

SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

**M/s RADHA CASTING & METALIK (P) LTD.
(M. S. INGOT UNIT)
At.: PAINKI, P.O.: MARAR, DISTRICT: RAMGARH
JHARKHAND**

AMBIENT NOISE MONITORING DATA

Report No. : SRL/RCMPL/N-01/22

Date of Reporting: 28.03.2022

Monitoring Location	Date of Monitoring	Hours		Sound Pressure Level, dB(A)
		Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)	
Near Main Gate (Beside Office Building)	23.03.2022 & 24.03.2022	Day Time (06.00-22.00 hr.)	09.00	61.8
			10.00	63.4
			11.00	64.7
			12.00	65.2
			13.00	64.0
			14.00	63.5
			15.00	65.8
			16.00	64.5
		Night Time (22.00-06.00 hr.)	22.00	57.6
			23.00	58.1
			00.00	56.4
			01.00	55.6
			02.00	54.2
			03.00	53.9
			04.00	55.3
			05.00	56.1

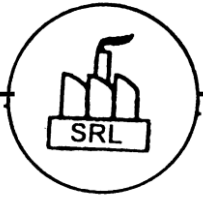
Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,
Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq
Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq
Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq
Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

Norms: OSHA Norms in work place for 8 hr. exposure: 90 dB (A)

for Scientific Research Laboratory,

Niraj

**(Dr. Niraj Kumar Singh)
In-charge, Jharkhand Office**



SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

**M/s RADHA CASTING & METALIK (P) LTD.
(M. S. INGOT UNIT)
At.: PAINKI, P.O.: MARAR, DISTRICT: RAMGARH
JHARKHAND**

AMBIENT NOISE MONITORING DATA

Report No. : SRL/RCMPL/N-01/22

Date of Reporting: 28.03.2022

Monitoring Location	Date of Monitoring	Hours		Sound Pressure Level, dB(A)
		Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)	
Near South – East Boundary	23.03.2022 & 24.03.2022	Day Time (06.00-22.00 hr.)	09.10	64.2
			10.10	63.8
			11.10	65.7
			12.10	66.4
			13.10	66.6
			14.10	65.5
			15.10	64.7
			16.10	66.2
		Night Time (22.00-06.00 hr.)	22.10	63.1
			23.10	60.5
			00.10	58.3
			01.10	57.0
			02.10	56.8
			03.10	57.9
			04.10	58.5
			05.10	59.2

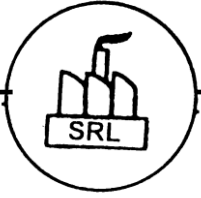
Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,
Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq
Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq
Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq
Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

Norms: OSHA Norms in work place for 8 hr. exposure: 90 dB (A)

for Scientific Research Laboratory,

Niraj

**(Dr. Niraj Kumar Singh)
In-charge, Jharkhand Office**



SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

**M/s RADHA CASTING & METALIK (P) LTD.
(M. S. INGOT UNIT)
At.: PAINKI, P.O.: MARAR, DISTRICT: RAMGARH
JHARKHAND**

AMBIENT NOISE MONITORING DATA

Report No. : SRL/RCMPL/N-01/22

Date of Reporting: 28.03.2022

Monitoring Location	Date of Monitoring	Hours		Sound Pressure Level, dB(A)
		Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)	
Near South – West Boundary (Beside Laboratory)	23.03.2022 & 24.03.2022	Day Time (06.00-22.00 hr.)	09.20	61.6
			10.20	63.1
			11.20	62.3
			12.20	63.0
			13.20	62.4
			14.20	63.0
			15.20	62.2
			16.20	61.8
		Night Time (22.00-06.00 hr.)	22.20	60.0
			23.20	61.4
			00.20	59.7
			01.20	56.2
			02.20	57.9
			03.20	59.4
			04.20	60.8
			05.20	59.7

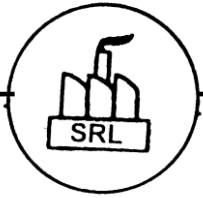
Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,
Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq
Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq
Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq
Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

Norms: OSHA Norms in work place for 8 hr. exposure: 90 dB (A)

for Scientific Research Laboratory,

Niraj

**(Dr. Niraj Kumar Singh)
In-charge, Jharkhand Office**



SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

**M/s RADHA CASTING & METALIK (P) LTD.
(M. S. INGOT UNIT)
At.: PAINKI, P.O.: MARAR, DISTRICT: RAMGARH
JHARKHAND**

AMBIENT NOISE MONITORING DATA

Report No. : SRL/RCMPL/N-01/22

Date of Reporting: 28.03.2022

Monitoring Location	Date of Monitoring	Hours		Sound Pressure Level, dB(A)
		Day Time (06.00-22.00 hr.)	Night Time (22.00-06.00 hr.)	
Near Staff Quarter	23.03.2022 & 24.03.2022	Day Time (06.00-22.00 hr.)	09.30	62.0
			10.30	65.1
			11.30	63.5
			12.30	64.2
			13.30	65.0
			14.30	65.2
			15.30	66.1
		16.30	63.6	
		Night Time (22.00-06.00 hr.)	22.30	61.3
			23.30	62.1
			00.30	59.2
			01.30	58.7
			02.30	57.4
			03.30	56.0
			04.30	55.7
			05.30	56.3

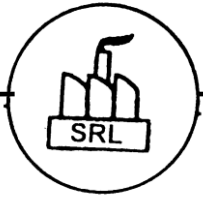
Norms: National Ambient Air Quality Standards (NAAQS) in respect of Noise as per CPCB, New Delhi,
Industrial Area : Day Time 75 dB(A) Leq and Night Time 70 dB(A) Leq
Commercial Area : Day Time 65 dB(A) Leq and Night Time 55 dB(A) Leq
Residential Area : Day Time 55 dB(A) Leq and Night Time 45 dB(A) Leq
Silence Zone : Day Time 50 dB(A) Leq and Night Time 40 dB(A) Leq

Norms: OSHA Norms in work place for 8 hr. exposure: 90 dB (A)

for Scientific Research Laboratory,

Niraj

**(Dr. Niraj Kumar Singh)
In-charge, Jharkhand Office**



SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

Report No. : SRL/RCMPL/WZ-FD/22

Date: 28.03.2022

WORK ZONE FUGITIVE DUST EMISSION

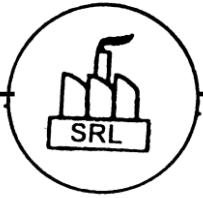
1. Name and Address of the Unit : M/s Radha Casting & Metalik (Pvt.) Limited.
(M. S. Ingot Unit)
At.- Paiki, P.O.: Marar, District: Ramgarh
Jharkhand.
2. Date of Monitoring : 24.03.2022
3. Ambient Temperature : 37^oC
4. Average Relative Humidity : 28 %
5. Meteorological Condition : Clear
6. Results of Fugitive Dust Emission :

Sl. No.	Sample No.	Monitoring Location	Results in $\mu\text{g}/\text{Nm}^3$
			Respirable Suspended Particulate Matter (PM ₁₀)
1.	WZ - 1	Near Raw Material Handling Yard	1746
2.	WZ - 2	Near Induction Furnace	1882
3.	WZ - 3	Near Finished Product Exit Point	1654
4.	WZ - 4	Near Crusher Plant (About 10m from Crushing Unit)	1890
Norms for Fugitive Emission: MoEF & CC Notification, 18 th March, 2016			2000 at 10 metre

The results when compared with norms show that the work zone air quality were well within the stipulated limits.

for Scientific Research Laboratory,

(Dr. Niraj Kumar Singh)
In-charge, Jharkhand office.



SCIENTIFIC RESEARCH LABORATORY

An ISO 9001:2015 (QMS) & OHSAS 45001:2018 Certified Organization
Recognized by Jharkhand State Pollution Control Board
Analytical & Environmental Engineering Laboratory
C- 144, Aman Green City, Pundag, Ranchi- 834 004, Jharkhand
Tele No.: 0651- 2999971, Mobile: 94701 30700, E-mail: nirajksingh2003@yahoo.co.in

LECHATE ANALYSIS REPORT

Report No.: SRL/RCMPL/LA/MAR/2022

Date of Reporting: 28.03.2022

SAMPLE NOT DRAWN BY SCIENTIFIC RESEARCH LABORATORY

Client Name & Address : Radha Casting & Metalik (P) Limited.
At.: Paiki, P.O.: Marar, District: Ramgarh
Jharkhand.
Sample Collected by : Scientific Research Laboratory.
Type of Sample : Slag
Sample Received on : 24.03.2022

Analysis Report

Sl. No.	Parameters	EPA Regulatory Level, mg/l	Results (mg/l in extract)
1.	Arsenic (as As)	5.0	<0.020
2.	Cadmium (as Cd)	1.0	<0.010
3.	Chromium (as Cr)	5.0	<0.050
4.	Lead (as Pb)	5.0	<0.050
5.	Mercury (as Hg)	0.2	<0.005
6.	Selenium (as Se)	1.0	<0.010
7.	Silver (as Ag)	5.0	<0.050

Note: The sample was extracted with extraction fluid- 1 (pH 4.93 ± 0.05) in 1:20 ratio for 18 hours. The extraction fluid was selected after pH study of the sample (Ref: EPA Method 1311: Toxicity Characteristic Leaching Procedure).

for Scientific research Laboratory,

(Dr. Niraj Kumar Singh)
In-charge, Jharkhand Laboratory.