



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

Accredited by NABL (TC-6172) Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



TEST REPORT

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: M-214
Issued date : 28.11.2023

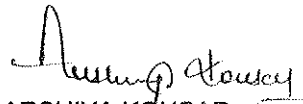
Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 20.11.2023
Particulars of Sample Collected : Labour Colony Area(South Ward Corner)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-01
Duration of monitoring : 8 Hours
Analysis Started on : 22.11.2023
Analysis completed on : 27.11.2023
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS-APM 460 & FPS APM 550 MINI
Serial No. Of the Equipment : 2218-DTI-2017 & 730-DTC-2011
Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10 μ) PM ₁₀	$\mu\text{g}/\text{m}^3$	56.3	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 μ) PM _{2.5}	$\mu\text{g}/\text{m}^3$	26.2	60	SOP No: MES/EL/MV/A-02 Issue No:0.0 Issue Date:18.08.2011
03	Sulphur Dioxide as SO ₂	$\mu\text{g}/\text{m}^3$	24.0	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	$\mu\text{g}/\text{m}^3$	32.4	80	IS: 5182 (Part-6) 2006
05	Ozone as O ₃	$\mu\text{g}/\text{m}^3$	< 20	100	IS:5182 (Part IX) 1974
09	Ammonia as NH ₃	$\mu\text{g}/\text{m}^3$	< 20	400	SOP No: MES/EL/MV/A-04 Issue No:00 Issue Date:18.08.2011
06	Lead as Pb	$\mu\text{g}/\text{m}^3$	<0.1	1.0	IS: 5182 (Part-22) 2004
07	Arsenic as As	ng/m^3	< 0.5	6.0	SOP No: MES/EL/MV/A-05 Issue No:0.0 Issue Date:18.01.2011
08	Nickel as Ni	ng/m^3	<0.1	20.0	SOP No: MES/EL/MV/A-05 Issue No:0.0 Issue Date: 18.01.2011
10	Carbon Monoxide as CO	mg/m^3	0.49	4.0	IS: 5182 (Part-10) 1999
11	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	< 1.0	5.0	IS: 5182 (Part-11) 2006
12	Benzo(a) Pyrene	ng/m^3	< 0.5	1.0	IS: 5182 (Part-12) 2004

INFERENCE: Report Status: - Within the NAAQ Standards


ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-215

Issued date : 28.11.2023


Name of the Client : M/s. Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 20.11.2023
Particulars of Sample Collected : **Crusher Area**
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-02
Duration of monitoring : 8 Hours
Analysis Started on : 22.11.2023
Analysis completed on : 22.11.2023
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS APM 460 BL
Serial No. Of the Equipment : 2925-DTC-2020
Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	466.7	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.



ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-216
Issued date : 28.11.2023

Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 20.11.2023

Particulars of Sample Collected : **Labour Canteen**

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-03

Duration of monitoring : 8 Hours

Analysis Started on : 22.11.2023

Analysis completed on : 27.11.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

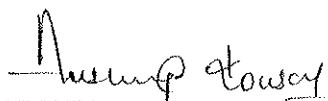
Serial No. Of the Equipment : 1991-DTC-2011

Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	483.3	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.



ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-217
Issued date : 28.11.2023

Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 20.11.2023

Particulars of Sample Collected : **Raw Material Handling Area**

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-04

Duration of monitoring : 8 Hours

Analysis Started on : 22.11.2023

Analysis completed on : 27.11.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

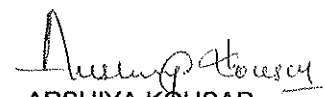
Serial No. Of the Equipment : 1999-DTC-2011

Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	478.2	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.



ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-218
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From Cooler Discharge & De- Dusting System-I
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-05

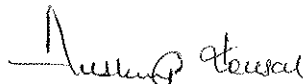
GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 142°C
Velocity : 7.63m/s
Cross Sectional area of stack : 0.07m²
Quantity of flue gas discharge : 1394.58 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	48.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-219

Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From DG (200 KVA)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-06

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 158°C
Velocity : 7.72m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1372.14Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSSI
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	42.2	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	14.2	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	28.0	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.



ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-220

Issued date : 28.11.2023

Name of the Industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
KallambellaHobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From Product Separation System
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-07

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 148°C
Velocity : 8.02 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1462.79 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	38.2	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-221

Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From DG (160 KVA)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-08

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 134°C
Velocity : 6.47m/s
Stack Diameter : 0.5m
Quantity of flue gas discharge : 3382.71 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	26.3	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	17.3	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	26.2	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-222
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From Coal Screening
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-09

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 131°C
Velocity : 8.84 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1676.21 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	34.5	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-223
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From DG (600 KVA)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-10

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 160°C
Velocity : 6.49m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1152.00 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 86-DTF-2012
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	29.3	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	16.4	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	30.7	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-224
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From Induction Furnace - 12 T (Electricity)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-11

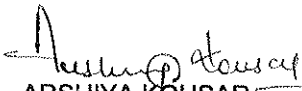
GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 130°C
Velocity : 6.93m/s
Stack diameter : 0.2m
Quantity of flue gas discharge : 587.41 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	24.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.


ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-225

Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 20.11.2023
Particulars of Sample Collected : Collected From Ore Crusher 20 TPH
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-12

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 178°C
Velocity : 6.28m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1070.24 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 86-DTF-2012
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

INFERENCE: Report Status: Within the tolerance limits.

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	42.9	100	IS: 11255(Part-1) 1985

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TC-6172

TEST REPORT

Ambient Noise Level Monitoring Report

Test Report No: M-226

Issued date : 28.11.2023

Name of the project : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk
Tumkur-572125.

Sample collected by : Environmental Laboratory Representative
Date of collection : 20.11.2023
Particulate of sample Collected : Sound Levels
Model of the Equipment used for monitoring : HTC Instrument SL-1352
Serial No. of the Equipment : 140800417
Calibration done on and due on : Done on 12.12.2022 and Due on 11.12.2023
Method adopted : IS:9989

TEST RESULT

Sl.No	Sample location	Parameter in dB (A)			
		Day			
		Lmin	Lmax	LEq	Limits
1	Main Gate	67.2	74.3	72.7	75
2	Rolling Mill	64.0	77.7	73.9	75
3	Brick Plant	66.7	76.5	70.4	75
4	Labour Colony	56.5	70.3	69.5	75
5	Sub-Station	65.5	76.3	70.9	75

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: M-227

Issued date : 28.11.2023

Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk, Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 21.11.2023

Particulars of Sample Collected : Main Gate

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-13

Duration of monitoring : 8 Hours

Analysis Started on : 22.11.2023

Analysis completed on : 27.11.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS-APM 460 & FPS APM 550 MINI

Serial No. Of the Equipment : 2218-DTI-2017 & 730-DTC-2011

Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10 μ) PM ₁₀	$\mu\text{g}/\text{m}^3$	52.9	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 μ) PM _{2.5}	$\mu\text{g}/\text{m}^3$	27.6	60	SOP No: MES/EL/MV/A-02 Issue No:0.0 Issue Date:18.08.2011
03	Sulphur Dioxide as SO ₂	$\mu\text{g}/\text{m}^3$	20.2	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	$\mu\text{g}/\text{m}^3$	29.5	80	IS: 5182 (Part-6) 2006
05	Ozone as O ₃	$\mu\text{g}/\text{m}^3$	< 20	100	IS:5182 (Part IX) 1974
06	Ammonia as NH ₃	$\mu\text{g}/\text{m}^3$	< 20	400	SOP No: MES/EL/MV/A-04 Issue No:00 Issue Date:18.08.2011
07	Lead as Pb	$\mu\text{g}/\text{m}^3$	<0.1	1.0	IS: 5182 (Part-22) 2004
08	Arsenic as As	ng/m^3	< 0.5	6.0	SOP No: MES/EL/MV/A-05 Issue No:0.0 Issue Date:18.01.2011
09	Nickel as Ni	ng/m^3	<0.1	20.0	SOP No: MES/EL/MV/A-05 Issue No:0.0 Issue Date: 18.01.2011
10	Carbon Monoxide as CO	mg/m^3	0.49	4.0	IS: 5182 (Part-10) 1999
11	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	< 1.0	5.0	IS: 5182 (Part-11) 2006
12	Benzo(a) Pyrene	ng/m^3	< 0.5	1.0	IS: 5182 (Part-12) 2004

INFERENCE: Report Status: - Within the NAAQ Standards

ARSHIYA KOJSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TC-6172

TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-228
Issued date : 28.11.2023

Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira TalukTumkur-572125.

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 20.11.2023

Particulars of Sample Collected : Raw Material Feed Area

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-14

Duration of monitoring : 8 Hours

Analysis Started on : 22.11.2023

Analysis completed on : 27.11.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

Serial No. Of the Equipment : 2925-DTC-2020

Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	470.4	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-229
Issued date : 28.11.2023

Name of the Client : M/s. Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 21.11.2023

Particulars of Sample Collected : Cooler Discharge Area

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-15

Duration of monitoring : 8 Hours

Analysis Started on : 22.11.2023

Analysis completed on : 27.11.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

Serial No. Of the Equipment : 1991-DTC-2011

Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	439.4	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-230
Issued date : 28.11.2023

Name of the Client : M/s. Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 21.11.2023
Particulars of Sample Collected : Product Processing Area
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-16
Duration of monitoring : 8 Hours
Analysis Started on : 22.11.2023
Analysis completed on : 27.11.2023
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS APM 460 BL
Serial No. Of the Equipment : 1999-DTC-2011
Calibration done and Due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	490.3	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-231
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From DG (300 KVA)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/13/3-17

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 149°C
Velocity : 5.93m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1080.04 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	30.4	100	IS: 11255(Part-1)
02	Sulphur Dioxide as SO ₂	mg/Nm ³	15.0	150	IS: 11255(Part-2)
03	Oxide of Nitrogen as NO _x	mg/Nm ³	31.4	970	IS: 11255(Part-7)

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-232/A
Issued date : 28.11.2023

Name of the Industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From Rotary Kiln I, II & III
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-18

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 119°C
Velocity : 7.81m/s
Cross Sectional area of stack : 1.23m²
Quantity of flue gas discharge : 26642.78 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	26.4	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-232/B

Issued date : 28.11.2023

Name of the Industry : M/s. Sunvik Steel Pvt. Ltd
 Survey No.33,Jodidevarahalli Village,
 Kallambella Hobli, Sira Taluk Tumkur-572125.
 Sample collected by : Environmental Laboratory Representative
 Date of Sample collected : 18.10.2023
 Particulars of Sample Collected : Collected From Rotary Kiln I, II & III
 Date of Sample Receipt : 19.10.2023
 Lab Code : M/23/11/3-18

GENERAL DETAILS

Ambient Temperature : 29°C
 Stack Temperature : 119°C
 Velocity : 7.81m/s
 Cross Sectional area of stack : 1.23m²
 Quantity of flue gas discharge : 26642.78 Nm³/hr
 Analysis Started on : 22.11.2023
 Analysis Completed on : 27.11.2023
 Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
 Serial No. of the Equipment : 338-DTH-2014
 Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Carbon Monoxide as CO	(V/V)%	0.44	1	NDIR Method

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar
 ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-233
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
KallambellaHobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From Cooler Discharge & De- Dusting System-II
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-19

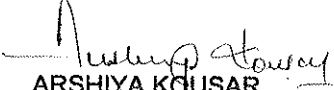
GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 159°C
Velocity : 8.04 m/s
Cross Sectional area of stack : 0.07 m²
Quantity of flue gas discharge : 1327.28 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DTH-2014
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	33.3	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-234
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From Induction Furnace - 7 T (Electricity)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-20

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 167°C
Velocity : 7.08 m/s
Cross Sectional area of stack : 0.2 m²
Quantity of flue gas discharge : 3487.22 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 86-DTF-2012
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	30.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-235

Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From Dolachar Screening
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-21

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 138 °C
Velocity : 6.97m/s
Cross Sectional area of stack : 0.3m
Quantity of flue gas discharge : 1303.43 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSSI
Serial No. of the Equipment : 86-DTF-2012
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	28.9	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-236
Issued date : 28.11.2023

Name of the industry : M/s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 21.11.2023
Particulars of Sample Collected : Collected From AFBC Boiler of Capacity 35 TPH For CPP
(Coal & Dolochar)
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-22


GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 203°C
Velocity : 7.33 m/s
Diameter of the stack : 1.8m
Quantity of flue gas discharge : 42608.64 Nm³/hr
Analysis Started on : 22.11.2023
Analysis Completed on : 27.11.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSSI
Serial No. of the Equipment : 86 BTF 12
Calibration done on and due on : Done on 19.11.2022 and Due on 18.11.2024

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	37.1	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tc/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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TEST REPORT

Page No.:1 of 2

Analysis Report of Water Sample

Test Report No: M-237
Issued date : 28.11.2023

Name of the project : M/s. Sunvik Steels Pvt .Ltd
Survey No.33, Jodidevarahalli Village
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample collected by : Environmental Laboratory Representative

Date of sample collection : 21.11.2023

Particulars of sample Collected : Borewell Water

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-23

Sampling Type : Grab

Sample Quantity : 10.25Ltrs

Date of Analysis Started on : 22.11.2023

Date of Analysis Completion on : 27.11.2023

Condition of the sample : No leakages were observed when received

Page No. : 1 of 2

TEST RESULT

SL. No	TEST PARAMETERS	TEST RESULTS	ACCEPTABLE LIMITS AS PER IS:10500-2012	PERMISSIBLE LIMITS AS PER IS:10500-2012	TEST METHODS
01	Colour, Hazen Units	< 1	5.0	15	IS: 3025 (P 4) 2021
02	Odour	Agreeable	Agreeable	Agreeable	IS: 3025 (P 5) 2018
03	pH	7.20	6.5 to 8.5	6.5 to 8.5	IS: 3025 (P 11) 2022
04	Taste	Agreeable	Agreeable	Agreeable	IS: 3025 (P 8) 1984 RA 2017
05	Turbidity as NTU	< 0.1	1	5	IS: 3025 (P 10) 1984 RA 2017
06	Total Dissolved Solids , mg/l	1385.0	500	2000	IS: 3025 (P 16) 1984 RA 2017
07	Aluminum as Al, mg/l	< 0.01	0.03	0.2	IS: 3025 (P 55) 2003 RA 2019
08	Ammonia(as total ammonia -N) mg/l	< 0.1	0.5	0.5	IS: 3025 (P 34) 1988 RA 2019
10	Barium as Ba mg/l	< 0.005	0.7	0.7	IS: 3025 (P 2) 2019
11	Calcium as Ca, mg/l	160.0	75	200	IS: 3025 (P 40) 1991 RA 2019
12	Copper as Cu, mg/l	<0.005	0.05	1.5	IS: 3025 (P 2) 2019
13	Chloride as Cl, mg/l	213.5	250	1000	IS: 3025 (P 32) 1988 RA 2019
14	Fluoride as F, mg/l	0.9	1.0	1.5	IS: 3025 (P 60) 2008 RA 2019

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES)

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TEST REPORT

Test Report No: M-237

TEST RESULT

Page No. : 2 of 2
Issued date : 28.11.2023

SL. No	TEST PARAMETERS	TEST RESULTS	ACCEPTABLE LIMITS AS PER IS:10500-2012	PERMISSIBLE LIMITS AS PER IS:10500-2012	TEST METHODS
15	Residual Free Chlorine, mg/l	<0.1	0.2	1	IS: 3025 (P 26) 2021
16	Iron as Fe , mg/l	0.050	1.0	1.0	IS: 3025 (P 2) 2019
17	Magnesium as Mg, mg/l	45.0	30	100	IS: 3025 (P 46) 1994 RA 2019
18	Mineral Oil, mg/l	<0.5	0.5	0.5	Clause 6 of IS:3025 (P-39) 2021
19	Nitrate as NO ₃ , mg/l	10.2	45	45	IS: 3025 (P 34) 1988 RA 2019
20	Sulphate as SO ₄ , mg/l	48.6	200	400	IS: 3025 (P 24) Sec 1 2022
21	Sulphide as H ₂ S, mg/l	<0.01	0.05	0.05	IS:3025 (P 29) 1986 RA 2019
22	Zinc as Zn, mg/l	<0.005	5	15	IS: 3025 (P 2) 2019
23	Cadmium as Cd, mg/l	<0.001	0.003	0.003	IS: 3025 (P 2) 2019
24	Cyanide as CN , mg/l	<0.01	0.05	0.05	IS: 3025 (P 27) Sec 1 2021
25	Lead as Pb , mg/l	<0.005	0.01	0.01	IS: 3025 (P 2) 2019
26	Mercury as Hg , mg/l	<0.0005	0.001	0.001	USEPA 200.7 Rev 4.4
27	Nickel as Ni , mg/l	<0.001	0.02	0.02	IS:3025 (P 2) 2019
28	Total Arsenic as As , mg/l	<0.002	0.01	0.05	IS: 3025 (P 2) 2019
29	Total chromium as Cr, mg/l	<0.001	0.05	0.05	IS: 3025 (P 2) 2019
30	Methyl Orange Alkalinity as CaCO ₃ , mg/l	420.0	--	--	IS: 3025 (P 23) 1986 RA 2019
31	Phenolphthalein Alkalinity, mg/l	35.0	200	600	IS: 3025 (P 23) 1986 RA 2019
32	Biological Oxygen Demand, mg/l	10.0	--	--	IS:3025 (P 44) 2014
33	Chemical Oxygen Demand, mg/l	43.0	--	--	IS : 3025(P 58) 2017
34	Phosphate as PO ₄ mg/l	35.0	--	--	IS: 3025 (P 31) 2014
35	Silica as SiO ₂ , mg/l	42.0	--	--	IS : 3025 (P 35) 1988 RA 2019
36	Total Volatile Solids, mg/l	650.0	--	--	IS : 3025 (P 18)
37	Total Fixed Solids mg/l	330.0	--	--	IS : 3025 (P 18)
38	Conductivity, μmhos/cm, mg/l	2250.0	--	--	IS: 3025 (P 14) 2013
39	Sodium as N,mg/l	120.0	--	--	IS : 3025 (P 45) 2014
40	Potassium as K ,mg/l	30.0	--	--	IS: 3025 (P45) 2014
41	Total Suspended Solids,mg/l	<5	--	--	IS:3025 (P17) 2017
42	Sulphite Reducing Bacteria	Absent	--	--	Annexure-C of IS:13428:2005 Amm:11 2022
43	Total Bacterial Count	08	--	--	IS:1622:1981

INFERENCE: Report Status: - As per the above tested parameters water is within permissible limits.

BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Water Sample

Test Report No: M-238
Issued date : 28.11.2023

Name of the Project : M/s. Sunvik Steels Pvt.Ltd
Survey No.33, Jodidevarahalli Village
Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of sample collection : 21.11.2023
Particulars of sample Collected : Drinking water
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-24
Sampling Type : Grab
Sample Quantity : 2.25 Ltrs
Date of Analysis Started on : 22.11.2023
Date of Analysis Completion on : 27.11.2023
Condition of the sample : No leakages were observed when received
Page No. : 1 of 1

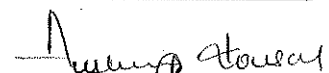
TEST RESULT

SL No	TEST PARAMETERS	TEST RESULTS	PERMISSIBLE LIMIT AS PER IS: 10500 :2012	TEST METHOD
01	Colour Hazen units	<1	15	IS: 3025 (P 4) 2017
02	pH	6.70	6.5-8.5	IS: 3025 (P 11) 2022
03	Turbidity as NTU	<0.1	5	IS: 3025 (P 10) 1984 RA 2017
04	Total Dissolved Solids, mg/L	165.0	2000	IS: 3025 (P 16) 1984 RA 2017
05	Alkalinity as CaCO ₃ , mg/L	62.0	600	IS: 3025 (P 23) 1986 RA 2019
06	Total Hardness as CaCO ₃ , mg/L	51.0	600	IS: 3025 (P 21) 2009 RA 2019
07	Calcium as Ca, mg/L	17.17	200	IS: 3025 (P 40) 1991 RA 2019
08	Magnesium as Mg, mg/L	1.98	100	IS: 3025 (P 46) 1994 RA 2019
09	Chloride as Cl, mg/L	41.78	1000	IS: 3025 (P 32) 1988 RA 2019
10	Sulphate as SO ₄ , mg/L	2.0	400	IS: 3025 (P 24) Sec 1 2022
11	Nitrate as NO ₃ , mg/L	0.26	45	IS: 3025 (P 34) 1988 RA 2019
12	Iron as Fe, mg/L	<0.005	0.3	IS: 3025 (P 2) 2019
13	Fluoride as F, mg/L	<0.1	1.5	IS: 3025 (P 60) 2008 RA 2019
15	Escherichia coli/100ml	Not Detected	Shall Not be Detectable in any 100ml Sample	IS: 15185:2016 RA 2021
16	Total Coliforms/100ml	Not Detected	Shall Not be Detectable in any 100ml Sample	IS: 15185:2016 RA 2021


BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Water Sample

Test Report No: M-239

Issued date : 28.11.2023

Name of the Project : M/s. Sunvik Steels Pvt.Ltd
Survey No.33, Jodidevarahalli Village
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample collected by : Environmental Laboratory Representative

Date of sample collection : 21.11.2023

Particulars of sample Collected : ETP Water

Date of Sample Receipt : 22.11.2023

Lab Code : M/23/11/3-25

Sampling Type : Grab

Sample Quantity : 2 Ltrs

Date of Analysis Started on : 22.11.2023

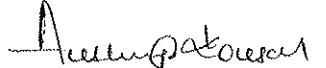
Date of Analysis Completion on : 27.11.2023

Condition of the sample : No leakages were observed when received

Page No. : 1 of 1

TEST RESULT

SL No.	TEST PARAMETERS	TEST RESULTS	TOLERANCE LIMITS	TEST METHOD
01	pH	8.21	5.5-9.0	IS:3025 (P 11) 2017
02	Oil & Grease, mg/L	<1.0	10	IS: 3025 (P 39) 2014
03	Total Suspended Solids, mg/L	<5.0	100	IS: 3025 (P 17) 2017
04	Chemical Oxygen Demand as O ₂ mg/L	53.0	250	IS: 3025 (P 58) 2017


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Soil Sample

Test Report No: M-240

Issued date : 28.11.2023

Name of the Location : Garden Area
Name of the project : M/s. Sunvik Steels Pvt.Ltd
: Survey No.33, Jodidevarahalli Village
: Kallambella Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of sample collection : 21.11.2023
Particulars of sample Collected : Soil
Date of Sample Receipt : 22.11.2023
Lab Code : M/23/11/3-26
Sampling Type : Grab
Sample Quantity : 2Kg
Date of Analysis Started on : 22.11.2023
Date of Analysis Completion on : 27.11.2023
Condition of the sample : No leakages were observed when received
Page No. : 1 of 1

TEST RESULT

SL No	TEST PARAMETERS	TEST RESULTS	TEST METHOD
01	pH	7.52	IS 2720 (P 26) 2015
02	Calcium as Ca, (mg/kg)	40.68	SOP/C/S-08
03	Magnesium as Mg, (mg/kg)	24.80	SOP/C/S-07
04	Chloride as Cl, (mg/kg)	201.0	SOP/C/S-05
05	Sulphate as So ₄ , (mg/kg)	19.6	IS 2720 (P 27) 2015
06	Moisture (%)	3.50	IS 2720 (P 2) 2015
07	Iron as Fe, (mg/kg)	17502.0	SOP/C/S-10
08	Chromium as Cr, (mg/kg)	<2.5	SOP/C/S-10
09	Zinc as Zn, (mg/kg)	<5.0	SOP/C/S-10
10	Nickel as Ni, (mg/kg)	<5.0	SOP/C/S-10

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

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