



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-80
Issued date : 22.07.2023

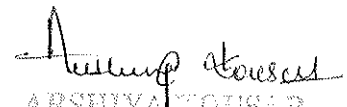
Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk, Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 14.07.2023
Particulars of Sample Collected : Main Gate
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-01
Duration of monitoring : 8 Hours
Analysis Started on : 17.07.2023
Analysis completed on : 21.07.2023
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 : 2925-DTC-2020 & 987-DTH-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	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10 μ) PM ₁₀	$\mu\text{g}/\text{m}^3$	66.6	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 μ) PM _{2.5}	$\mu\text{g}/\text{m}^3$	40.2	60	SOP No: MES/EL/MV/A-02 Issue No:0.0 Issue Date: 18.08.2011
03	Sulphur Dioxide as SO ₂	$\mu\text{g}/\text{m}^3$	21.6	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	$\mu\text{g}/\text{m}^3$	32.1	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	0.60	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


ARSHIYATOUZAR
Dy. Nat. Consultant

Govt. Analyst / Authorised Signatory

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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-81

Issued date : 22.07.2023

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 : 14.07.2023

Particulars of Sample Collected : Product Processing Area

Date of Sample Receipt : 17.07.2023

Lab Code : M-23-07-4-02

Duration of monitoring : 8 Hours

Analysis Started on : 17.07.2023

Analysis completed on : 21.07.2023

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	$\mu\text{g}/\text{m}^3$	487.1	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Arshya Fousar
ARSHYA FOUSAR
Dy. T.M. Chemical
Govt. Analyst / Authorised Signatory

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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-82
Issued date : 22.07.2023

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 : 14.07.2023

Particulars of Sample Collected : Raw Material Feed Area

Date of Sample Receipt : 17.07.2023

Lab Code : M/23/07/4-03

Duration of monitoring : 8 Hours

Analysis Started on : 17.07.2023

Analysis completed on : 21.07.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

Serial No. Of the Equipment : 2218-DTI-2017

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	$\mu\text{g}/\text{m}^3$	440.3	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Arshya Kousar
ARSHYA KOUSAR

Dy. T.N. Chemical
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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-83
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Cooler Discharge Area
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-04
Duration of monitoring : 8 Hours
Analysis Started on : 17.07.2023
Analysis completed on : 21.07.2023
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS ADM 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	$\mu\text{g}/\text{m}^3$	430.0	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

Anusup Atweel
ANUSUP ATWEEL
Dy. J.M. Chemical

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TC-6172

TEST REPORT

Analysis Report of Source Emission

Test Report No: M-84
Issued date : 22.07.2023

Name of the industry : M.s. Sunvik Steel Pvt. Ltd
Survey No.33, Jodidevarahalli Village,
Kallambelia Hobli, Sira Taluk Tumkur-572125.
Sample collected by : Environmental Laboratory Representative
Date of Sample collected : 14.07.2023
Particulars of Sample Collected : Collected From DG (200 KVA)
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-05

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 129°C
Velocity : 7.16m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1364.31Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	22.1	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	15.0	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	17.3	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

Arshita Kousar
ARSHITA KOUSAR
Dy. T.N. Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-85
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From DG (300 KVA)
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-06

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 130°C
Velocity : 6.75m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1287.26 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	21.6	100	IS: 11255(Part-1)
02	Sulphur Dioxide as SO ₂	mg/Nm ³	17.6	150	IS: 11255(Part-2)
03	Oxide of Nitrogen as NO _x	mg/Nm ³	20.0	970	IS: 11255(Part-7)

INFERENCE: Report Status: Within the tolerance limits.

Arunima Kousar
ARUNIMA KOUSAR
Dy. T.M. Chemical

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-86
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From DG (600 KVA)
Date of Sample Receipt : 17.07.2023
Lab Code : M:23 07:4-07

GENERAL DETAILS

Ambient Temperature : 30°C
Stack Temperature : 126°C
Velocity : 6.23 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1203.98 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	31.6	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	20.1	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	24.6	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

Arunima Kousar
ARUNIMA KOUSAR
Dy. T.M. Chemical

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-87
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From DG (160 KVA)
Date of Sample Receipt : 17.07.2023
Lab Code : M-23 07 4-08

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 102°C
Velocity : 5.31m/s
Stack Diameter : 0.5m
Quantity of flue gas discharge : 3021.99 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-DT11-2014
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
02	Sulphur Dioxide as SO ₂	mg/Nm ³	13.6	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	20.2	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

Arshiva Housar
ARSHIVA HOUSAR
B.T. Chemical

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-88
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From Cooler Discharge & De- Dusting System-1
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-09

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 138°C
Velocity : 7.31m/s
Cross Sectional area of stack : 0.07m²
Quantity of flue gas discharge : 1353.58 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	51.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status - Within the tolerance limits.

Arshiva Kousar
ARSHIVA KOUSAR
By: U.S.I. Chemist

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-89
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From Cooler Discharge & De-Dusting System-II
Date of Sample Receipt : 17.07.2023
Lab Code : M-23/07/4-10

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 136°C
Velocity : 7.20 m/s
Cross Sectional area of stack : 0.07 m²
Quantity of flue gas discharge : 1335.29 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSSJ
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	41.3	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arsniya 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-90
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From AFBC Boiler of Capacity 35 TPH For CPP
(Coal & Dolochar)
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-11

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 160°C
Velocity : 7.91 m/s
Diameter of the stack : 1.8m
Quantity of flue gas discharge : 50545.89 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
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	41.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiya Housar
ARSHIYA HOUSAR
Dy. E.M. Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-91/A
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From Rotary Kiln I, II & III
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-12

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 118°C
Velocity : 6.91m/s
Cross Sectional area of stack : 1.23m²
Quantity of flue gas discharge : 23632.84 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	31.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Aushika Kousar
ARSHIKA KOUSAR
Dy. T.M. Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-91/B
Issued date : 22.07.2023

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 : 14.07.2023
Particulars of Sample Collected : Collected From Rotary Kiln I, II & III
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-12

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 118°C
Velocity : 6.91m/s
Cross Sectional area of stack : 1.23m²
Quantity of flue gas discharge : 23632.84 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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)%	0.51	1	NDIR Method

INFERENCE: Report Status: Within the tolerance limits.

Arshya Kousar
ARSHYA KOUSAR
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TC-6172

TEST REPORT

Ambient Noise Level Monitoring Report

Test Report No: M-92
Issued date :22.07.2023

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 : 14.07.2023
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	63.1	73.1	72.6	75
2	Rolling Mill	69.1	82.5	74.6	75
3	Brick Plant	63.6	70.6	72.0	75
4	Labour Colony	61.0	72.3	73.0	75
5	Sub-Station	64.0	72.6	71.9	75

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TC-6172

TEST REPORT

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: M-93
Issued date : 22.07.2023

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 : 15.07.2023

Particulars of Sample Collected : Labour Colony Area(South Ward Corner)

Date of Sample Receipt : 17.07.2023

Lab Code : M/23/07/4-13

Duration of monitoring : 8 Hours

Analysis Started on : 17.07.2023

Analysis completed on : 21.07.2023

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 : 2925-DTC-2020 & 987-DTH-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	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10µ) PM ₁₀	µg/m ³	69.2	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 µ) PM _{2.5}	µg/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	µg/m ³	20.6	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	µg/m ³	36.7	80	IS: 5182 (Part-6) 2006
05	Ozone as O ₃	µg/m ³	< 20	100	IS:5182 (Part IX) 1974
09	Ammonia as NH ₃	µg/m ³	< 20	400	SOP No: MES/EL/MV/A-04 Issue No:00 Issue Date: 18.08.2011
06	Lead as Pb	µg/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	0.73	4.0	IS: 5182 (Part-10) 1999
11	Benzene as C ₆ H ₆	µg/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

Anusha Kousar
ANUSHA KOUSAR
Dr. T.S. Choudhary

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TC-6172

TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No:M-94

Issued date :22.07.2023

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 : 15.07.2023

Particulars of Sample Collected : Crusher Area

Date of Sample Receipt : 17.07.2023

Lab Code : M/23-07-4-14

Duration of monitoring : 8 Hours

Analysis Started on : 17.07.2023

Analysis completed on : 21.07.2023

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	$\mu\text{g}/\text{m}^3$	470.0	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

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By: T.N.C. Chemical

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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-95
Issued date : 22.07.2023

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 : 15.07.2023

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

Date of Sample Receipt : 17.07.2023

Lab Code : M/23/07/4-15

Duration of monitoring : 8 Hours

Analysis Started on : 17.07.2023

Analysis completed on : 21.07.2023

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460 BL

Serial No. Of the Equipment : 2218-DTI-2017

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	$\mu\text{g}/\text{m}^3$	469.7	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

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TEST REPORT

ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-96

Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Labour Canteen
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-16
Duration of monitoring : 8 Hours
Analysis Started on : 17.07.2023
Analysis completed on : 21.07.2023
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	$\mu\text{g}/\text{m}^3$	446.3	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-97
Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From Induction Furnace - 7 T (Electricity)
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-17

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 172°C
Velocity : 6.61 m/s
Cross Sectional area of stack : 0.2 m²
Quantity of flue gas discharge : 3219.14 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-JTH-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	30.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshiyakousar
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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-98
Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From **Induction Furnace - 12 T (Electricity)**
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-18

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 136°C
Velocity : 6.76m/s
Stack diameter : 0.2m
Quantity of flue gas discharge : 564.24 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	37.0	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-99
Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From Product Separation System
Date of Sample Receipt : 17.07.2023
Lab Code : M 23 07/4-19

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 146°C
Velocity : 7.68 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1408.89 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	37.2	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-100

Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From Ore Crusher 20 TPH
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-20

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 149°C
Velocity : 6.31m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1145.53 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	50.1	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-101
Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From Coal Screening
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-21

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 120°C
Velocity : 7.60 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1486.45 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
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	29.3	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status Within the tolerance limits.

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TEST REPORT

Analysis Report of Source Emission

Test Report No: M-102

Issued date : 22.07.2023

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 : 15.07.2023
Particulars of Sample Collected : Collected From Dolachar Screening
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-22

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 138 °C
Velocity : 7.51m/s
Cross Sectional area of stack : 0.3m
Quantity of flue gas discharge : 1404.52 Nm³/hr
Analysis Started on : 17.07.2023
Analysis Completed on : 21.07.2023
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338-IDTH-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	30.6	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

Arshika Kousar
ARSHIKA KOUSAR
By, T.M. Chirahat

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TEST REPORT

Analysis Report of Water Sample

Test Report No: M-103
Issued date : 22.07.2023

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 : 15.07.2023

Particulars of sample Collected : Drinking water

Date of Sample Receipt : 17.07.2023

Lab Code : M/23/07/4-23

Sampling Type : Grab

Sample Quantity : 2.25 Ltrs

Date of Analysis Started on : 17.07.2023

Date of Analysis Completion on : 21.07.2023

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	7.23	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	135.0	2000	IS: 3025 (P 16) 1984 RA 2017
05	Alkalinity as CaCO ₃ , mg/L	35.0	600	IS: 3025 (P 23) 1986 RA 2019
06	Total Hardness as CaCO ₃ , mg/L	44.88	600	IS: 3025 (P 21) 2009 RA 2019
07	Calcium as Ca, mg/L	12.26	200	IS: 3025 (P 40) 1991 RA 2019
08	Magnesium as Mg, mg/L	3.47	100	IS: 3025 (P 46) 1994 RA 2019
09	Chloride as Cl, mg/L	62.35	1000	IS: 3025 (P 32) 1988 RA 2019
10	Sulphate as SO ₄ , mg/L	1.80	400	IS: 3025 (P 24) Sec 1 2022
11	Nitrate as NO ₃ , mg/L	<0.1	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

[Signature]
BINUMATHI
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TC-6172

TEST REPORT

Analysis Report of Water Sample

Test Report No: M-104

Issued date : 22.07.2023

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 : 15.07.2023

Particulars of sample Collected : ETP Water

Date of Sample Receipt : 17.07.2023

Lab Code : M/23/07/4-24

Sampling Type : Grab

Sample Quantity : 2 Ltrs

Date of Analysis Started on : 17.07.2023

Date of Analysis Completion on : 21.07.2023

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	8.23	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	100	IS: 3025 (P 17) 2017
04	Chemical Oxygen Demand as O ₂ mg/L	63.0	250	IS: 3025 (P 58) 2017

Arshiya Housar
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TEST REPORT

Page No.: 1 of 2

Analysis Report of Water Sample

Test Report No: M-105
Issued date : 22.07.2023

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 : 15.07.2023
Particulars of sample Collected : Borewell Water
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-25
Sampling Type : Grab
Sample Quantity : 10.25Ltrs
Date of Analysis Started on : 17.07.2023
Date of Analysis Completion on : 21.07.2023
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	7.30	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	65.41	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	120.14	250	1000	IS: 3025 (P 32) 1988 RA 2019
14	Fluoride as F, mg/l	0.4	1.0	1.5	IS: 3025 (P 60) 2008 RA 2019

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Govt. Analyst / Authorised Signatory

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TEST REPORT

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Test Report No: M-105

TEST RESULT

Issued date : 22.07.2023

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	< 0.005	1.0	1.0	IS: 3025 (P 2) 2019
17	Magnesium as Mg, mg/l	29.74	30	100	IS: 3025 (P 46) 1994 RA 2019
18	Mineral Oil, mg/l	< 0.1	0.5	0.5	Clause 6 of IS:3025 (P-39) 2021
19	Nitrate as NO ₃ , mg/l	1.50	45	45	IS: 3025 (P 34) 1988 RA 2019
20	Sulphate as SO ₄ , mg/l	8.60	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	< 0.01	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	300.0	--	--	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	8.0	--	--	IS:3025 (P 44) 2014
33	Chemical Oxygen Demand, mg/l	36.0	--	--	IS : 3025(P 58) 2017
34	Phosphate as PO ₄ mg/l	38.5	--	--	IS: 3025 (P 31) 2014
35	Silica as SiO ₂ , mg/l	28.60	--	--	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	2200.0	--	--	IS. 3025 (P 14) 2013
39	Sodium as N,mg/l	56.0	--	--	IS : 3025 (P 45) 2014
40	Potassium as K, mg/l	12.0	--	--	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	05	--	--	IS:1622:1981

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

BINU ANANT

ARSHIYA KOUSAR

Dy. T.M. Chemical

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TC-6172

TEST REPORT

Analysis Report of Soil Sample

Test Report No: M-106

Issued date : 22.07.2023

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 : 15.07.2023
Particulars of sample Collected : Soil
Date of Sample Receipt : 17.07.2023
Lab Code : M/23/07/4-26
Sampling Type : Grab
Sample Quantity : 2Kg
Date of Analysis Started on : 17.07.2023
Date of Analysis Completion on : 21.07.2023
Condition of the sample : No leakages were observed when received
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TEST RESULT

SL No	TEST PARAMETERS	TEST RESULTS	TEST METHOD
01	pH	7.65	IS 2720 (P 26) 2015
02	Calcium as Ca, (mg/kg)	150.60	SOP/C/S-08
03	Magnesium as Mg, (mg/kg)	38.0	SOP/C/S-07
04	Chloride as Cl, (mg/kg)	320.0	SOP/C/S-05
05	Sulphate as So ₄ , (mg/kg)	16.0	IS 2720 (P 27) 2015
06	Moisture (%)	5.38	IS 2720 (P 2) 2015
07	Iron as Fe, (mg/kg)	1660.0	SOP/C/S-10
08	Chromium as Cr, (mg/kg)	<5	SOP/C/S-10
09	Zinc as Zn, (mg/kg)	<5	SOP/C/S-10
10	Nickel as Ni, (mg/kg)	<5	SOP/C/S-10

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