



A REPORT ON VISIT TO MAPS GRANITO PVT. LTD.

At Morbi, Gujarat

On 09/04/2024.

Dr. Anup Kumar Das
PRINCIPAL
RAJKOT HOMOEOPATHIC MEDICAL COLLEGE
RAJKOT.

ORGANISED BY:



Dr. Anup Kumar Das
HOD 10/04/24
Department of
Community Medicine

DEPARTMENT OF COMMUNITY MEDICINE

GUIDED BY :

**DR. ANUP KUMAR DAS (HOD,
DEPARTMENT OF
COMMUNITY MEDICINE)
DR. HUMANI SHARMA
(ASSISTANT PROFESSOR
OF COMMUNITY MEDICINE)**

PREPARED BY :

**GRISHA THAR
Roll no : 91
4th BHMS (2024 -2026)**

PLACE OF VISIT :-

**MAPS GRANITO Pvt Ltd
Morbi, Gujarat - 363641**

DATE OF VISIT :

09/04/2024

OBJECTIVES OF VISIT

- To understand the role of different industries in prevention and control of **INDUSTRIAL HAZARDS**.
- To understand the ongoing strategies and programmes for prevention and control of **INDUSTRIAL HAZARDS**.
- To understand the epidemiology of the **INDUSTRIAL HAZARDS**.

To understand the impact of hazard created by industries in community.



CLASSIFICATION OF OCCUPATIONAL DISEASES:

I. Diseases due to physical agents

- (1) Heat : Heat hyperpyrexia, heat exhaustion, heat syncope, heat cramps, burns and local effects such as prickly heat.
- (2) Cold : Trench foot, frost bite, chilblains
- (3) Light : Occupational cataract, miner's nystagmus
- (4) Pressure : Caisson disease, air embolism, blast (explosion)
- (5) Noise : Occupational deafness
- (6) Radiation : Cancer, leukaemia, aplastic anaemia, pancytopenia
- (7) Mechanical : Injuries, accidents factors
- (8) Electricity : Burns.

II. Diseases due to chemical agents

- (1) Gases: CO₂, CO, HCN, CS₂, NH₃, N₂, H₂S, HCl,

- (2) Dusts (Pneumoconiosis)

(i) Inorganic dusts :

- (a) Coal dust: Anthracosis
- (b) Silica: Silicosis
- (c) Asbestos: Asbestosis , cancer lung
- (d) Iron: Siderosis

(ii) Organic (vegetable) dusts:

- (a) Cane fibre: Bagassosis
- (b) Cotton dust: Byssinosis
- (c) Tobacco: Tobacossis
- (d) Hay or grain dust: Farmers' lung

- (3) Metals and their compounds: Toxic hazards from lead, mercury, cadmium, manganese, beryllium, arsenic, chromium etc.

- (4) Chemicals : Acids, alkalies, pesticides

- (5) Solvents : Carbon bisulphide, benzene, trichloroethylene, chloroform, etc.

III. Diseases due to biological agents Brucellosis, leptospirosis, anthrax, actinomycosis, hydatidosis, tetanus, encephalitis, fungal infections, etc.

IV. Occupational cancers Cancer of skin, lungs, bladder. V.

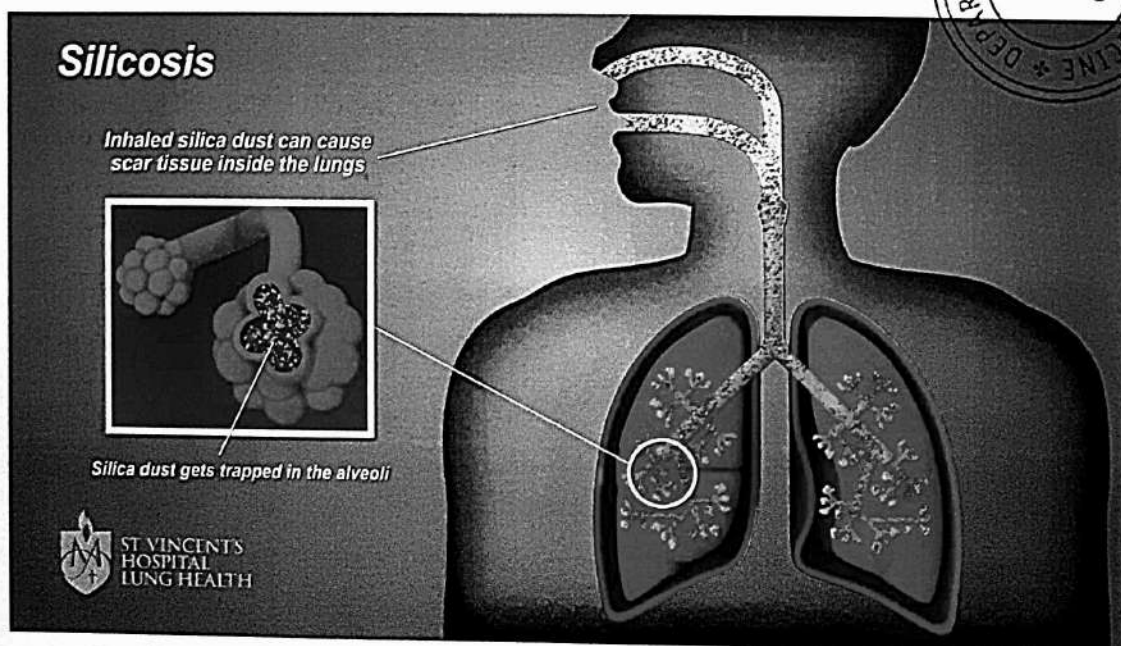
Occupational dermatosis Dermatitis, eczema.

VI. Diseases of psychological origin Industrial neurosis, hypertension, peptic ulcer, etc.



WHAT IS SILICOSIS?

- The term silicosis is reserved for the lung disorder caused by inhalation of free silica, which is an untreatable progressive disease and is the commonest and most widespread of all occupational diseases.
- Exposure to large amount of free silica can pass unnoticed because, silica is odorless, non-irritant and does not cause any immediate noticeable effect and hence is confused with ordinary dust.
- Pneumoconiosis is resulting from exposure to free silica may be the commonest and most extensively studied occupational disease of the lung and even today, it continues to be among the most serious occupational diseases. The problem of silicosis is confined not only to the developing nations, but is also not uncommon in industrialized nations.
- NIOSH has said, "Silica is not just dust but it is dangerous dust". Silicosis increases the risk of contracting Tuberculosis and possibility of developing lung cancer in the future. Silicosis is strongly associated with scleroderma and rheumatoid arthritis.



CLINICAL FEATURES OF SILICOSIS

- Chest pain
- Cough, typically dry & persistent & some times severe
- Cyanosis
- Difficulty in breathing
- Fatigue
- Dyspnea
- Cor pulmonale
- Tachypnoea
- Loss of appetite & Weight loss
- Gradual dark shallow rifts in nail that may eventually lead to cracks as protein fibers within nail bed are destroyed
- Fever



Chronic /Classical silicosis

Most common

20 or more years of exposure

Presence of silicotic nodules

Hallmark

Silicotic nodules develops in the hilar lymph nodes & calcify

Disease progress to **fibrosis** of the upper lobe

Accelerated Silicosis

Heavy exposure for 5 to 10 years

Presence of silicotic nodules

@VijayPatho



<http://dx.doi.org/10.1136/bcr-2013-200362>

Acute Silicosis

heavy exposure over a short period to high levels of silica of small particle size.

silicotic nodules poorly formed or absent

Mimic pulmonary alveolar proteinosis

MANUFACTURING PROCESS PHASES FOR TILES



**1.RAW
MATERIAL
STORAGE**



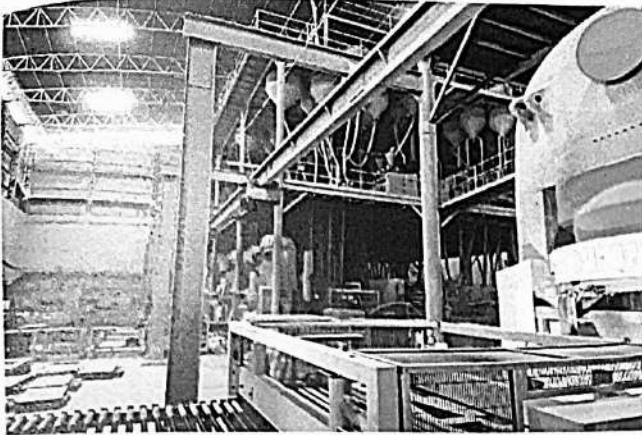
**2.RAW
MATERIALS
WEIGHTING**



**3.RAW
MATERIAL
GRINDING**

4.SPRAY DRYING





5.SPRAY DRIED POWDER PRESSING

6.DESIGN PRINTING



7.POLISHING LINE

8.SORTING AND PACKING



Epidemiological studies on silicosis in India

- There are very few epidemiological studies on silicosis in India where the prevalence of silicosis varies from 3.5% in ordnance factory to 54.6% in slate pencil industry.
- The varying prevalence in various sectors is attributed to the silica concentration in the work environment and duration of exposure to Silica.
- It is probably economic compulsions that the workers choose to work in hazardous environments and are subjected to exploitation.
- Considering the huge population employed in mines, surface industries and unorganized sector that are at risk of silica exposure, it can be presumed on the basis of available studies that several hundred thousand workers in India suffer from silicosis.



CONTROL AND PREVENTION OF OCCUPATIONAL HAZARDS

- The various measures for the prevention of occupational diseases may be grouped under 3 headings:

1. MEDICAL MEASURES
2. ENGINEERING MEASURES
3. STATUTORY OR LEGISLATIVE MEASURES

1. MEDICAL MEASURES:

- Pre Placement Examination
- Periodicals Examination
- Medical And Health Care Services
- Notification
- Supervision Of Working Environment
- Maintenances And Analysis Of Records
- Health Education And Counseling

2. ENGINEERING MEASURES:

- Design Of Building
- Good House-keeping
- General ventilation
- Mechanization
- Substitution
- Dusts
- Enclosure
- Isolation
- Local Exhaust Ventilation
- Protective Devices
- Environmental Monitoring
- Statistical Monitoring
- Research



3. STATUTORY OR LEGISLATIVE MEASURES

- The worker cannot be permitted to endanger his life and limb in an occupation, while the employer makes a fortune. Factory laws, therefore, have been framed in every country to govern the conditions in industry and to safeguard the health and welfare of the worker. The most important factory laws in India today are:

1. The Factories Act, 1948

- The Factories Act, 1948 provides safeguard for workers to protect health, provides for safety at the workplace when dealing with machinery, improves the physical conditions of the workplace, and provides welfare amenities.

2. The Employees' State Insurance Act, 1948

- Its main aim is to provide for compensation to certain employees and their dependents for employment injuries. The ESI Corporation under this Act plays a very important role in this regard. It is responsible for regulating employers' contribution, paying compensation, ensuring compliances, etc.





Parul[®]
University



RAJKOT HOMOEOPATHIC MEDICAL COLLEGE

PARUL UNIVERSITY

DEPARTMENT OF COMMUNITY MEDICINE

PERMISSION LETTER

To
The Managing Director
Maps Granito Pvt. Ltd.
Morbi, Gujarat.

Date- 14-03-2024.

Sub: To arrange an academic Visit to tour esteemed Industry.

Respected sir,

As per the curriculum by the National Commission for homoeopathy (Government of India), it is mandatory to arrange an academic visit for the students of 4th BHMS (Session – 2024 – 2026) at any Industry for their academic purposes. So, in this regard Department of Community medicine is seeking your permission to conduct an Academic Visit to Maps Granito Pvt. Ltd. industry at Morbi, Gujarat, at any convenient date to you, preferably in the last week of March 2024. Our students are eagerly waiting to visit your esteemed industry.

Your kind co-operation is highly solicited.

Thanking you,
Yours faithfully,

Done 14/3/24

Prof (Dr) Anup Kumar Das.

H.O.D.

Department of Community Medicine.

NOD

**Department of
Community Medicine**



14/3/24
Prof (Dr) H.N. Mehta.

Principal.

Rajkot Homoeopathic Medical College.

PRINCIPAL

RAJKOT HOMOEOPATHIC MEDICAL COLLEGE
RAJKOT.

We Allow to Visit on Dated. 9 April 2024.

Rajkot Homoeopathic Medical College
Faculty of Homoeopathy



PARUL UNIVERSITY
RAJKOT HOMOEOPATHIC MEDICAL COLLEGE
DEPARTMENT OF COMMUNITY MEDICINE

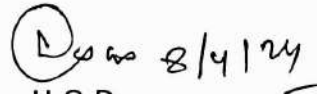
Date - 08-04-2024

CIRCULAR

All the students of ~~4th BHMS~~ (24-26) BHMS are hereby informed that Department of Community Medicine has organized an academic visit to ~~MAPS GRANITO PVT. LTD,~~ MORBI. On 09-04-2024.

Your presence is mandatory. Absence without prior permission will attract a disciplinary action.




H.O.D.

Department of Community Medicine.

HOD
Department of
Community Medicine

RAJKOT HOMOEOPATHIC MEDICAL COLLEGE

PARUL UNIVERSITY

DEPARTMENT OF COMMUNITY MEDICINE

PROPOSAL LETTER

To
The Principal
Rajkot Homoeopathic Medical College,
Parul University, Rajkot.
Gujarat.

Date- 14-03-2024.

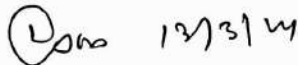
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Your kind co-operation is highly solicited.

Thanking you,
Yours faithfully,



Prof (Dr) Anup Kumar Das.

H.O.D.

Department of Community Medicine.

HOD

Department of
Community Medicine



Rajkot Homoeopathic Medical College, Rajkot**Parul University**

Academic Visit to Maps Granito Pvt. Ltd. 4th BHMS(2024-2026)

No	Name	Signature
1	Aakhunji Tarannum Mahammadshakilbhai	
2	Aailiyani Neer Prakashkumar	
3	Ahir Dineshkumar Bhikhabhai	
4	Ardeshana Naisargee Pravinkumar	
5	Babariya Emani Dineshbhai	
6	Babariya Madhaviben ashvinbhai	
7	Baldha Kruti M.	
8	Bambhoriliya Prushti M.	
9	Bediya Arti Hasmukhbhai	
10	Bhadrecha Krutyaksha Kanaiya	
11	Bhanderi Kishankumar Pravinbhai	
12	Bhindora Aastha Jayeshbhai	
13	Bhut Isha Sanjaybhai	
14	Chaniya Mahek Ibrahimbhai	
15	Chaudhari Krutikumari Pankajbhai	
16	Chaudhari Maitri Vinodbhai	
17	Chauhan Kajal Rasikbhai	
18	Chauhan Mahima Ghanshyambhai	
19	Chauhan Poojaben Baldevbhai	
20	Chauhan Pradip Chandubhai	
21	Chavda Manas Rajeshbhai	
22	Chavda Vishvrajsinh J.	
23	Chudasama Brinda Bakulkumar	
24	Dalsania Dhwani Vijay	
25	Dangar Priyanka Amarshibhai	
26	Dedakiya Urvi Denishkumar	
27	Deraiya Sahil Gafarbhai	
28	Dharaviya Manisha Rameshbhai	
29	Dholakia Shreya Rajeshbhai	
30	Dholariya Rajan Sanjaybhai	
31	Dobariya Dhruvkumar Hasmukhbhai	
32	Dobariya Nirali Rameshbhai	
33	Gamit Sanjanaben Prakashbhai	
34	Gohel Parth Mayurbhai	
35	Gohel Priya Jagadishbhai	
36	Gojiya Kirti Kanabhai	
37	Gosai Kirti Atulpuri	
38	Jagiyani Aman Prakashbhai	
39	Javiya Hetviben Jayantibhai	
40	Jobanputra Kashish Vijaybhai	
41	Jogani Abhishek Ashokbhai	
42	Joshi Palakben Maheshkumar	
43	Kanajariya Kaushik Kantilal	
44	Kanzariya Siddhi Bhaveshbhai	
45	Kareliya Rutvi Balmukundbhai	
46	Khunt Manali Kaushikbhai	
47	Koriya Janki Navnitkumar	
48	Kukadia Gautami Dineshbhai	
49	Labdiya Divya Pravinbhai	
50	Limbasiya Dhruvi Rameshbhai	
51	Limbasiya Jatin Rameshbhai	
52	Maheshwari Mahek Manojbhai	



No	Name	Signature
53	Makwana Hardik Rajeshbhai	
54	Makwana Nishit Nileshbhai	
55	Makwana Omika Vikrambhai	
56	Manchandia Jatin Pradeep	
57	Maradiya Meet Hiteshbhai	
58	Mendpara Priyanshu A.	
59	Mer Nimit Arvindbhai	
60	Mevada Krupali Dipakbhai	
61	Mevasiya Anjali Rajeshbhai	
62	Multani Sarfraj Abbasbhai	
63	Nakum Prakash Vijaybhai	
64	Nariya Hetvi Mitesh	
65	Pabari Esha K.	
66	Padnani Dev Rameshbhai	
67	Pambhar Manan Kishorbhai	
68	Pambhar Viraj Girishbhai	
69	Paradava Shivani Sukhlal	
70	Parakhiya Gopi Jagdishbhai	
71	Parekh Kesha Manojbhai	
72	Parkara Khyati Sanjaybhai	
73	Parmar Khushali Mahendrabhai	
74	Parmar Pratik Amarshibhai	
75	Parmar Priyaben Jayeshbhai	
76	Patat Bhautik Devashibhai	
77	Patel Arpita Bhaskarbhai	
78	Patodiya Isha Dilipbhai	
79	Prajapati Satishbhai L.	
80	Rajatiya Vishva Laxmanbhai	
81	Rughani Jay Harshadbhai	
82	Sagpariya Kruti Batukbhai	
83	Sangani Fenaben Sanjaybhai	
84	Satasiya Hemangiben Bhaveshbhai	
85	Savani Kinnari Jitendrabhai	
86	Shah Devanshi Virendra	
87	Sheikh Mahir Mohammad Ishaq	
88	Solanki Jagruti Jayantibhai	
89	Solanki Prakruti Paragbhai	
90	Soni Niyati Hiteshbhai	
91	Thar Grisha Shilpesh	
92	Tilala Dhru Chetanbhai	
93	Vadher Bhargav Vijaybhai	
94	Vadher Jay Dhirajbhai	
95	Vadodariya Krupa Shaileshbhai	
96	Vagadiya Dharmik Parsotambhai	
97	Vaghasiya Smruti Ashokbhai	
98	Vaghela Priya Rameshbhai	
99	Vakhariya Asfak U.	
100	Vala Abhijit Ranjitbhai	
101	Valand Parth Mitulbhai	
102	Vithalani Kaveri Bhavinkumar	
103	Vithlani Dev Piyushbhai	
104	Zala Jahnavi Ketanbhai	
105	Humbal Mansi Atulbhai	
106	Kanzariya Bhavik Vinodbhai	



HOD
Department of
Community Medicine

Rajkot Homoeopathic Medical College
Parul University, Rajkot
 Academic Visit to Maps Granito Pvt.Ltd.for 4th B.H.M.S.(2024-2026)
 Date

R.No.	E.No.	Name	Signature
1	200409101001	Aakhunji Tarannum Mahammadshakilbhai	TAM
2	200409101002	Aailiyani Neer Prakashkumar	Neer
3	200409101003	Ahir Dineshkumar Bhikhabhai	Ahir
4	200409101004	Ardeshana Nalsargee Pravinkumar	Ardeshana
5	200409101005	Babariya Emani Dineshbhai	Babariya
6	200409101006	Babariya Madhaviben ashvinbhai	Babariya
7	190409101004	Baldha Kruti M.	Baldha
8	200409101007	Bambhoriliya Prushti M.	Bambhoriliya
9	200409101008	Bediya Arti Hasmukhbhai	Bediya
10	200409101009	Bhadrecha Krutyaksha Kanaiya	Bhadrecha
11	200409101010	Bhanderi Kishankumar Pravinbhai	Bhanderi
12	200409101011	Bhindora Aastha Jayeshbhai	Bhindora
13	200409101012	Bhut Isha Sanjaybhai	Bhut
14	200409101013	Chaniya Mahek Ibrahimbhai	Chaniya
15	200409101014	Chaudhari Krutikumari Pankajbhai	Chaudhari
16	200409101015	Chaudhari Maitri Vinodbhai	Chaudhari
17	200409101016	Chauhan Kajal Rasikbhai	Chauhan
18	200409101017	Chauhan Mahima Ghanshyambhai	Chauhan
19	200409101018	Chauhan Poojaben Baldevbhai	Chauhan
20	200409101019	Chauhan Pradip Chandubhai	Chauhan
21	200409101020	Chavda Manas Rajeshbhai	Chavda
22	180409101015	Chavda Vishvarajsinh J.	Chavda
23	200409101021	Chudasama Brinda Bakulkumar	Chudasama
24	200409101022	Dalsania Dhwani Vijay	Dalsania
25	200409101023	Dangar Priyanka Amarshibhai	Dangar
26	200409101024	Dedakiya Urvi Denishkumar	Dedakiya
27	200409101025	Deraiya Sahil Gafarbhai	Deraiya
28	200409101026	Dharaviya Manisha Rameshbhai	Dharaviya
29	200409101027	Dholakiya Shreya Rajeshbhai	Dholakiya
30	200409101028	Dholariya Rajan Sanjaybhai	Dholariya
31	200409101029	Dobariya Dhruvkumar Hasmukhbhai	Dobariya
32	200409101030	Dobariya Nirali Rameshbhai	Dobariya
33	200409101031	Gamit Sanjanaben Prakashbhai	Gamit
34	200409101032	Gohel Parth Mayurbhai	Gohel
35	200409101033	Gohel Priya Jagadishbhai	Gohel
36	200409101034	Gojiya Kirti Kanabhai	Gojiya
37	180409101029	Gosai Kirti A.	Gosai
38	200409101037	Jagiyani Aman Prakashbhai	Jagiyani
39	200409101038	Javiya Hetviben Jayantibhai	Javiya
40	200409101039	Jobanputra Kashiish Vijaybhai	Jobanputra
41	200409101040	Jogani Abhishek Ashokbhai	Jogani
42	200409101041	Joshi Palakben Maheshkumar	Joshi
43	200409101042	Kanajariya Kaushik Kantilal	Kanajariya
44	200409101043	Kanzariya Siddhi Bhaveshbhai	Kanzariya
45	200409101044	Kareliya Rutvi Balmukundbhai	Kareliya
46	200409101045	Khunt Manali Kaushikbhai	Khunt
47	200409101046	Koriya Janki Navnitkumar	Koriya
48	200409101047	Kukadia Gautami Dineshbhai	Kukadia
49	200409101048	Labdiya Divya Pravinbhai	Labdiya
50	200409101049	Limbasiya Dhruvi Rameshbhai	Limbasiya
51	200409101050	Limbasiya Jatin Rameshbhai	Limbasiya
52	200409101051	Maheshwari Mahek Manojbhai	Maheshwari

R.No.	E.No.	Name	Signature
53	200409101052	Makwana Hardik Rajeshbhai	Hardik
54	200409101053	Makwana Nishit Nileshbhai	Nishit
55	200409101054	Makwana Omika Vikrambhai	Omika
56	200409101055	Manchandia Jatin Pradeep	Jatin
57	200409101056	Maradiya Meet Hiteshbhai	Meet
58	200409101057	Mendpara Priyanshu A.	Priyanshu
59	200409101058	Mer Nimit Arvindbhai	Nimit
60	200409101059	Mevada Krupali Dipakbhai	Krupali
61	200409101060	Mevasiya Anjali Rajeshbhai	Anjali
62	200409101061	Multani Sarfraz Abbasbhai	Sarfraz
63	200409101062	Nakum Prakash Vijaybhai	Prakash
64	200409101063	Nariya Hetvi Mitesh	Hetvi
65	190409101059	Pabari Esha K.	Esha
66	200409101064	Padnani Dev Rameshbhai	Dev
67	200409101065	Pambhar Manan Kishorbhai	Manan
68	200409101066	Pambhar Viraj Girishbhai	Viraj
69	200409101067	Paradava Shivani Sukhlal	Shivani
70	200409101068	Parakhiya Gopi Jagdishbhai	Gopi
71	200409101069	Parekh Kesha Manojbhai	Kesha
72	200409101070	Parkara Khyati Sanjaybhai	Khyati
73	200409101071	Parmar Khushali Mahendrabhai	Khushali
74	200409101072	Parmar Pratik Amarshibhai	Pratik
75	200409101073	Parmar Priyaben Jayeshbhai	Priyaben
76	200409101074	Patat Bhautik Devashibhai	Bhautik
77	200409101075	Patel Arpita Bhaskarbhai	Arpita
78	200409101076	Patodiya Isha Dilipbhai	Isha
79	190409101069	Prajapati Satish L.	Satish
80	200409101077	Rajatiya Vishva Laxmanbhai	Vishva
81	200409101078	Rughani Jay Harshadbhai	Jay
82	200409101079	Sagpariya Kruti Batukbhai	Kruti
83	200409101080	Sangani Fenaben Sanjaybhai	Fenaben
84	200409101081	Satasiya Hemangiben Bhaveshbhai	Hemangiben
85	200409101082	Savani Kinnari Jitendrabhai	Kinnari
86	200409101083	Shah Devanshi Virendra	Devanshi
87	200409101084	Sheikh Mahir Mohammad Ishaq	Mahir
88	200409101085	Solanki Jagruti Jayantibhai	Jagruti
89	200409101086	Solanki Prakruti Paragbhai	Prakruti
90	200409101087	Soni Niyati Hiteshbhai	Niyati
91	200409101088	Thar Grisha Shilpesh	Grisha
92	200409101089	Tilala Dhru Chetanbhai	Dhru
93	200409101090	Vadher Bhargav Vijaybhai	Bhargav
94	200409101091	Vadher Jay Dhirajbhai	Jay
95	200409101092	Vadodariya Krupa Shaireshbhai	Krupa
96	200409101093	Vagadiya Dharmik Parsotambhai	Dharmik
97	200409101094	Vaghasiya Smruti Ashokbhai	Smruti
98	200409101095	Vaghela Priya Rameshbhai	Priya
99	190409101098	Vakhariya Ashfak U.	Ashfak
100	200409101096	Vala Abhijit Ranjitbhai	Abhijit
101	200409101097	Valand Parth Mitulbhai	Parth
102	200409101098	Vithalani Kaveri Bhavinkumar	Kaveri
103	200409101099	Vithlani Dev Piyushbhai	Dev
104	200409101100	Zala Jahnavi Ketanbhai	Jahnavi
105	200409101036	Humbal Mansi Atulbhai	Mansi
106	180409101046	Kanzariya Bhavik V.	Bhavik

DATE: 09-APRIL-2024

CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that total 87 students of 4th year BHMS(2024- 2026), of Rajkot Homoeopathic Medical College, Parul University, had visited MAPS Granito Pvt. Ltd, Morbi on dated 09 -04-2024 , under the guidance of Department of Community Medicine.

Prof(Dr) Anup Kumar Das,HOD, Dept. of Community Medicine, Assistant Professor Dr Humani Sharma, Department of Community Medicine,and Assistant Professor Dr Urmila Bhalgariya accompanied and guided the students during the visit.



MAPS GRANITO PRIVATE LIMITED

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