



Ref. No.P-66/2024-25/62
November 13, 2024

The Relationship Manager,
Department of Corporate Relations
BSE Limited,
P.J. Towers, Dalal Street
Fort, MUMBAI – 400 001

Dear Sir/Madam,

Please find the enclosed herewith Investor's Presentation / Company Update of Agrochemicals and Diagnostic Kits (Health Care) for your information and necessary action.

Thanking You,
For 3B BlackBio Dx Limited (Formerly, Kilpest India Limited)

**NIKHILKUBER
DUBEY**

Digitally signed by NIKHILKUBER
DUBEY
Date: 2024.11.13 15:08:09 +05'30'

Nikhil Kuber Dubey
Whole Time Director
DIN: 00538049

Encl: As above



3B BlackBio Dx Ltd.

Formerly, Kilpest India Limited & 3B BlackBio Biotech India Limited

Since 1972, 52 Years Strong



Reliable and Affordable Healthcare Diagnostic Solutions



Experts in Molecular Diagnostics throughout Europe

INVESTOR PRESENTATION

November, 2024



Safe Harbour

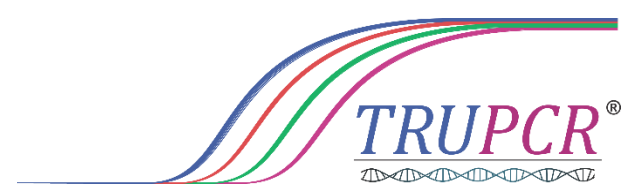
This presentation and the accompanying slides (the "Presentation"), which has been prepared by 3B BlackBio Dx Limited, *formerly Kilpest India Limited and 3B BlackBio Biotech India Limited* (the "Company"), have been prepared solely for information purposes and do not constitute any offer, recommendation or invitation to purchase or subscribe for any securities, and shall not form the basis or be relied on in connection with any contract or binding commitment what so ever. No offering of securities of the Company will be made except by means of a statutory offering document containing detailed information about the Company.

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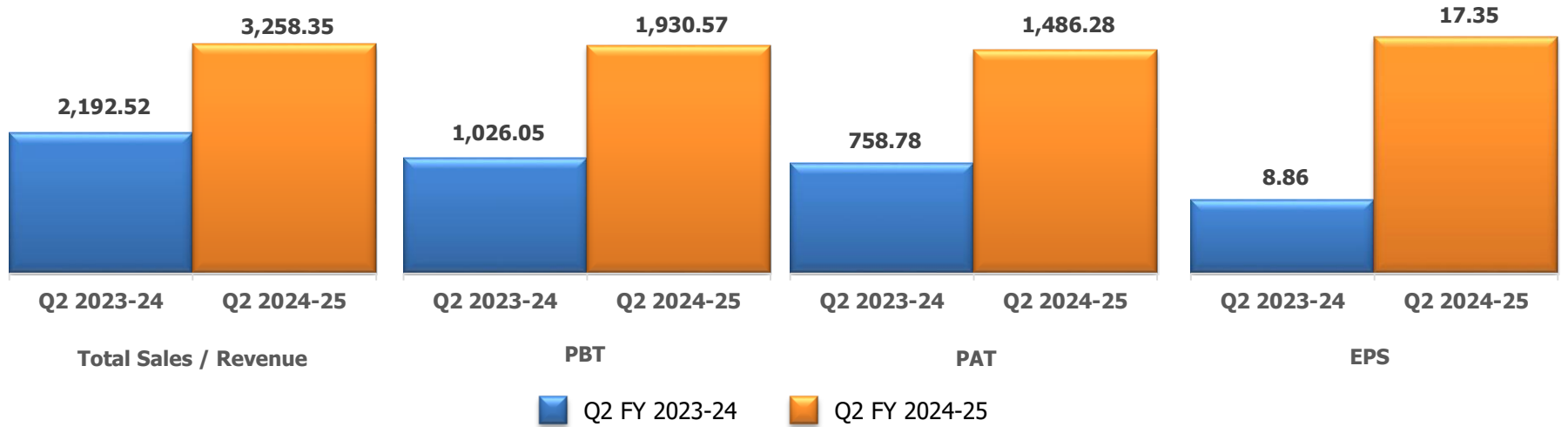
Certain matters discussed in this Presentation may contain statements regarding the Company's market opportunity and business prospects that are individually and collectively forward-looking statements. Such forward-looking statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties and assumptions that are difficult to predict. These risks and uncertainties include, but are not limited to, the performance of the Indian economy and of the economies of various international markets, the performance of the industry in India and world-wide, competition, the company's ability to successfully implement its strategy, the Company's future levels of growth and expansion, technological implementation, changes and advancements, changes in revenue, income or cash flows, the Company's market preferences and its exposure to market risks, as well as other risks. The Company's actual results, levels of activity, performance or achievements could differ materially and adversely from results expressed in or implied by this Presentation. The Company assumes no obligation to update any forward-looking information contained in this Presentation. Any forward-looking statements and projections made by third parties included in this Presentation are not adopted by the Company and the Company is not responsible for such third party statements and projections.



Q2 FY 2024-25
FINANCIAL PERFORMANCE AND KEY HIGHLIGHTS



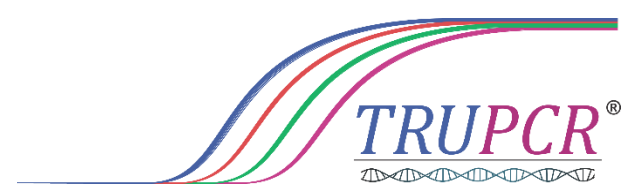
Performance Highlights – Q2 2024-25



Consolidated	Q2 FY24	Q2 FY25
Total Sales / Revenue	2,192.52	3,258.35
Profit Before tax	1,026.05	1,930.57
Profit After tax	758.78	1,486.28
Paid-Up Equity Share Capital	856.64	856.64
Reserves	16,267.62	21,690.58
Earnings Per Share (Rs.)	8.86	17.35

Rs. In Lakh

The above figures include other income as mentioned in the detailed results.



Key Highlights – Agrochemicals (Kilpest)

Main Thrust Area of R&D

- ❑ Development of novel formulations for agriculture and public health which are less harmful and cost effective.
- ❑ Performance monitoring of existing products/process.
- ❑ Improvement in existing products/process with a customer driven approach.

Future Outlook of Agro-Chemical Division

The Agro-Chemical division maintains a steadfast commitment to government procurement, primarily facilitated through electronic tenders on platforms such as GeM. Additionally, the division diligently endeavors to expand its customer base into previously untapped regions. Presently, the Agro business operates with minimal debt, consistent with prior projections. Sales within the agrochemical sector remain stable. Furthermore, the company is intensifying efforts to enhance brand recognition for its offerings in micro fertilizers, bio fertilizers, and public health products.

Agrochemicals Exports

For the first half of fiscal year 2024-25, the export sales of our agrochemicals division amounted to INR 132.94 Lakh exclusively comprising exports to Bangladesh. In the fiscal year 2023-24, our total agrochemical export sales to Bangladesh were INR 190.95 Lakh. Given the current political situation in Bangladesh, these export figures to Bangladesh may be impacted; however, the precise extent of this impact remains uncertain at present.



Agrochemicals (Kilpest) - Existing Products

Chemicals		Biologicals	
	No. of Products		No. of Products
• Insecticides	70	• Bio pesticide	07
• Antibacterials	01	• Bio fungicide	01
• Fungicides	15	• Bio fertilizers	05
• Herbicides	11	• Bio nematicides	01
• Public Health	11	• Public Health	02
• Microfertilizers	02	• Health & Hygiene	06
• Chelated Zinc	01	• Repellents	03
• Plant Growth Regulators	02		

3B BlackBio has been selected as a part of “**Select 200 Companies**” with the global business potential at DGEMS2023 held in Delhi on 27th October 2023 presented by Forbes India & D Globalist.

Forbes^{INDIA}

DGEMS 2023

D Globalist.

Accelerating eXtrepreneurs™

We are proud to be a part of

200

Select
Companies with
Global Business
Potential

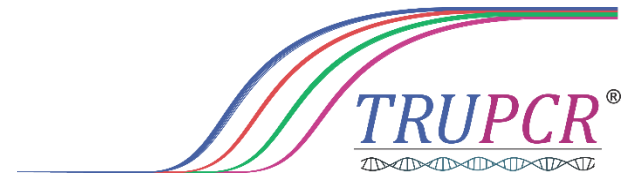


3B BlackBio Dx Ltd.



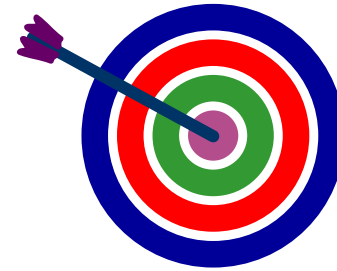
Introduction

- ❑ Incorporated in the year 2011, “**3B BlackBio Dx Limited**” formerly 3B BlackBio Biotech India Limited, is engaged in **Design, Development, Manufacturing and Commercialization of Rapid tests, qPCR tests & NGS based Molecular Diagnostic Kits** for reliable testing on patient samples. In the Year 2023, **3B BlackBio Dx Limited** celebrated the **completion of 13 years** of our success and **stepped into the 14th year**.
- ❑ We are **ISO 13485:2016 certified, GMP Compliant Biotech R&D Organization** licensed by **CDSCO**, Govt. of India, New Delhi
- ❑ “**TRUPCR®**” is our registered brand name for Real-Time PCR based molecular diagnostic kits & “**TRUNGS®**” is our registered brand name for NGS based molecular testing kits. “**TRURAPID®**” is our registered brand name for Lateral Flow assays.
- ❑ With over a **decade of experience in R&D**, we have developed **over 120 assays for molecular testing** and many more are in the pipeline.
- ❑ Proud recipient of the prestigious “**National MSME Award – 2018**” by the **Honourable President of India, Shri Ram Nath Kovind** for our “**TRUPCR® BCR ABL1 Quantitative Kit**”.
- ❑ Honored with “**Outstanding Achievement Award**” in **2022** for the **Second Time** after 2017 for outstanding achievement in Research & Development by “**Federation of Madhya Pradesh Chambers of Commerce**”.
- ❑ **ISO 13485:2016** accredited from **BSI, UK**
- ❑ Part of **Select 200 Companies** with **Global Business Potential** in “**FORBES INDIA DGEMS 2023**”.
- ❑ **Largest suppliers of COVID-19 RT PCR Tests** in India to have supplied **over 16 Million tests** to more than **400 labs** across 80 cities of India.



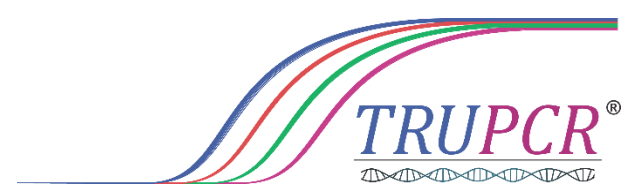
Our Vision:

To offer reliable, affordable and effective healthcare solutions to all by recognizing the great potential of biotechnology to effectively diagnose rare, chronic and severe illnesses.

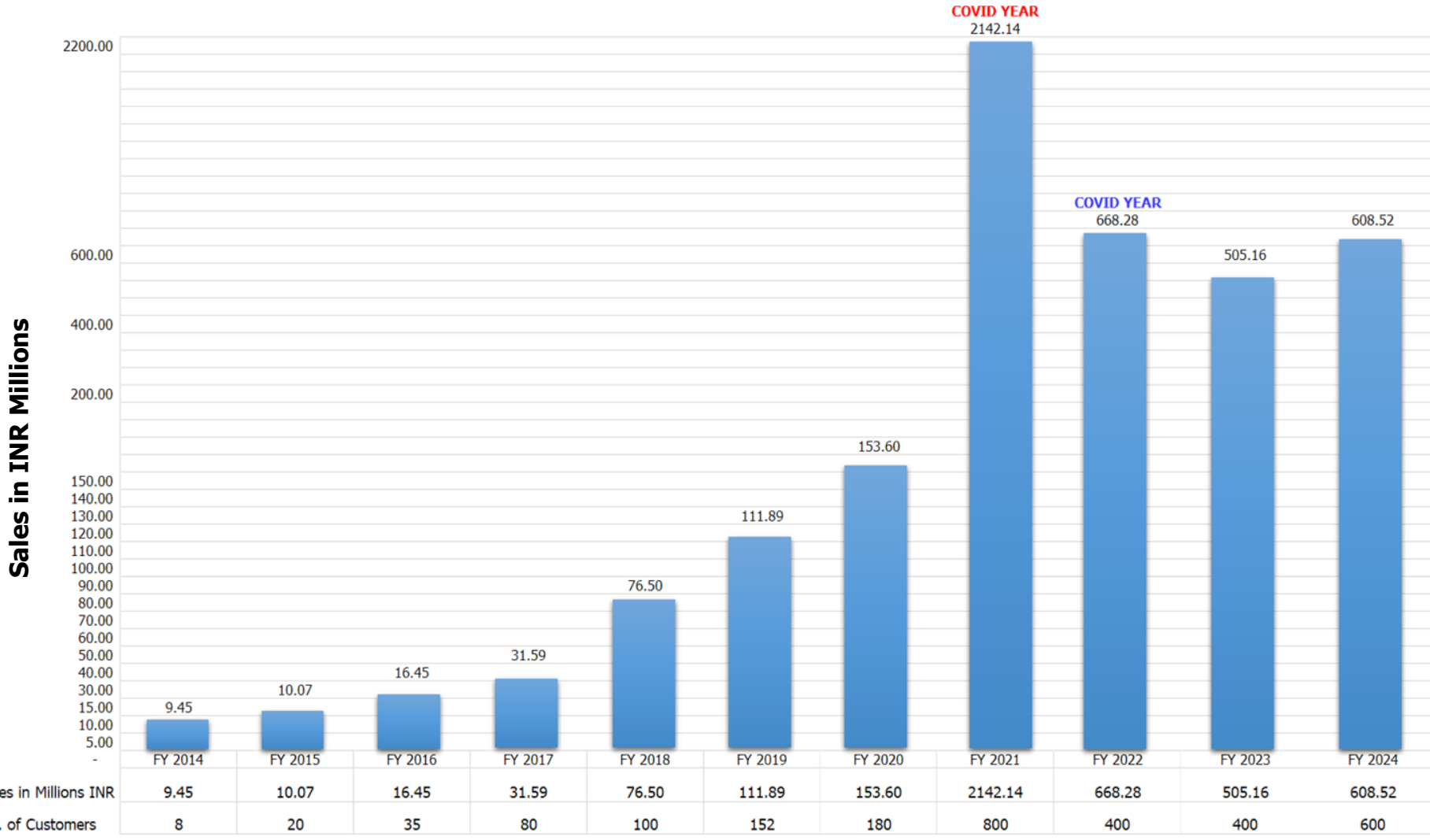


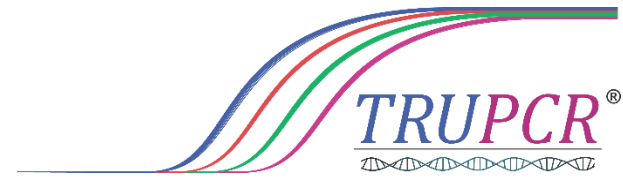
Our Mission:

To design and develop molecular diagnostics products of superior quality and value that continuously improves the patient's life. To become a global organization and to be recognized through quality; innovation and competence.

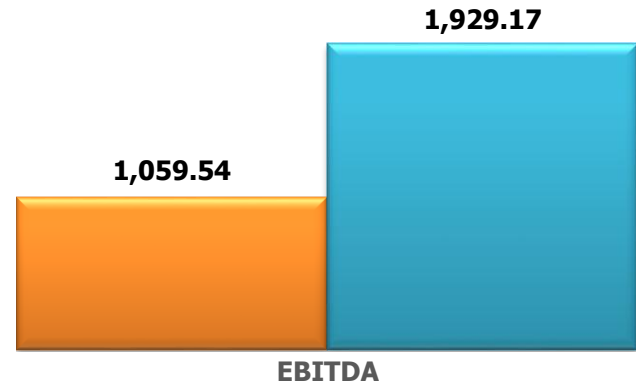
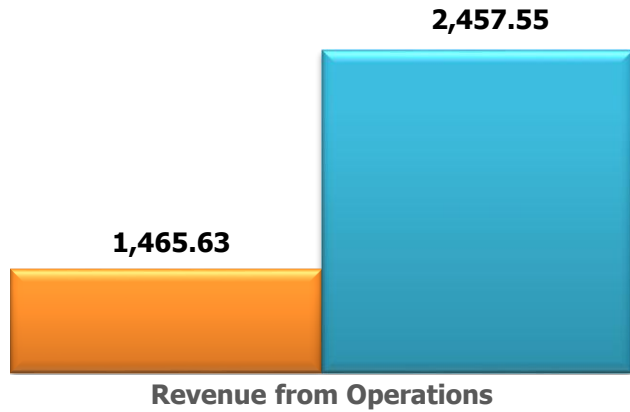


Growth Canvas

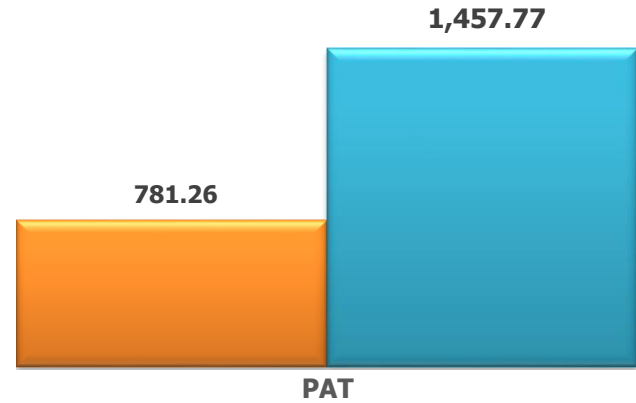
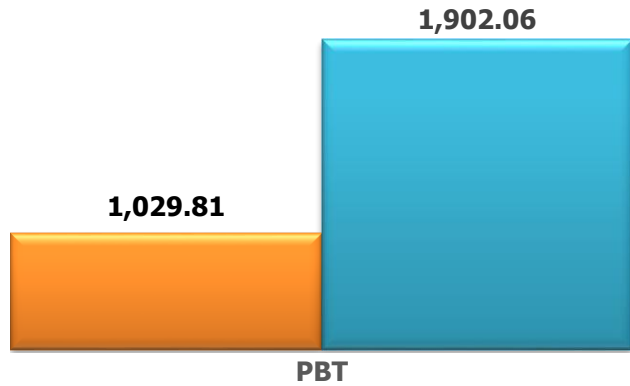




Diagnostics Business - Financial Highlights – Q2 FY 2024-25

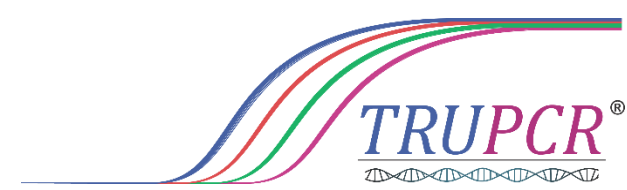


Q2 FY 2023-24
 Q2 FY 2024-25



Rs. In Lakh.

The above are consolidated figures for the Diagnostic Division - 3B BlackBio and TRUPCR Europe.



Our Strategic Priorities



Market Penetration:

Our strategic initiative involves bolstering sales with existing customers and channel partners by expanding the range of products available within their current portfolios.



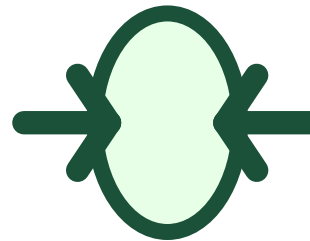
Portfolio Expansion:

Drawing upon our extensive research and development expertise, we aim to enhance our product portfolio by introducing new offerings in the qPCR Diagnostic Kits, Rapid Antigen Vertical and NGS (Next-Generation Sequencing) and Digital PCR segment.



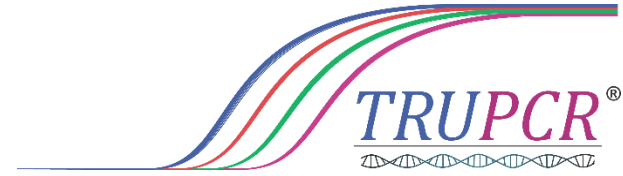
Geographical Reach:

Our strategy involves penetrating new laboratory markets and expanding into the previously untapped territories through direct engagement or collaboration with distributors and channel partners.



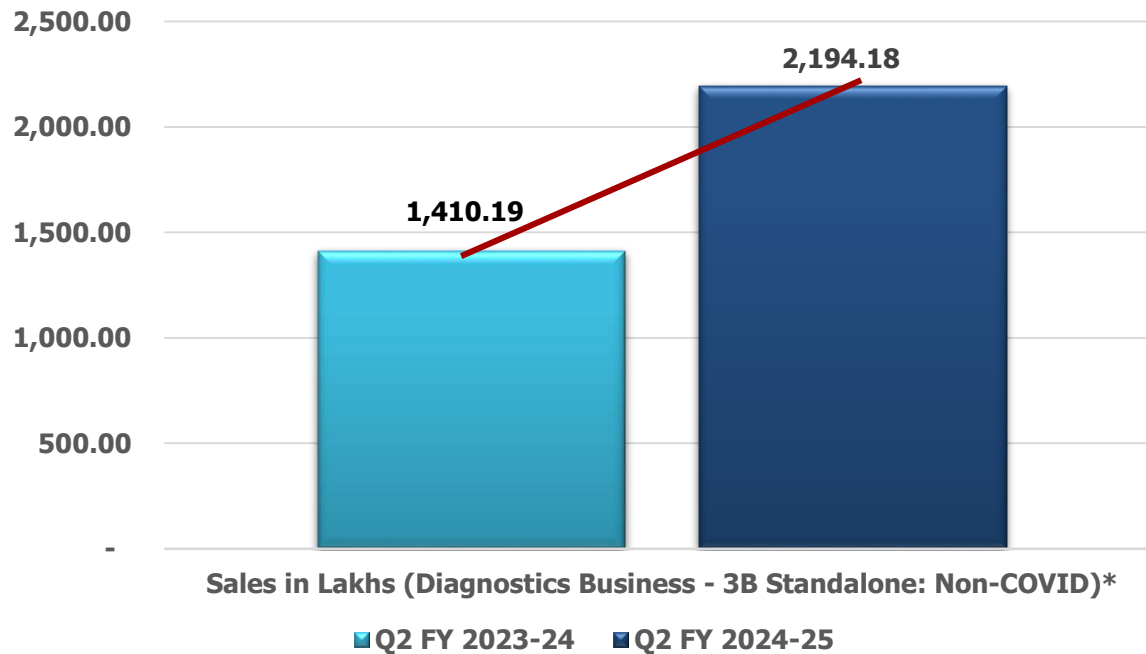
Mergers and Acquisitions:

In the medium to long term, we are exploring strategically targeted mergers and acquisitions that align with our vision for inorganic growth. Our overarching objective is to maximize value for all stakeholders involved.

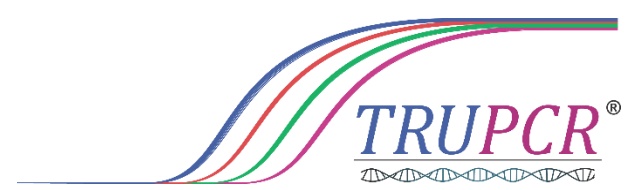


Business Outlook – Molecular Diagnostics (MDx)

Our Q2 Sales have been INR 2,457.55 Lakh (This includes COVID Sales of INR 8.35 Lakh against INR 13.76 Lakh of Q2 2023-24). Sales from TRUPCR Europe Limited, Manchester for INR 440.57 Lakh have also been consolidated in the Q2 sales figures. In Q2 2024-25, the Export Sale for molecular diagnostic kits was INR 366.50 Lakh against INR 170.27 Lakh in Q2 2023-24.



Due to the unprecedented seasonal spike in Flu, Dengue & Chikungunya cases in Q2 2024-25, the sales are on a higher side by over 28% or ₹ 3.80 Cr of total sales. We do not expect this spike to continue in Q3 & Q4. So the extra spiked growth will be lower to that extent going forward. However, for this full year, we will continue to maintain our previous guidance of 20-25% growth.



Our Global Presence

TRUPCR® assays have garnered widespread acceptance in **more than 60 countries** spanning the **UK, Europe, the Middle East, APAC, LATAM, and North America (including the United States and Canada)**. Additionally, we have expanded into new territories across Europe, Africa, Southeast Asia, and the Middle East through strategic partnerships with channel partners. Our company engages in direct exports to international markets and to Europe, through our UK subsidiary.





Exports / International Business

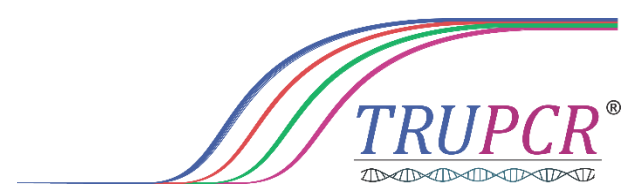
Efforts are underway to continuously enhance our global presence by appointing new channel partners in various countries, thereby augmenting our international reach.

Product registrations have been successfully completed in several countries, with ongoing processes in many others to comply with respective medical devices regulations. These registrations facilitate streamlined market access and preference in the identified regions.

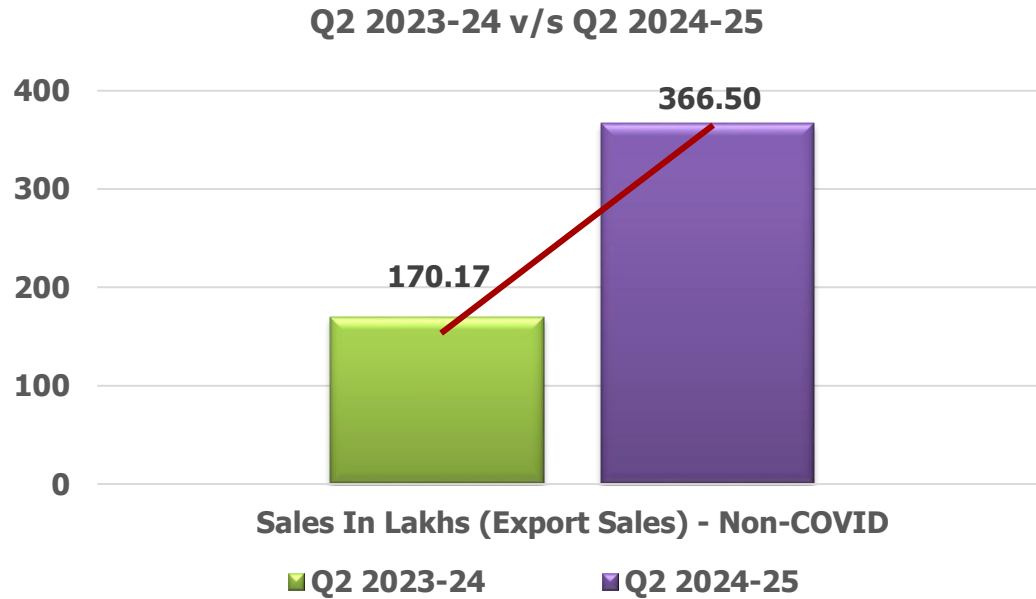
Participation in the international tenders, both independently and through our distributors, has resulted in securing annual rate contracts for our assays in select markets across the Middle East, Southeast Asia, and Europe. These contracts fortify our market position and contribute to the overall value of our business on a global scale. Moreover, ongoing discussions with prominent international distributors for various projects are underway, with anticipated materialization in the fiscal year 2024-25.

Concurrently, efforts to expand our footprint into previously unexplored markets through targeted marketing initiatives are expected to yield tangible results in the upcoming financial year. Thanks to our persistent efforts, we are experiencing significant traction in the Middle East market, evidenced by a consistent influx of orders. This positive reception underscores the effectiveness of our strategies in penetrating and establishing a strong presence in this region.

We are exploring partnerships in the yet untapped markets in Africa, LATAM, APAC and Middle-East which demonstrates a forward-thinking approach to expanding our footprint and capturing new opportunities. Overall, our efforts are well-planned and strategic that will help in positioning our company for continued success in the global market.



Exports / International Business



Our export business (non-COVID sales), has increased substantially in Q2 2024-25 against Q2 2023-24. This increase was due to certain tender business from last year which was materialized in the Q2 this year and substantial increase in business of UK.

Maintaining this momentum, we are well-positioned to further expand our international business. With a targeted growth projection of 20-25%, it's evident that we are poised for continued success in the global market. By leveraging our existing strengths and exploring new opportunities, we are working towards capitalizing on our achievements and drive further growth in the upcoming fiscal year.



Business Model – VGT (Vivid Global Technologies)

We understand that everyone is keen to know the business prospects of the company, particularly following the recent amalgamation (previously also informed in AGM PPT).

In India, we had partnered with M/s Vivid Global Technologies, Delhi (Proprietor – Mr. Prateek Goel), our exclusive Indian channel partner since 2013. He does not have any pecuniary relation with 3B.

Mr. Prateek Goel, with his previous decade long experience with a diagnostic MNC, left his job in 2013 and established Vivid Global Technologies (VGT) to become our exclusive channel partner. His extensive past industry experience and strong customer connections has been instrumental in establishing and scaling our commercial business in India since 2013. VGT exclusively employs for 3B, over 25 well-qualified persons to support sales & marketing and installs equipment for rental model at some places to ensure the desired growth. VGT has also dedicated a large exclusive office-cum-warehousing space for 3B only. Further, VGT works exclusively for 3B and no other companies.

VGT supplies to our over 600 end-customers either directly or through their sub-distributors. VGT and 3B's technical / sales staff coordinate for sales and technical support to customers.

Globally, the exclusive distribution model country-wise, is the most successful and accepted in diagnostic industry because then it ensures full participation of the exclusive distributor to grow business with all resources and efforts. We have been looking to acquire distributors globally and found that they are exclusive distributors of international diagnostic companies, and the exclusivity was the essence of the relationship. Rather, we have also appointed exclusive distributors in other countries for exports and till date this model has been very successful, seeing our growth.

He is a shareholder of our company holding 5.20% shares. However, he is neither related to any promoter of the company nor a part of the promoter group.



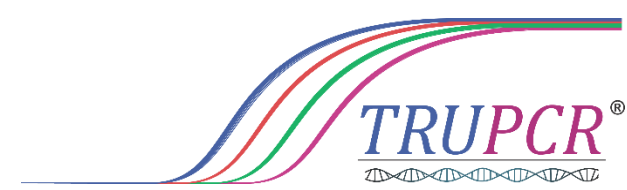
Business Model – VGT (Vivid Global Technologies)

The company operates through three primary sales models in India:

- a) Tender Sales:** This accounts for approximately 5%-7% of the total sales and it depends on type of tender, etc.
- b) Reagent Rental Model:** In this model, we / VGT provide molecular diagnostic equipment to the labs / hospitals with a condition that only our assays are used, these are long-term contracts which are projected to contribute business of 20%-25% for this financial year and coming years.
- c) Other Supplies:** Apart from above, we / VGT sell products to hospitals and labs which comprises the remaining 65%-70% of the total sales.

Liberal Credit Policy

To increase sales and to sustain competition, we are following a liberal credit policy so that the customer is not lost to the competitors due to rigid payment terms (as post COVID there are lot of new diagnostic companies which offer stiff competition). This results in higher debtor level currently which we will gradually bring down.



Technology & Team

We are a proud Indian Company to have developed in-house over 100 assays since 2014, after extensive in-house R&D and validations. The tests developed are of the following technologies:

- a) Real-Time PCR Assays – Mainly over 100 kits
- b) Rapid / Lateral Flow Assays
- c) NGS (Next-Gen Sequencing Assays)
- d) dPCR (Digital PCR Assays) (Upcoming)

We do not pay any royalty to any company, neither we import any kits as all our assays have been developed fully in-house after extensive R&D and validations internally and externally.

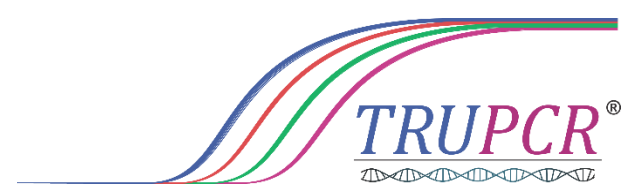
Our R&D team consists of highly skilled Ph.D. experts and senior M.Sc. professionals, each having over 10 years of experience. This extensive expertise significantly strengthens our R&D capabilities, driving innovation and excellence in every assay we develop.

We were the second company to have developed COVID-19 RT PCR Kit duly approved by ICMR and licensed by CDSCO. We were the largest suppliers of COVID-19 RT PCR Tests in India to have supplied over 16 Million tests to more than 400 labs across 80 cities of India which substantiates the above facts.

We do import certain raw materials which are just 5.5% of the total sales.

Other Notes

- 1) One of the old promoters and previous JV partner – M/s 2B BlackBio SL, Spain which holds 2.81% shares, had undergone liquidation way back in 2013. This fact is already mentioned in the NCLT Order and their small shareholding still continues.
- 2) Our previous JV partners – M/s Biotoools B&M Labs, Spain, due to our relationship with them, mentioned our name as their distributor in their website because in 2011-12, if any Indian research lab (as they were supplying to research market), wanted to buy any products from them, it could be routed to us.



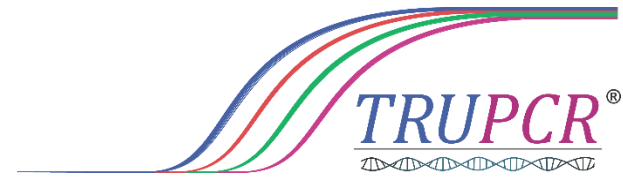
Events & Conferences - International

Our robust international presence is underscored by our active participation in numerous conferences, where we showcase our product range and unveil new product verticals. These conferences serve as invaluable platforms to engage with key stakeholders, forge partnerships, and drive awareness and adoption of our offerings on a global scale.

During **16th August 2023-18th August 2023**, we exhibited at **Medlab Asia 2023** which was held at **Impact Convention Centre, Bangkok, Thailand.**

Medlab Asia has been the leading platform for ASEAN laboratory professionals for over 9 years, providing opportunities for industry experts to connect. This 3 days event is a worth of access to networking and business exchange. The event is expected to welcome a strong distributor audience making up 40% of overall attendees.





Events & Conferences - International

Our participation in the prestigious **MEDLAB MIDDLE EAST 2024** conference, held from February 5th to 8th, 2024, at the World Trade Centre in Dubai, United Arab Emirates, has proven to be highly successful. At this event, we engaged in fruitful discussions with prospective channel partners from new markets, laying the groundwork for potential collaborations. Furthermore, our presence at the conference bolstered the confidence of our existing distributors and channel partners.

We anticipate realizing tangible financial benefits from our participation in this event within the current financial year.



Medlab Middle East

By Informa Markets

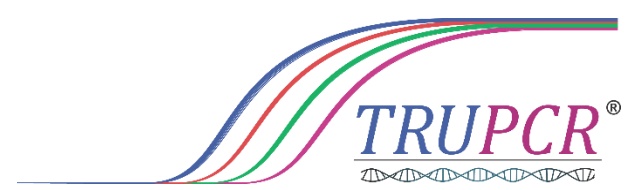




Events & Conferences - INDIA

Our participation in the esteemed **APCON 2023** conference, held from **December 6th-10th 2023**, at the **JLN Stadium, All India Institute of Medical Sciences (AIIMS), New Delhi**, was highly impactful. Additionally, in **November 2023**, our team participated in **MICROCON 2023 – LUCKNOW Chapter**. At both events, we received exceptional feedback from our valued customers, affirming the quality and relevance of our offerings in the field of pathology and microbiology.





Workshops - INDIA

Our sales, marketing, and application teams have been collaborating to organize a series of workshops for both existing users of our kits and prospective clients. These workshops aim to provide valuable insights into the usage and benefits of our products, facilitating enhanced understanding and utilization among participants.





Upcoming Events & Conferences

INTERNATIONAL

We will be participating in the **MEDLAB MIDDLE EAST 2025** conference which is being held from 3rd February 2025 to 6th February, 2025 at the World Trade Centre in Dubai, United Arab Emirates. This event has proven to be highly impactful in laying the groundwork for potential collaborations. Furthermore, our presence at this conference has always bolstered the confidence of our existing distributors and channel partners.

Medlab Middle East



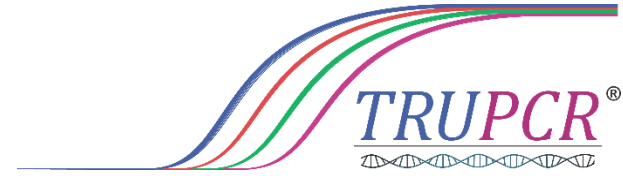
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Visit us at
Booth # Z1.G70

INDIA

We will be participating in several important molecular biology and microbiology conferences in different parts of India during the next few months. These conferences help us promote our latest research, exchange knowledge with experts in the field, and collaborate on cutting-edge scientific developments.





TRUPCR® Europe Limited - Manchester Site

In Q2 2024-25, the sales of TRUPCR® Europe Limited has grown by 51% compared to the sales in Q2 2023-24 which is in line with the expected growth rate of 40-50%.



With the comprehensive setup in Manchester, encompassing sales & marketing, technical support, and research & development, the Manchester Site will continue to grow at a rate of 40% to 50% in this fiscal year.

Having all these functions under one roof can indeed streamline operations and enhance efficiency, especially when it comes to reducing turnaround times and providing timely technical support to customers. With the assays manufactured in the UK, it not only supports efficiency but also adds value by labeling products as "Made in UK," which is a significant selling point for EU customers, given factors like proximity and potential ease of regulatory compliance.

The revenue growth over the past year is a tangible validation of these efforts. It's evident that the strategic investments and focus on enhancing operations are yielding positive results. With this momentum, there's certainly potential for even greater success in the coming calendar year.



TRUPCR® Europe Limited - Manchester Site

TRUPCR Europe has been participating in international molecular diagnostic conferences and organizing training sessions and seminars for customers to showcase expertise, build relationships within the industry, and educate customers about its products and services.



Participating in prominent industry events like the IBMS Congress and the Association for Clinical Genomic Science (ACGS) has not only increased visibility but has also positioned TRUPCR® Europe as a key player in the molecular diagnostics field. The interest generated from these conferences, including distributorship inquiries and requests for OEM solutions, reflects positively on the reputation and perceived value of the TRUPCR® brand.

The Trust of TRUPCR® brand has indeed multiplied, thanks to the efforts of the UK subsidiary, which has been instrumental in expanding into overseas markets and establishing credibility. Ongoing validation processes in new labs further validate the quality and reliability of TRUPCR® products, paving the way for future sales opportunities.

With an established marketing team and enhanced visibility from exhibitions, the Manchester Site is poised to reap significant benefits in the current financial year. The traction from EU customers and the conversion of leads generated from exhibitions indicate promising growth prospects. Exploring partnerships with EU distributors further underscores the commitment to expanding market reach across Europe.



Upcoming Events – TRUPCR® Europe Limited

Our UK team is excited to participate once again in the **MEDICA 2025** conference, taking place from November 11th to 14th, 2024, in Düsseldorf, Germany. As one of the largest and most prestigious B2B medical events globally, MEDICA will host over 5,300 exhibitors from nearly 70 countries and attract around 83,000 visitors. Our participation in last year's event generated significant interest, and we are already seeing promising results that will continue to unfold in the months ahead.

Visit us at booth Hall 1/G01-3

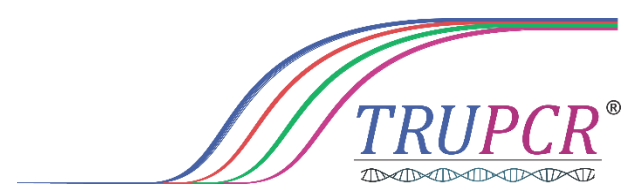


DÜSSELDORF, GERMANY
11-14 NOVEMBER 2024



What Sets us Apart!

- Leading Molecular Diagnostics (MDx) company in India
- Largest Product Range across Infectious & Oncology Assays
- Largest CE-IVD and Indian IVD Product Range
- Large, expansive and highly loyal customer base spread across government & private hospitals and labs in over 55 countries
- Consistently growing since 11 years with strong and established track record
- Well experienced, strong and well retained R&D team
- Widest as well as most unique range of molecular diagnostic kits available anywhere globally
- The only Indian Company to have a subsidiary in UK, establishing our credibility globally
- Both India and UK Sites are ISO 13485 certified by BSI, UK
- Only Indian company to get USFDA (EUA) for COVID in 2020
- Quickest and most reliable large scale production capacity in the entire nation
- Only molecular company globally to integrate offerings for Rapid Diagnostics (Lateral Flow) & NGS solutions and covering the entire range of molecular diagnostic solutions in its true sense



Product Segments

Molecular Microbiology

INFECTIONS

Individual Markers

Infectious Panels

Molecular Oncology

CANCERS

Individual Markers

Oncology Panels

Human Genetics

SYNDROMES &
DISORDERS

Individual Markers

Genetic Panels

Comprehensive Panels for Syndromic Testing

The COVID-19 pandemic has underscored the importance of multiplex PCR assays and syndromic diagnostic testing for infectious diseases, highlighting their utility in rapidly diagnosing and managing contagious illnesses. Syndromic testing, which combines multiple pathogen tests into a single panel targeting specific syndromes, has emerged as a valuable tool in combating the spread of infectious diseases like COVID-19.

By detecting multiple pathogens simultaneously within a short timeframe, syndromic testing reduces the time required to provide a diagnosis. This expeditious diagnosis enables healthcare professionals to make informed therapeutic decisions earlier in the course of the disease, potentially leading to more precise treatment interventions and improved patient outcomes.

TRUPCR[®] has the widest range of comprehensive panels which demonstrates our commitment to meeting the diverse needs of clinicians across various healthcare settings. Whether it's respiratory, gastrointestinal, or other infectious disease syndromes, offering tailored panels ensures that clinicians have access to the necessary diagnostic tools to effectively evaluate and manage their patients.

TRUPCR[®] Flu Panel with RSV Detection Kit

TRUPCR[®] Respiratory Pathogen Panel Kit

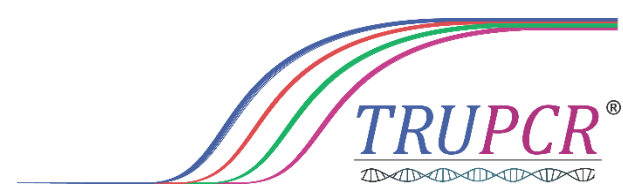


TRUPCR[®] STD Panel Kit

TRUPCR[®] TORCH Panel Kit

TRUPCR[®] Tropical Fever Panel Kit

TRUPCR[®] UTI ID Panel Kit



Antimicrobial Resistance – A Silent Pandemic

Antimicrobial resistance (AMR) has become one of the most significant threats to public health worldwide, often referred to as the "**silent pandemic**" due to its gradual and insidious nature.

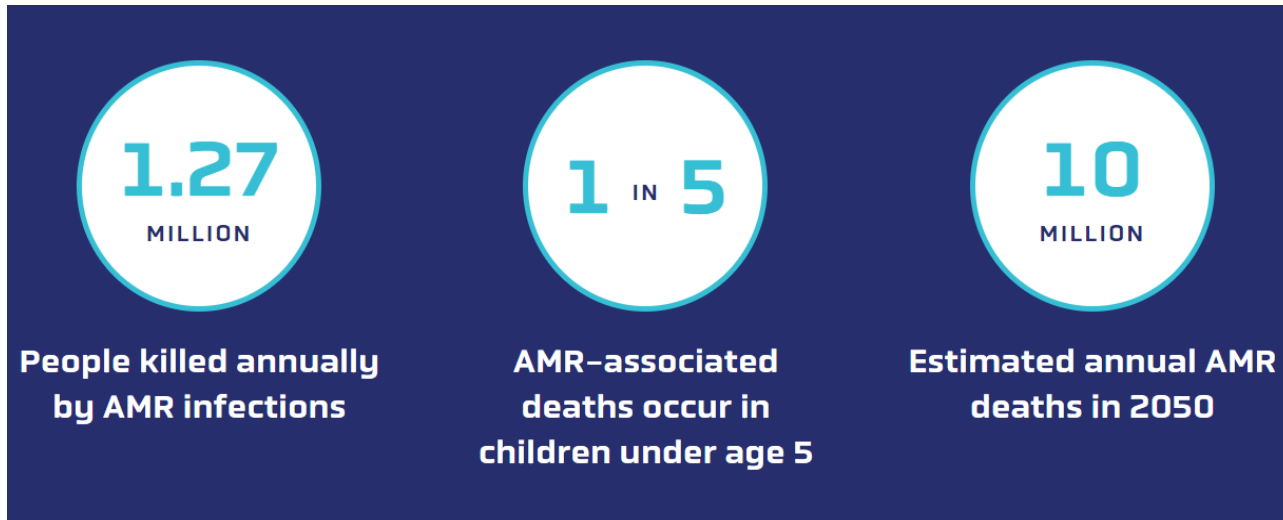
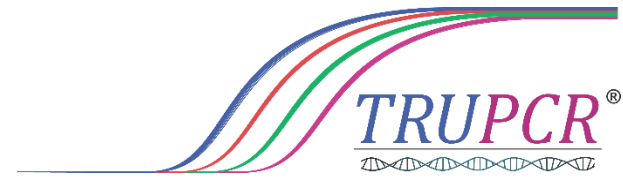


Image Source: AMR Action Fund

- Encouraging judicious use of antibiotics through antibiotic stewardship programs can help mitigate the development and spread of antimicrobial resistance.
- Implementing effective infection prevention and control measures in healthcare settings can help reduce the spread of resistant pathogens.
- Increasing public awareness about antimicrobial resistance and its implications for public health is crucial for fostering behavior change and garnering support for AMR initiatives.
- Increased diagnostic screening to identify the specific pathogens causing an infection and determine their susceptibility to antibiotics.



Solutions by 3B BlackBio to combat Antimicrobial Resistance

We offer an extensive range of RT-PCR-based and lateral flow assays that demonstrates our proactive approach to addressing the global concern of antimicrobial resistance (AMR).

TRUPCR® have both singlex and multiplexing RT-PCR assays for the detection & differentiation of multiple targets responsible for AMR. RT-PCR-based assays are highly sensitive and specific tools for detecting targets associated with antimicrobial resistance genes or markers. These assays enable the rapid identification of resistant pathogens, allowing healthcare providers to prescribe appropriate antimicrobial therapies and implement infection control measures more effectively.

TRUPCR® AST Panel Kit

TRUPCR® UTI AST Panel Kit

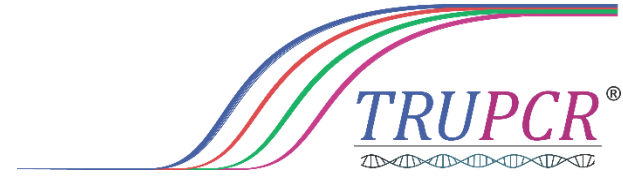
TRUPCR® Carbapenem Resistance Detection Kit



TRUPCR® MRSA Detection Kit

TRUPCR® VRE Detection Kit

TRUPCR® Rifampicin & Isoniazid Resistant MTB Detection Kit



Solutions by 3B BlackBio to combat Antimicrobial Resistance

We are pleased to inform that we have successfully completed the collaborative R&D of the Rapid Tests for Anti-Microbial Resistance (AMR). The below assays have been launched to cater to the AMR segment:

- TRURAPID® RESIST-5 OKNVI Rapid Test (For Resistance in Carbapenems)
- TRURAPID® RESIST ACINETO Rapid Test (For Resistance in Carbapenems in *Acinetobacter* spp.)
- TRURAPID® RESIST CTX-M Rapid Test (For Resistance in Cephalosporins)

■ The TRURAPID® RESIST 5 OKNVI Rapid Test has been sampled in multiple labs and leading hospitals across India and we have started receiving orders as well from some well-established labs as well.

■ This product is used for deciding the patient treatment regimen for the carbapenem antibiotics - imipenem, meropenem, ertapenem and doripenem which are very important for patient management.

■ The benefits of this test is that we can get the result regarding the antimicrobial resistance (AMR) status within 15 minutes of the positive culture or positive blood culture saving the most crucial time for deciding treatment regimen.

■ The current results obtained are very good and its acceptability is also very good. We expect this product to scale up in the future.





Next-Gen Sequencing (NGS) Vertical

We started working on NGS Kit development in 2019, had developed few parameters, but then COVID came and all activities were suspended. Now we are again reviving the NGS kits revalidations and also development of few more parameters, keeping in mind the global markets.



We launched our NGS based “**TRUNGS® Solid Tumor Panel**” for detection of SNVs, Indels, CNVs and RNA fusions in 35 marker genes and hotspots in 6 pharmacogenomics genes associated with solid tumors such as lung, gastro-intestinal/colorectal, breast, liver and ovarian tumors.

Now, after extensive R&D efforts further in the Next-Gen Sequencing Vertical, we have added a few more products in the this portfolio which includes:

- 1) PAN-MYELOID NGS Panel** – A comprehensive NGS solution for detection of variants in 65 genes in myeloid malignancies.
- 2) BRCA Plus Kit** – For detection of germline / somatic mutations associated with breast, ovarian and prostate cancers.
- 3) Endometrial Cancer Panel Kit** – For detection of mutations in certain genes associated with diagnosis and treatment of endometrial cancer as per WHO guidelines.



Digital PCR

Our Research and Development (R&D) team is committed to the ongoing development of innovative products leveraging cutting-edge technologies. Through our dedication to scientific advancement and technological innovation, we strive to address emerging challenges and meet the evolving needs of our customers and stakeholders.

Through our relentless pursuit of excellence, we endeavor to bring to market new products that not only meet but exceed industry standards for quality, performance, and reliability.

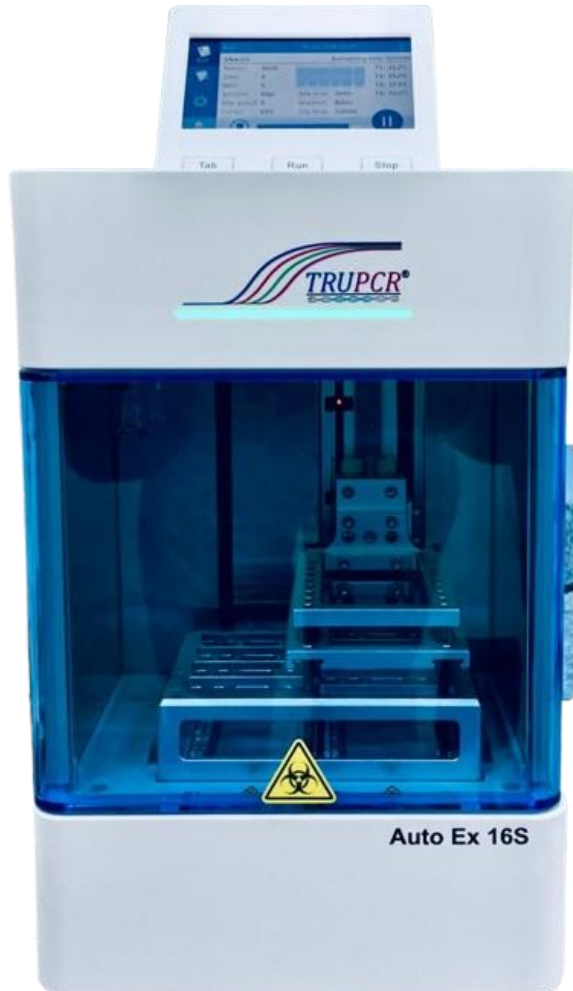
Continuing our journey for R&D, our team has been working on the development of assays based on Digital PCR (dPCR) technology which enables absolute quantification of target nucleic acids.

By leveraging the capabilities of dPCR technology, our R&D team has the opportunity to develop innovative assays that address key challenges in healthcare & biotechnology. This could lead to the development of valuable diagnostic tools with significant impact on disease detection, treatment monitoring, and research advancements.

TRU PCR



Automated Extraction System



Our team alongwith VGT's team has invested considerable time and effort into identifying an automated extraction system that could meet the growing needs of our customers. After a thorough evaluation of available instruments, we are pleased to announce that we have sourced a high-quality solution which is manufactured under OEM. With this new addition, we are confident that we can provide even greater value and help our customers stay ahead in an increasingly competitive landscape.

This instrument is now available for sales / reagent-rental models for our customers to support them in their DNA / RNA extraction processes and the same will be automated.



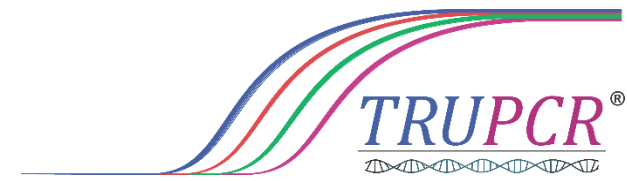
Long Term Contracts

Signing long-term contracts with large customers is a strategic move that provides stability and predictability to the business operations. By securing commitments for 2-3 years, we can better forecast revenue streams and plan resources accordingly, reducing uncertainty and mitigating risks associated with fluctuating market conditions.

Considering the same, we have over 15 contracts already in place (under Reagent-Rental Model) that demonstrates the confidence and trust that customers have in our products and services. From these contracts, we project a business of 20%-25% for this financial year and coming years.

We foresee the below benefits from this business model:

- Steady Revenue Stream
- Enhanced Customer Relationships
- Increased Market Penetration
- Competitive Advantage over peers
- Opportunities for Upselling
- Long-Term Partnerships from new accounts



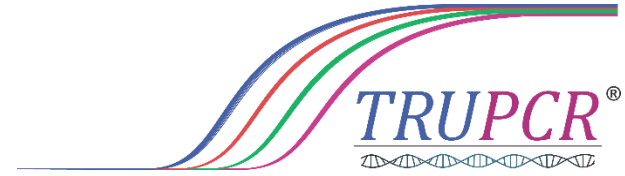
Utilization of Funds

We have been looking for options to acquire a company in similar business area to get inorganic growth since FY22.

M&A valuations globally have gone high due to demand from molecular diagnostic companies which are flushed with cash from COVID. We will only go for the acquisition if it makes financial sense and meets our internal IRR criteria. We would be looking at share buyback at a later date, if we are unable to secure a desired acquisition candidate. Our aim is to create maximum value for our shareholders. We will also be deploying some funds in the joint venture created in Manchester, UK depending on the need.

Expansion and Additional Capacity

Company is continuously investing in building up additional manufacturing and R&D facilities / capacities to cater to the existing business verticals.



Quality & Regulatory



ISO 13485:2016 & GMP Compliant manufacturing under the Medical Device QMS through BSI



Licensed by CDSCO

Licensed by CDSCO, Govt. Of India; equivalent to FDA, for our top-selling parameters in India



Over 120 Parameters are CE-IVD marked



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that:

3B BlackBio Biotech India Limited
a Subsidiary of Kilpest India Limited
7-C, Industrial Area, Govindpura
Bhopal
Madhya Pradesh
462 023
India

Holds Certificate Number:

MD 750282

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 for the following scope:

Design, development, manufacturing, sales & distribution of PCR, Rapid & ELISA in-vitro diagnostic test kits for use in oncology, genetics, infectious, blood-borne & vector-borne diseases.

For and on behalf of BSI:

Gary E Slack, Senior Vice President - Medical Devices

Original Registration Date: 2022-02-02

Effective Date: 2022-02-02

Latest Revision Date: 2022-02-02

Expiry Date: 2025-02-01

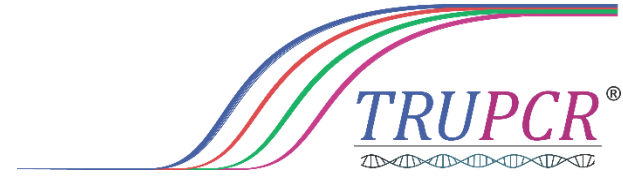


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...making excellence a habit™

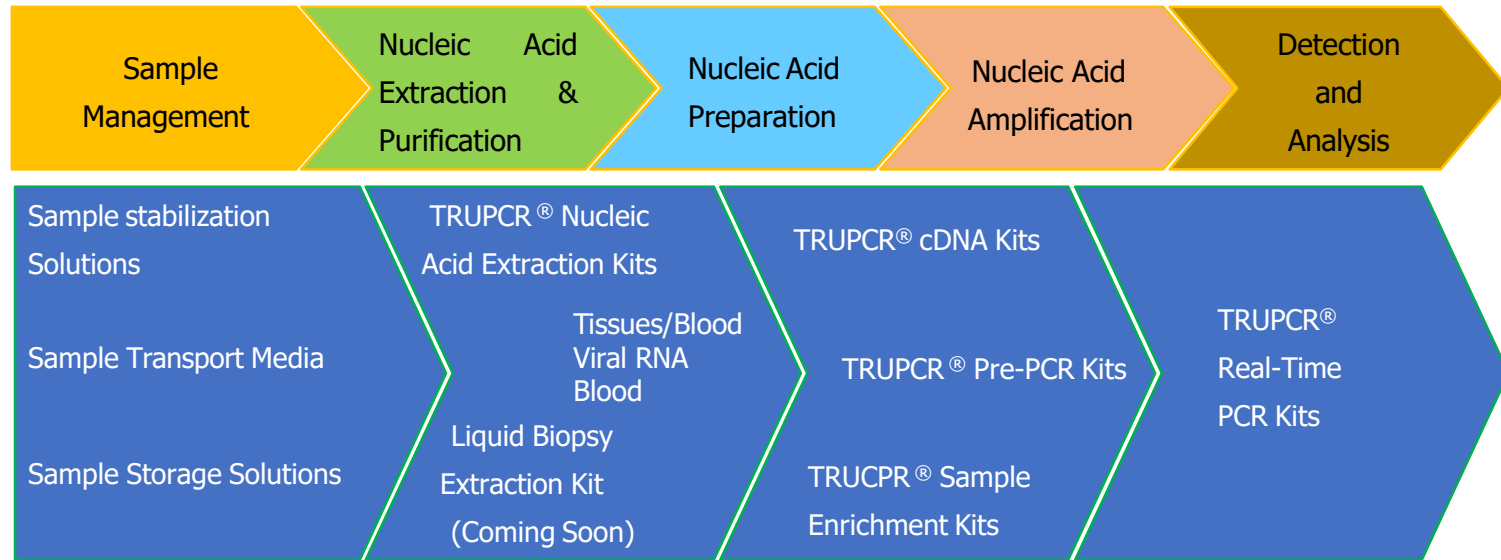
This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated [online](#). Printed copies can be validated at www.bsigroup.com/ClientDirectory.

Information and Contact:
BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands | Tel: +31 20 3460 780
BSI Group The Netherlands B.V. is registered in The Netherlands under number 33264284 | A Member of the BSI Group Holdings B.V.



All Inclusive TRUPCR® Products

TRUPCR® range of products offers end-to-end standardized solutions from samples to optimized end-results





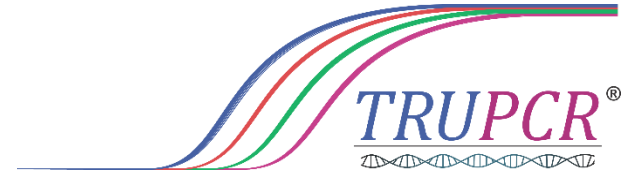
Global Recognition

List of recommended BCR-ABL WHO IS tests

Location of Company	Company	Sensitivity	Complete workflow solution available	Includes Reverse Transcriptase step design	Alignment with IS	Simultaneous step for Major and Minor transcript
France, Europe	Elitech - PCR alert kit	MR4.0	X	X	WHO	X
INDIA	3B BlackBio - TRUPCR[®] BCR-ABL1 Kit	MR4.5	✓	✓	WHO	✓
Italy, Europe	AB Analytica Real quality-RS-BCR- ABL p210	MR4.5-5.0	X	X	WHO	X
Netherlands, Europe	QjagenIS MMR kit	MR4.0	✓	X	WHO	X
Netherlands, Europe	Qjagen BCR-ABL1 MbcR RGQ RT-PCR Kit	MR4.5	✓	✓	WHO	X
Singapore	VelaDx Sentosa [®] SA BCR-ABL Major Quantitative RT-PCR Test	MR4.5	✓	✓	WHO	X
USA	Cepheid Gene Xpert	MR4.0	✓	✓	v1 –sample exchange v2- WHO	X
USA	Cepheid Ultra	MR4.5	✓	✓	WHO	X
USA	EntroGen BCR-ABL p210 (MbcR) One-Step Detection Kit	MR5.0	X	✓	WHO	X
USA	Asuragen QuantideX BCR-ABL IS CMR	MR4.7	✓	X	WHO	X
USA	MolecularMD BCR- ABL1IS MR3 Assay TM	MR3.0	X	X	WHO	X

Only INDIAN company listed in global survey*

**Survey conducted by Diaceutics UK, Consultants to Novartis*



A Notable Pharma Project

TRUPCR[®] BCR-ABL IS Kit along with its user labs, is a proud partner of **NOVARTIS INDIA** for its **MAGIC BULLET**,
GLIVEC[®] (imatinib mesylate)



**150,000
Tests**

have been performed
on



TRUPCR[®] BCR-ABL IS Kit for the **NOVARTIS** Patient Sponsorship / Trials



3B – In Publications

Isolation of *Mycobacterium monacense* from chemoport: A rare case report and review of literature

Dandamudi et al *Mycobacterium monacense* infection of chemoport

Radharani Dandamudi, Lavanva Nambaru, Senthil J Raiaona

www.oncotarget.com Oncotarget, 2018, Vol. 9, (No. 54), pp: 30385-30418

Research Paper

Differential genomics and transcriptomics between tyrosine kinase inhibitor-sensitive and -resistant BCR-ABL-dependent chronic myeloid leukemia

The Chromone Alkaloid, Rohitukine, Affords Anti-Cancer Activity via Modulating Apoptosis Pathways in A549 Cell Line and Yeast Mitogen Activated Protein Kinase (MAPK) Pathway

Safia¹, Mohd Kamil¹, Pooja Jadia², Saba Sheikh¹, Ejazul Haque¹, Aamir Nazir², Vijai Lakshmi³, Snober S. Mir¹*

Proteinaceous Secretory Metabolites of Probiotic Human Commensal *Enterococcus hirae* 20c, *E. faecium* 12a and L12b as Antiproliferative Agents Against Cancer Cell Lines

Many more studies are under publication

Preeti Sharma¹, Sumanpreet Kaur¹, Raminderjit Kaur², Manpreet Kaur³ and Sukhraj Kaur^{1*}

Performance evaluation of TRUPCR[®] HBV Real-time PCR assay for Hepatitis B virus DNA quantification in clinical samples: report from a tertiary care liver centre

Sujata Lall¹ · Manish C. Choudhary¹ · Supriya Mahajan¹ · Guresh Kumar² · Ekta Gupta¹

Genetic association of -1562C>T polymorphism in the *MMP9* gene with primary glaucoma in a north Indian population

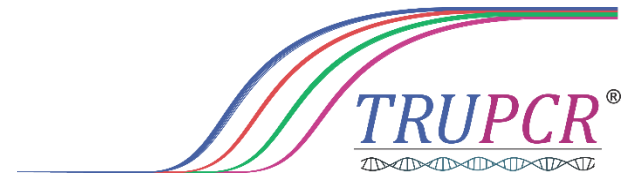
Nanamika Thakur¹, Manu Kupani¹, Rajeev Kumar Pandey², Rashim Mannan³, Archana Pruthi³, Sanjana Mehrotra^{1*}

Comparison of TRUPCR[®] HCV Genotyping Kit and the Abbott Realtime HCV Genotype II Assay for Detecting Hepatitis C Virus Genotype

Dr. Neha Sharma¹ Dr. Reshu Agarwal¹, Dr. Ekta Gupta¹
¹Department of clinical virology, Institute Of Liver And Biliary Sciences, New Delhi, India

Genetic association of -1562C>T polymorphism in the *MMP9* gene with primary glaucoma in a north Indian population

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Growth Drivers

External Growth Drivers

- Improvement in Indian healthcare industry with high demand in medical tourism
- Increasing number of molecular tests being introduced by labs
- Evolution of disease profiles. New viruses and cancers are being diagnosed
- Increase in evidence-based treatments / Drug response monitoring
- Companion diagnostic assays, which aid in determining prognosis and drug response (pharmacogenomics)

Internal Growth Drivers

- India Specific tests with comprehensive validation on MULTIPLE gene pool
- Unique designing strategy for each test to offer something extra for better actionable information
- Compliance with international standards and guidelines
- Comprehensive coverage of genes/targets
- Positioned with cost advantage
- Faster Turn-around time with unmatched customer support



Outstanding Achievement Award for Excellence in R&D by FMPCCI, Bhopal - 2022



3B BlackBio Biotech India Limited received the Outstanding Achievement Award – 2021 by the Honorable Governor of Madhya Pradesh, His Excellency Shri Mangubhai Patel. The award was conferred to us in recognition of our continuous efforts in the field of R&D for developing various molecular diagnostic assays in the MSME Enterprise category during the 6th Outstanding Achievement Award 2021, held on 10th April, 2022 organized by Federation of Madhya Pradesh Chambers of Commerce and Industry (FMPCCI), Bhopal. This is the second time that we have received this honor, first being the 4th Outstanding Achievement Award 2016 received for Outstanding Achievement in R&D awarded in 2017 by the FMPCCI, Bhopal.



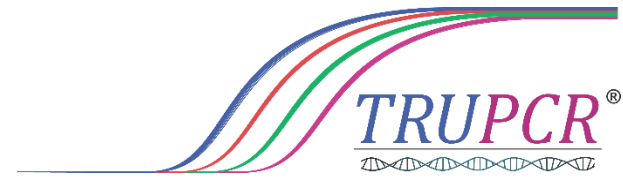
National MSME Award- 2018 by Hon'ble President of India, Shri Ram Nath Kovind.



Hon'ble President of India, Shri Ram Nath Kovind on Friday on the occasion of 20th National Technology Day presented the national award for successful commercialization of indigenous technology at Vigyan Bhavan, New Delhi. 3B BlackBio Biotech India Limited, Bhopal (M.P.) (A subsidiary of Kilpest India Limited) have been declared as the winner of National Award 2018 under MSME category for the successful commercialization of a technology based product- "TRUPCR[®] BCR ABL1 Quantitative Kit" for detection of BCR-ABL1 fusion gene in patients suffering with chronic myeloid leukemia (CML) & monitor response to drug therapy, on WHO international standards.



3B BlackBio Dx Ltd.



JAI HIND