

CERTIFICATE OF ACCREDITATION

TRANSCAAL ENGINEERS INDIA PVT LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

96/1-1, 1ST FLOOR, EAST PARK ROAD, 9TH CROSS, BETWEEN SAMPIGE AND MARGOSA ROAD, MALLESWARAM, BENGALURU, KARNATAKA, INDIA

in the field of

TESTING

Certificate Number:

Issue Date:

TC-9182

ate:

04/01/2021

Valid Until:

03/01/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : TRANSCAAL ENGINEERS INDIA PVT LIMITED

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer





Laboratory Name :		T LIMITED, # 96/1-1, 1ST FLOOR, E MARGOSA ROAD, MALLESWARAM,	•
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9182	Page No	1 of 8
Validity	04/01/2021 to 03/01/2023	Last Amended on	-

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
		Site Facility		
1	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	High Contrast Resolution	AERB Test Protocol
2	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT equipment	Low Contrast Resolution	AERB Test Protocol
3	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Measurement of Computed Tomography Dose Index (CTDI)	AERB Test Protocol
4	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Measurement of mA / mAs Linearity	AERB Test Protocol
5	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Measurement of operation potential	AERB Test Protocol
6	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Measurement of Radiation Protection Survey	AERB Test Protocol
7	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Radiation Output Consistency	AERB Test Protocol
8	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Radiation Profile width/Slice Thickness	AERB Test Protocol
9	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Timer Accuracy	AERB Test Protocol
10	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Total Filtration	AERB Test Protocol
11	DIAGNOSTIC RADIOLOGY QA TESTING- COMPUTED TOMOGRAPHY (CT)	CT Equipment	Tube Housing Leakage	AERB Test Protocol
12	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM & O-ARM	Radiation Output Consistency	AERB Test Protocol





SCOPE OF ACCREDITATION

Laboratory Name :	TRANSCAAL ENGINEERS INDIA PVT LIMITED, # 96/1-1, 1ST FLOOR, EAST PARK ROAD, 9TH CROSS, BETWEEN SAMPIGE AND MARGOSA ROAD, MALLESWARAM, BENGALURU, KARNATAKA, INDIA		
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13	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM & O-ARM	Total Filtration	AERB Test Protocol
14	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	Accuracy of Operating Potential	AERB Test Protocol
15	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	Exposure Rate at Table Top	AERB Test Protocol
16	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	High Contrast Sensitivity	AERB Test Protocol
17	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	Linearity of mA/mAs loading stations	AERB Test Protocol
18	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	Low contrast Sensitivity	AERB Test Protocol
19	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	C-ARM and O-ARM	Tube Housing Leakage	AERB Test Protocol
20	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiological Equipment	Radiation Output Consistency	AERB Test Protocol
21	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Accuracy of Irradiation time	AERB Test Protocol





Laboratory Name :		T LIMITED, # 96/1-1, 1ST FLOOR, E MARGOSA ROAD, MALLESWARAM,	
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22	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Accuracy of Operating Potential	AERB Test Protocol
23	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Exposure Rate at Table Top	AERB Test Protocol
24	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	High Contrast Sensitivity	AERB Test Protocol
25	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Linearity of mA/mAs loading	AERB Test Protocol
26	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Low contrast Sensitivity	AERB Test Protocol
27	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Measurement of Radiation Protection Survey	AERB Test Protocol
28	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Total Filtration	AERB Test Protocol
29	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	Interventional Radiology Equipment	Tube Housing Leakage	AERB Test Protocol
30	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Accuracy of Irradiation Time	AERB Test Protocol





SCOPE OF ACCREDITATION

Laboratory Name :	TRANSCAAL ENGINEERS INDIA PVT LIMITED, # 96/1-1, 1ST FLOOR, EAST PARK ROAD, 9TH CROSS, BETWEEN SAMPIGE AND MARGOSA ROAD, MALLESWARAM, BENGALURU, KARNATAKA, INDIA		
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31	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Accuracy of operating potential	AERB Test Protocol
32	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Central beam alignment	AERB Test Protocol
33	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Congruence of radiation and optical field	AERB Test Protocol
34	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Effective focal spot measurement	AERB Test Protocol
35	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	High Contrast Sensitivity	AERB Test Protocol
36	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Linearity of mA/mAs loading stations	AERB Test Protocol
37	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Low contrast Sensitivity	AERB Test Protocol
38	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Measurement of Radiation Protection Survey	AERB Test Protocol
39	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Radiation Output Consistency	AERB Test Protocol





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40	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Total Filtration	AERB Test Protocol
41	DIAGNOSTIC RADIOLOGY QA TESTING- INTERVENTIONAL RADIOLOGY & FLUOROSCOPY	X-ray & Fluoroscopy	Tube housing leakage	AERB Test Protocol
42	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Accuracy of Irradiation Time	AERB Test Protocol
43	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Accuracy of Potential	AERB Test Protocol
44	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Linearity of mA/mAs loading stations	AERB Test Protocol
45	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Measurement of Radiation Protection Survey	AERB Test Protocol
46	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Performance of Imaging Phantom	AERB Test Protocol
47	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Radiation Output Consistency	AERB Test Protocol
48	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Total Filtration	AERB Test Protocol
49	DIAGNOSTIC RADIOLOGY QA TESTING- MAMMOGRAPHY	Mammography	Tube Housing Leakage	AERB Test Protocol
50	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (Intra oral)	Tube Housing Leakage	AERB Test Protocol
51	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG)	Tube Housing Leakage	AERB Test Protocol





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52	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG and Intra oral)	Accuracy of Operating Potential	AERB Test Protocol
53	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG and Intra oral)	Accuracy of Timer	AERB Test Protocol
54	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG and Intra oral)	Linearity of mA/mAs loading stations	AERB Test Protocol
55	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG and Intra oral)	Radiation Output Consistency	AERB Test Protocol
56	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG and Intra oral)	Total Filtration	AERB Test Protocol
57	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental (OPG)	Measurement of Radiation Protection Survey	AERB Test Protocol
58	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Accuracy of Operating Potential	AERB Test Protocol
59	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Accuracy of Timer	AERB Test Protocol
60	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	CTDI(CTDI W) Head	AERB Test Protocol
61	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	High Contrast Sensitivity	AERB Test Protocol
62	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Low contrast Sensitivity	AERB Test Protocol





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63	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Measurement of mA / mAs Linearity	AERB Test Protocol
64	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Measurement of Radiation Protection Survey	AERB Test Protocol
65	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Radiation Output Consistency	AERB Test Protocol
66	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Total Filtration	AERB Test Protocol
67	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	Dental / Extremity Cone Beam CT	Tube housing leakage	AERB Test Protocol
68	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	DEXA	Measurement of Radiation Protection Survey	AERB Test Protocol
69	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray & Fluoroscopy	Exposure Rate at Table Top	AERB Test Protocol
70	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed)	Measurement of Radiation Protection Survey	AERB Test Protocol
71	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Accuracy of Irradiation Time	AERB Test Protocol
72	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Accuracy of operating potential	AERB Test Protocol
73	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Linearity of mA/mAs loading stations	AERB Test Protocol





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74	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Radiation Output Consistency	AERB Test Protocol
75	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Total Filtration	AERB Test Protocol
76	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile & BMD)	Tube Housing Leakage	AERB Test Protocol
77	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile)	Central beam alignment	AERB Test Protocol
78	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile)	Congruence of radiation and optical field	AERB Test Protocol
79	DIAGNOSTIC RADIOLOGY QA TESTING- RADIOGRAPHY (X-RAY - FIXED PORTABLE, MOBILE)	X-ray - (Fixed, Portable, Mobile)	Effective focal spot measurement	AERB Test Protocol