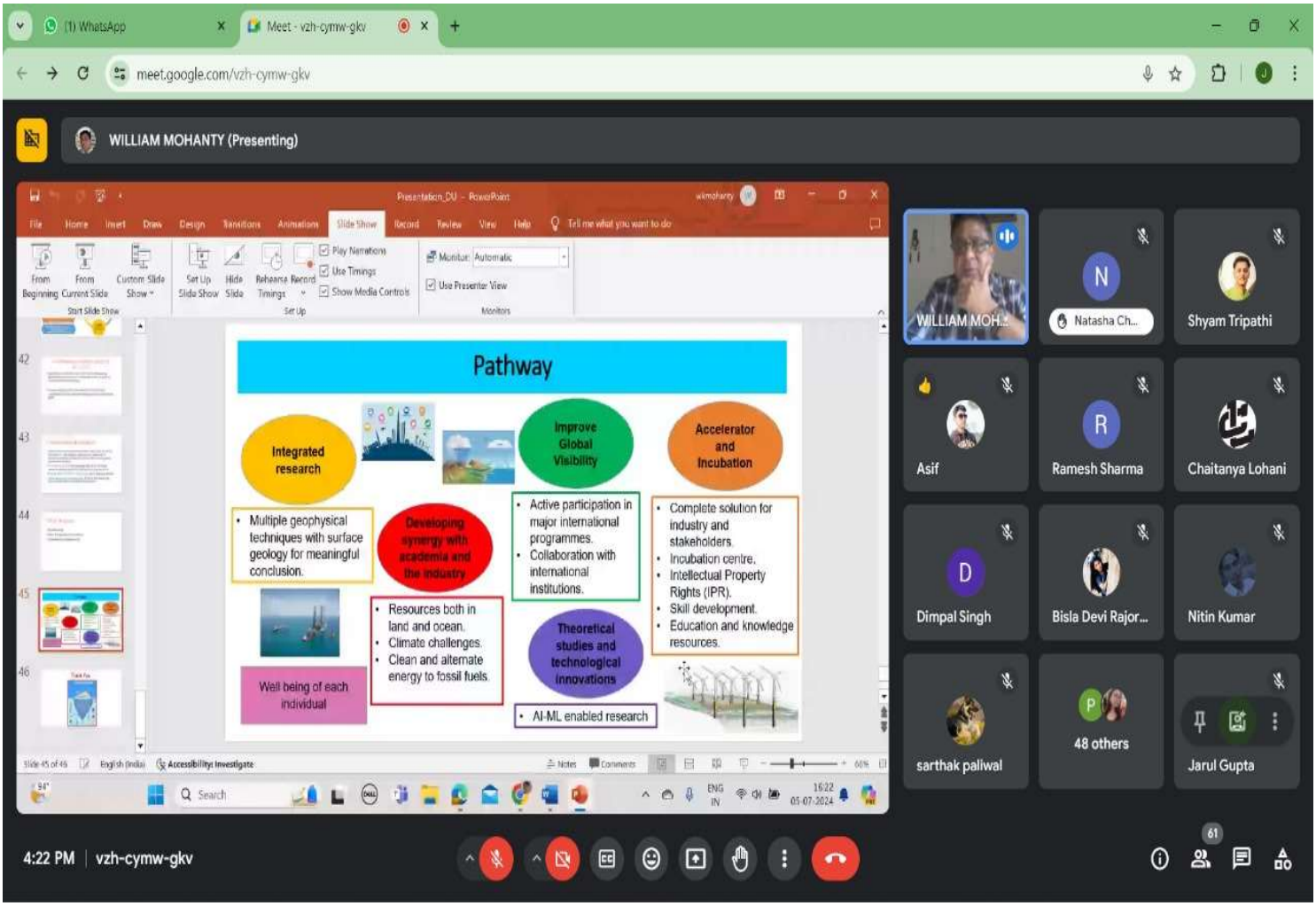
INSTITUTION'S INNOVATION COUNCIL (IIC)

SHYAM LAL COLLEGE, DELHI

Session on Accelerators/Incubation - opportunities for students and faculty aspiring to be Entrepreneurs

05-07-2024

The Institution's Innovation Council of Shyam Lal College, Delhi University, organized a session on Accelerators/Incubation – an opportunity for students and faculty aspiring to be entrepreneurs. The session was held online through Google meet on 5th July 2024 from 3:00 PM onwards. We were Delighted to have Dr. William K. Mohanty, professor in department of Geology & Geophysics at Indian Institute of Technology, Kharagpur on board to share invaluable insights and strategies. The main purpose of this was to understand and discuss the scope and importance of geology and geophysics, highlighting their interdisciplinary nature and applications in areas like earthquake prediction, resource exploration, and climate change mitigation. It emphasizes the need for collaboration across disciplines to address societal challenges effectively.

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WILLIAM MOHANTY
Rabi Kar
Madhav Agar...
Akshita Batra
Shyam Tripathi
Asif
Ramesh Sharma
41 others
GPS Map Camera
New Delhi, Delhi, India
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Lat 28.661594°
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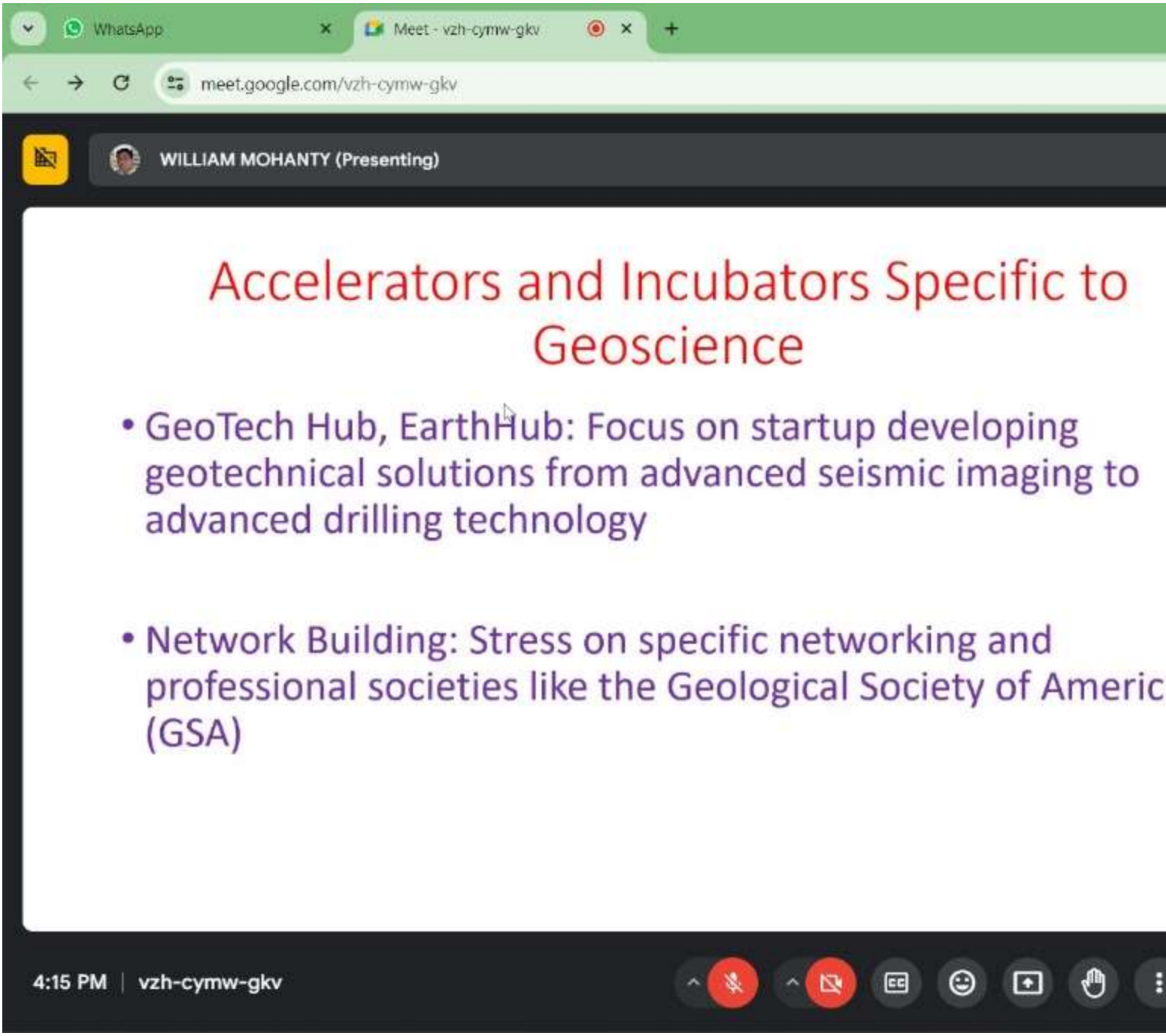
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Meet - vzh-cymw-gkv
meet.google.com/vzh-cymw-gkv
WILLIAM MOHANTY (Presenting)
Accelerators and Incubators Specific to Geoscience
• GeoTech Hub, EarthHub: Focus on startup developing geotechnical solutions from advanced seismic imaging to advanced drilling technology
• Network Building: Stress on specific networking and professional societies like the Geological Society of Americ (GSA)
4:15 PM | vzh-cymw-gkv

Some of the Key moments of this Session:

1. The seminar focuses on interdisciplinary collaboration in geology and geophysics to address societal challenges, emphasizing the need for diverse expertise beyond these fields.

2. The speaker discusses the importance of involving mathematics, physics, and social science in solving geology and geophysics-related problems for a comprehensive approach.

3. Geology and geophysics are interconnected fields that complement each other. Geologists study rocks on the surface, while geophysicists analyze the Earth's interior using equipment and sensors.

   -Different branches within geology include geomorphology, tectonics, sedimentary geology, and mineral resources, each focusing on specific aspects of the Earth's composition and history.

   -Geophysics involves studying physical parameters of the Earth's interior using methods like seismic, magnetic, and electromagnetic surveys, aiding in interpreting geological structures and processes.

4. Geology and geophysics are crucial for understanding the Earth's surface and interior, guiding construction projects and resource utilization. It involves studying rock formations, materials, processes, and historical changes for safe and sustainable development.

-Understanding geomorphology, sedimentary deposits, and river systems helps in predicting and managing geological hazards like floods and earthquakes.

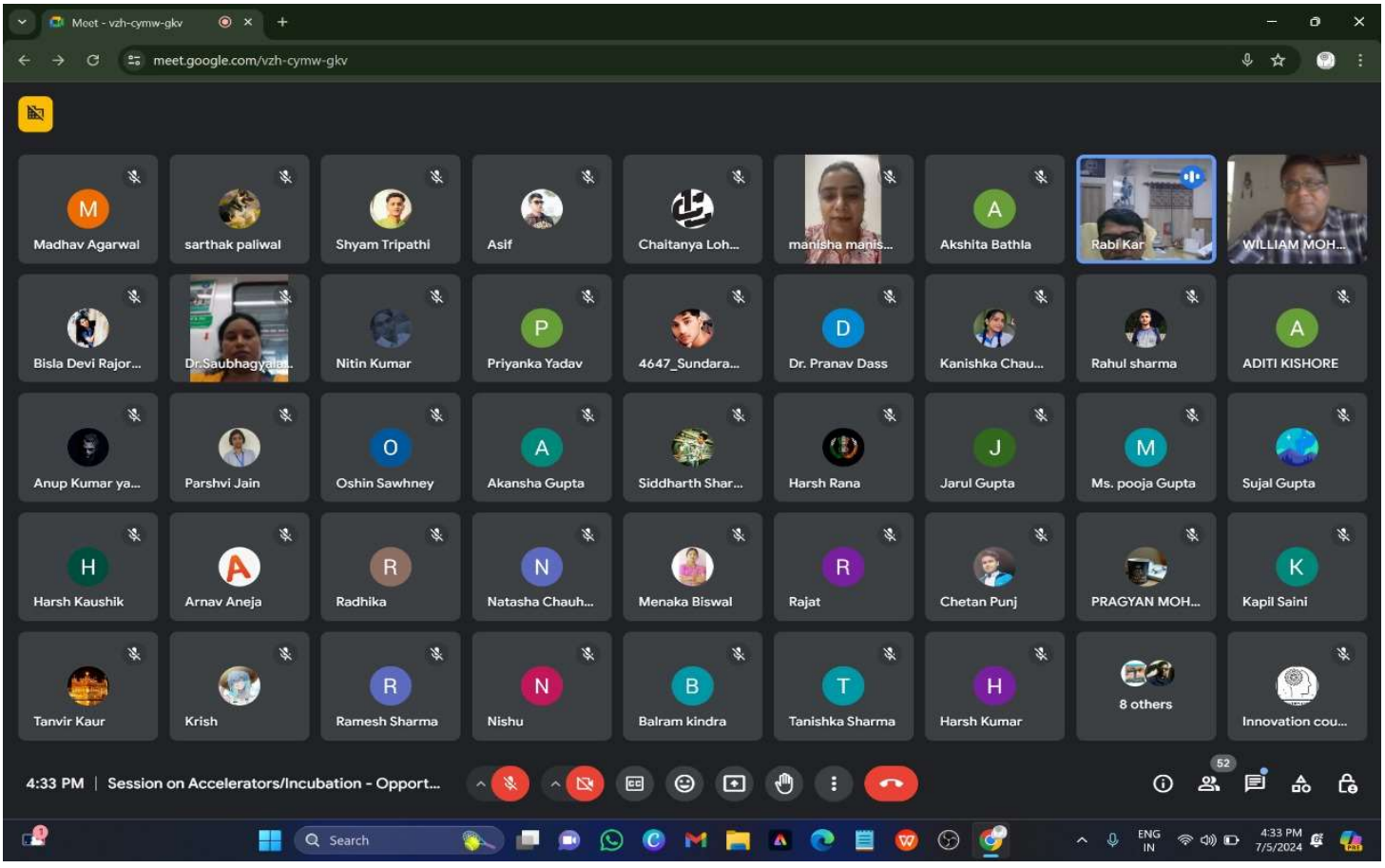
-Engineering geology is essential for designing structures like dams, bridges, and underground facilities by assessing rock types, strengths, and slope variations.

-Geology and geophysics contribute to resource exploration, infrastructure development, and ensuring the safety and sustainability of construction projects.

5. Continental Drift Theory, proposed in 1912, explains how land masses drift apart due to volcanic activities and heat from Earth's interior, impacting seismic activities and shaping Earth's surface over time.

-Plate Boundaries and Magma Movement. The movement of tectonic plates at plate boundaries, interacting with magma, leads to volcanic activities and the formation of new landmasses.

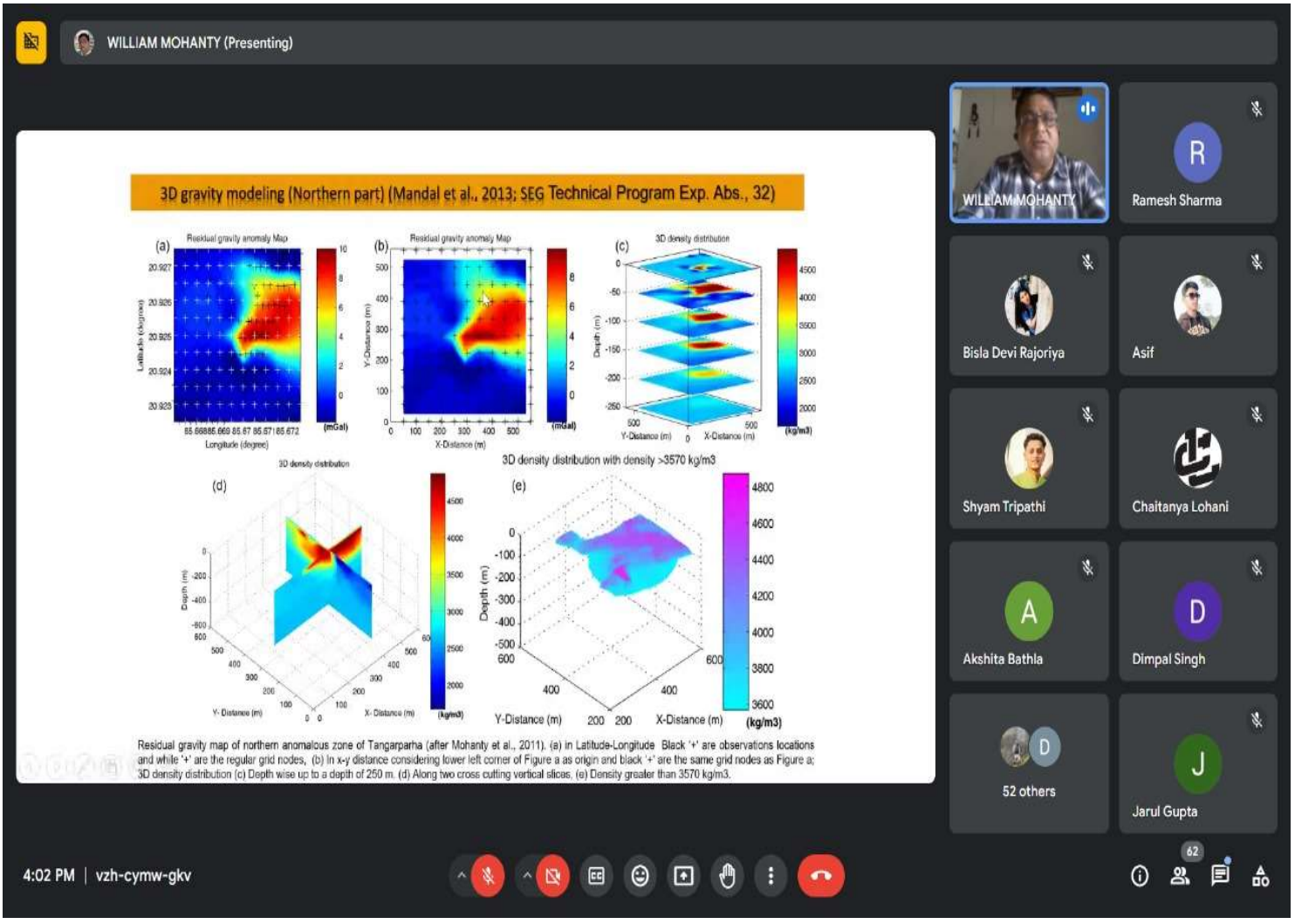
-Seismic Activities and Earth's Shape. Earthquakes, influenced by plate movements and volcanic processes, contribute significantly to casualties, highlighting the dynamic nature of Earth's structure.



6. Geoscientists play a crucial role in sustainable development by addressing environmental challenges through strategies like carbon capture and early warning systems for natural disasters. Collaboration with experts from various disciplines is essential for societal progress and survival in the future.

-Strategies like carbon capture and utilization, as well as early warning systems for earthquakes, are crucial for addressing environmental challenges and ensuring societal well-being.

-Collaboration with experts from different fields such as computer engineering and geology is necessary to develop and implement effective solutions for sustainable development.



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5. Dr. Priyanka
6. Dr. Bisla Devi
7. Dr. Balram kindra
8. Dr sunny Aggarwal
9. Dr. Sushil
10. Dr. Leena Singh
11. Dr. Manisha
12. Prof. Rabi Narayan Kar
12. Mr. Tarun Shankar

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