



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	CENTRAL CLINICAL LABORATORY, CHIRAYU MEDICAL COLLEGE AND HOSPITAL, BHOPAL INDORE HIGHWAY, BHAIKAKHEDI, BHOPAL, MADHYA PRADESH, INDIA		
<b>Accreditation Standard</b>	ISO 15189:2012	<b>Page No</b>	1 of 5
<b>Certificate Number</b>	MC-3099	<b>Last Amended on</b>	-
<b>Validity</b>	10/01/2024 to 09/01/2026		

In view of the transition deadline for ISO 15189:2022, the validity of this accreditation certificate will cease on 31.12.2025.

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CLINICAL BIOCHEMISTRY	Plasma	Glucose	Hexokinase
2	CLINICAL BIOCHEMISTRY	Plasma	Glucose II	GOD-POD
3	CLINICAL BIOCHEMISTRY	Serum	Alanine amino transferase	IFCC ECCLS without P5P
4	CLINICAL BIOCHEMISTRY	Serum	Alanine amino transferase II	Kinetic with P5P
5	CLINICAL BIOCHEMISTRY	Serum	Albumin	BCG
6	CLINICAL BIOCHEMISTRY	Serum	Albumin II	BCG (Dry chemistry analyzer)
7	CLINICAL BIOCHEMISTRY	Serum	Alkaline Phosphatase	IFCC/AMP
8	CLINICAL BIOCHEMISTRY	Serum	Alkaline Phosphatase II	4-Nitrophenyl phosphate/AMP buffer
9	CLINICAL BIOCHEMISTRY	Serum	Aspartate aminotransferase	IFCC ECCLS without P5P
10	CLINICAL BIOCHEMISTRY	Serum	Aspartate aminotransferase II	Kinetic with P5P
11	CLINICAL BIOCHEMISTRY	Serum	Aspartate Aminotransferase III	Kinetic with P-5-P
12	CLINICAL BIOCHEMISTRY	Serum	BUN II	Urease enzymatic
13	CLINICAL BIOCHEMISTRY	Serum	Creatinine	Jaffe's buffer kinetic
14	CLINICAL BIOCHEMISTRY	Serum	Creatinine II	Enzymatic (Creatinine amidohydrolase)
15	CLINICAL BIOCHEMISTRY	Serum	Direct bilirubin	Diazo method
16	CLINICAL BIOCHEMISTRY	Serum	Direct bilirubin II	Calculated
17	CLINICAL BIOCHEMISTRY	Serum	Indirect bilirubin	Calculated
18	CLINICAL BIOCHEMISTRY	Serum	Indirect bilirubin II	Modified Diazo method
19	CLINICAL BIOCHEMISTRY	Serum	Total bilirubin	Colorimetric Diazo method
20	CLINICAL BIOCHEMISTRY	Serum	Total bilirubin II	Classic Diazo method
21	CLINICAL BIOCHEMISTRY	Serum	Total Protien	Biuret
22	CLINICAL BIOCHEMISTRY	Serum	Total Protien II	Biuret (Dry chemistry analyzer)
23	CLINICAL BIOCHEMISTRY	Serum	Urea	Urease GLDH
24	CLINICAL PATHOLOGY	Urine	Bilirubin	Strip /based on azo-coupling reaction of bilirubin with diazonium salt to form azodye, Fouchet's
25	CLINICAL PATHOLOGY	Urine	pH	Strip/Double indicator principle
26	CLINICAL PATHOLOGY	Urine	Protein	Strip/Protein-error of indicators principle, Heat coagulation and Acetic acid method



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<b>Accreditation Standard</b>	ISO 15189:2012		
<b>Certificate Number</b>	MC-3099	<b>Page No</b>	2 of 5
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27	CLINICAL PATHOLOGY	Urine	Bile salts	Sulphur Powder
28	CLINICAL PATHOLOGY	Urine	Blood	Strip /Test based on peroxidase like activity of hemoglobin
29	CLINICAL PATHOLOGY	Urine	Glucose	Strip/Glucose-oxidase/peroxidase reaction, Benedict's Method
30	CLINICAL PATHOLOGY	Urine	Ketones	Strip/Nitroprusside
31	CLINICAL PATHOLOGY	Urine	Microscopic Examination	Analysis of Centrifuged deposit for cells, casts, crystals.
32	CLINICAL PATHOLOGY	Urine	Physical Examination/Macroscopy	Physical Characteristics
33	CLINICAL PATHOLOGY	Urine	Specific gravity	Strip/Detection concentration using bromthymol blue as indicator
34	CLINICAL PATHOLOGY	Urine	Urobilinogen	Strip /Modified Ehrlich reaction
35	CYTOPATHOLOGY	Fluid Aspiration from serosal cavities urine CSF BAL	Exfoliative cytologic analysis	Centrifuged deposit smear. Smear preparation (Dry/wet fixed). Stain (MGG & Pap). Microscopic Evaluation and interpretive report including presence/absence of malignancy (with recommendation if any).
36	CYTOPATHOLOGY	Material obtained from palpable/non palpable lesions in the body	Fine Needle Aspiration Cytology	Obtaining representative material by aspiration/non aspiration technique, Blind procedure or under imaging guidance. Preparation of smears (air dried wet fixed). Staining with MGG stain and Pap/H&E & Microscopic study of stained slide and interpretive report with recommendation (if any)
37	CYTOPATHOLOGY	Slide with smear (Stained)	Second opinion slide (Slide for review)	Microscopic study and interpretive report with recommendation (if any)
38	CYTOPATHOLOGY	Smear from ecto/Endocervix vagina	Pap smear study	Alcohol fixed smears from the Obs & Gynecology department received. Staining with Rapid PAP stain. Microscopic study and interpretive report on lines of Bethesda system with recommendation (if any)
39	HAEMATOLOGY	Blood (EDTA)	Blood Group	Forward and Reverse grouping using tube and slide method
40	HAEMATOLOGY	Blood (EDTA)	Differential Count	Leishmann Stain
41	HAEMATOLOGY	Blood (EDTA)	Hematocrit (PCV)	Calculated value
42	HAEMATOLOGY	Blood (EDTA)	Hemoglobin	Cyanide free reagent method



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43	HAEMATOLOGY	Blood (EDTA)	MCH	Calculated method
44	HAEMATOLOGY	Blood (EDTA)	MCHC	Calculated Method
45	HAEMATOLOGY	Blood (EDTA)	MCV	Calculated Method
46	HAEMATOLOGY	Blood (EDTA)	Total Platelet Count	Impedance method
47	HAEMATOLOGY	Blood (EDTA)	Total RBCs Count	Impedance Method
48	HAEMATOLOGY	Blood (EDTA)	Total WBC Count	Flow Cytometry
49	HAEMATOLOGY	Blood /Peripheral Smear	Blood Smear with Comment	Leishmann Stain
50	HISTOPATHOLOGY	Biopsy in formalin	Histopathology	1. Fixation of tissue 2. Gross Description and sampling of representative Tissue 3. Automated tissue processing 4. Paraffin Impregnation and Blocks 5. Microtomy 6. Stain with H&E 7. Microscopic study of slides and interpretive report with recommendations (if any)
51	HISTOPATHOLOGY	Paraffin Block from processed tissue	Second opinion of Histopathology report (Paraffin Block for review)	1. Microtomy 2. Stain with H&E 3. Microscopic study of slides and interpretive report with recommendation (if any)
52	HISTOPATHOLOGY	Slide with stained/unstained section	Second opinion of Histopathology report (Slide for review)	Microscopic study of stained slides and interpretative report with recommendations (if any)
53	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Sputum, Bronchoalveolar lavage, ET Secretions, Pus, Urine, Tissue, Throat Swab, Wound swab, Sterile Body Fluids (Cerebrospinal fluid, Vitreous fluid, Pleural fluid, Ascitic fluid, Peritoneal fluid, Pericardial fluid, Synovial fluid) Aspirate, Drain fluid, Oral swab, Bronchial washing, Nasopharyngeal swab, Conjunctival swab, Menstrual blood & Prostate secretions	Ziehl Neelsen Staining	Microscopy
54	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Fungal Growth	Fungal Identification	Manual
55	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Growth of Candida Species	Antifungal Susceptibility for Candida species	E Test



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56	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Scrapings (Skin, Hair, Nails, Swab from base of Ulcer) Scraping from Corneal Ulcer, Tissue, Bronchoalveolar lavage, Sputum, ET Secretions, Sterile body fluids (Cerebrospinal fluid, Vitreous fluid, Pleural fluid, Ascitic fluid, Peritoneal fluid, Pericardial fluid, Synovial fluid, Amniotic fluid) Urine, Aspirate, Drain fluid, Pus & High Vaginal Swab.	KOH Mount	Microscopy
57	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Scrapings (Skin, Hair, Nails, Swab from base of ulcer), Scraping from corneal ulcer, Bronchoalveolar lavage, Sputum, ET Secretions, Urine, Blood, Throat Swab, Tissue, Sterile body fluids (Cerebrospinal fluid, Vitreous fluid, Pleural fluid, Ascitic fluid, Peritoneal fluid, Pericardial fluid, Synovial fluid, Amniotic fluid) Wound swab, Aspirate, Drain fluid, Nasopharyngeal swab, Pus. & High Vaginal Swab,	Fungal Culture	Manual
58	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Anti HIV I & II Antibodies	Immunochromatography
59	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Anti HIV I & II Antibodies	Immunoconcentration Assay
60	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Anti HIV I & II Antibodies	Immunodot Assay
61	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Anti HCV Antibodies	Immunochromatography
62	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	C- Reactive Protein	Latex agglutination test
63	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	HBsAg	Immunochromatography
64	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Rapid Plasma Reagin (RPR) Card test	Slide flocculation
65	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Serum	Rheumatoid factor	Latex agglutination test



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<b>Certificate Number</b>	MC-3099	<b>Page No</b>	5 of 5
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66	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Sputum, Bronchoalveolar lavage, ET Secretions, Pus, Urine, Stool Tissue, Sterile body fluids (Cerebrospinal fluid, Vitreous fluid, Pleural fluid, Ascitic fluid, Peritoneal fluid, Pericardial fluid, Synovial fluid, Amniotic fluid) Swabs (Conjunctival Swab, Ear Swab, Throat Swab, Nasopharyngeal Swab, Nail Swab, High Vaginal Swab, Endocervical swab, Wound Swab, Oral Swab,) Aspirate, Drain fluid, Bronchial washings.	Gram stain	Microscopy
67	MICROBIOLOGY & INFECTIOUS DISEASE SEROLOGY	Whole Blood	Leishman Staining	Microscopy
68	MOLECULAR TESTING	Nasopharyngeal swab (Nasal swab)Oropharyngeal swab (Throat swab)Nasopharyngeal aspirate or washes, Oropharyngeal aspirate or washes,Tracheal aspirates,Sputum,Bronchoalveolar Lavage (BAL).	SARS-CoV-2 RNA Qualitative	Real-Time RT-PCR based on oligonucleotide hydrolysis