

MEMORANDUM OF UNDERSTANDING Dt. 08-03-2025

M/s. Ramesh Krishna Engineers Pvt. Ltd., located at Plot No. 153/B, C, E & F, IDA Cherlapally Phase 2, Cherlapally, Ghatkesar, Medchal-Malkajgiri, 500051 and M/s. KVS Metallurgical Labs Pvt Ltd (KVS), located at Plot No. 47, TIE, Balanagar, Hyderabad – 500 037 have entered into an agreement to conduct testing of materials for Chemical, Mechanical DT & NDT (UT, MT, RT & PT) properties and Macro Examination. The agreement specifies all the necessary details.

1. It has been agreed that M/s. KVS Metallurgical Labs Pvt Ltd will conduct testing of the material in accordance with the requirements of M/s. Ramesh Krishna Engineers Pvt. Ltd., whose address is Plot No. 153/B, C, E & F, IDA Cherlapally Phase 2, Cherlapally, Ghatkesar, Medchal-Malkajgiri, 500051 as per the defined IS & ASME codes.
2. All test specimens required by M/s. KVS Metallurgical Labs Pvt Ltd must be supplied by M/s. Ramesh Krishna Engineers Pvt. Ltd.
3. M/s. KVS Metallurgical Labs Pvt Ltd will be responsible for conducting Chemical, Mechanical DT & NDT (UT, MT, RT & PT) properties and Macro Examination tests as and when required by M/s. Ramesh Krishna Engineers Pvt. Ltd. M/s. KVS Metallurgical Labs Pvt Ltd will issue all the test certificates.
4. Charges for testing the specimens shall be borne by M/s. Ramesh Krishna Engineers Pvt. Ltd.
5. This MOU is valid for 08 (Eight) years from 08-03-2025 to 07-03-2033.

Yours Truly

For KVS Metallurgical Labs Pvt Ltd



Yours Truly

For Ramesh Krishna Engineers Pvt. Ltd.



KVS Metallurgical Labs Pvt. Ltd.

NABL Accredited Lab As Per ISO / IEC - 17025 - 2017 (TC - 9035)
& An ISO 9001 : 2015 Certified Lab

Plot No. 47, TIE, Balanagar, Hyderabad- 500 037, Telangana, India.

+91-7997773440, +91- 9849493440

info@kvsmetlabs.com, ndt@kvsmetlabs.com www.kvsmetlabs.com

• Chemical Analysis • Mechanical Testing • Metallography • Salt Spray • Non-Destructive Testing (RT, UT, MT, PT)

NOTE: 1. The Result(s) pertains to the sample received at our lab, any correction invalidates this test report. 2. This test report shall not be re-produce the, except in full without the written permission of the lab. 3. Tested samples will be retained for a maximum period of 30 days after issuing test report, unless requested by the customer separately. 4. Sampling is not carried out by KVS. 5. Sample description is not verified in all cases is taken as described by the Customer. 6. Any complaints about this test report should be communicated within 7 days of the receipt.



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

KVS METALLURGICAL LABS PRIVATE 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

PLOT NO.47, SHOP NO.4, TIE BALANAGAR, HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA,
INDIA

in the field of

TESTING

Certificate Number: TC-9035

Issue Date: 07/10/2024

Valid Until:

06/10/2028

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 Entity: KVS METALLURGICAL LABS PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer





National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

KVS METALLURGICAL LABS PRIVATE LIMITED, PLOT NO.47, SHOP NO.4, TIE BALANAGAR,
HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard

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Validity

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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
17	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bismuth(Bi)	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cobalt(Co)	BS EN 15079
19	CHEMICAL- METALS & ALLOYS	Copper Alloys	Iron(Fe)	BS EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper Alloys	Lead(Pb)	BS EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper Alloys	Nickel(Ni)	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper Alloys	Phosphorus(P)	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silicon(Si)	BS EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silver(Ag)	BS EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sulphur(S)	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper Alloys	Tin(Sn)	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zinc(Zn)	BS EN 15079
28	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium (Al)	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Aluminium (Al)	IS8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon(C.)	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon(C.)	IS8811
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium(Cr)	ASTM E415





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Permanent Testing				
1	CHEMICAL-CORROSION TESTS	Galvanized Products / Panels / Raw Materials	Corrosion Resistance testing	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Chromium(Cr)	ASTM E1251
3	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Copper(Cu)	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Iron (Fe)	ASTM E1251
5	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Lead(Pb)	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Magnesium (Mg)	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Manganese(Mn)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Nickel(Ni)	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Silicon(Si)	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Tin(Sn)	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Titanium(Ti)	ASTM E1251
12	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Vanadium(V)	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zinc(Zn)	ASTM E1251
14	CHEMICAL- METALS & ALLOYS	Copper Alloys	Aluminium(Al)	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper Alloys	Antimony(Sb)	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper Alloys	Arsenic(As)	BS EN 15079



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33	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Chromium(Cr)	IS8811
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Cobalt(Co)	ASTM E415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Cobalt(Co)	IS8811
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper(Cu)	ASTM E415
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Copper(Cu)	IS8811
38	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese(Mn)	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Manganese(Mn)	IS8811
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum(Mo)	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Molybdenum(Mo)	IS8811
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel(Ni)	ASTM E415
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Nickel(Ni)	IS8811
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus(P)	ASTM E415
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Phosphorus(P)	IS8811
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon(Si)	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Silicon(Si)	IS8811
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur(S)	ASTM E415



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49	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Sulphur(S)	IS8811
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium(V)	ASTM E415
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Vanadium(V)	IS8811
52	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium Zinc Coating (single Spot)	IS 15961
53	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium Zinc Coating (Triple Spot)	IS 15961
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon(C.)	ASTM E1086
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon(C.)	IS9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium(Cr)	ASTM E1086
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium(Cr)	IS9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper(Cu)	ASTM E1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper(Cu)	IS9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese(Mn)	ASTM E1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese(Mn)	IS9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum(Mo)	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum(Mo)	IS9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel(Ni)	ASTM E1086



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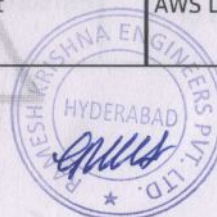
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65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel(Ni)	IS9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus(P)	ASTM E1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus(P)	IS9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon(Si)	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon(Si)	IS9879
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur(S)	ASTM E1086
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur(S)	IS9879
72	CHEMICAL- METALS & ALLOYS	Zinc Coated iron and steel articles	Mass of Zinc Coating (Triple Spot)	IS 6745
73	CHEMICAL- METALS & ALLOYS	Zinc Coated iron and steel articles	Mass of Zinc Coating(Single Spot)	IS 6745
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	% of Elongation	ASTM B 557
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	0.2% Offset	ASTM B 557
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	Tensile Test	ASTM B 557
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Material	Fracture Test	AWS D 1.1 Cl. No. 6.23.4





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78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Material	Transverse Tensile Test	IS 3600-3
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Elongation	ASTME8/E8M
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% of Elongation	ISO 6892 Part-1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	% Reduction of Area	ASTM E8/E8M
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Offset by extensometer (M/c calibrated as per ASTM E4)	ASTM E8/E8M
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof Strength	IS 1608 (Part-1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	0.2% Proof Stress	ISO 6892 Part-1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Bend Test (Plate, Bars, Strips, Sections & Sheets)	ASTM E290
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Bend Test (Plate, Bars, Strips, Sections & Sheets)	IS 1599



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87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (Load 10mm/3000 Kg)	ASTM E 10
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (Load 10mm/3000 Kg)	IS 1500 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness Test (Load 5mm/750Kg)	ASTM E 10
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness Test (Load 5mm/750Kg)	IS 1500 (Part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Charpy impact Test (-70 °C to Room Temp)	IS 1757(Part- 1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Charpy Test (-70 °C to Room Temp)	EN ISO 148-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Elongation	IS 1608 (Part-1)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Fracture test	ISO 9017
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Reduction of Area	IS 1608(Part 1)



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96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Reduction of Area	ISO 6892 Part-1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell hardness in 'C' Scale	IS 1586 (Part - 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Rockwell Hardness Test in 'B' Scale	IS 1586 (Part1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	ASTM E8/E8
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	IS 1608 (Part-1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Tensile Test	ISO 6892 Part-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 10kg)	ASTM E92
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 5Kg)	ASTM E92
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness (Load 5Kg)	IS 1501:Part 1



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105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Vickers Hardness(Load 10kg)	IS 1501 part 1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Face Bend, Root Bend	IS 3600-5
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Face Bend, Root Bend, Side Bend	API 1104 Cl. No. 5.6.4 & 5.6.5
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Nick Break Test	API 1104 Cl. No. 5.6.3
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials & Alloys	Side Bend	IS 3600-6
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Transverse Tensile Test	API 1104 Cl. No. 5.6.2
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Wedge Load	IS 1367-3
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials & Alloys	Wedge Load	ISO 898-1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys& Products	Nick Break Test & Fillet Weld Fracture	IS 3600-8





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114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	All weld metal tensile	IS 2825
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Fracture test	ASME Sec. IX Cl. No. QW-182
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints	Root Bend Test, Face Bend Test & Side Bend Test	AWS D1.1; D1.1M; Cl. No. 6.10.3.1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Side Bend	ASTM E 190
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Tensile Strength (Transverse)	ASME Sec. IX Cl. No. QW-150
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints	Tensile Strength (Transverse)	AWS D1.1; D1.1M; Cl. No. 6.10.3.4
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints	Transverse Root Bend Test, Transvers Face Bend Test & Transvers Side Bend Test	ASME Sec. IX Cl. No. QW-161.3, QW-161.2 & QW-161.1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	IS 1367 (Part 3)
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	ISO 898-1





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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	IS 1367 (Part 6)
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	ISO 898-2
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	0.2% Offset	ASTM A 370
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Elongation	ASTM A 370
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Reduction of Area	ASTM A 370
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Tensile Test	ASTM A 370
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Vickers Hardness Test (30 Kg)	IS 1501 part 1
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Steel products	Vickers Hardness Test (30Kg)	ASTM E92
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Hardness test on arc welded joints (Vickers@ Load 10Kg)	ISO 9015-1





National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

KVS METALLURGICAL LABS PRIVATE LIMITED, PLOT NO.47, SHOP NO.4, TIE BALANAGAR,
HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9035

Page No

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Validity

07/10/2024 to 06/10/2028

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
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Hardness test on arc welded joints (Vickers@ Load 5Kg)	ISO 9015-1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Root Bend Test, Face Bend Test & Side Bend Test	ISO 5173
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & Weld joints	Tensile Strength (Transverse)	ISO 4136
135	MECHANICAL-METALLOGRAPHY TEST	Carbon and alloy steels	Methods for measuring case depth of steel (Macrostructure and Microscopic methods)	IS 6416
136	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro Test	AWS D1.1 Cl. No. 6.10.4 & Cl. No. 6.10.4.1; AWS D1.1M; Cl. No. 6.23.2.1 & Cl. No. 6.23.2.2; Cl. No. 6.23.2; Cl. No. 10.21.1; Cl. No. 10.21.1.1
137	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials & Alloys	Macro Examination	API 1104 Cl. No. 10.3.6.4.2 & 10.3.6.4.3
138	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials & Alloys	Micro & Macro Examination	IS 3600-9
139	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Estimating the Depth of Decarburization of Steel Specimens	ASTM E1077
140	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Estimating the Depth of Decarburization of Steel Specimens	IS 6396
141	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals	Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247



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142	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Micrographic determination of the apparent grain size	IS 4748
143	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Standard test methods for determining the inclusion content of steel	ASTM E45 (Method A & D)
144	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets	ASTM A604
145	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Microstructure examination.	ASM Metals Hand Book Vol 9
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard practice for Macro etching of metals and alloys	ASTM E340
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard test methods for Determining average grain size	ASTM E112
148	MECHANICAL-METALLOGRAPHY TEST	Fusion weld joints in metals	Macro examination	ASME Sec.IX
149	MECHANICAL-METALLOGRAPHY TEST	Fusion weld joints in metals	Macro examination	ISO 17639
150	MECHANICAL-METALLOGRAPHY TEST	Metallic Coatings	Coating Thickness By Microscopic Method	ASTM B487
151	MECHANICAL-METALLOGRAPHY TEST	Steels	Non Metallic Inclusion Rating (NMIR)	IS 4163
152	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Over 12.7 mm Thickness)	Ultrasonic Test	SAE AMS 2630 B: 1995 ; RA:
153	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Below 12.7mm Thickness)	Ultrasonic Test	SAE AMS 2632





National Accreditation Board for Testing and Calibration Laboratories

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154	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Finished and Semi-finished)	Magnetic Particle Testing	ASTM E 1444/E1444M
155	NON-DESTRUCTIVE-METAL & ALLOYS	Aluminium Wrought Products (rounds & plates 8 to 300 mm)	Ultrasonic Test	ASTM B594: 2019
156	NON-DESTRUCTIVE-METAL & ALLOYS	Carbon & Alloy Steel Plates (6 to 300 mm)	Ultrasonic Test	IS 4225
157	NON-DESTRUCTIVE-METAL & ALLOYS	Casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
158	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Forged steels (Wet & Dry)	IS 7743
159	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet & Dry)	IS 5334
160	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet)	EN ISO 17638
161	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds Casting & Forgings (Wet & Dry)	ASME Sec V Article 7
162	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Wet & Dry	IS 3703
163	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Magnetic Particle Testing	ISO 23278
164	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Penetrant Testing Facility	ISO 23277
165	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous materials (Weld Joints 6 to 100 mm), (Forgings 10 to 300 mm), (Casting 12 to 300 mm) & (Plates 10 to 300 mm)	Ultrasonic Test	ASME Sec-V Article 4, 5 & 23



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166	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous Plates,Welds, Pipes, Forgings, Castings (10 to 70 mm Gamma rays) & (2 to 30 mm X-rays)	Radiography Testing / Radiographic Examination	ASME Sec-V Article 2 & 22
167	NON-DESTRUCTIVE-METAL & ALLOYS	fusion welded joints in metallic materials = 8mm Thk	Ultrasonic Test (UT)	ISO 17640
168	NON-DESTRUCTIVE-METAL & ALLOYS	Plate (Weld), Forging,Casting (Non porous materials)	Open to surface defects	ASTM E 165
169	NON-DESTRUCTIVE-METAL & ALLOYS	Plates (Weld), Forging,Casting (Non Porous materials)	Open to surface defects	IS 3658
170	NON-DESTRUCTIVE-METAL & ALLOYS	Plates(Weld), Forging,Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
171	NON-DESTRUCTIVE-METAL & ALLOYS	Steel Castings (12 to 300 mm)	Ultrasonic Test	IS 7666
172	NON-DESTRUCTIVE-METAL & ALLOYS	Structurul Weld Joints	Ultrasonic Test	AWS D 1.1 D1.1M





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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 Testing				
1	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Over 12.7 mm Thickness)	Ultrasonic Test	SAE AMS 2630 B: 1995 ; RA:
2	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Below 12.7mm Thickness)	Ultrasonic Test	SAE AMS 2632
3	NON-DESTRUCTIVE-METAL & ALLOYS	Aerospace Materials (Finished and Semi-finished)	Magnetic Particle Testing	ASTM E 1444/E1444M
4	NON-DESTRUCTIVE-METAL & ALLOYS	Aluminium Wrought Products (rounds & plates 8 to 300 mm)	Ultrasonic Test	ASTM B594: 2019
5	NON-DESTRUCTIVE-METAL & ALLOYS	Carbon & Alloy Steel Plates (6 to 300 mm)	Ultrasonic Test	IS 4225
6	NON-DESTRUCTIVE-METAL & ALLOYS	Casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
7	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Forged steels (Wet & Dry)	IS 7743
8	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet & Dry)	IS 5334
9	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds (Wet)	EN ISO 17638
10	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Welds Casting & Forgings (Wet & Dry)	ASME Sec V Article 7
11	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic Materials	Magnetic Particle Testing Visible & Fluorescent Method Wet & Dry	IS 3703
12	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Magnetic Particle Testing	ISO 23278





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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
13	NON-DESTRUCTIVE-METAL & ALLOYS	Ferromagnetic steel welds	Penetrant Testing Facility	ISO 23277
14	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous materials (Weld Joints 6 to 100 mm), (Forgings 10 to 300 mm), (Casting 12 to 300 mm) & (Plates 10 to 300 mm)	Ultrasonic Test	ASME Sec-V Article 4, 5 & 23
15	NON-DESTRUCTIVE-METAL & ALLOYS	Ferrous & Non-Ferrous Plates, Welds, Pipes, Forgings, Castings (10 to 70 mm Gamma rays) & (2 to 30 mm X-rays)	Radiography Testing / Radiographic Examination	ASME Sec-V Article 2 & 22
16	NON-DESTRUCTIVE-METAL & ALLOYS	fusion welded joints in metallic materials = 8mm Thk	Ultrasonic Test (UT)	ISO 17640
17	NON-DESTRUCTIVE-METAL & ALLOYS	Plate (Weld), Forging, Casting (Non porous materials)	Open to surface defects	ASTM E 165
18	NON-DESTRUCTIVE-METAL & ALLOYS	Plates (Weld), Forging, Casting (Non Porous materials)	Open to surface defects	IS 3658
19	NON-DESTRUCTIVE-METAL & ALLOYS	Plates(Weld), Forging, Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
20	NON-DESTRUCTIVE-METAL & ALLOYS	Steel Castings (12 to 300 mm)	Ultrasonic Test	IS 7666
21	NON-DESTRUCTIVE-METAL & ALLOYS	Structural Weld Joints	Ultrasonic Test	AWS D 1.1 D1.1M





Case file no.: TS-78633-INST

Date of Issue: 01/07/2024

Document No.: 24-RSO-1151801

Valid till: 01/07/2027

Approval of Radiological Safety Officer

1. The PROPRIETOR, KVS METALLURGICAL LABS, Ranga Reddy is hereby informed that the Competent Authority, Chairman, Atomic Energy Regulatory Board (AERB), in exercise of powers conferred under Rule 19 of the Atomic Energy (Radiation Protection) Rules, 2004, has approved the nomination of SANDEEP KUMAR OMPRAKASH SHARMA as Radiological Safety Officer (RSO) in the KVS METALLURGICAL LABS, Ranga Reddy for the facilities as mentioned in annexure-1 to this document on the basis of information provided in the application.
2. The RSO shall submit the periodic reports to AERB, in the prescribed format on safety status of the radiation installation.
3. The RSO shall promptly report any radiation safety related unusual occurrence to AERB.
4. The RSO shall perform his duties and responsibilities as stipulated in Atomic Energy (Radiation Protection) Rules, 2004 and other related regulatory documents (refer annexure-2).
5. This approval stands cancelled in the event of SANDEEP KUMAR OMPRAKASH SHARMA relinquishing the charge as RSO in KVS METALLURGICAL LABS, Ranga Reddy.

Issuing Authority,

R. K. Singh
Scientific Officer (G)

(This is an electronically generated letter and hence signature is not required)

PROPRIETOR
KVS METALLURGICAL LABS
PLOT NO 47 SHOP NO 4, TIE BALANAGAR, Ranga Reddy - 500037 (Telangana)

Copy: SANDEEP KUMAR OMPRAKASH SHARMA
KVS METALLURGICAL LABS
PLOT NO 47 SHOP NO 4, TIE BALANAGAR, Ranga Reddy - 500037 (Telangana)



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

Case file no.: TS-78633-INST

Date of Issue: 01/07/2024

Document No.: 24-RSO-1151801

Valid till: 01/07/2027

Annexure-1

Sl. No.	Practice	Role(s) of Institute
1	Industrial Radiography	Industrial Radiography (Radiation Facility)



Annexure-2

Duties and Responsibilities of the Radiological Safety Officer

- (1) The Radiological Safety Officer shall be responsible for advising and assisting the employer and licensee on safety aspects aimed at ensuring that the provisions of these rules are complied with.
- (2) The Radiological Safety Officer shall:-
- (a) carry out routine measurements and analysis on radiation and radioactivity levels in the controlled area, supervised area of the radiation installation and maintain records of the results thereof;
 - (b) investigate any situation that could lead to potential exposures;
 - (c) advise the employer regarding -
 - i. the necessary steps aimed at ensuring that the regulatory constraints and the terms and conditions of the licence are adhered to;
 - ii. the safe storage and movement of radioactive material within the radiation installation;
 - iii. Initiation of suitable remedial measures in respect of any situation that could lead to potential exposures; and
 - iv. routine measurements and analysis on radiation and radioactivity levels in the off-site environment of the radiation installation and maintenance of the results thereof;
 - (d) ensure that -
 - i. reports on all hazardous situations along with details of any immediate remedial actions taken are made available to the employer and licensee for reporting to the competent authority and a copy endorsed to the competent authority;
 - ii. quality assurance tests of structures, systems, components and sources, as applicable are conducted; and
 - iii. monitoring instruments are calibrated periodically.
 - (e) assist the employer in -
 - i. instructing the workers on hazards of radiation and on suitable safety measures and work practices aimed at optimizing exposures to radiation sources; and
 - ii. the safe disposal of radioactive wastes; and
 - iii. developing suitable emergency response plans to deal with accidents and maintaining emergency preparedness;
 - (f) advise the licensee on -
 - i. the modifications in working condition of a pregnant worker; and
 - ii. the safety and security of radioactive sources;
 - (g) furnish to the licensee and the competent authority the periodic reports on safety status of the radiation installation; and
 - (h) inform the competent authority when he leaves the employment.
- (3) The Radiological Safety Officer shall have personal monitoring badge prior to handling of radiation source(s) at the facility.



भारत सरकार
परमाणु ऊर्जा नियामक परिषद्
विकिरण संरक्षा प्रभाग



GOVERNMENT OF INDIA
ATOMIC ENERGY REGULATORY BOARD
RADIOLOGICAL SAFETY DIVISION

आवेदन संदर्भ सं. Application Reference No.	आवेदन तिथि Date of Application	केस फाइल नंबर Case File Number	दस्तावेज नंबर Document No.	जारी करने की तिथि Date of Issuance	समाप्ति की तिथि Date of Expiry
23-1083561	31/03/2023	TS-78633-INST	23-IRLOP-928100	17/04/2023	17/04/2026

LICENCE FOR OPERATION OF INDUSTRIAL RADIOGRAPHY FACILITY

परमाणु ऊर्जा अधिनियम, 1962 की धारा 16 तथा 17, जो लागू हो के तहत प्रदत्त शक्तियों का प्रयोग करते हुए परमाणु ऊर्जा (विकिरण संरक्षण) नियम {एई(आरपी)आर}, 2004 के नियम (3) के संयोजन में, परमाणु ऊर्जा नियामक परिषद् (एईआरबी) विकिरण फैसिलिटी के संचालन हेतु लाइसेंस जारी करता है।

In exercise of powers conferred under Sections 16 and 17, as applicable, of Atomic Energy Act, 1962 read in conjunction with Rule (3) of the Atomic Energy (Radiation Protection) Rules {AE(RP)R}, 2004, the Atomic Energy Regulatory Board(AERB) issues Licence for operation of radiation facilities.

उपरोक्त संदर्भित आवेदन सं. के संदर्भ में, नियोक्ता KVS METALLURGICAL LABS, Ranga Reddy के Mr. KODEM VARA PRASAD इसके बाद से इसे लाइसेंसधारक कहा जाएगा, जिसमें निर्दिष्ट प्रावधानों का पालन करने का वचन दिया गया है।

With reference to application no. referred above, the employer Mr. KODEM VARA PRASAD of KVS METALLURGICAL LABS, Ranga Reddy hereinafter referred as Licensee, having undertaken to comply with the provisions specified in the

- परमाणु ऊर्जा अधिनियम, 1962 तथा उसके अंतर्गत बनाए गए नियम Atomic Energy Act, 1962 and the rules framed thereunder,
- संचालन चरणों के लिए निर्दिष्ट आवश्यकताओं के अनुसार लागू कोड, मानक तथा गाइड*Applicable Codes, Standards and Guides* as specified giving requirements for operation stages
- सक्षम प्राधिकारी द्वारा जारी कोई भी आदेश/निर्देश Any Orders/Directives# issued by the Competent Authority,

परिशिष्ट-1 में निर्दिष्ट इस लाइसेंस के नियमों और शर्तों के अनुसार तालिका 1 (पृष्ठ के दूसरी ओर) में निर्दिष्ट फैसिलिटी को संचालित करने के लिए एतद्वारा अधिकृत है, is hereby authorized to operate the facility as specified in the Table 1 (overleaf) in accordance with the Terms & conditions of this licence specified in Appendix-1,

यह लाइसेंस केवल विकिरण संरक्षा की दृष्टि से जारी किया जाता है। अन्य सभी स्वीकृतियां संबंधित केंद्रीय/राज्य/स्थानीय प्राधिकारियों से यथा लागू प्राप्त की जाएंगी। This Licence is issued only from the radiation safety view point. All other clearances shall be obtained from concerned central/state/local authorities as applicable.



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

वेबसाइट/Website: www.aerb.gov.in

दूरभाष/Tel: 91-22-2599 0656

फैक्स/Fax: 91-22-2599 0650

जारीकर्ता प्राधिकारी Issuing Authority

हस्ताक्षर Signature

प्राधिकारी का नाम Name of the Authority

DR. P. K. DASH SHARMA

पदनाम Designation

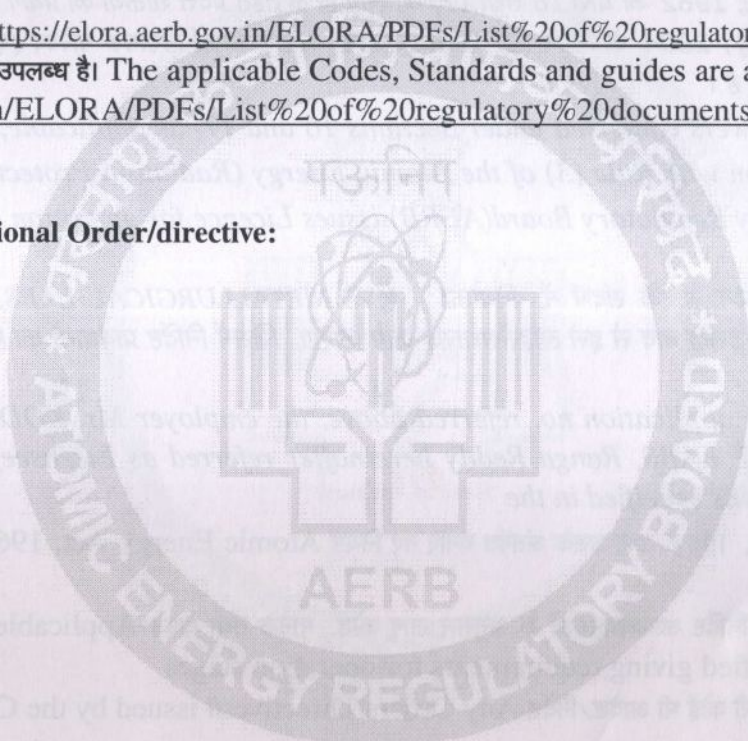
Head, RSD

आवेदक का नाम और संचार पता

MR. KODEM VARA PRASAD,
KVS METALLURGICAL LABS,
PLOT NO 47 SHOP NO 4,
TIE BALANAGAR NEAR ANDHRA BANK,
RANGA REDDY-500037,
TELANGANA.

* लागू कोड, मानक और गाइड <https://elora.aerb.gov.in/ELORA/PDFs/List%20of%20regulatory%20documents%20-practice%20wise.pdf> पर उपलब्ध है। The applicable Codes, Standards and guides are available at <https://elora.aerb.gov.in/ELORA/PDFs/List%20of%20regulatory%20documents%20-practice%20wise.pdf>

अतिरिक्त आदेश/निर्देश Additional Order/directive:



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

वेबसाइट/Website: www.aerb.gov.in

दूरभाष/Tel: 91-22-2599 0656



आवेदन संदर्भ सं. Application Reference No.	आवेदन तिथि Date of Application	केस फाइल नंबर Case File Number	दस्तावेज नंबर Document No.	जारी करने की तिथि Date of Issuance	समाप्ति की तिथि Date of Expiry
23-1083561	31/03/2023	TS-78633-INST	23-IRLOP-928100	17/04/2023	17/04/2026

सारणी Table 1

INDUSTRIAL RADIOGRAPHY फैसिलिटी का विवरण
Details of INDUSTRIAL RADIOGRAPHY FACILITY

प्रेक्टिस Practice	INDUSTRIAL RADIOGRAPHY
प्रयोजन Purpose	Industrial Radiography
रेडियोधर्मी स्रोत का विवरण Radiation Source Details	As per 'CONSENT FOR ROUTINE OPERATION OF RADIATION SOURCE'
फैसिलिटी/संस्थापन का स्थान Location of facility/installation	KVS METALLURGICAL LABS, PLOT NO 47 SHOP NO 4, TIE BALANAGAR NEAR ANDHRA BANK, RANGA REDDY-500037, TELANGANA. AND As per Permission for movement obtained

जारीकर्ता प्राधिकारी Issuing Authority

हस्ताक्षर Signature

प्राधिकारी का नाम Name of the Authority

पदनाम Designation

DR. P. K. DASH SHARMA

Head, RSD



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अनुबंध Appendix 1

नियम और शर्तें TERMS AND CONDITIONS

- विकिरण स्रोतों के संचालन पर प्रतिबंध Constraints on operation of radiation sources:** लाइसेंसधारक किसी भी विकिरण स्रोत (रेडियोधर्मी स्रोत और/या विकिरण उत्पन्न करने वाला उपकरण) को नहीं संभालेगा (क) लाइसेंस में विनिर्दिष्ट के अलावा; (ख) लाइसेंस में विनिर्दिष्ट के अलावा किसी अन्य उद्देश्य के लिए; और (ग) लाइसेंस में विनिर्दिष्ट के अलावा किसी भी स्थान पर। The licensee shall not handle any radiation source (Radioactive Sources and/or Radiation Generating Equipment): (a) other than those specified in the licence; (b) for any purpose other than those specified in the licence; and (c) in any location except as specified in the licence.
- उत्तरदायित्व Responsibilities:** परमाणु ऊर्जा (विकिरण संरक्षण) नियम, 2004 में निर्दिष्ट नियोक्ता, लाइसेंसधारक, आरएसओ और श्रमिकों की जिम्मेदारियों का पालन किया जाएगा। विकिरण फैसिलिटी/गतिविधियों की सुरक्षा के लिए मुख्य जिम्मेदारी लाइसेंसधारक की होगी और नियामक संस्था द्वारा कोई भी नियामक गतिविधियां या निरीक्षण लाइसेंसधारक को सुरक्षा के लिए उसकी जिम्मेदारी से मुक्त नहीं करता है। The responsibilities of the employer, licensee, RSO and workers as specified in the Atomic Energy (Radiation Protection) Rules, 2004 shall be complied with. Prime responsibility for the safety of the radiation facility/activities shall lie with the licensee and any regulatory activities or inspections by the regulatory body does not relieve the licensee from his/her responsibility for safety.
- स्रोतों की सलामती और सुरक्षा Safety and Security of sources:** विकिरण स्रोत की सलामती और सुरक्षा हर समय अर्थात् खरीद से लेकर विकिरण स्रोत के निपटान/उपकरण के बंद होने तक सुनिश्चित की जाएगी। रेडियोधर्मी स्रोत/रेडियोधर्मी स्रोतों को रखने वाले उपकरण अस्थायी रूप से उपयोग में नहीं होने पर एक अनुमोदित और सुरक्षित भंडारण कक्ष में संग्रहीत किए जाएंगे। The safety and security of the radiation source shall be ensured at all the times i.e. from procurement up to the time of disposal of the radiation source/decommissioning of the equipment. The equipment housing the radioactive source/radioactive sources shall be stored in an approved and secured storage room when temporarily not in use.
- नियामक सिफारिशें Regulatory Recommendations:** रेडियोधर्मी स्रोतों के लिए विकिरण सुरक्षा उपायों और भौतिक सुरक्षा उपायों के संबंध में सक्षम प्राधिकारी द्वारा समय-समय पर जारी की जाने वाली सभी नियामक सिफारिशों को लागू किया जाएगा और इसका अक्षरशः पालन किया जाएगा। All the regulatory recommendations, as may be issued from time to time, by the Competent Authority in respect of radiation safety measures and physical security measures for radioactive sources shall be implemented and followed in its letter and spirit.
- अर्हताप्राप्त कार्मिक Qualified manpower:** उपकरण/स्रोतों का संचालन आईआरबी को सूचित किए गए योग्य और प्रशिक्षित विकिरण कर्मियों द्वारा किया जाएगा। Equipment/sources shall be operated by qualified and trained radiation workers as intimated to AERB.
- ले-आउट का संशोधन Modification of layout:** आईआरबी के पूर्वानुमोदन के बिना स्थापना/स्रोत भंडारण फैसिलिटी के अनुमोदित लेआउट में संशोधन, जिसमें विकिरण सुरक्षा निहितार्थ हो सकते हैं, नहीं किए जाएंगे। Modifications in the approved layout of the installation/source storage facility that may have radiation safety implications shall not be carried out without obtaining prior approval of AERB.



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7. **विकिरण निगरानी Radiation Surveillance:** विकिरण कार्य में लगे व्यक्ति (व्यक्तियों) की विकिरण निगरानी (कार्मिक निगरानी सेवा) नियामक आवश्यकताओं के अनुसार प्रदान की जाएगी। Radiation Surveillance (personnel Monitoring Service) of person(s) engaged in radiation work shall be provided as per the regulatory requirements.
8. **आवधिक सुरक्षा स्थिति रिपोर्ट Periodic Safety Status Report:** संस्थान के पास मौजूद सभी विकिरण उपकरणों/स्रोतों की आवधिक स्थिति रिपोर्ट वर्ष में एक बार (कम से कम) एईआरबी को प्रस्तुत की जाएगी। The periodic status report of all radiation devices/sources in the possession of the institution shall be submitted (at least) once in a year to AERB.
9. **रखरखाव Maintenance:** उपकरणों का रखरखाव संबंधित एईआरबी संरक्षा कोड, गाइड और वर्तमान में लागू मानकों के अनुसार किया जाएगा। Maintenance of the equipment shall be carried out in accordance with the respective AERB safety code, guide and standards currently in force.
10. **बिक्री या स्थानांतरण Sale or transfer:** विकिरण स्रोत/डिवाइस/उपकरण/रेडियोधर्मी अपशिष्ट एईआरबी से पूर्वानुमोदन प्राप्त किए बिना किसी अन्य व्यक्ति को बेचा या अन्यथा हस्तांतरित नहीं किया जाएगा। The radiation source/device/equipment/radioactive waste shall not be sold or otherwise transferred to another person without obtaining prior approval from AERB.
11. **विकिरण स्रोतों का संचलन Movement of radiation source:** विकिरण उपकरण/स्रोतों को एईआरबी से पूर्वानुमोदन प्राप्त किए बिना, परिसर के भीतर (जब तक कि उपकरण परिसर के भीतर नियमित आवाजाही के लिए न हो) या बाहर एक स्थान से दूसरे स्थान पर नहीं ले जाया जाएगा। The radiation equipment/sources shall not be moved from one location to another, within the premises (unless the equipment is meant for routine movement within the premises) or outside, without obtaining prior approval from AERB.
12. **रेडियोधर्मी स्रोत का परिवहन Shipment of radioactive material:** एईआरबी से परिवहन के लिए पूर्वानुमति प्राप्त की जाएगी। यह सुनिश्चित किया जाएगा कि रेडियोधर्मी सामग्री के सुरक्षित परिवहन के लिए राष्ट्रीय/ अंतर्राष्ट्रीय विनियमों के अनुसार योग्य पैकिंग, चिह्नित और लेबलिंग किया जाता है। Prior approval for shipment shall be obtained from AERB. The package containing radioactive material is properly packed, marked and labelled and the shipment of radioactive material is in accordance with national/international regulations for safe transport of radioactive material.
13. **नियामक निरीक्षण Regulatory inspection:** विकिरण फैसिलिटी का निरीक्षण करने के लिए सक्षम प्राधिकारी के प्राधिकृत प्रतिनिधि (प्रतिनिधियों) को पूर्ण सहयोग दिया जाएगा। Full co-operation shall be accorded to authorized representative(s) of the Competent Authority to inspect radiation facility.
14. **अप्रयुक्त विकिरण स्रोतों तथा रेडियोधर्मी अपशिष्ट का प्रबंधन Management of disused radiation sources and radioactive waste:** जब कोई विकिरण स्रोत अब अधिकृत उद्देश्य के लिए उपयोग में नहीं है, या इसके उपयोगी जीवन के पूरा होने पर, उपकरण को बंद कर दिया जाएगा और रेडियोधर्मी स्रोत एईआरबी द्वारा निर्धारित प्रक्रिया के अनुसार संरक्षित प्रबंधन के लिए मूल आपूर्तिकर्ता को वापस कर दिया जाएगा। आयातित रेडियोधर्मी स्रोतों के संबंध में, उनके निर्यात के लिए एईआरबी से पूर्व अनुमति प्राप्त की जाएगी। When a radiation source is no longer in use for the authorized purpose, or upon completion of its useful life, the equipment shall be decommissioned and radioactive source shall be returned to the original supplier for safe management in accordance with the



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procedure laid down by AERB. In respect of imported radioactive sources, prior permission for export of the same shall be obtained from AERB.

15. **असामान्य घटनाओं की रिपोर्ट Reporting of unusual occurrences:** यदि विकिरण स्रोत/उपकरण की संरक्षा और सुरक्षा से जुड़ी कोई घटना होती है, तो घटना होने के 24 घंटे के भीतर आईआरबी को इसकी सूचना दी जाएगी। स्रोत के खो जाने या चोरी होने की स्थिति में, मामले की सूचना तत्काल इलाके में उपयुक्त कानून एवं प्रवर्तन एजेंसी को दी जाएगी। If an incident involving the safety of radiation equipment/device/source and security of the radiation source occurs, the same shall be intimated to AERB within 24 hours of the occurrence of the incident. In the event of loss or theft of the source, the matter shall also be promptly reported to the appropriate law enforcement agency in the locality.
16. **रेडियोधर्मी अपशिष्ट के निपटान के लिए संचालन/प्राधिकरण के लिए लाइसेंस में संशोधन Amendment of licence for operation/Authorization for disposal of radioactive waste:** इस लाइसेंस/प्राधिकरण में निहित जानकारी में कोई भी परिवर्तन, इसके जारी होने के बाद (लाइसेंसधारक, नियोक्ता, संस्थान का नाम, पता आदि के रूप में) आईआरबी को सूचित किया जाएगा और इस संबंध में इस लाइसेंस के लिए उपयुक्त आवश्यक संशोधन सक्षम प्राधिकारी, आईआरबी से प्राप्त किया जाएगा। Any change in the information contained in this licence/authorization, after its issuance (as change of licensee, employer, name of institution, address etc.), shall be intimated to the AERB and appropriate necessary amendment to this effect to this licence shall be obtained from the Competent Authority, AERB
17. **लाइसेंस के नियमों और शर्तों में संशोधन Modification of the terms and conditions of the licence:** लाइसेंस के नियमों और शर्तों को सुरक्षा के हित में सक्षम प्राधिकारी द्वारा आवश्यक समझे जाने पर संशोधित, पुनरीक्षित या सुधार किया जा सकता है। The terms and conditions, of the licence can be amended, revised or modified, as considered necessary by the Competent Authority in the interest of safety.
18. **लाइसेंस का नवीनीकरण Renewal of licence:** लाइसेंस का नवीनीकरण इसकी समाप्ति की तारीख से पहले सक्षम प्राधिकारी से प्राप्त किया जाएगा। लाइसेंस के गैर-नवीनीकरण से लाइसेंसधारक को कब्जे के तहत विकिरण स्रोतों की सलामति एवं सुरक्षा की जिम्मेदारी से तब तक मुक्त नहीं किया जाता है जब तक कि उपकरण बंद नहीं किया जाता है/और सुरक्षित प्रबंधन के लिए मूल आपूर्तिकर्ता को रेडियोधर्मी स्रोत वापस नहीं किया जाता है। आईआरबी द्वारा आवेदनों के प्रसंस्करण के लिए अग्रणी समय को ध्यान में रखते हुए लाइसेंस के नवीनीकरण के लिए आवेदन आईआरबी को समीक्षा के लिए अग्रिम रूप से प्रस्तुत किया जाएगा। लाइसेंस की समाप्ति के दो महीन पहले लाइसेंसधारक द्वारा नवीनीकरण के लिए आवेदन प्रस्तुत किया जा सकता है। Renewal of licence shall be obtained from the Competent Authority prior to its date of expiry. Non-renewal of licence does not absolve the licensee from the responsibility of safety and security of radiation sources under possession till the equipment is decommissioned /and radioactive source is returned to the original supplier for safe management. Application for renewal of this licence shall be submitted to AERB for review well in advance, taking into account the lead time for processing of the applications by AERB. Application for renewal may be submitted by the licensee two months prior to expiry of the licence.
19. **डीकमीशनन के लिए वित्तीय प्रावधान Financial provision for decommissioning:** लाइसेंसधारक यह सुनिश्चित करेगा कि एक बार उपयोग में आने के बाद विकिरण स्रोतों के सुरक्षित प्रबंधन के लिए उचित वित्तीय प्रावधानों सहित व्यवस्था की जाती है। वित्तीय प्रावधान की सीमा का निर्धारण विकिरण स्रोत के आपूर्तिकर्ता/निर्माता के परामर्श से किया जाएगा। वित्तीय प्रावधान सामान्य परिदृश्य के साथ-साथ दिवालिएपन या अन्य बाधाओं का सामना करने वाली असंभावित घटनाओं को ध्यान में रखते हुए किया



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जाएगा। Licensee shall ensure that arrangements, including appropriate financial provisions, are made for the safe management of radiation sources, once it ceases to be in use. The extent of financial provision shall be arrived at in consultation with the supplier/manufacture of the radiation source. The financial provision shall be made with due consideration to normal scenario as well as unlikely events like bankruptcy or other constraints that may be encountered.

20. **अपराध और दंड Offences and Penalties:** यदि लाइसेंस/प्राधिकरण की शर्तों और अन्य निर्धारित विनियामक प्रावधानों का उल्लंघन किया जाता है तो परमाणु ऊर्जा (विकिरण संरक्षण) नियम, 2004 और परमाणु ऊर्जा (रेडियोधर्मी अपशिष्ट का सुरक्षित निपटान) नियम 1987 में निर्दिष्ट शर्तों के अनुसार आईआरबी द्वारा लाइसेंस/प्राधिकार को निलंबित, संशोधित या वापस लिया जा सकता है। जहां उपयुक्त समझा जाए, किए गए अपराध के विरुद्ध परमाणु ऊर्जा अधिनियम, 1962 में प्रावधान के अनुसार आईआरबी संस्था द्वारा दंडात्मक कार्रवाई शुरू की जा सकती है। Licence/authorisation can be suspended, modified or withdrawn by AERB, as specified in the Atomic Energy (Radiation Protection) Rules, 2004 and Atomic Energy (Safe Disposal of Radioactive Wastes) Rules 1987 if any of the terms and conditions of the licence/authorisation and other stipulated regulatory provisions is/are contravened. Where deemed appropriate, AERB may initiate penal action against an offence committed by the institution, as provided in the Atomic Energy Act, 1962.
21. **विशिष्ट प्रैक्टिसों के लिए अतिरिक्त शर्तें Additional conditions for specific practices:** औद्योगिक रेडियोग्राफी एक्सपोजर डिवाइस/वेल लॉगिंग फैसिलिटी का संचालन Operation of Industrial Radiography Exposure Device(s)/ Well logging facility: यह सुनिश्चित किया जाएगा कि प्रत्येक औद्योगिक रेडियोग्राफी एक्सपोजर डिवाइस/वेल लॉगिंग फैसिलिटी के लिए संस्थान के कब्जे में होने वाली रसीद की सूचना प्रस्तुत की जाती है और इसे केवल प्राधिकृत साइटों पर संचालित किया जाएगा। It shall be ensured that the intimation of receipt is submitted for each industrial radiography exposure device/well logging facility once it is in possession of institute and it shall be operated only at the authorized sites.

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नोट Note: प्रैक्टिस विशिष्ट आवश्यकताओं पर मार्गदर्शन के लिए कृपया ई-लोरा दिशानिर्देश और आईआरबी वेबसाइट www.aerb.gov.in देखें। For guidance on practice specific requirements, please refer e-LORA guidelines and AERB website www.aerb.gov.in



परमाणु ऊर्जा नियामक परिषद्, नियामक भवन, अणुशक्तिनगर, मुंबई 400094 (महाराष्ट्र)
Atomic Energy Regulatory Board, Niyamak Bhavan, Anushaktinagar, Mumbai 400094 (Maharashtra)

वेबसाइट/Website: www.aerb.gov.in

दूरभाष/Tel: 91-22-2599 0656

फैक्स/Fax: 91-22-2599 0650



IR-OP/ 45/ 2022/1012

**Government of India
Bhabha Atomic Research Centre
Mumbai - 400 085**

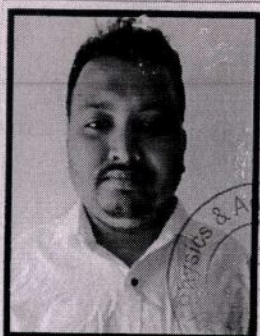
**Training cum Certification Course on Radiation Safety
for Industrial Radiographer**

This is to certify that

Mr Karnajeet Roy

*has successfully completed the above course conducted by
Radiological Physics & Advisory Division, Bhabha Atomic
Research Centre at Quality NDT Training Institute, Pune
during September 14 - 23, 2022.*

Photograph of
Candidate



(B. K. Sapra)

Head

Radiological Physics & Advisory Division

October 06, 2022
CT & CRS, Anushaktinagar
Mumbai - 400 094





ASNT Certification Services LLC.

Be it known that

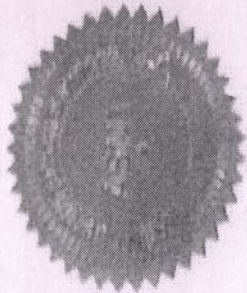
Lokeswara Rao Sajja

Has met the established and published Requirements for Certification by ASNT Certification Services LLC. as

NDT Level III

In the following Nondestructive Testing Methods:

Method	Issue Date	Expiration Date
Liquid Penetrant Testing	3/22	3/27
Magnetic Particle Testing	3/22	3/27
Radiographic Testing	3/22	3/27
Ultrasonic Testing	4/22	4/27



285692

Certificate Number

[Signature]

Certification Management Committee

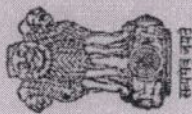
Chair

[Signature]

ASNT Certification Services, LLC, President

Note: All ASNT NDT Level III exams are developed and maintained in accordance with ISO IEC 17024 guidelines for certification of persons. The following exams are currently accredited by the American National Standards Institute (ANSI) - BASIC, ET, MT, PT, RT, UT, and VT. This certificate is the property of ASNT Certification Services LLC., is not official without ASNT Certification Services LLC.'s raised gold seal, and is subject to revocation prior to the listed expiration date. This certificate shall be verified on <https://asntcertification.org> or by contacting ASNT Certification Services LLC.





Government of India
BHABHA ATOMIC RESEARCH CENTRE
Trombay, Bombay - 400 085



MECHANICAL ENGINEERING RESEARCH AND
DEVELOPMENT ORGANISATION
PUNE - 411 008

Training Course on
Industrial Radiography and Safety Aspects
(IRG - 1)

This is to certify that **Shri Peri Srinivas**
has successfully undergone the 36th Training Course on Industrial
Radiography and Safety Aspects from February 6, 1989 to March
17, 1989 organised by the Mechanical Engineering Research and
Development Organisation, Pune and the Bhabha Atomic Research Centre.
He has passed the examination held at the end of the training course.

T. Sreedhar
Director
Isotope Group
Bhabha Atomic Research Centre



MARCH 17, 1989

Narainchandra F. Sheth
Scientist-in-charge
Mechanical Engineering Research and
Development Organisation, Pune