frog Cellsat Limited

MANISHA Digitally signed by MANISHA MAKHIJA Date: 2022.12.07 00:28:49 +05'30'

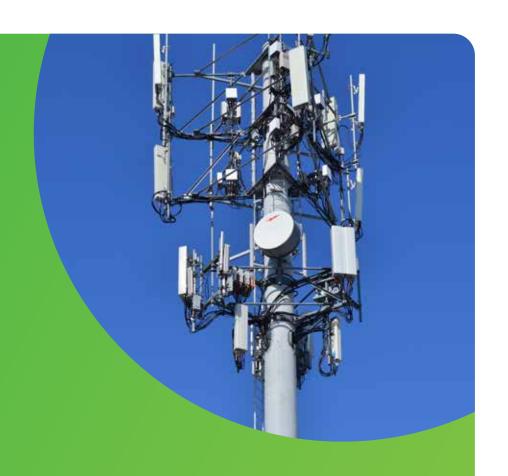
Manisha Makhija (Company Secretary & Compliance Officer)

Factory

Tel/Fax



FROG CELLSAT LIMITED



Investor Presentation December 2022





Focusing on

PM's Vision of "Make in India"

Progam by manufacturing world-class telecommunication equipment to provide better connectivity across India and the world



COMPANY AT A GLANCE





manufacturers of equipment's

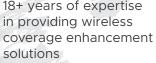
State-of-the-art

production and

Noida and Dehradun

R&D facility in







ISO-certified products that matches the quality of large companies



Highly experienced In house RF-planning, Implementation and Service Team



Expertise across the entire value chain of Designing, Manufacturing & Installation of Active DAS, RF Repeaters and Customized RF solutions



Constant R&D to develop new products to service evolving needs of telecom industries



Reputed clientele comprises of top clients such as Airtel, Jio, Vodafone Idea, Adani, Motorola and others

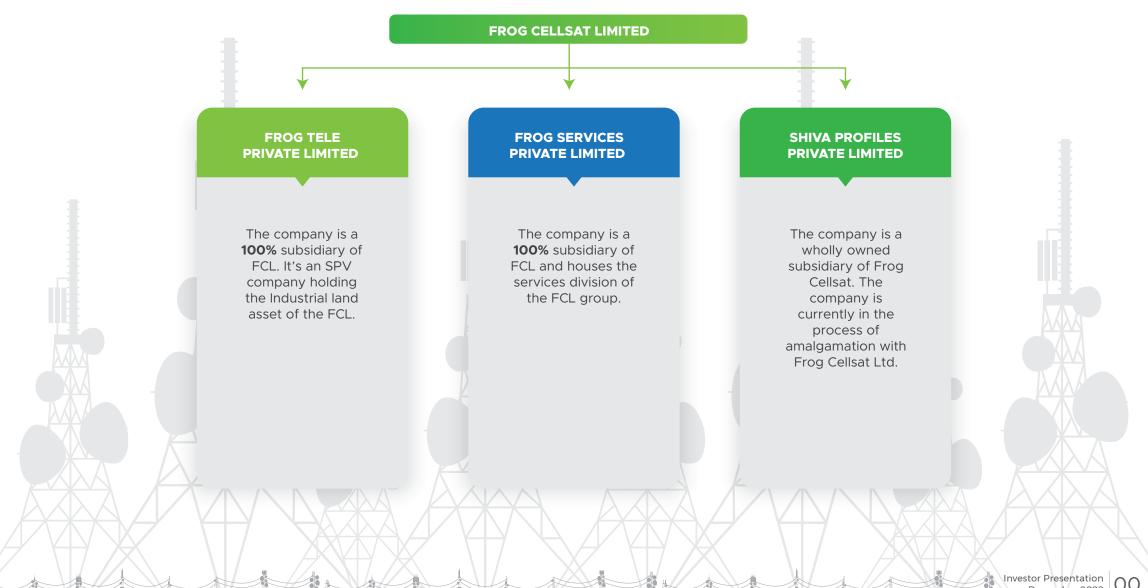


Customer presence in India, Europe, SE Asia, Africa

Well-positioned in the industry for being price competitive, field-proven, future-ready, and dependability

GROUP STRUCTURE





INFRASTRUCTURE

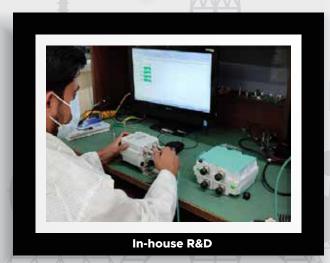












LEADERSHIP POOL





Mr. Konark Trivedi

Co-Founder & CEO

An engineer by qualification with over 25 years of experience in mobile and satellite communication

Holds a Bachelor's degree in Technology from Aligarh Muslim University (AMU), Aligarh and a Post-Graduation in Mobile and Satellite Communication from Westminster University, London.

Worked with leading companies including HCL and HFCL.



Mrs. Sonal Trivedi

Co-Founder & CPO

People's person with a rich experience of over 20 years in HR, Training, Admin & Culture Building

Has helped build a rich culture and healthy HR policies in Frog, helping company get "Great Place to Work", GPW – Women, Best in Telecom etc. recognitions.

Gold medallist in Master of Industrial Psychology from HNBGU and CELTA certified teacher (Certificate of English Language Teaching to Adults), from British Council, New Delhi (Cambridge Univ affiliated)

Has a passion for teaching English and has worked with British Council, Delhi and HACE, London.

Currently manages the People's departments of Frog Cellsat Ltd.



Mr. Charan Jeet Kalra

CFO

Company Secretary by profession 10+ years of experience in implementing strategic financial decisions and overlooking finance operations

Currently manages end-to-end operations such as Banking, Liquidity Management, Budgeting, Forecasting, Project funding, Auditing & Accounting,

MIS & PL controls, others for Frog CellSat



Mr. Tarun Tularam Sharma

CTO

Leads FCL's long-term technology vision, and is responsible for R&D in coverage enhancement solutions for next-generation networks with emphasis on technology standards, innovation, customization and industry collaboration

He also facilitates the technical community within FCL

Prior to joining FCL in 2009, Mr. Sharma served at Nortel India's Knowledge Services division as a specialist on CDMA and WiMAX technology Served as a head of Marketing & Systems SBU at India Satcom he extensively designed and implemented Satrom networks

Headed the Voice Communications Group at Reliance and was responsible for managing Carrier class switches, technology incubation, interoperability and integration with national carrier

Mr. Sharma started his career at Indian Air Force in 1989 as a commissioned officer in the technical branch and commanded a mobile communications unit, fulfilling strategic air defence communication need He holds a Post Graduate Diploma in

He holds a Post Graduate Diploma in Management and a Bachelor of Science in Electronics and Communications Engineering from National Institute of Technology, Kurukshetra (erstwhile REC, Kurukshetra) with a specialization in Reliability Engineering.

EVOLUTION OVER THE YEARS



2006

Switched to a new business model of buying imported products and selling (Trading). Added new product "GSM Repeaters". Customer Addition: Nokia & Siemens

2008

Set up the first manufacturi ng unit in Dehradun. Started the production of Repeaters based on in-house developed design



Product Addition: WCDMA / 3G Repeater; IBS Accessories. Customer Addition: Uninor

Set up the



2011

Crossed a

plateau of

Revenue

₹10 Crore in

2012

Product Addition: LTE / 4G Repeater



2014

Product Addition: Jumpers, Started BTS-related services. Customer addition:

Vodafone,



New Production Unit at Noida, Started Exporting products, Crossed a plateau ₹50 Crores in revenue



Product Addition: Common Public Radio Interface (CPRI)



2022

Crossed a milestone of ₹100 Crore in Revenues, Product Addition: RET Cable.

Cell

Company listed on NSF - SMF Platform, Application approved under Design led SFP, Small manufacturi ng PLI scheme worth over ~₹660 Mn



Incorporated



Frog CellSat and became Indian Sales Representati ve of CDMA. First customer -**RCOM**









Started with repair service offerings





2007

Started I&C

nationwide.

Started R&D

for in-house

design of

Repeaters.

Customer

Addition:

Ericsson

Services

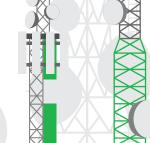




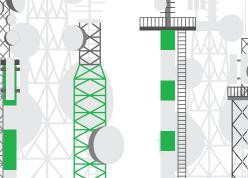


















2016

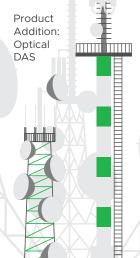
R&D Got

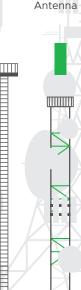
Approval,

DSIR

2017







CREATING CONSISTENT VALUE FOR INVESTORS





PRODUCT OVERVIEW



Product	Product Description	Application	Product Image
Network Accessories -Includes Jumpers, CPRI, RET Cable, Multiplexers, Filters, SFP, Feeder Cable	Network accessories are used to combine, split, switch, boost, or direct packets of information along elecommunications network.	Products for integrating mobile cell site.	© FROS
Digital Repeaters	Enhances cellular coverage in dark zones for a single operator	Improving mobile signal indoors for small to mid size area like offices, residencies, etc - Providing mobile coverage in remote areas	
Optical DAS	Optical Distributed Antenna System supports multi-technologies and multi-operators for cellular coverage to medium and large facilities	Improving mobile coverage in large size venues like stadiums, airports, etc - Covers all cellular bands and public safety bands	
Antenna	Antennas radiate RF power and illuminate the dark zones	- Provides BTS coverage - Provides small cell coverage	
IBS Accessories	Provides indoor coverage using a series of hubs/Equipment's distributing the signal to number of antennas	 Products for integrating solution for inbuilding mobile coverage Includes Yagi/panel/omni antenna, RF splitters/combiners, dummy load 	

SPECTRUM OF SERVICES PROVIDED TO TELECOM COMPANIES



In-Building

Installation and Roll-out Services: includes RF Survey.

Active /Passive DAS Design through IBwave / Manual, Deployment & Integration Passive DAS, Active DAS, Small Cell, Lamp site, Radio DOT, Femto Cell. Acceptance Testing and Optimization.

NMS setup and configuration Femto Deployment & Project Management.

Network Maintenance Services includes:

Operation and Maintenance, Modification and expansion Planning & Deployment Troubleshooting & Rectification.

BTS, MW & Small Cell I&C

Installation and Roll-out Services includes:

RFI Survey, BTS Installation and Integration, BTS De-installation (End to End Scope)
MW Installation and
Commissioning, E1 Testing,
Link NMS Visibility.
Acceptance Installation &
Commissioning.
RET installation, Indoor, Outdoor
Small Cell & ULS I&C.

Network Maintenance Services

includes: Link Alignment
BTS Indoor to Outdoor Installations,
BTS Swaps Microwave Upgrades 4th
Sector Addition
Traffic Shifting and Optimization
ODU Upgradation, Site Relocation,
GSM Antenna / RRU Hight
adjustment.

RF Planning & Optimization

Installation and Roll-out Services includes: RF Survey,

LOS (MW) Survey,
RF & TX Planning,
Optimization (RF KPIs),
Drive Test / SCFT,
Network Benchmarking and
Acceptance Testing,
EMF Measurement and
Reporting

Network Maintenance Services: Network Complaint Rectification

BROAD CUSTOMER BASE ACROSS INDUSTRIES



Domestic Mobile Operators







SI & Telecom Equipment Providers











In-Building Coverage Infra Providers





Large Project Developers













Government & Defence













International Mobile Operators & SI













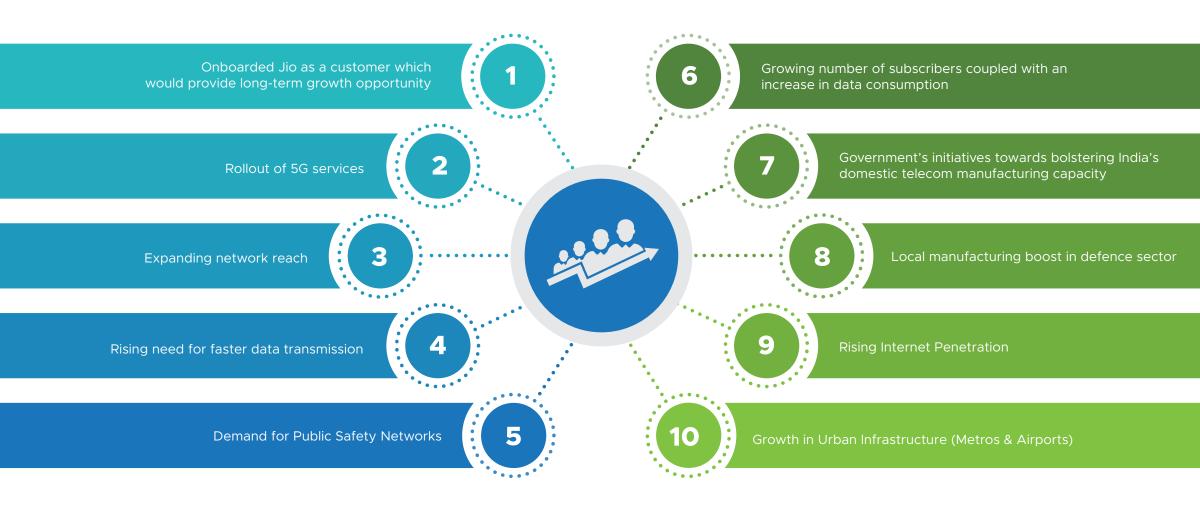




Gibtelecom

GROWTH DRIVERS





OPPORTUNUITIES FOR GROWTH



Infra Projects (Airports and Metro) Each product has a Power Cable 50+Cr opportunity 5G FWA Terminal / year **I&C Services Expansion** Jio 5G Site Material Each product has a Tejas / BSNL 4G Site Material 100+Cr Defense Innovation opportunity / year Interference Mitigation System Each product has a Manufacturing Services 200+Cr opportunity Defense Ofset Projects / year

FCL HAS A WIDE RANGE OF PRODUCTS **◊** TO CATER TO MULTIPLE INDUSTRIES



TELECOMMUNICATION INDUSTRY

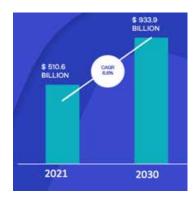
- The global telecom equipment market size is growing at a rapid pace, due to increasing numbers of cellular stations and the demand for next-generation-ready network equipment led by the advent of 5G networks
- · With the faster deployment of 5G and wider coverage of existing technology, the total addressable market for telecom equipment industry is expected to reach \$933.9 Bn by 2030

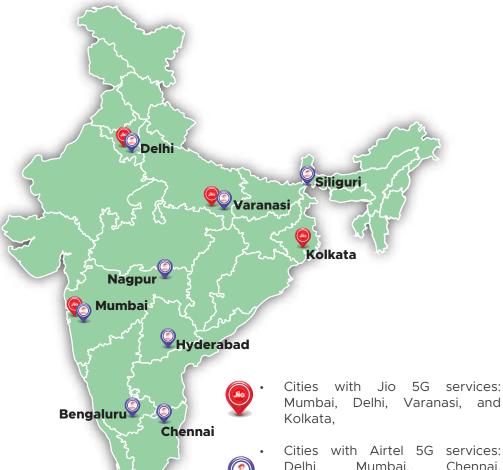
GLOBAL TELECOM EQUIPMENT MARKET

- India is witnessing tremendous growth in domestic manufacturing of telecom equipments which find mutifacated application across sectors like mobile telephony, defence, compact infrastructure on back of the government's mission to make India "Atmanirbhar"
- The telecom industry in India is the second-largest in the world and it will mostly likely add 500 Mn internet users over the next five years led by rise in mobile-phone penetration and a decline in data costs
- Government of India (GoI) aims to make India a new telecom equipment manufacturing hub and nurture home companies and is expected to boost export of Telecom and Networking Products under "Make in India" initiative.

HIGHLIGHTS ON TELECOM COMPANIES

- Telecom companies like Jio, Airtel, Vodafone have already rolled out their 5G services
- The top two operators "Jio" and "Airtel" will spend on network equipment and laying fibre as they target launching ultrafast 5G networks in the coming months
- Jio: India's top telecom mobile operator, has earmarked a spending of \$25 bn on the rollout of its 5G services that it plans to debut in key cities this Diwali in October (source: https://techcrunch.com/2022/08/29/reliance-jio-to-debut-5q-in-october-reach-all-by-2023-end/).





Mumbai, Delhi, Varanasi, and

Delhi. Mumbai. Chennai. Bengaluru, Hyderabad, Siliguri, Nagpur and Varanasi.

CONTD.....



DEFENCE INDUSTRY

- FCL is engaged in various projects of national importance and has forayed into repair and maintenance of electronics parts used in old tanks and aircrafts; in developing and manufacturing parts locally which so far was only imported for example Avalanche Victim Detector (AVD), Power Amplifiers for Radar Applications, etc.
- With the current Indian defence budget, there is a renewed focus on AtmaNirbhar theme which focuses on optimitizing usage of Indian products. FCL has capatilised on this opportunity which would further aid the company's top-line.

INFRASTRUCTURE INDUSTRY

- Infrastructure sector is key driver of the Indian economy, currently the government has taken infrastructure and industrial projects worth ~\$1.3 tn1
- To build and improve the nation's telecom infrastructure, the government has assigned the Department of Telecommunications a budget of \$11.11 bn4.
- 5G rollout, increase in number of mobile users and rising demand for data access across the globe has amplified the demand better cellular coverage and public safety networks
- To capatilize on the opportunity, FCL has been focusing on upgrading/adding products to serve the growing demand of cellular service providers.

DISTRIBUTED ANTENNA SYSTEM (DAS)2 (TAKE INPUT FROM THE MANAGEMENT)

- DAS are used to improve mobile coverage in large size venues like metros. airports, etc and areas like high-rise buildings, tunnels, shopping malls.
- The DAS market is projected to grow from \$8.7 Bn in 2021 to \$12.7Bn by 2027.
- Mobile data traffic, growing number of connected devices due to Internet of Things, rising demand for extended network coverage and uninterrupted connectivity, increasing construction of buildings based on modern and sustainable concepts and public safety connectivity.

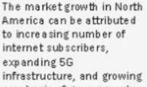
Attractive Opportunities in Distributed Antenna System (DAS) Market



CAGR of

USD BILLION 2021-е

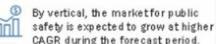
The Distributed Antenna System (DAS) market is estimated to reach USD 12.7 billion by 2027, at a CAGR of 6.5% from 2021 to 2027.



internet subscribers, expanding 5G infrastructure, and growing emphasis of government offices on enhancing tele communication infrastructure to meet the demand for seamless



Increasing M2M connections and number of IoT devices have created the need for an efficient network infrastructure, which is expected to fuel the growth of the DAS market.





Rising demand for mobile broadband technology, highspeed data transfers, and data processing are driving the DAS market growth.

USD BILLION

2027-р



Commercialization of CBRS band for private and unlicenced network is expected to offer lucrative opportunities for DAS providers.

e-estimated, p-projected

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STEP AHEAD R&D INVESTMENT IN OFFICE ORDER TO CAPTURE GROWTH OPPORTUNITIES

YEARLY INVESTMENT, INCREMENTAL REVENUE AND INCENTIVE RECEIVABLE UNDER THE PLI SCHEME

FY (₹ in Crores)	Minimum Incremental Investment over the Baseline (i.e. after 31-Mar-2022) (Cumulative)	Minimum Eligible Incremental Net Sales of Manufactured Products over the Base Year (A)	Minimum Eligible Incremental Net Sales of Manufactured Products over the Base Year (B)	Sales Forecast as submitted by the applicant (C)	Eligible Net Sales for Incentive (Lower of B & C) (D)	Eligible Net Sales i.r.o. Products complying with Design-led Criteria (out of D)	Maximum Incentive Payable
FY23	3.20	9.60	64.00	65.00	64.00	64.00	5.12 (8%)
FY24	6.40	19.20	128.00	130.00	128.00	128.00	10.24 (8%)
FY25	11.20	33.60	224.00	225.00	224.00	224.00	15.68 (7%)
FY26	16.00	48.00	320.00	325.00	320.00	320.00	19.20 (6%)
FY27	-	48.00	320.00	350.00	320.00	320.00	16.00 (5%)
Total	16.00	158.40	1,056.00	1,095.00	1,056.00	1,056.00	66.24

PRODUCT UNDER PLI SCHEME

Index No	Name of Product	Production Status
P01	Cavity Multiplexer / Filter / Coupler and Splitter / Combiner / Termination	Production Started
P02	Digital Repeater	Production Started
P03	IBS Antennas	Production Started
P04	Optical DAS	Production Started
P05	Microwave Antenna and Base Station Antennas	Production Started
P06	Interference Mitigation System (IMS)	Production Started
P07	Digital DAS	Yet to Start
P08	Jammer	Yet to Start
P09	4G/5G CPE	Yet to Start
P10	4G/5G Small Cells	Yet to Start
P11	GPON OLT	Yet to Start
P12	GPON ONT/ONU	Yet to Start
P13	Unlicensed Band Radio	Yet to Start
P14	Open RAN Radio Unit	Yet to Start
P15	IOT / M2M Devices including End-point Devices, EDGE Devices, Routers & Gateway and NMS System	Yet to Start
P16	Microwave Radio	Yet to Start

FINANCIALS PROFIT & LOSS STATEMENT



Particulars (₹ in Mn)	H1 FY23	FY22	FY21	YoY%
Revenue from Operations	657.97	1329.44	1209.22	9.94%
Other Income	4.43	29.36	84.76	
Total Revenue	662.40	1358.80	1293.99	5.01%
Total Expenses excluding Depreciation, Amortization & Finance Cost	550.41	1130.40	1107.94	
EBITDA	107.56	199.04	101.29	96.51%
EBITDA Margin (%)	16.35%	14.97%	8.38%	659bps
Depreciation & Amortization	7.03	13.57	17.69	
Finance Cost	4.22	5.98	12.26	
РВТ	100.74	208.85	156.10	33.79%
Tax	29.05	61.39	28.86	
PAT	71.68	147.46	127.23	15.90%
PAT Margin %	10.89%	11.09%	10.52%	57bps
Diluted EPS	6.34	13.05		

Note: Other income in FY21, includes extraordinary income from sale of property under a subsidiary Expenses in H1 FY23, includes IPO expenses of ₹25.1 Mn



FINANCIALS BALANCE SHEET



Particulars (₹ in Mn)	As on 31.03.21	As on 31.03.22	As on 30.09.22
Assets			
Non-Current Assets			
PP&E	51.70	61.67	57.54
Capital WIP	-	70.51	158.93
Intangible Assets	1.11	0.41	0.29
Goodwill on consolidation	93.56	93.56	90.59
Investments	39.74	48.14	51.99
Deferred tax assets	11.63	26.13	37.04
Long term loans and advances	65.90	16.40	16.44
Other Non-Current Assets	27.58	31.61	6.99
Total Non-Current Assets	291.21	348.42	419.81
Current Assets			
Inventories	163.94	238.14	349.11
Trade Receivables	267.15	196.74	299.03
Cash & Cash Equivalents	162.86	127.05	114.28
Investments	17.28	0.52	0.52
Short term loans and advances	20.76	45.72	28.02
Other Current Assets	4.04	5.59	11.23
Deferred government grant receivables	0.90	10.30	-
Total Current Assets	636.93	624.05	802.18
Total Assets	928.14	972.46	1,221.99



FINANCIALS BALANCE SHEET

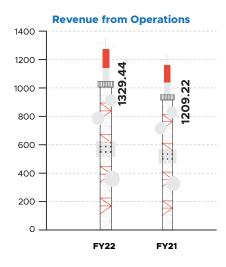


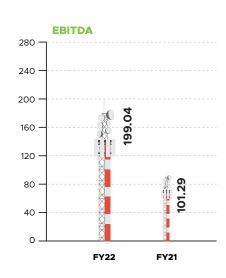
Particulars (₹ in Mn)	As on 31.03.21	As on 31.03.22	As on 30.09.22	
Equity and Liabilities				
Shareholders Fund				
Equity Share Capital	0.50	0.50	113.00	
Reserves & Surplus	591.16	689.12	647.75	
Total Shareholders Fund	591.66	689.62	760.75	
Non-Current Liabilities				
Long Term Borrowings	46.59	27.27	21.92	
Long Term Provisions	15.10	9.43	11.45	
Other Current liabilities	-	-	6.41	
Total Non-Current Liabilities	61.68	36.71	39.78	
Current Liabilities				
Borrowings	10.71	34.52	86.83	
Trade Payables				
- O/S dues of micros & small enterprises	11.94	53.53	75.84	
- O/S dues of creditors other than above	230.31	99.96	192.67	
Other Current liabilities	20.75	53.18	51.41	
Provisions	1.07	4.96	14.73	
Total Current Liabilities	274.79	246.14	421.47	
Total Equity and Liabilities	928.14	972.46	1,221.99	

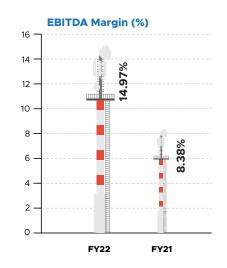


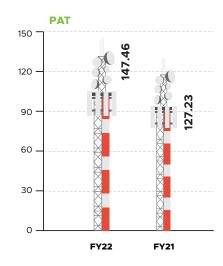
FINANCIALS GRAPHS

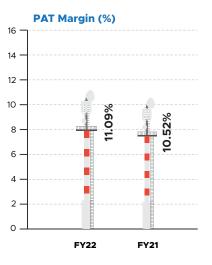






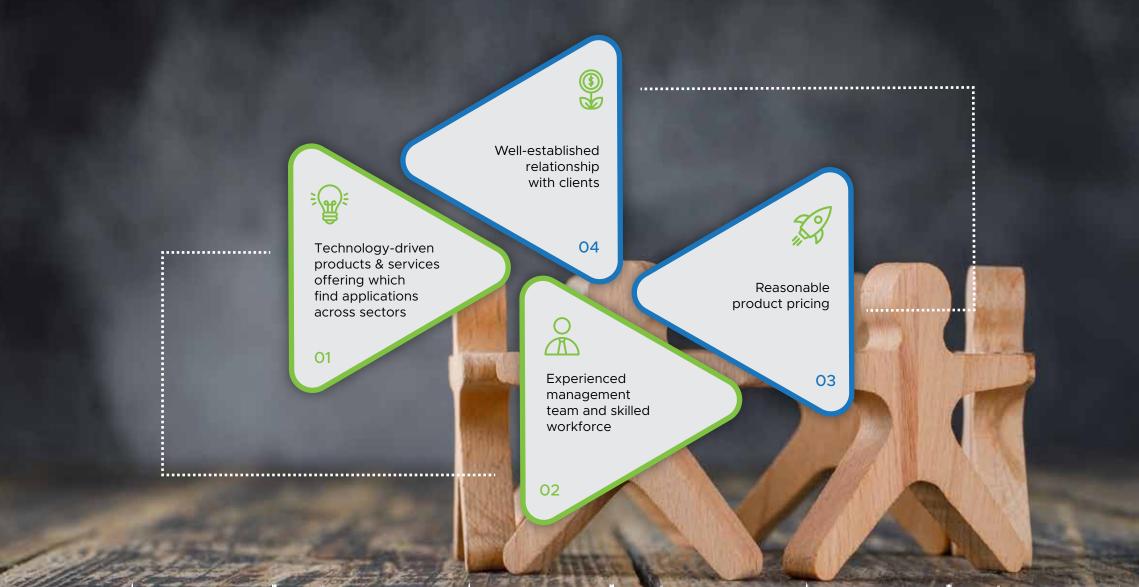






KEY BUSINESS STRENGTHS











Investments in R&D to be in track with the upcoming technology.



Expanding global presence.



Strong
pipeline of
products
having very
specific
applications
catering to
multiple
industries.



Providing special products to Airtel to mitigate interference in their networks.

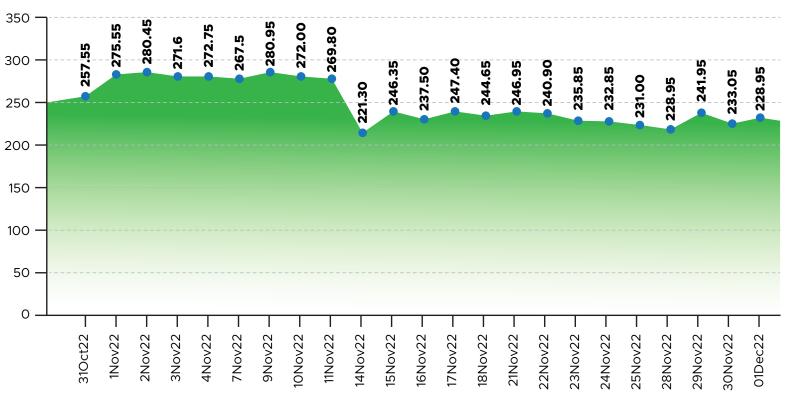
Our continuous efforts to develop new products have been also backed by the GOI's Design-Led manufacturing PLI scheme which showcases our product development strength and our contribution to digitally advanced India.

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CAPITAL MARKET INFORMATION







Market Indicators

Issued Shares	40,75,200
Share Price (06-12-202	22) ₹245.00
Market Cap (₹ MN)	₹3,780.00
52 Weeks High/Low	₹297.00/₹215.85

ABBREVIATIONS / DESCRIPTION



Term	Description Description
BTS	Base Transceiver Station
CPRI	Common Public Radio Interface
DAS	Distrubuted Antenna System
GPS	Global Positioning System
GSMA	Global System fo Mobile Communications
IBS	In-Building Solution
loT	Internet of Things
MIMO	Multiple Input Multiple Output
MVAS	Mobile Value-Added Services
RAN	Radio Access Network
RF	Radio Frequency
RRHs	Remote Radio Heads
RRUs	Remote Radio Units
SISO	Single Input Single Output
TRAI	Telecome Requiatory Authority of India
WANI	Wifi Access Network Interface



For further information on the Company, please visit: www.frogcellsat.com

Thank You

For further information contact:

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Frogcellsat Limited

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Krunal Shah / Naman Maheshwari

Captive IR Strategic Advisors Pvt. Ltd

Contact: +91 93724 67194 Email: IR@frogcellsat.com