



MINERAL ENGINEERING SERVICES

Recognised By GOI, MoEF&CC Under E(P)A 1986 Vide Gazette Notification
No. S.O. 857(E) dated 26.02.2018. Recognition Valid Upto 25.02.2023
ISO 9001: 2015 AND BS OHSAS 18001: 2007 Certification Valid Upto 18.03.2021



ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: M-6507
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : **Main Gate**
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-01
Duration of monitoring : 8 Hours
Analysis Started on : 25.09.2020
Analysis completed on : 30.09.2020
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS-APM 460 BL & FPS APM 550
Serial No. Of the Equipment : 1999-DTC-2011 & 730-DTC-2011
Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10µ) PM ₁₀	µg/m ³	40.8	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 µ) PM _{2.5}	µg/m ³	25.7	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	15.1	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	µg/m ³	24.6	80	IS: 5182 (Part-6) 2006
05	Ozone as O ₃	µg/m ³	< 20	100	IS:5182 (Part IX) 1974
06	Ammonia as NH ₃	µg/m ³	< 20	400	SOP No: MES/EL/MV/A-04 Issue No:00 Issue Date:18.08.2011
07	Lead as Pb	µg/m ³	< 0.05	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	< 0.5	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	0.32	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

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-6508
Issued date : 01.10.2020

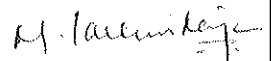
Name of the Client : M/s.Sunvik Steels Pvt Ltd
Survey No.33, Jodidevarahalli Village,
Kallambella Hobli, Sira Taluk Tumkur-572125.

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 22.09.2020
Particulars of Sample Collected : Cooler Discharge Area
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-02
Duration of monitoring : 8 Hours
Analysis Started on : 25.09.2020
Analysis completed on : 25.09.2020
Condition of sample when received : Good condition
Model of Equipment used for monitoring : Aerovironment RDS 9000
Serial No. Of the Equipment : 051152-2005
Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	480.7	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.


(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-6509
Issued date :01.10.2020

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

Sample Collected by : Environmental Laboratory Representative
Date of Collection : 22.09.2020

Particulars of Sample Collected : **Product Processing Area**
Date of Sample Receipt : 24.09.2020

Lab Code : M/20/09/4-03
Duration of monitoring : 8 Hours

Analysis Started on : 25.09.2020
Analysis completed on : 25.09.2020

Condition of sample when received : Good condition
Model of Equipment used for monitoring : Aerovironment RDS 9000
Serial No. Of the Equipment : 01106-2001
Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	427.7	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

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ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-6510
Issued date : 01.10.2020

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 : 22.09.2020

Particulars of Sample Collected : **Crusher Area**

Date of Sample Receipt : 24.09.2020

Lab Code : M/20/09/4-04

Duration of monitoring : 8 Hours

Analysis Started on : 25.09.2020

Analysis completed on : 25.09.2020

Condition of sample when received : Good condition

Model of Equipment used for monitoring : RDS APM 460BL

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

Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	495.8	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6511
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From AFBC Boiler of Capacity 35 TPH For CPP
(Coal & Dolochar)
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-05

GENERAL DETAILS

Ambient Temperature : 27 °C
Stack Temperature : 180°C
Velocity : 6.32 m/s
Diameter of the stack : 1.8m
Quantity of flue gas discharge : 38346.91Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	50.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

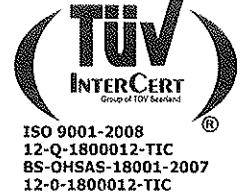
E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6512
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From **Ore Crusher 20 TPH**
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-06

GENERAL DETAILS

Ambient Temperature : 26°C
Stack Temperature : 147°C
Velocity : 5.14m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 931.34Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	43.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.


(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6514
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From Induction Furnace - 12 T (Electricity)
: 24.09.2020
Lab Code : M/20/09/4-08

GENERAL DETAILS

Ambient Temperature : 27°C
Stack Temperature : 165°C
Velocity : 6.32m/s
Stack diameter : 0.2m
Quantity of flue gas discharge : 489.32Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	43.9	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

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Analysis Report of Source Emission

Test Report No: M-6515
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From Coal Screening
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-09

GENERAL DETAILS

Ambient Temperature : 27°C
Stack Temperature : 112°C
Velocity : 8.61/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1707.60Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	45.1	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envttest.in



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Analysis Report of Source Emission

Test Report No: M-6516
Issued date :01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From **Dolachar Screening**
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-10

GENERAL DETAILS

Ambient Temperature : 29°C
Stack Temperature : 166°C
Velocity : 7.44m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1302.68Nm³/hr
Analysis Started on : 25.08.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	58.1	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

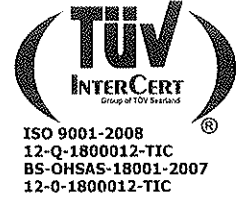
E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6517
Issued date : 01.10.2020

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 : 22.09.2020
Particulars of Sample Collected : Collected From **Product Separation System**
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-11

GENERAL DETAILS

Ambient Temperature : 27^oC
Stack Temperature : 156^oC
Velocity : 5.61m/s
Cross Sectional area of stack : 1.2m²
Quantity of flue gas discharge : 16947.69Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	46.2	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

H. (Sachin Raju)
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

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Ambient Noise Level Monitoring Report

Test Report No: M-6518

Issued date : 01.10.2020

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 : 22.09.2020
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 : 21.11.2019 to 20.11.2020
Method adopted : IS:9989

TEST RESULT

Sl.No	Sample location	Parameter in dB (A)			
		Day			
		Lmin	Lmax	L _{Eq}	Limits
1	Main Gate	65.6	74.1	69.9	75
2	Rolling Mill	66.3	69.7	68.2	75
3	Brick Plant	63.4	72.1	67.9	75
4	Labour Colony	61.9	67.8	64.9	75
5	Sub-Station	64.2	67.3	66.2	75

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: M-6519
Issued date :01.10.2020

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 : 23.09.2020

Particulars of Sample Collected : **Labour Gate**

Date of Sample Receipt : 24.09.2020

Lab Code : M/20/09/4-12

Duration of monitoring : 8 Hours

Analysis Started on : 25.09.2020

Analysis completed on : 30.09.2020

Condition of sample when received : Good condition

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

Serial No. Of the Equipment : 1999-DTC-2011 & 730-DTC-2011

Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	NAAQ Standards	TEST METHOD
01	Particulate Matter (less than 10 μ) PM ₁₀	$\mu\text{g}/\text{m}^3$	44.7	100	IS: 5182 (Part-23) 2006
02	Particulate Matter (less than 2.5 μ) PM _{2.5}	$\mu\text{g}/\text{m}^3$	29.6	60	SOP No: MES/EL/MV/A-02 Issue No:0.0 Issue Date:18.08.2011
03	Sulphur Dioxide as SO ₂	$\mu\text{g}/\text{m}^3$	16.7	80	IS: 5182 (Part-2) 2001
04	Oxides of Nitrogen as NO _x	$\mu\text{g}/\text{m}^3$	17.2	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	$\mu\text{g}/\text{m}^3$	< 0.05	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	< 0.5	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	0.27	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

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

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ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-6520
Issued date : 01.10.2020

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 : 23.09.2020

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

Date of Sample Receipt : 24.09.2020

Lab Code : M/20/09/4-13

Duration of monitoring : 8 Hours

Analysis Started on : 25.09.2020

Analysis completed on : 25.09.2020

Condition of sample when received : Good condition

Model of Equipment used for monitoring : Aerovironment RDS 9000

Serial No. Of the Equipment : 01106-2001

Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	499.5	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.


(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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ANALYSIS REPORT OF FUGITIVE EMISSIONS

Test Report No: M-6521
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : **Raw Material Handling Area**
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-14
Duration of monitoring : 8 Hours
Analysis Started on : 25.09.2020
Analysis completed on : 25.09.2020
Condition of sample when received : Good condition
Model of Equipment used for monitoring : RDS APM 460BL
Serial No. Of the Equipment : 1999-DTC- 2011
Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	460.7	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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ANALYSIS REPORT OF FUGITIVE EMISSIONS


Test Report No: M-6522
Issued date :01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Labour Canteen
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-15
Duration of monitoring : 8 Hours
Analysis Started on : 25.09.2020
Analysis completed on : 25.09.2020
Condition of sample when received : Good condition
Model of Equipment used for monitoring : Aerovironment RDS 9000
Serial No. Of the Equipment : 051152-2005
Calibration done and Due on : Done on 20.11.2018 and due on 20.11.2020

TEST RESULT

SL. No	TEST PARAMETERS	UNIT	TEST RESULTS	KSPCB Limits	TEST METHOD
01	Particulate matter (less than 100 μ) PM ₁₀₀	$\mu\text{g}/\text{m}^3$	456.3	2000	IS:5182 (Part-4) 2019

INFERENCE: Report Status: - Within the KSPCB Limits.


(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6523
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From Rotary Kiln I, II & III
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-16

GENERAL DETAILS

Ambient Temperature : 26^oC
Stack Temperature : 160^oC
Velocity : 6.61m/s
Cross Sectional area of stack : 1.23m²
Quantity of flue gas discharge : 20211.21Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 25.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	44.2	100	IS: 11255(Part-1) 1985
02	Carbon Monoxide as CO	(V/V)%	0.33	1	NDIR Method

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6524
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From (200 KVA)
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-17

GENERAL DETAILS

Ambient Temperature : 27 °C
Stack Temperature : 105°C
Velocity : 8.32 m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1680.64Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	34.1	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	29.6	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	28.2	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envttest.in



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Analysis Report of Source Emission

Test Report No: M-6525
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From (300 KVA-2 Nos)
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-18

GENERAL DETAILS

Ambient Temperature : 26°C
Stack Temperature : 102°C
Velocity : 5.94m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1205.45Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	33.6	100	IS: 11255(Part-1)
02	Sulphur Dioxide as SO ₂	mg/Nm ³	26.1	150	IS: 11255(Part-2)
03	Oxide of Nitrogen as NO _x	mg/Nm ³	31.9	970	IS: 11255(Part-7)

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6526
Issued date :01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From DG (600 KVA)
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-19

GENERAL DETAILS

Ambient Temperature : 28°C
Stack Temperature : 98°C
Velocity : 5.34m/s
Stack Diameter : 0.3m
Quantity of flue gas discharge : 1102.69Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	44.7	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	23.9	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	22.6	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6527
Issued date :01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From 160 KVA DG
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-20

GENERAL DETAILS

Ambient Temperature : 270°C
Stack Temperature : 94°C
Velocity : 6.22m/s
Stack Diameter : 0.5m
Quantity of flue gas discharge : 3594.92Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 27.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	35.7	100	IS: 11255(Part-1) 1985
02	Sulphur Dioxide as SO ₂	mg/Nm ³	22.7	150	IS: 11255(Part-2) 1985
03	Oxide of Nitrogen as NO _x	mg/Nm ³	26.5	970	IS: 11255(Part-7) 2005

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6528
Issued date :01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From Cooler Discharge & De- Dusting System-I
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-21

GENERAL DETAILS

Ambient Temperature : 26°C
Stack Temperature : 163°C
Velocity : 5.94m/s
Cross Sectional area of stack : 0.07m²
Quantity of flue gas discharge : 1026.53Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 25.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	39.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Source Emission

Test Report No: M-6529
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of Sample Collected : Collected From Cooler Discharge & De- Dusting System-II
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-22

GENERAL DETAILS

Ambient Temperature : 26°C
Stack Temperature : 182°C
Velocity : 4.97m/s
Cross Sectional area of stack : 0.07m²
Quantity of flue gas discharge : 823.03Nm³/hr
Analysis Started on : 25.09.2020
Analysis Completed on : 25.09.2020
Model of the Equipment used for Monitoring : Vayubodhan Stack Sampler VSS1
Serial No. of the Equipment : 338 DTH14
Calibration done on and due on : Done on 07.12.2018 and Due on 07.12.2020

TEST RESULT

SL. NO	PARAMETERS	UNIT	RESULTS	TOLERANCE LIMIT	TEST METHOD
01	Particulate Matter	mg/Nm ³	41.7	100	IS: 11255(Part-1) 1985

INFERENCE: Report Status: Within the tolerance limits.

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envttest.in



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Analysis Report of Water Sample

Test Report No: M-6530
Issued date : 01.10.2020

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 : 23.09.2020
Particulars of sample Collected : Drinking water
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-23
Sampling Type : Grab
Sample Quantity : 2Ltrs
Date of Analysis Started on : 24.09.2020
Date of Analysis Completion on : 30.09.2020
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	7.50	6.5-8.5	IS: 3025 (P 11) 2017
03	Turbidity as NTU	< 0.1	5	IS: 3025 (P 10) 2017
04	Total Dissolved Solids, mg/L	250.0	2000	IS: 3025 (P 16) 2017
05	Alkalinity as CaCO ₃ , mg/L	70.0	600	IS : 3025 (P23) 2014
06	Total Hardness as CaCO ₃ , mg/L	68.0	600	IS: 3025 (P 21) 2014
07	Calcium as Ca, mg/L	23.0	200	IS: 3025 (P 40) 2014
08	Magnesium as Mg, mg/L	10.0	100	IS: 3025 (P 46) 2014
09	Chloride as Cl, mg/L	72.0	1000	IS: 3025 (P 32) 2014
10	Sulphate as SO ₄ , mg/L	23.4	400	IS: 3025 (P 24) 2014
11	Nitrate as NO ₃ , mg/L	< 0.1	45	IS: 3025 (P 34) 2014
12	Iron as Fe, mg/L	< 0.05	0.3	IS: 3025 (P 53) 2014
13	Fluoride as F, mg/L	<0.1	1.5	IS: 3025(P-60) 2013
15	Escherichia coli/100ml	Not Detected	Not detectable	IS:15185:2016
16	Total Coliforms/100ml	Not Detected	Not detectable	IS:15185:2016

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Water Sample

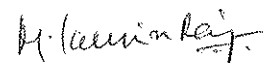
Test Report No: M-6531

Issued date : 01.10.2020

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 : 23.09.2020
Particulars of sample Collected : ETP Water
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-24
Sampling Type : Grab
Sample Quantity : 2Ltrs
Date of Analysis Started on : 24.09.2020
Date of Analysis Completion on : 30.09.2020
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	8.65	5.5-9.0	IS:3025 (P 11) 2017
02	Oil & Grease, mg/L	< 0.1	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	53.0	250	IS: 3025 (P 58) 2017


(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Water Sample

Test Report No: M-6532
Issued date : 01.10.2020

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 : 23.09.2020

Particulars of sample Collected : Borewell Water

Date of Sample Receipt : 24.09.2020

Lab Code : M/20/09/4-25

Sampling Type : Grab

Sample Quantity : 10Ltrs

Date of Analysis Started on : 24.09.2020

Date of Analysis Completion on : 30.09.2020

Condition of the sample : No leakages were observed when received

Page No. : 1 of 3

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) 2017
02	Odour	Agreeable	Agreeable	Agreeable	IS: 3025 (P 5) 2017
03	pH	7.30	6.5 to 8.5	6.5 to 8.5	IS: 3025 (P 11) 2017
04	Taste	Agreeable	Agreeable	Agreeable	IS: 3025 (P 8) 2017
05	Turbidity as NTU	< 0.1	1	5	IS: 3025 (P 10) 2017
06	Total Dissolved Solids , mg/l	1350.0	500	2000	IS: 3025 (P 16) 2017
07	Aluminum as Al, mg/l	< 0.01	0.03	0.2	IS: 3025 (P 55) 2017
08	Ammonia(as total ammonia -N) mg/l	< 0.1	0.5	0.5	Annex K of IS:13428 2014
10	Barium as Ba mg/l	< 0.5	0.7	0.7	IS: 15302 2009

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envttest.in

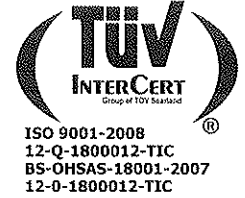


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Page No.:2 of 3

Test Report No: M-6532

TEST RESULT

Issued date : 01.10.2020

SL. No	TEST PARAMETERS	TEST RESULTS	ACCEPTABLE LIMITS AS PER IS:10500-2012	PERMISSIBL LIMITS AS PER IS:10500-2012	TEST METHODS
11	Calcium as Ca, mg/l	63.4	75	200	IS: 3025 (P 40) 2014
12	Copper as Cu, mg/l	<0.01	0.05	1.5	IS: 3025 (P 42) 2014
13	Chloride as Cl, mg/l	165.0	250	1000	IS: 3025 (P 32) 2014
14	Fluoride as F, mg/l	0.3	1.0	1.5	IS: 3025 (P 60) 2013
15	Residual Free Chlorine, mg/l	<0.1	0.2	1	IS: 3025 (P 26) 2014
16	Iron as Fe , mg/l	< 0.05	1.0	1.0	IS: 3025 (P 53) 2014
17	Magnesium as Mg, mg/l	23.5	30	100	IS: 3025 (P 46) 2014
18	Mineral Oil, mg/l	< 0.01	0.5	0.5	IS:3025 (Part 39) 2014
19	Nitrate as NO ₃ , mg/l	7.30	45	45	IS: 3025 (P 34) 2014
20	Sulphate as SO ₄ , mg/l	32.0	200	400	IS: 3025 (P 24) 2014
21	Sulphide as H ₂ S, mg/l	< 0.01	0.05	0.05	IS:3025 (P 29) 2014
22	Zinc as Zn, mg/l	< 0.005	5	15	IS: 3025 (P 49) 2014
23	Cadmium as Cd, mg/l	< 0.002	0.003	0.003	IS: 3025 (P 41) 2014
24	Cyanide as CN , mg/l	< 0.01	0.05	0.05	IS: 3025 (P 27) 2014
25	Lead as Pb , mg/l	< 0.005	0.01	0.01	IS: 3025 (P 47) 2014
26	Mercury as Hg , mg/l	< 0.0005	0.001	0.001	IS: 3025 (P 48) 2014
27	Nickel as Ni , mg/l	< 0.01	0.02	0.02	Annex L of IS: 13428 2014
28	Total Arsenic as As , mg/l	< 0.005	0.01	0.05	IS: 3025 (P 37) 2014
29	Total chromium as Cr, mg/l	< 0.03	0.05	0.05	IS: 3025 (P 52) 2014
30	Methyl Orange Alkalinity as CaCO ₃ , mg/l	318.0	--	--	IS: 3025 (P 23) 2014

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



MINERAL ENGINEERING SERVICES

Recognised By GOI, MoEF&CC Under E(P)A 1986 Vide Gazette Notification

No. S.O. 857(E) dated 26.02.2018. Recognition Valid Upto 25.02.2023

ISO 9001: 2015 AND BS OHSAS 18001: 2007 Certification Valid Upto 18.03.2021



ISO 9001-2008
12-Q-1800012-TIC
BS-OHSAS-18001-2007
12-0-1800012-TIC

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Page No.:3 of 3

Test Report No: M-6532

TEST RESULT

Issued date : 01.10.2020

SL.No	TEST PARAMETERS	TEST RESULTS	ACCEPTABLE LIMITS AS PER IS:10500-2012	PERMISSIBLE LIMITS AS PER IS:10500-2012	TEST METHODS
31	Phenolphthalein Alkalinity, mg/l	20.0	200	600	IS: 3025 (P 23) 2014
32	Biological Oxygen Demand, mg/l	7.0	--	--	IS:3025 (P 44) 2014
33	Chemical Oxygen Demand, mg/l	22.0	--	--	IS : 3025(P 58) 2017
34	Phosphate as PO ₄ mg/l	10.5	--	--	IS: 3025 (P 31) 2014
35	Silica as SiO ₂ , mg/l	42.0	--	--	IS : 3025 (P 35) 2014
36	Total Volatile Solids, mg/l	19.0	--	--	IS : 3025 (P 18)
37	Total Fixed Solids mg/l	123.0	--	--	IS : 3025 (P 18)
38	Conductivity, μmhos/cm, mg/l	2250.0	--	--	IS: 3025 (P 14) 2013
39	Sodium as N,mg/l	130.0	--	--	IS : 3025 (P 45) 2014
40	Potassium as K ,mg/l	53	--	--	IS: 3025 (P45) 2014
41	Total Suspended Solids,mg/l	<5	--	--	IS:3025 (P17) 2017
42	Sulphite Reducing Bacteria	Absent	--	--	Annex C of IS:13428 2014
43	Total Bacterial Count	03	--	--	IS:1622:2009

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

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

25/XXV, Club Road, Bellary-583 103, Karnataka. Tel/Fax : 08392-267421.

E-mail : mes_msraju@yahoo.co.uk
mesbly25@gmail.com

Website : www.envtest.in



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Analysis Report of Soil Sample

Test Report No: M-6533

Issued date : 01.10.2020

Name of the Location : Factory Sample
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 : 23.09.2020
Particulars of sample Collected : Soil
Date of Sample Receipt : 24.09.2020
Lab Code : M/20/09/4-26
Sampling Type : Grab
Sample Quantity : 2Kg
Date of Analysis Started on : 24.09.2020
Date of Analysis Completion on : 30.09.2020
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	7.60	IS 2720 (IS P26) 2016
02	Calcium as Ca, (mg/kg)	510.0	ICARDA
03	Magnesium as Mg, (mg/kg)	43.0	ICARDA
04	Chloride as Cl, (mg/kg)	25.0	ICARDA
05	Sulphate as So ₄ , (mg/kg)	16.0	ICARDA
06	Iron as Fe, (mg/kg)	156.0	USEPA 3050B 1996
07	Chromium as Cr, (mg/kg)	<0.5	USEPA 3050B 1996
08	Zinc as Zn, (mg/kg)	6.50	USEPA 3050B 1996
09	Nickel as Ni, (mg/kg)	<0.1	USEPA 3050B 1996
10	Moisture (%)	5.35	ICARDA

M. Sachin Raju
(M. SACHIN RAJU)
GOVT. ANALYST

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Website : www.envtest.in