

STANDARD ASSESSMENT FORM- B

(DEPARTMENTAL INFORMATION)

BIOCHEMISTRY

1. Kindly read the instructions mentioned in the Form 'A'.

2. Write N/A where it is Not Applicable. Write 'Not Available', if the facility is Not Available.

A. GENERAL:

- a. Date of LoP when PG course was first Permitted: 16/04/2010

b. Number of years since start of PG course: 16 yrs

c. Name of the Head of Department: Dr Humaira Nishat Khan

d. Number of PG Admissions (Seats): 05

e. Number of Increase of Admissions (Seats) applied for: Nil

f. Total number of Units: N/A

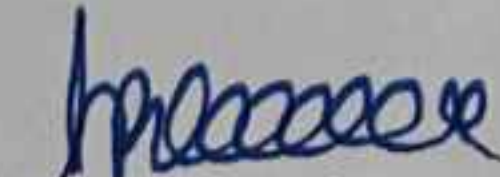
g. Number of beds in the Department: N/A

h. Number of Units with beds in each unit: N/A

Unit	Number of Beds	Unit	Number of beds
Unit-I	N/A	Unit-V	N/A
Unit-II	N/A	Unit-VI	N/A
Unit-III	N/A	Unit-VII	N/A
Unit-IV	N/A	Unit-VIII	N/A

i. Details of PG inspections of the department in last five years:

Date of Inspection	Purpose of Inspection (LoP for starting a course/permission for increase of seats/ Recognition of course/ Recognition of increased seats /Renewal of Recognition/Surprise /Random Inspection/ Compliance Verification inspection/other)	Type of Inspection (Physical/ Virtual)	Outcome (LoP received/denied. Permission for increase of seats received/ denied. Recognition of course done/denied. Recognition of increased seats done/denied / Renewal of Recognition done/ denied /other)	No of seats Increased	No of seats Decreased	Order issued based on inspection (Attach copy of all the order issued by NMC/ MCI as Annexure)
21/08/2019	Increase uptake from 2 to 5 seats	Physical	Permission granted	03	-	
10/07/2023	Recognition of 3 increased MD seats	Virtual	recognition granted	03	-	



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- j. Any other Course/observer ship (PDCC, PDF, DNB, M.Sc., PhD, FNB, etc.) permitted/ not permitted by MCI/NMC is being run by the department? If so, the details thereof:

Name of Qualification (course)	Permitted by MCI/NMC	Number of Admissions per year
Not Available	No	--
Not Available	No	--

B. INFRASTRUCTURE OF THE DEPARTMENT:

a. Department office details:

Department Office		Details
Department office	Available	01
Staff (Steno /Clerk)	Available	0
Computer and related office equipment	Available	02
Storage space for files	Available	03 cupboards

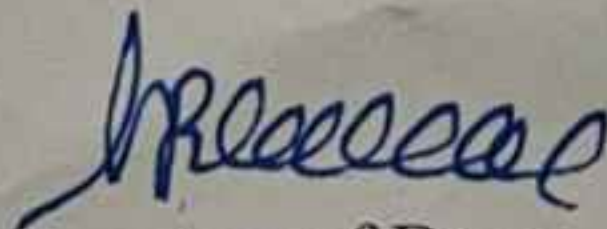
Office Space for Teaching Faculty/residents		Details
Faculty	Available/not available	
Head of the Department	Available	01
Professors	Available	01
Associate Professors	Available	02
Assistant Professor	Available	03
Senior residents room	Available	01
PG room	Available	01

b. Seminar Room:

Space and facility: Adequate

Internet facility: Available

Audiovisual equipment details: Digital projector


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c. Library facility pertaining to the Department/Speciality (Combined Departmental and Central Library data):

Particulars	Details
Number of Books	996 Central lib + 133 dept = 1129
Total books purchased in the last three years(attach list as Annexure)	226
Total number of Indian Journals available	09
Total number of Foreign Journals available	04

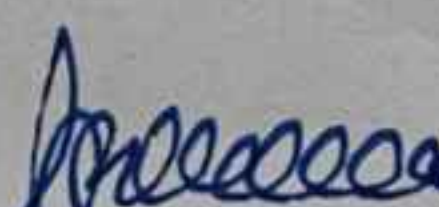
Internet Facility: Yes

Central Library Timing: 10 am to 5:45 pm

Central Reading Room Timing: 24 x 7 open

Journal details (relevant to Biochemistry available in the department library or Central Library) – separate list may be attached.

Name of Journal	Indian/foreign	Online/offline	Available up to
1. Annals of clinical biochemistry	Foreign	Offline	1989 to 1998, 2001, 2003, 2005 to 2009, 2013 to 2020, 2024
2. Archives of Biochemistry and biophysics	Foreign	Offline	2013 to 2015
3. Clinical Chimica acta	Foreign	Offline	1992 to 1998, 2006
4. Cutis	Foreign	Offline	1993 to 1998
5. International journal of Clinical biochemistry and research	Foreign	Offline	2017
6. Journal of biological chemistry	Foreign	Offline	1989 to 1991
7. Metabolism	Foreign	Offline	1991 to 1998

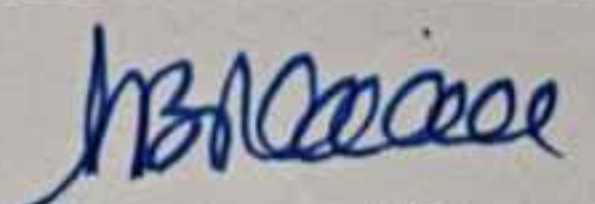

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8. Trends in biochemical sciences	Indian	Offline	1989 to 1998, 2001, 2003, 2005, 2013 to 2014
9. Indian journal of biochemistry and Biophysics	Indian	Offline	1989 to 1998, 2001, 2003, 2005, 2013 to 2014
10. Indian Journal of medical biochemistry	Indian	Offline	2024
11. Indian journal of clinical biochemistry	Indian	Offline	2005 to 2009, 2013 to 2020, 2025
12. Clinical biochemistry- ADLM	Foreign	Offline	2025
13. Indian journal of endocrinology and metabolism	Indian	Offline	2025

d. Departmental Research Lab:

Space	Adequate / Not Adequate	
Equipment in the research lab with reagents. *Desirable. May be in Central Research Lab	Equipment	Functional Status
	1. Electrophoresis 2. Chromatography 3. Semi / auto analyzer 4. Electrolyte analyzer 5. ELISA 6. PCR* 7. HPLC*	FUNCTIONAL FUNCTIONAL FUNCTIONAL FUNCTIONAL FUNCTIONAL FUNCTIONAL FUNCTIONAL
Research Projects completed in past 3 years. Provide details	1. Annexure I attached	
List the Research projects in progress in research lab. Provide details	1. Correlation of serum calcium, magnesium, phosphorus, uric acid and creatinine levels with thyroid hormones in hypothyroid patients attending tertiary care hospital. 2. Correlation of Serum Ferritin, Zinc, Vitamin-D, Alkaline Phosphatase and Lipid Profile With Thyroid Profile in	

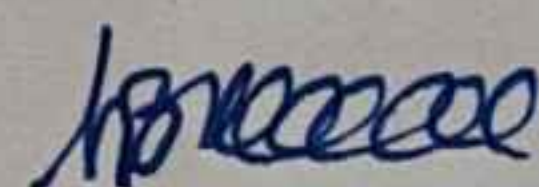

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	Lipid Profile With Thyroid Profile in Hypothyroidism Patients Attending Tertiary Care Hospital. 3. Assessment of Serum Magnesium, Calcium, Uric Acid and Ferritin Levels in Patients With Polycystic Ovarian Syndrome (PCOS) Attending Tertiary Health Care Centre. 4. Correlation of Luteinizing Hormone (LH), Follicle-Stimulating Hormone (FSH), Prolactin With Thyroid Hormone Levels in Primary Hypothyroid Female Patients Attending Tertiary Care Hospital. 5. Comparative Study of Levels of Lipid Profile, Calcium, Alkaline Phosphatase and Vitamin-D among Premenopausal and Postmenopausal Women at Tertiary Care Hospital. 6. A Study of Clinical and Biochemical Profile of Metabolic Syndrome and its Associated Risk Factors among Patients Attending in a Tertiary Care Hospital in Maharashtra.
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e. List of Department specific laboratories with important Equipment:

Laboratory Name	Equipment	Numbers Available	Functional status
UG Laboratory	As per UGMSR2023	Input in table below	X
PG Laboratory	1. Electrophoresis 2. Chromatography 3. Spectrophotometer 4. Semi auto analyzer 5. Electrolyte analyzer 6. ELISA 7. fully autoanalyzer	01 01 01 01 01 01 01	Working Working Working Working Working Working working
Clinical Chemistry Laboratory in Hospital	1. Semi Auto Analyzer 2. Fully Auto Analyzer	05 03	Working Working
Immunochemistry	1. Immunochemistry Analyzer 2. CLIA	01 01	Working Working

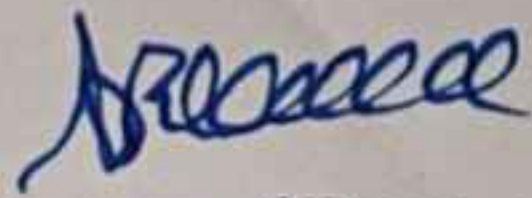


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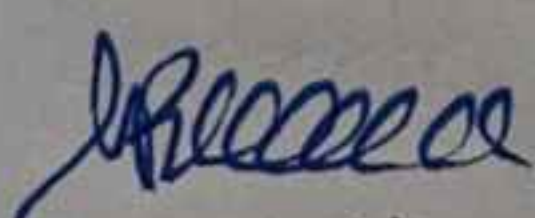
f. Equipment: List of important equipment available in the Department as per UGMSR 2023

Name of the Equipment	Must/ Desirable	Number s Availabl e	Function al Status	Important Specification in Brief	Adeq uate (Yes/ No)
Centrifuges More Than or Equal to 8 Tubes	02	06	04	16 tubes Speed Regulation Range - 150 - 4500 rpm	Yes
Glucometers	02	06	6	Glucometer with strips Battery operated total Automatic Impact size, Standard Make of good Quality, LCD Scan	YES
Urinometers	20	25	25	Graduated stem	Yes
Hot Air Oven	02	02	02	Size – 500mmL X 900mm D X 600mm H Maximum temp. 250 degree Celsius	yes
Digital Colorimeters	05	05	05	Digital Wavelength Range: 420 nm - 660nm	Yes
Microscopes	05	05	05	Magnification 40 x – 1000 x.	yes
Thermometer 0 – 250 °C	05	05	05	Digital Battery Operated	yes
Semi Auto Analyzer	02	05	05	Absorption Spectrometry 340nm-620nm wavelength	Yes
Boiling Water Bath	02	02	02	temperature range from 50 to 100	yes
Constant Temp Water Bath Tank Capacity (Temp Range 5 to 80 °C)	01	01	01	ambient temperature 5 to 80 °Celsius	yes
Digital pH Meter	05	05	05		Yes
Fixed Volume Pipettes 1 mL, 0.5 ML, 0.2 mL, 0.1 mL, 0.02 ML	05 each	05 each	05 each	Single Channel	Yes

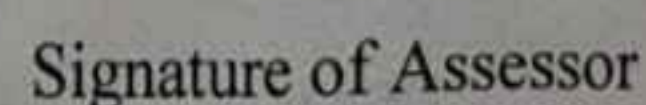

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Bottle Dispensers	20	20	20	Volume - Maximum capacity 100 ml, 500 ml and 1000 ml	Yes
Variable and Fixed Volume Micro Auto Pipettes	As per required	10	10	Single Channel Pipette	Yes
Vacutainer Tubes	01	01	01		Yes
PCR Machine	01	01	01		Yes
ABG Machine	01	02	01	Automatic, Measured parameters desired : PH, PO ₂ , PCO ₂ , NA ⁺ , K ⁺ , CA ²⁺ ,	Yes
AUTO Analyser	03	03	03		Yes
Chromatographic Unit for Paper & TLC	02	02	02	Chromatography tank with cover for plates of different sizes, Sizes 20X20CM	yes
Complete Electrophoresis (Paper, Page, Agarose) Apparatus With Power Supply	01	02	02	Horizontal Gel Apparatus Gel tanks size 8x11 inches (midi gel apparatus) and 3x6 inches (mini gel apparatus) with platinum	Yes
Densitometer With Computer	01	01	01		yes
Vortex Mixer	02	02	02	Speed range: 120V: 500 to 3000 rpm	yes
Incubator of 37 °C	02	02	02	Temperature range ambient $\pm 5^{\circ}$ C above ambient to 60 ⁰ C.	yes
Fume Cup Boards	01	01	01	Fabricated out of thick wooden board To work on 220/230 volts A.C. Supply,	YES
Digital Analytical Balance Up to 200 G – 1G Increment	01	01	01	Multi utility scale Capacity-200 gm	Yes
Micro Analytical Balance	N/A	N/A	N/A	N/A	N/A
Spectro Photometer	01	01	01		Yes
PCR	01	01	01		Yes

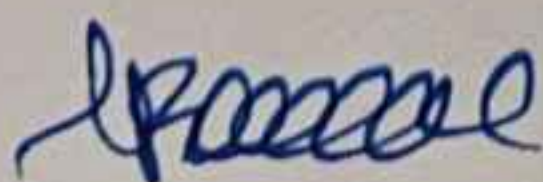


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Elisa Reader & Washer	01	01	01		Yes
Urine Dip Sticks for Glucose, Protein and Ketone Bodies	00	15	15		Yes
ISE Analyzer	01	01	01		Yes
Refrigerator – 400 L Capacity	03	07	07	310 to 330 litres	Yes
Ultra Centrifuge for DNA /RNA Extraction	N/A	N/A	N/A	N/A	N/A
Refrigerated Ultra Centrifuge	02	02	02	N/A	yes
HPLC	01	01	01		Yes
Bio Safety Cabinet	N/A	N/A	N/A	N/A	N/A
Centrifuges	02	02	02		Yes
Digital colorimeters	05	05	05		Yes
Semi Auto Analyzer	02	05	05	Absorption Spectrometry 340nm-620nm wavelength	Yes
Fully Auto Analyzer	01	03	03		Yes
Electrolyte Analyzer	01	01	01		Yes
Clia Analyzer	01	01	01		Yes
Computer and Printer	02	02	02	Processor- Intel core i5 (9 th generation), 8 GB RAM, 1TB Internal HDD, MS- Windows 10 professional and MS office	Yes



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g. Hospital Laboratory Details:

Spacing and Organization of Laboratory

Adequate

Laboratory Management Information System:

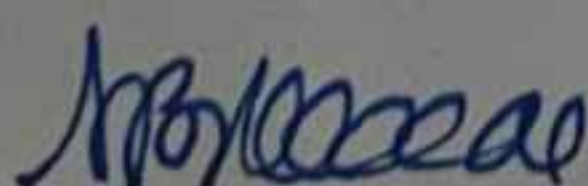
Not Available

Internal Quality Assurance Practiced:

Yes

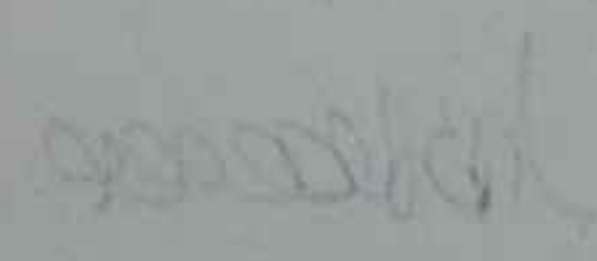
External quality assurance services practiced:
If yes, details of EQASYes, CMC VELLORE EQAS
Monthly samples run and results uploaded
online.Lab Accredited:
If Yes, Give Details

No



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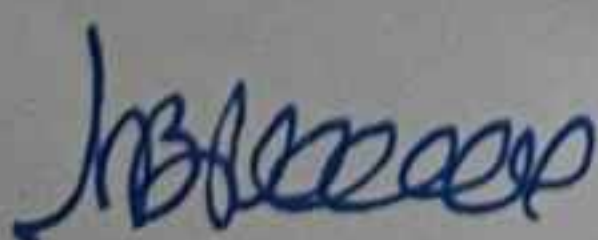
C. CLINICAL MATERIAL AND INVESTIGATIVE WORKLOAD OF THE DEPARTMENT OF BIOCHEMISTRY:

Total No. of samples received: 1,74,878

Total No. of Tests Done: 6,99,515

i. Clinical chemistry Investigations:

Investigations	On the day of Assessment	Year 1	Year 2	Year 3 (Last Year)	Daily Average for the Last Year
Glucose		19803	20853	25827	70
Urea		62912	82538	108400	297
Creatinine		62912	82538	108400	297
Serum bilirubin		62912	82538	108400	297
Serum proteins		28126	22958	43722	119
Electrolytes		4020	4700	29407	80
Lipid profile		8530	12520	20460	56
Calcium		2284	5740	3147	8
Magnesium		1087	4485	2494	6
Phosphorus		1720	1852	2020	6
Uric acid		937	1032	2230	6
Urine analysis		1820	327	409	1
Pleural fluid		647	963	1048	3
CSF		215	321	349	1
Peritoneal Fluid		575	856	932	2
Any other serum cholinesterase		679	1729	1291	4



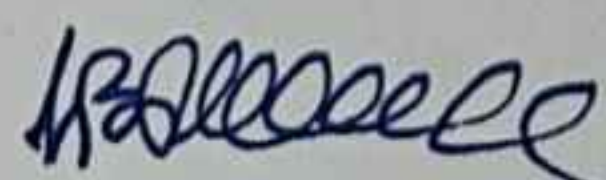
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ii. Special investigations including enzymes, chemiluminescence and immunochemistry:

Investigations	On the day of assessment	Year 1	Year 2	Year 3	Daily Average for the last year
Serum Amylase		627	1382	1811	5
Serum Lipase		560	610	820	2
Serum AST		62912	82538	108400	297
Serum ALT		62912	82538	108400	297
Serum ALP		479	1319	1736	5
Any Other		00	00	00	00
Hormonal Assays		1333	6231	9204	25
Thyroid Hormones		932	5821	8744	24
Steroid Hormones		201	210	210	1
Sex Hormones		200	200	250	1
Vitamins Assay		500	520	520	1
Iron Profile		5420	6345	7230	20
HbA1C		00	00	365	1
Ferritin		1918	2496	1788	5
CRP		2200	1667	1975	5
Tumor markers		479	1319	1736	5
Immunoglobulin Assays		NA	NA	NA	NA
Troponins		454	2921	2318	6
Any Other (ABG)		2706	5828	6073	16



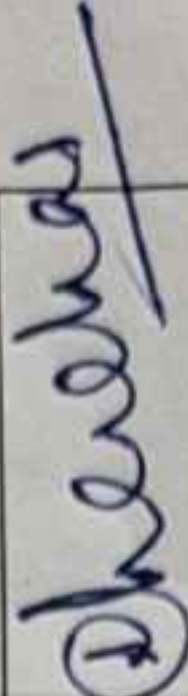
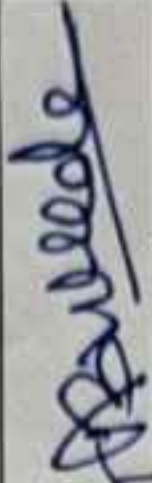
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D. STAFF:**i. Unit-wise Faculty and Senior Resident details:**

Unit No.: _____

Sr. No.	Designation	Name	Joining date	Relieved/ Retired/working	Relieving Date/ Retirement Date	Attendance in days for the year* with percentage of total working days** (days (%))	Phone No.	E-mail	Signature
1	Professor and HOD	Dr. Humaira Nishat Khan	28/02/2025	Working	30/9/2037	100%	9421859833	humeranishat@rediffmail.com	
2	Associate Professor	Dr. Laxmikant N. Cherekar	05/06/2025	Working	31/07/2042	100%	9403032258	cherekarln@yahoo.com	
3	Associate Professor	Dr. Ajay Baliram Warade	11/10/2024	Working	30/04/2046	98%	94040 28848	dr.warade@gmail.com	
4	Assistant Professor	Dr. Seema Maroti Dake	21/07/2023	Working	31/05/2049	100%	9850885030	seemadake85@gmail.com	
5	Assistant Professor	Dr. Kavita Suraj Rathod	25/4/2023	Working	-	100%	9766838147	kavitasantoshpawar@yahoo.com	
6	Assistant Professor	Dr. Pallavi Misalwad	13/03/2025	Working	-	100%	8698963154	pallavimisalwad@gmail.com	

* - Year will be previous Calendar Year (from 1st January to 31st December)

** - Those who have joined mid-way should count the percentage of the working days accordingly.


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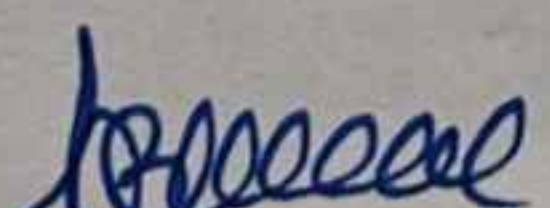
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- ii. Total eligible faculties and Senior Residents (fulfilling the TEQ requirement, attendance requirement and other requirements prescribed by NMC from time-to-time) available in the department:

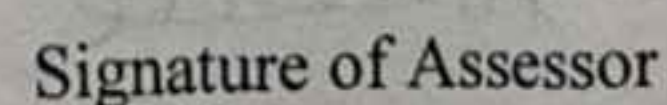
Designation	Number	Name	Total number of Admission (Seats)	Adequate / Not Adequate for number of Admission
Professor	01	Dr. Humaira Nishat Khan (Recognised PG teacher)	05 PG Seats per year	Adequate
Associate Professor	02	Dr.Laxmikant Narayan Cherekar (Recognised PG teacher) Dr.Ajay Baliram Warade (Recognised PG teacher)		
Assistant Professor	03	Dr.Seema Maroti Dake Dr.Kavita Suraj Rathod Dr. Pallavi Gunwant Misalwad		

- iii. P.G students presently studying in the Department:

Name	Joining date	Phone No	E-mail
1. Dr. Anil Sam	19/10/2023	9496164590	asanilmsp@gmail.com
2. Dr.Devanand Dattgonde	06/01/2025	7709538101	ddattgonde@gmail.com
3. Dr.Aadarsh R.M.	01/02/2025	9746373776	aadarshrm28@gmail.com
4. Dr. Dipali Kamble	03/02/2025	8408088924	dipaliwkamble789@gmail.com
5. Dr.Mohsin Khan	20/02/2025	9619776303	mohsinkhan4493@gmail.com
6. Dr.Bhagyashri Bagade	03/03/2025	7666459984	bhagyashribagade6@gmail.com


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iv. PG students who completed their course in the last year:

Name	Joining date	Relieving Date	Phone no	E-mail
1. Dr.Amal rajeevan	23/11/2022	23/11/2025	8075512028	aramalbr9@gmail.com

E. ACADEMIC ACTIVITIES:

S. No.	Details	Number in the last Year	Remarks Adequate/ Inadequate
1.	Seminars	130	Adequate
2.	Journal Clubs	98	Adequate
3.	Case presentations	75	Adequate
4.	Group discussions	50	Adequate
5.	Guest lectures and others (specify)	25	Adequate
6.	Physician conference/ Continuing Medical Education (CME) organized.	01	Adequate
7.	Symposium	03	Adequate

Note: For Seminars, Journal Clubs, Case presentations, Guest Lectures the details of dates, subjects, name & designations of teachers and attendance sheets to be maintained by the institution and to be produced on request by the Assessors/PGMEB.

Total number of publications from the department during the past 3 years:

8

F. EXAMINATION:

i. Periodic Evaluation methods (FORMATIVE ASSESSMENT):

(Give details of all assessments done for the PGs in the last year in the space below. A separate sheet may be attached if necessary)

1. Written class test conducted for JR1, JR2 and JR3
2. Seminars, Microteaching, Journal presentation conducted

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ii. Detail of the Last Summative Examination:

a. List of External Examiners:

Name	Designation	College/ Institute
1. Dr. SYED ABDUL JAWEED	Professor and HOD	BIDAR INSTITUTE OF MEDICAL SCIENCES, BIDAR (KARNATAKA)
2. Dr. KAMLAKAR MANE	Professor and HOD	DR.V.M.G.M.C SOLAPUR

b. List of Internal Examiners:

Name	Designation
1. Dr.Humaira Nishat Khan	Professor and HOD
2. Dr.Ganesh Sadashiv Manoorkar	Professor and HOD (GMC, Hingoli)

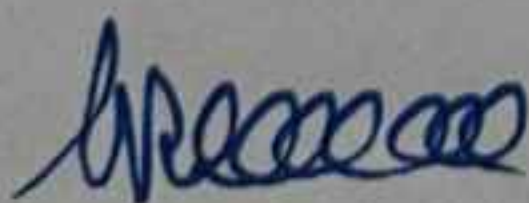
c. List of Students:

Name	Result (Pass/ Fail)
Dr. Amal Rajeevan	Pass

d. Details of the Examination: Video clip attached

Insert video clip (5 minutes) and photographs (ten).

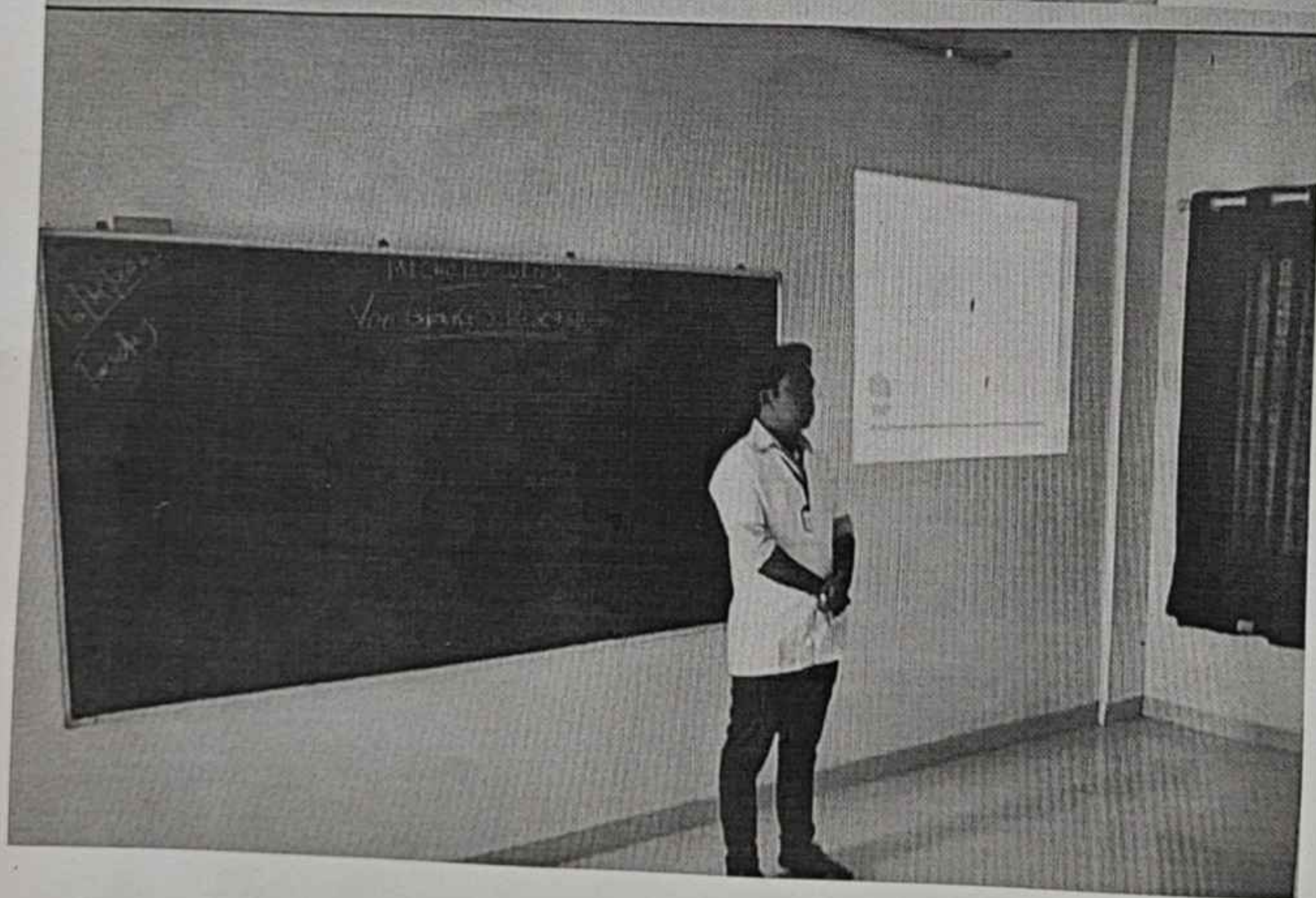
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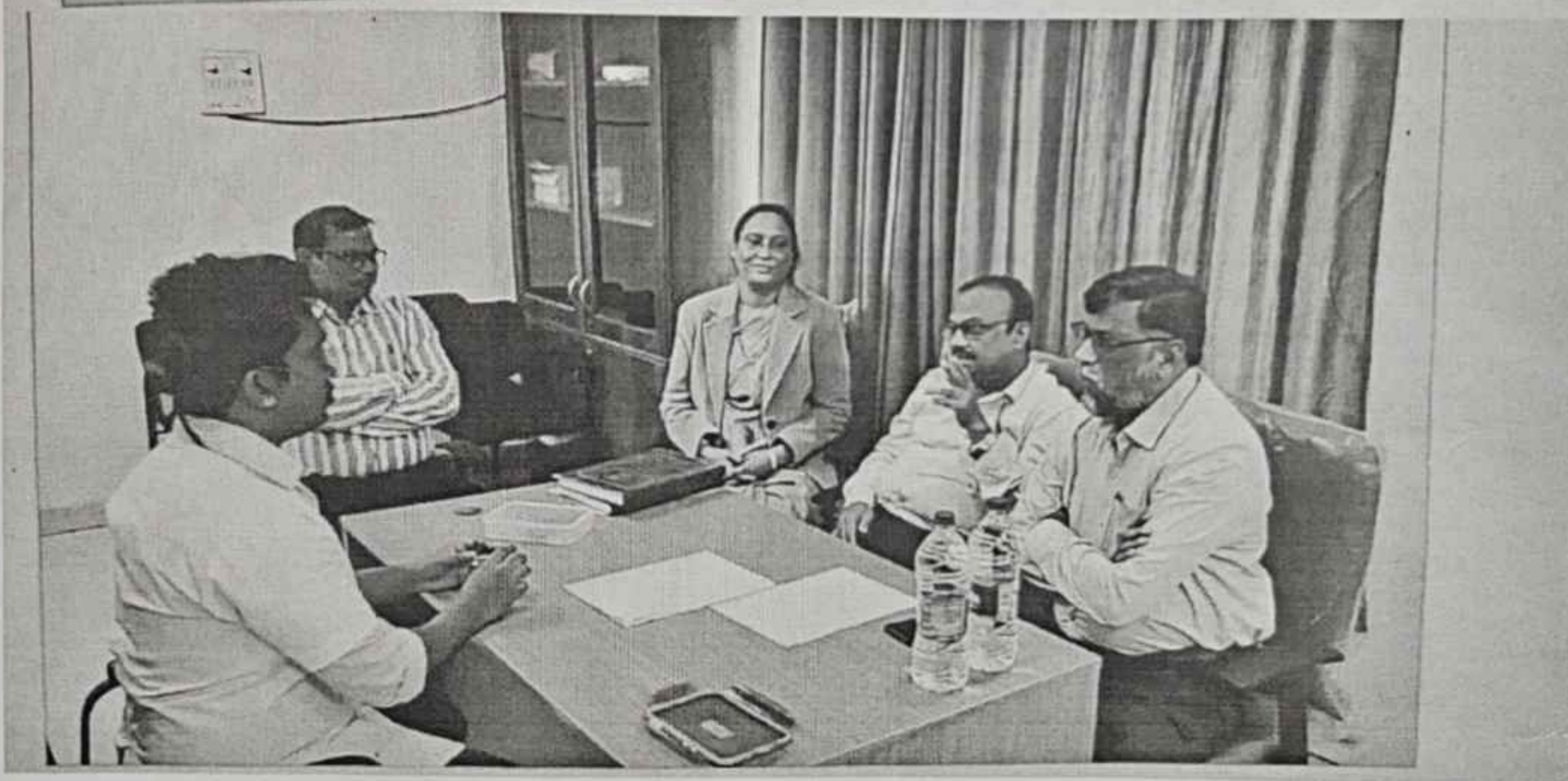
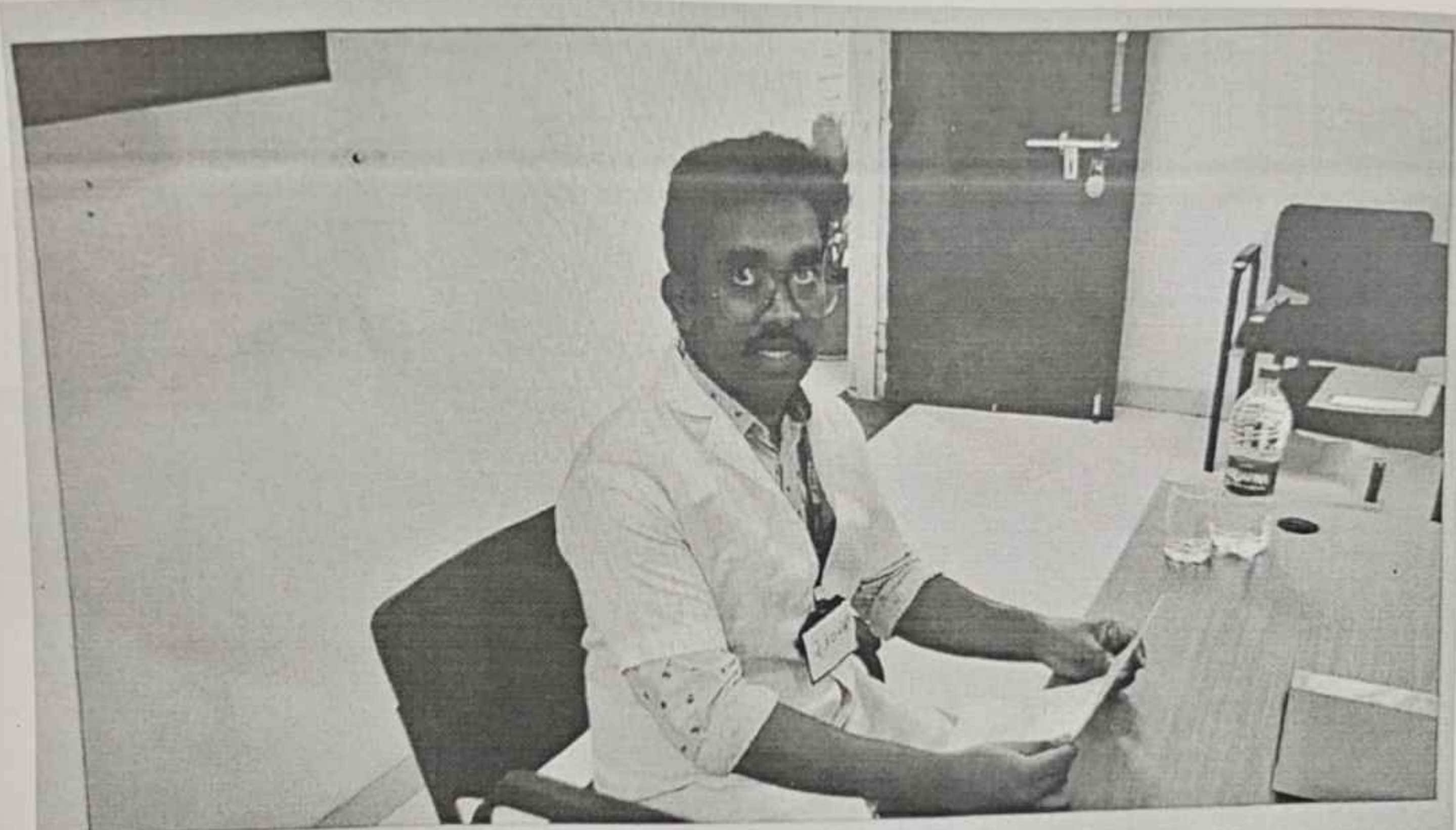
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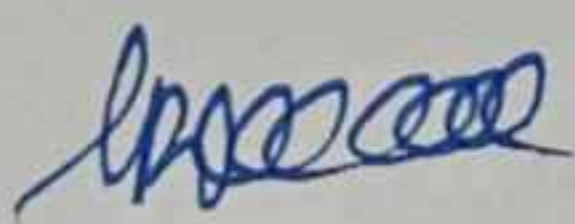


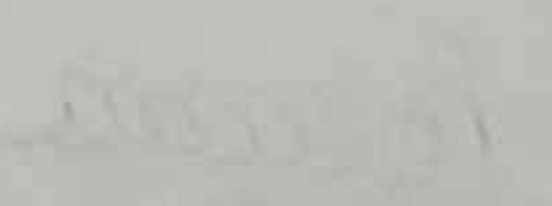
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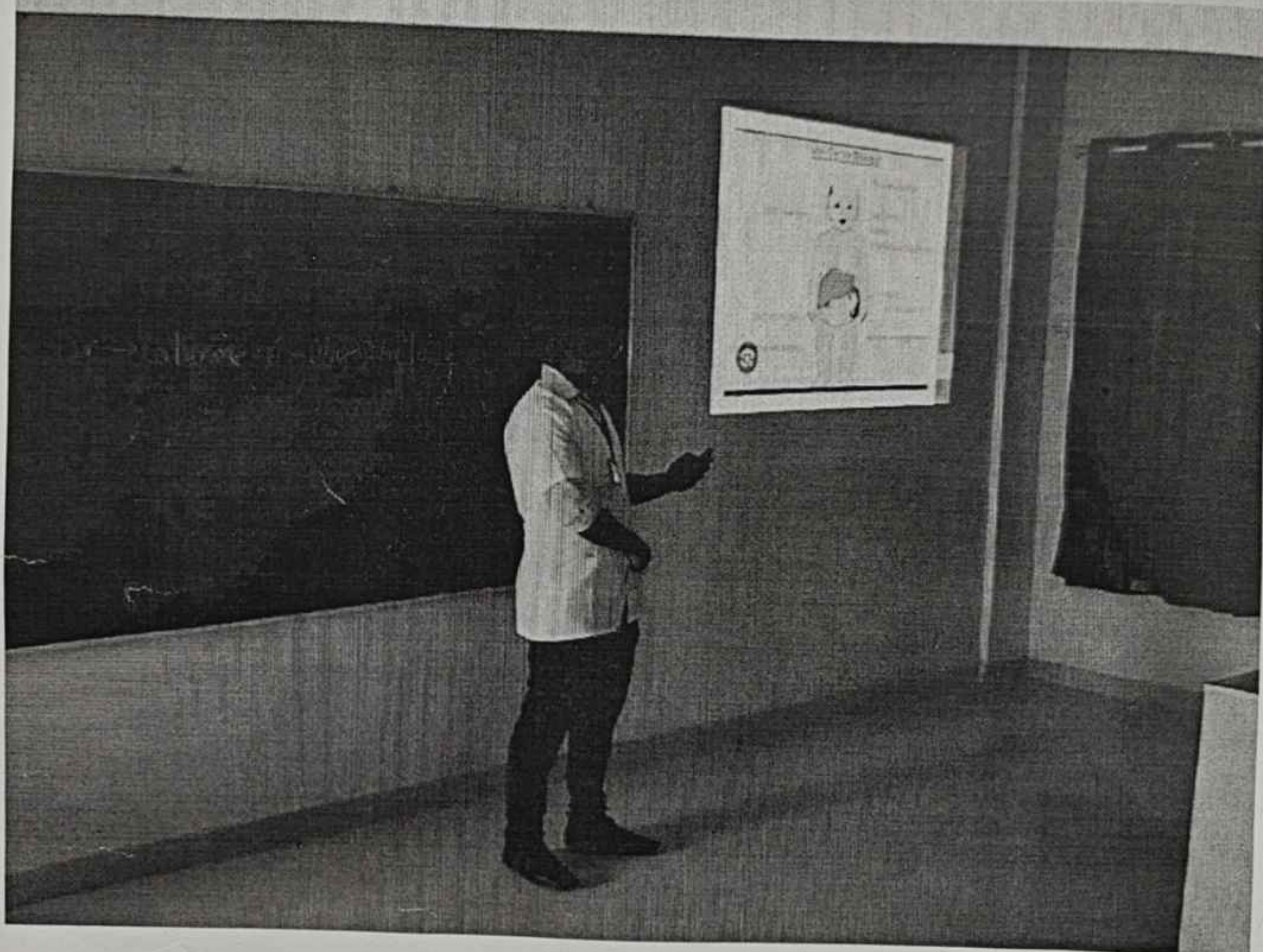
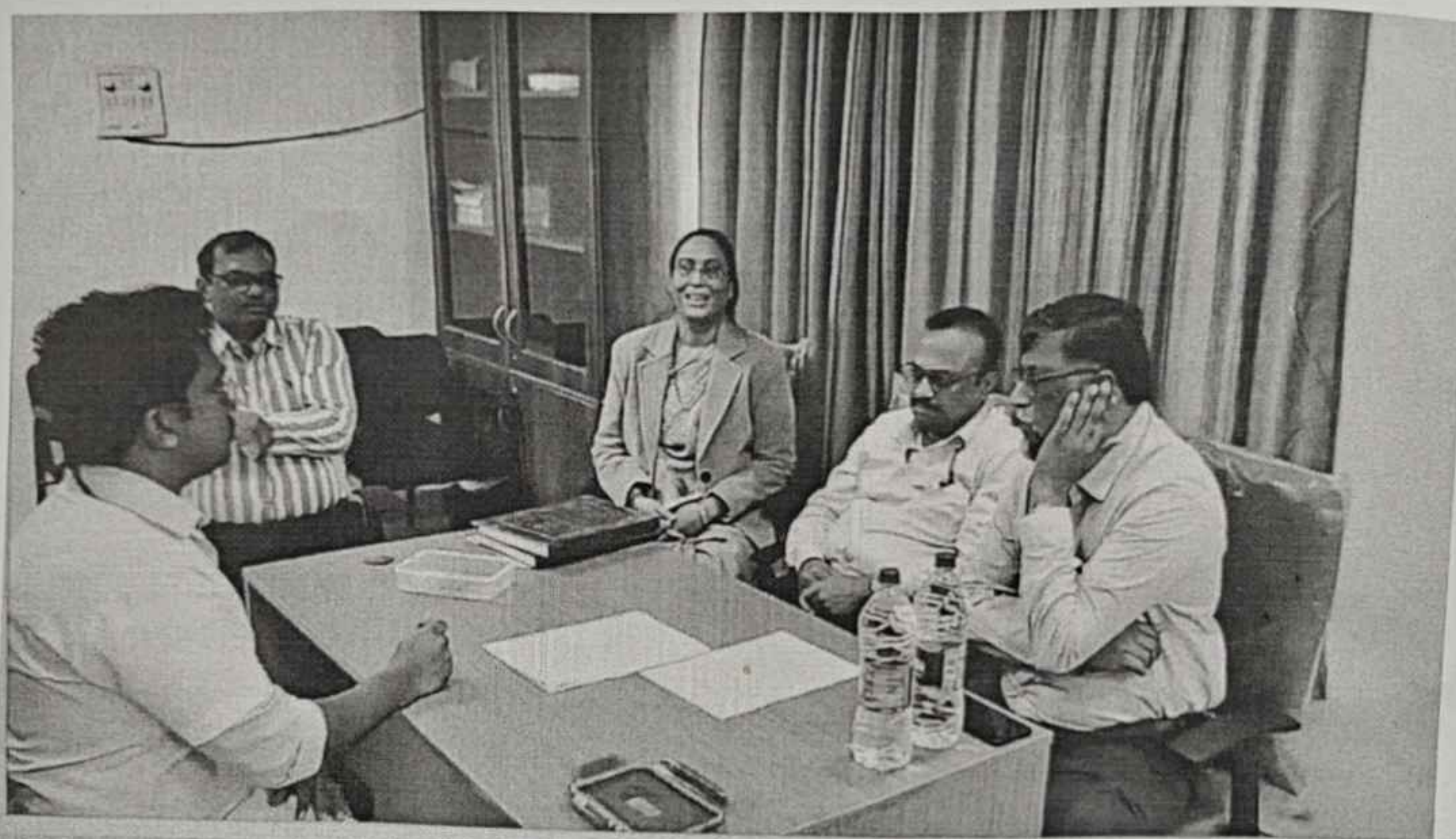
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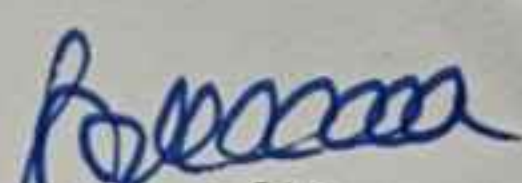
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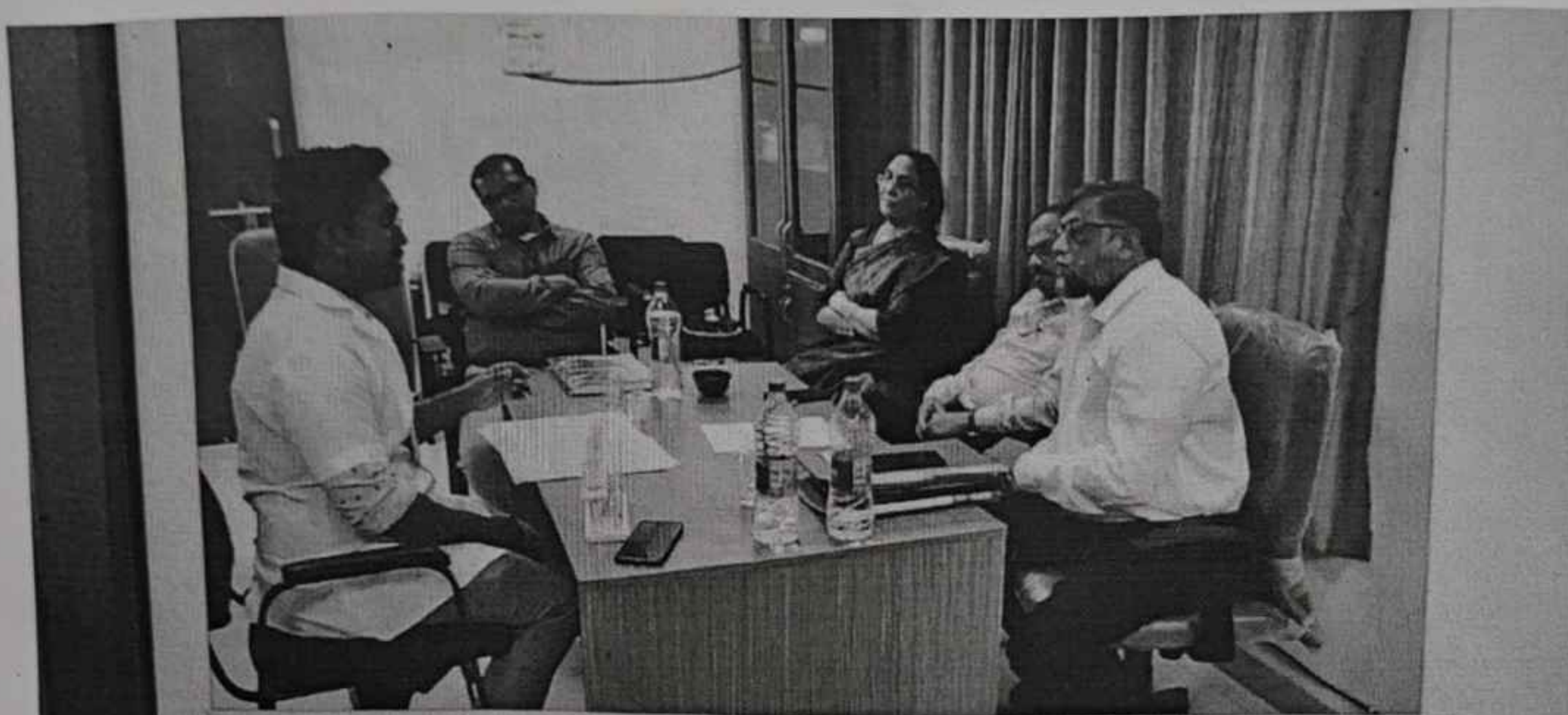

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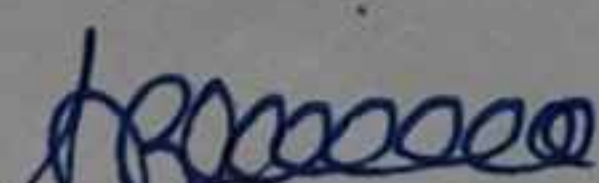

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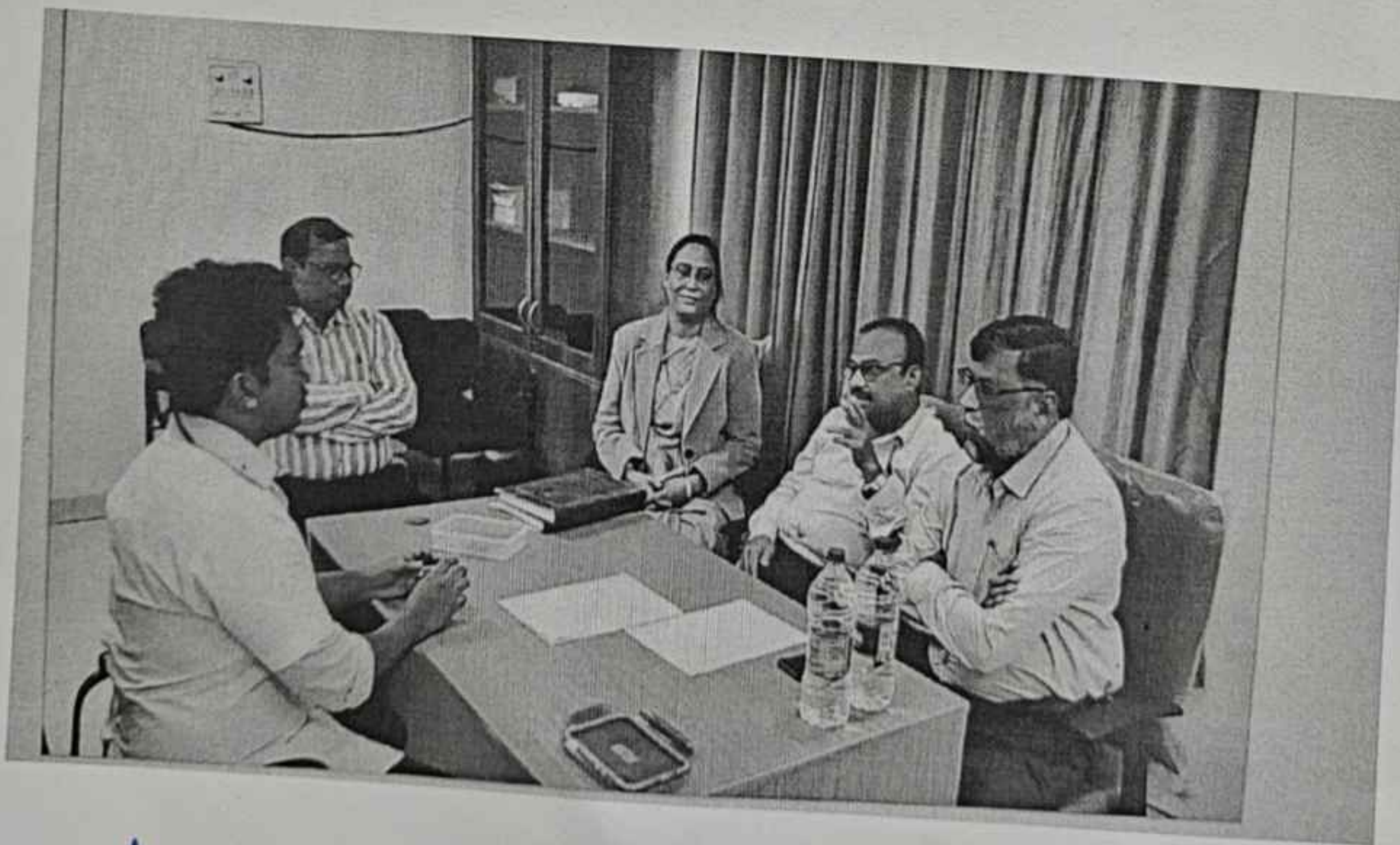
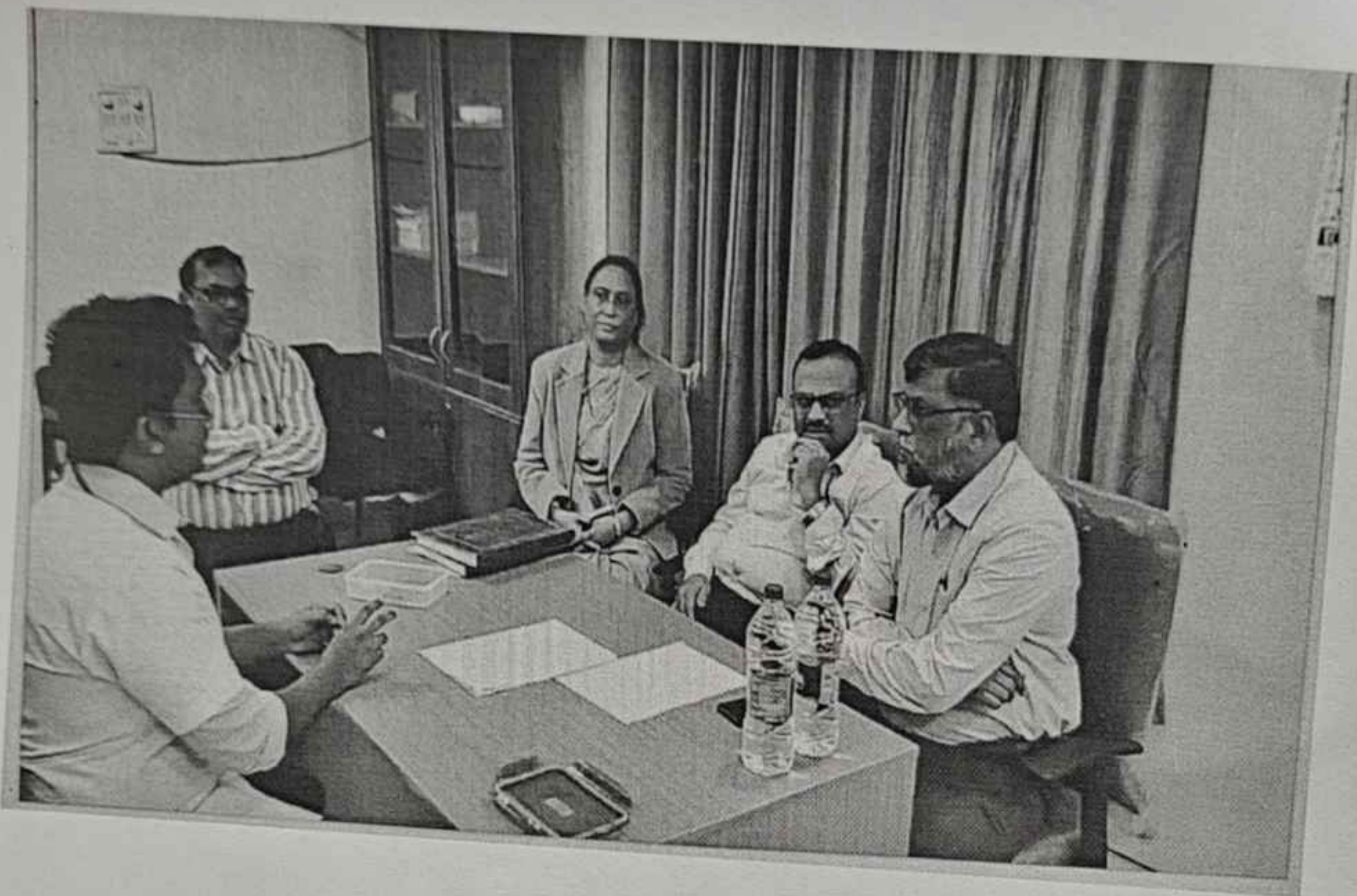

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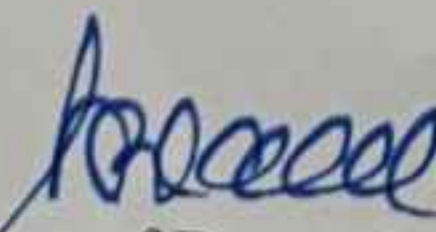



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G. MISCELLANEOUS:

i. Details of data being submitted to government authorities, if any:

ii. Participation in National Programs.
(If yes, provide details)

iii. Any Other Information

H. Please enumerate the deficiencies and write measures which are being taken to rectify those deficiencies:

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Date:

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Signature of HOD with Seal
Professor & HOD

Department of Biochemistry
Dr. Shankarrao Chavan Govt. Medical College
Vishnupuri, Nanded.

I.

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2. Please **DO NOT** make any recommendation regarding grant of permission/recognition.
3. Please **PROVIDE DETAILS** of deficiencies and irregularities like fake/ dummy faculty, fake/dummy patients, fabrication/falsification of data of clinical material, etc. if any that you have noticed/come across, during the assessment. Please attach the table of list of the patients (IP no., diagnosis and comments) available on the day of the assessment/inspection.
4. Please comment on the infrastructure, variety of clinical material for the all-round training of the students.

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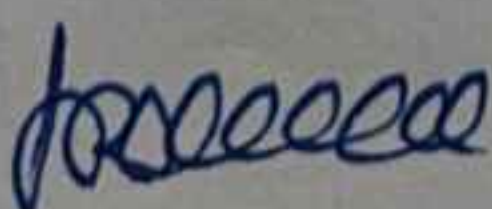
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FORM-B (BIOCHEMISTRY)/2024

(MD EXAM VIDEO LINK)
DEPARTMENT OF BIOCHEMISTRY
DR. SHANKARRAO CHAVAN GOVT. MEDICAL COLLEGE, NANDED

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ANNEXURE 1 (Research projects completed in past 3 yrs)
Department of Biochemistry

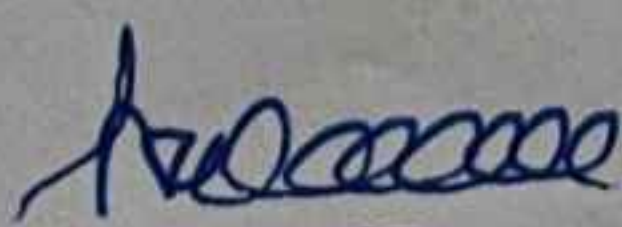
Sr No.	Faculty Names	Research Name	Journal Name	Edition	Year
1.	1-Pallavi G Misalwad 2-Abdul Mubashir Siddique 3-H N Khan 4-G S Manoorkar 5-A B Warade 6- S A Patel	Study of lipid profile and fibrinogen levels in smokers and non-smokers	Indian Journal of Basic and Applied Medical Research	Volume-12 Page no- 147-152	2023
2.	1-Dr Swati K Choudhary 2-Dr Sachin S Bhavthankar 3-Dr Kavita S Rathod 4-Dr Santosh N Pawar	Evaluation of liver Parameters in beta thalassemia major patients	European Chemical Bulletin	Volume-12 Page no- 5601-5605	2023
3.	1-Shabeena A Patel 2-Ganesh S Manoorkar 3-Ameet C Panchmahalkar	Study of correlation between plasma D-dimer and chest CT severity score in Covid-19	Walawalkar International Medical Journal	Volume-10 Page no- 6-12	2023
4.	1-K Ambedkar Priyan 2-Meghatai Bhise(Megha Motiram Khandode) 3-Suvarna Kundlikaro Tale 4-Pramod Ingale 5-Vaijanti Manohar Hardas 6-S Shagana 7-Nandan M Valavaikar	Association of subclinical and overt hypothyroidism on red blood cell indices together with reticulocyte counts	Research Journal of Pharmaceutical, Biological and Chemical Sciences	Volume-14 Page no- 609-620	2023

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Sr No.	Faculty Names	Research Name	Journal Name	Edition	Year
5.	1-S A Patel 2-G S Manoorkar 3-H N Khan	Study of uric acid in first degree relatives of type 2 diabetes mellitus	International Journal of Scientific Research	Volume-13 Page no- 57-58	2024
6.	1-Dr.khan humaira nishat md mujtabakhan 2-Dr.amal rajeevan 3-Dr.warade ajay baliram	The future of learning medicine: chatgpt awareness, teaching preferences, and digital engagement among first-year mbbs students at a tertiary care center	International journal of medicine and public health	vol 15, issue 3, july-september 2025	2025
7.	1-Dr. L. N. Cherekar 2-Dr. H. N. Khan	Comparison of blood biomarkers in vegetarian and Non-vegetarian diets : Implications for cardiovascular health	European journal of cardiovascular medicine .	vol 15, issue 5, May 2025, Pages 673-678	2025
8.	1-Dr.kavita suraj rathod	Study of lipid profile and lipoprotein (a) levels in patients with psoriasis	Walawalkar international medical journal	volume no. 12, issue no. 1, 2025 pissn 2349-2910, eissn 2395-0684	2025



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Biochemistry Book list in Library

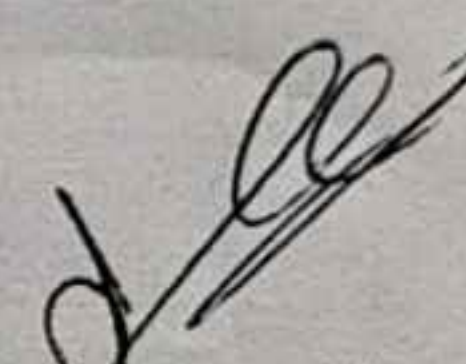
Sr.	Copi	Aauthor	Title	Ed.	Year	Vol
1	4	Roy, R N	A Textbook of Biophysics	1	1996	
2	4	Reynolds, D J	Aids to Clinical Chemistry	1	1986	
3	1	Siegel, Jorj J	Basic Neurochemistry	3	1981	
4	4	Berg Jeremy M	Biochemistry	5	2002	
5	1	Berg, Jeremy M	Biochemistry	6	2007	
6	3	Das, Debjyoti	Biochemistry	4	1985	
7	3	Das Debjyoti	Biochemistry	8	1993	
8	1	Dasgupta, S K	Biochemistry	4	1977	1
9	1	Dasgupta, S K	Biochemistry	4	1977	2
10	1	Dasgupta, S K	Biochemistry	4	1977	3
11	1	Friedman Paul Jay.	Biochemistry	4	1992	
12	1	Jeremy M Berg	Biochemistry	7	2011	
13	1	Lubert Stryer	Biochemistry	3	1988	
14	3	Ottaway, A H	Biochemistry	4	1988	
15	22	Pankaja Naik	Biochemistry	3	2010	
16	15	Pankaja Naik	Biochemistry	4	2016	
17	1	Pankaja Naik	Biochemistry	5	2019	
18	2	Robert Roskoski	Biochemistry	1	1996	
19	5	Satyanarayana, U	Biochemistry	1	2000	
20	10	U Satyanarayana	Biochemistry	2	2002	
21	25	U Satyanarayana	Biochemistry	3	2006	
22	15	U Satyanarayana	Biochemistry	4	2013	
23	16	Satyanarayana U	Biochemistry	5	2018	
24	10	Satyanarayana, U	Biochemistry	7	2026	
25	2	Southerland, William M	Biochemistry	1	1990	
26	2	Voet Donald	Biochemistry	4	2011	
27	10	Singh, S P	Biochemistry and Clinical Pathology: Theory and Practical	1	2022	
28	2	Henry McIlwain	Biochemistry and the Central Nervous System	5	1985	
29	10	Lal, Harbans	Biochemistry for Medical Laboratory Technology Students	3	2024	
30	4	Campbell, Peter N.	Biochemistry Illustrated	2	1988	
31	5	Campbell, Peter N.	Biochemistry Illustrated	5	2005	
32	2	Friedman, P J	Biochemistry: A Review with Questions and Explanations	3	1987	
33	1	Ajit Kumar	Biochemistry: Review for USMLE	2	2006	
34	1	Satyanarayana, U.	Biotechnology	1	2010	
35	3	Sunder, T Shyam	Blood Gas Analysis: A Practical Approach	1	2003	
36	1	Marks, Dawn B.	Board Review Series: Biochemistry	1	1990	
37	2	Lieberman, M A	BRS Biochemistry, Molecular Biology and Genetics	7	2020	
38	1	Ahuja Lakshmi	CBS Quick Review in Biochemistry	2	2000	
39	2	Marshall, W J	Clinical Biochemistry	3	2024	
40	2	Murphy, M	Clinical Biochemistry	7	2024	
41	5	Saini A S	Clinical Biochemistry in Diagnosis and Management	1	2001	
42	2	Marshall William	Clinical Biochemistry Metabolic and Clinical Aspects	3	2014	
43	2	Hodkinson, Malcolm	Clinical Biochemistry of the Elderly	1	1984	
44	5	Agrawal, Poonam	Clinical Case Discussion in Biochemistry Based on NExt-I	3	2024	
45	6	Kaplan L. A.	Clinical Chemistry	5	2020	
46	1	Marshall, William J.	Clinical Chemistry	5	2004	
47	2	Marshall, W J	Clinical Chemistry	9	2021	
48	2	Alex Kaplan	Clinical Chemistry: Interpretation and Techniques	3	1988	
49	1	Lawrence A Kaplan	Clinical Chemistry Theory, Analysis, Correlation	5	2010	
50	2	Michael L Bishop	Clinical Chemistry: Principles, Procedures, Correlations	5	2005	
51	1	Michael L Bishop	Clinical Chemistry: Principles, Techniques, and Correlations	4	2000	
52	2	Michael L Bishop	Clinical Chemistry: Principles, Techniques, and Correlations	7	2013	
53	1	Bishop, M L	Clinical Chemistry: Principles, Techniques and Correlations	9	2023	
54	3	Zilva, Joan F	Clinical Chemistry in Diagnosis and Treatment	5	1988	
55	10	Agrwal, Poonam	Competency Based Logbook in Biochemistry for First	1	2021	
56	2	Agrawal Poonam	Competency Based Textbook of Biochemistry with Clinical	1 rev	2024	
57	1	Jain, Pooja	Computer Basics for BMLT	1	2013	
58	10	Agrawal, Poonam	Concepts in Biochemistry with Clinical Approach for	1	2020	
59	10	Bhaskar, Neeru	Early Clinical Exposure in Biochemistry Workbook for MBBS	1	2025	
60	10	Chalak (Kale), Anita	Early Clinical Exposure: A Case Based Approach in Clinical	1	2023	
61	15	Naik, Pankaja	Essentials of Biochemistry	1	2012	

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62	19	Naik Pankaja	Essentials of Biochemistry	2	2013	13	2	10	4	10
63	1	Naik, Pankaja	Essentials of Biochemistry	3	2023					
64	1	Paterson, C. R.	Essentials of Human Biochemistry	1	1987					
65	10	Nayak, S R	Exam Preparatory Manual for Undergraduates	1	2025					
66	2	Lemke Thomas	Foyes Principles of Medical Chemistry	7	2018					
67	20	Deb, A C	Fundamentals of Biochemistry	3	1988					
68	5	Deb, A C	Fundamentals of Biochemistry	5	1992					
69	20	A C Deb	Fundamentals of Biochemistry	6	1996					
70	5	Deb A. C.	Fundamentals of Biochemistry	7	1999					
71	6	Deb A C	Fundamentals of Biochemistry	8	2002					
72	5	Deb A C	Fundamentals of Biochemistry	9	2008					
73	3	Tietz, N W	Fundamentals of Clinical Chemistry	3	1987					
74	2	Mohanty	Fundamentals of Practical Clinical Biochemistry	1	2007					
75	2	Swaminathan, M	Handbook of Food and Nutrition	5	1986					
76	7	Robert K Murray	Harpers Biochemistry	21	1988					
77	5	Murray, Robert K.	Harpers Biochemistry	23	1993					
78	5	Murray, Robert K.	Harpers Biochemistry	24	1996					
79	2	Murray, Robert K.	Harpers Biochemistry	25	2000					
80	12	Murray, Robert K.	Harpers Illustrated Biochemistry	26	2003					
81	2	Harold Anthony Harper	Harpers Illustrated Biochemistry	29	2012					
82	2	Rodwell Victor	Harpers Illustrated Biochemistry	30	2015					
83	13	Victor W Rodwell	Harpers Illustrated Biochemistry	31	2018					
84	2	Kennelly, P J	Harpers Illustrated Biochemistry	32	2023					
85	3	Pearse, A G E	Histochemistry: Theoretical and Applied	4	1991	1				
86	3	Pearse, A G E	Histochemistry: Theoretical and Applied	4	1991	2				
87	1	Pearse, A G E	Histochemistry: Theoretical and Applied	4	1991	3				
88	8	Orten, James M	Human Biochemistry	10	1990					
89	10	Indumati, V	Integrated Textbook of Applied Biochemistry and Applied	1	2025					
90	5	Indumati, V	Integrated Textbook of Biochemistry	2	2023					
91	1	Bradley, John	Lecture Notes on Molecular Medicine	2	2001					
92	5	Lehninger, Albert L	Lehningers Principles of Biochemistry	2	1987					
93	1	Nelson, David L.	Lehningers Principles of Biochemistry	3	2000					
94	3	Nelson, David L	Lehningers Principles of Biochemistry	4	2005					
95	5	Cox, Michael M	Lehningers Principles of Biochemistry	5	2010					
96	1	Nelson, D L	Lehninger Principles of Biochemistry	6	2013					
97	7	Nelson David.L.	Lehninger Principles of Biochemistry	7	2017					
98	2	Nelson, D L	Lehninger Principles of Biochemistry	8	2021					
99	6	Champe P C	Lippincotts Illustrated Reviews Biochemistry	2	1994					
100	5	Champe, Pamela C	Lippincotts Illustrated Reviews Biochemistry	4	2008					
101	2	Harvey, Richard A.	Lippincotts Illustrated Reviews Biochemistry	5	2012					
102	8	Denise R Ferrier	Lippincotts Illustrated Reviews Biochemistry	6	2014					
103	6	Ferrier Denise	Lippincotts Illustrated Reviews Biochemistry	7	2017					
104	2	Singh, Ritu	Lippincott Illustrated Reviews Biochemistry	2	2024					
105	2	Stanley S Raphael	Lynchs Medical Laboratory Technology	4	1983					
106	10	Rafi, M D	Manual of Practical Biochemistry	5	2025					
107	2	Gupta, S. K.	Manual of Practical Biochemistry For MBBS	1	2005					
108	10	Gupta, S K	Manual of Practical Biochemistry for MBBS	5	2024					
109	3	Sinha, K P	Manual of Practical Biochemistry For Medical Students	4	1986					
110	1	Lieberman, M	Marks Basic Medical Biochemistry: A Clinical Approach	6	2023					
111	10	Lal, Harbans	MCQs in Biochemistry	2	2024					
112	3	John W Baynes	Medical Biochemistry	2	2005					
113	2	Baynes, John W.	Medical Biochemistry	3	2009					
114	2	Bhagavan, N. V.	Medical Biochemistry	4	2002					
115	1	Baynes, John W.	Medical Biochemistry	4	2014					
116	2	Baynes, J W	Medical Biochemistry	6	2022					
117	2	Wilson, T	Medical Biochemistry: Human Metabolism in Health and	1	2020					
118	7	Dandekar Sucheta P	Medical Biochemistry: Preparatory Manual for	2	2002					
119	10	Godkar, P B	Medical Biochemistry: Theory and Practicals	1	2024					
120	5	Godkar, P B	Medical Biochemistry: Theory and Practicals Question and	3	1986	10				
121	1	H U Bergmeyer	Methods of Enzymatic Analysis	6	1982					
122	3	Wootton, I D P	Microanalysis in Medical Biochemistry	7	2000					
123	1	Lodish, Harvey	Molecular Cell Biology	1	2003					
124	1	Sridhara, Susheela	Molecular Probes in Laboratory Diagnosis							

2	20	Hassall, H	Multiple Choice Questions in Biochemistry	1	1985	
3	2023	Malhotra, V. K.	Multiple Choice Questions in Biochemistry	2	1989	
1	1987	Sharma D. C.	Nutritional Biochemistry	1	2017	
7	2018	Dhok, A J	Objective Structured Practical Examination In Biochemistry	1	2023	
128	10	Osullivan, D G	Pocket Examiner in Biochemistry	1	1986	
129	4	Gupta, R C	Practical Biochemistry	6	2022	
130	10	Agrwal Poonam	Practical Biochemistry with Clinical Correlation for MBBS	1	2024	
131	10	Varley Harold	Practical Clinical Biochemistry	4	2005	
132	5	Ranjna Chawla	Practical Clinical Biochemistry: Methods and	3	2008	
133	2	Singh, S. P.	Practical Manual of Biochemistry	5	2004	
134	1	Singh, S P	Practical Manual of Biochemistry	7	2014	
135	2	D C Sharma	Practical Medical Biochemistry	1	2007	
136	2	Vasudevan D M	Practical Textbook of Biochemistry for Medical Students	2	2013	
137	5	Rafi M	Principles and Applications of Biochemistry in Medicine	1	2013	
138	4	Keith Wilson	Principles and Techniques of Biochemistry and Molecular	7	2010	
139	1	Moran, Laurence A	Principles of Biochemistry	5	2012	
140	1	Price, C P	Recent Advances in Clinical Biochemistry	1	1985	3
141	1	Agrawal, Poonam	Review of Biochemistry	4	2018	
142	2	Vasudevan, D M	Revision Exercises Based on Textbook of Biochemistry	6	2011	
143	4	Pant M C	Self Assessment in Biochemistry	1	1993	
144	5	Agarwal, G R	Textbook of Biochemistry	6	1991	
145	10	Agarwal G R	Textbook of Biochemistry	8	1995	
146	15	Agarwal G R	Textbook of Biochemistry	10	1999	
147	10	Devlin Thomas M	Textbook of Biochemistry	7	2011	
148	1	Haque, S	Textbook of Biochemistry	1	2013	1
149	1	Haque, S	Textbook of Biochemistry	1	2013	2
150	1	Haque, S	Textbook of Biochemistry	1	2013	3
151	1	Lal H	Textbook of Biochemistry	3	2017	
152	2	Rafi, M D	Textbook of Biochemistry	5	2024	
153	5	Rama Rao, A V S S	Textbook of Biochemistry	5	1988	
154	8	Rao A V S S R	Textbook Of Biochemistry	7	1997	
155	2	Singh S P	Textbook of Biochemistry	2	1998	
156	1	Sharma, D C	Textbook of Biochemistry	1	1999	
157	5	Singh S P	Textbook of Biochemistry	5	2012	
158	2	Vasudevan D M	Textbook of Biochemistry	9	2019	
159	5	West, Edward S	Textbook of Biochemistry	4	1974	
160	8	Talwar G P	Textbook of Biochemistry and Human Biology	2	1989	
161	4	Rafi M D	Textbook of Biochemistry for Medical Students	2	2014	
162	15	Rama Rao, A V S S	Textbook of Biochemistry for Medical Students	6	1992	
163	4	Vasudevan, D M	Textbook of Biochemistry for Medical Students	2	1998	
164	6	Vasudevan, D M	Textbook of Biochemistry for Medical Students	3	2001	
165	8	Vasudevan, D M	Textbook of Biochemistry for Medical Students	6	2011	
166	4	Vasudevan, D M	Textbook of Biochemistry for Undergraduate	3	2019	
167	5	Rafi M D	Textbook of Biochemistry with Biomedical Significance for	2 rev	2024	
168	5	Gupta, Prem Prakash	Textbook of Biochemistry with Clinical Correlations	7	2022	
169	2	Devlin, T M	Textbook of Biophysics	2	2013	
170	1	Roy, R N	Textbook of Medical Biochemistry	2	1995	
171	15	Chatterjea, M N	Textbook of Medical Biochemistry	4	2000	
172	11	Chatterjea M N	Textbook of Medical Biochemistry	5	2002	
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174	4	Chatterjea, M N	Textbook of Medical Biochemistry	7	2007	
175	7	Chatterjea M N	Textbook of Medical Biochemistry	8	2013	
176	31	Chatterjea M N	Textbook of Medical Biochemistry	3	2023	
177	5	Gupta, S K	Textbook of Medical Biochemistry	3	2011	
178	7	Puri, Dinesh	Textbook of Medical Biochemistry	4	2022	
179	29	Puri Dinesh	Textbook of Medical Biochemistry	2	1991	
180	22	Ramkrishnan, S	Textbook of Medical Biochemistry	6	2008	
181	4	Burtis, Carl A.	Tietz Fundamentals of Clinical Chemistry	8	2019	
182	5	Rifai Nader	Tietz Fundamentals of Clinical Chemistry and Molecular	4	2006	
183	1	Burtis, C	Tietz Textbook of Clinical Chemistry and Molecular	5	2012	
184	2	Carl A Burtis	Tietz Textbook of Clinical Chemistry and Molecular	1 sac	2018	
185	5	Rifai Nader	Tietz Textbook of Clinical Chemistry and Molecular	1	2003	
186	1	Sarma, P Usha	Trends in Clinical Biochemistry and Laboratory Medicine	6	1988	
187	11	Gowenlock, A H	Varleys Practical Clinical Biochemistry			

188	1	Singh S. P	Viva in Biochemistry	5	2018	
189	1	Singh S P	Viva in Biochemistry Including Molecular Biology and	4	2015	
190	2	Voet Donald	Voets Principles of Biochemistry	5	2018	
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