

The Sandur Manganese & Iron Ores Limited

(An ISO 9001:2015; ISO 14001:2015 and 45001:2018 certified company)
CIN: L85110KA1954PLC000759; Website: www.sandurgroup.com

REGISTERED OFFICE

'SATYALAYA', No.266
Ward No.1, Palace Road
Sandur - 583 119, Ballari District
Karnataka, India
Tel: +91 8395 260301/ 283173-199
Fax: +91 8395 260473



CORPORATE OFFICE
'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India

Tel: +91 80 4152 0176 - 79 / 4547 3000
Fax: +91 80 4152 0182

06th March 2025

Ref No: SMIORE/PLANT/ENV/MR/2024-25/90

To,
The Environmental Officer,
Regional Office & Zonal office
Karnataka State Pollution Control Board
Sri Sai Sharan plaza, No. 71/A, 2nd floor,
Dam road, Hosapete- 583203, Vijayanagar District.

Subject: Environmental monitoring report of The Sandur Manganese & Iron Ores Limited, Vyasanakere, Hosapete for the month of **February-2025.**

Reference: 1) CFO No. AW-329576 PCB ID 29470 Dated 02.02.2022
2) Amended CFO No. AW-335581 PCB ID 29470 Dated 17.01.2023

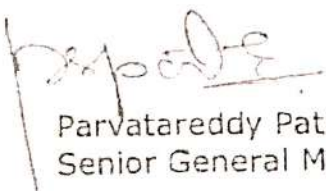
Dear Sir,

With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasanakere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period **February-2025** for your kind perusal.

Kindly acknowledge receipt of the same and oblige.

Thanking you,

For The Sandur Manganese & Iron Ores Limited


Parvatareddy Patil
Senior General Manager-Plant



ಸ್ವೀಕೃತಿ
ಕೆ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಮೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 6/03/25 ಸಹಿ

Encl: Environmental Monitoring Report **February-2025**

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasanakere, Mariyaminanahalli - 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

February, 2025

**Project : The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vysanakere, Hanumanahalli Village,
Hospet Taluk,**

**ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)**
(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

AMBIENT AIR QUALITY

Table No. 1

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Station at & Code : A1, Near Existing AAQMS 01 (SMIORE Schools)
Instrument Used : Envirotech APM 460BL Serial No. 2914-DTJ-2020
Envirotech APM -550, Serial No. 520-DTG-2017
Calibration due date of instrument : 24.03.2025
Duration : 24 Hrs
Issue date : 01.03.2025
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.02.2025	N/25/02/1-0253	8	10	59	35	<20	<1
08.02.2025	N/25/02/1-0313	12	15	46	25	<20	<1
10.02.2025	N/25/02/3-0030	9	13	55	28	<20	<1
11.02.2025	N/25/02/3-0095	10	12	53	27	<20	<1
21.02.2025	N/25/02/5-0174	8	10	44	24	<20	<1
22.02.2025	N/25/02/5-0257	7	13	57	29	<20	<1
24.02.2025	N/25/02/5-0361	8	11	55	27	<20	<1
25.02.2025	N/25/02/5-0474	9	10	61	32	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.02.2025	N/25/02/1-0253	0.15	<0.1	<0.5	<0.5	0.27	22
08.02.2025	N/25/02/1-0313	0.21	<0.1	<0.5	<0.5	0.36	25
10.02.2025	N/25/02/3-0030	0.33	<0.1	<0.5	<0.5	0.22	25
11.02.2025	N/25/02/3-0095	0.25	<0.1	<0.5	<0.5	0.24	27
21.02.2025	N/25/02/5-0174	0.19	<0.1	<0.5	<0.5	0.30	28
22.02.2025	N/25/02/5-0257	0.15	<0.1	<0.5	<0.5	0.35	26
24.02.2025	N/25/02/5-0361	0.26	<0.1	<0.5	<0.5	0.41	30
25.02.2025	N/25/02/5-0474	0.22	<0.1	<0.5	<0.5	0.32	25
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 2

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Station at & Code : A2, Existing Water Reservoir (Near WTP Plant)

Instrument Used : Envirotech APM 460BL Serial No. 2913-DTJ-2020
Envirotech APM -550, Serial No. 89 DTJ2012

Calibration due date of instrument : 24.03.2025

Duration : 24 Hrs

Issue date : 01.03.2025

Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.02.2025	N/25/02/1-0254	7	12	57	29	<20	<1
08.02.2025	N/25/02/1-0314	9	11	49	26	<20	<1
10.02.2025	N/25/02/3-0031	12	15	56	30	<20	<1
11.02.2025	N/25/02/3-0096	9	18	47	26	<20	<1
21.02.2025	N/25/02/5-0175	12	14	53	27	<20	<1
22.02.2025	N/25/02/5-0258	10	14	40	25	<20	<1
24.02.2025	N/25/02/5-0362	11	15	50	29	<20	<1
25.02.2025	N/25/02/5-0475	11	17	44	23	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.02.2025	N/25/02/1-0254	0.17	<0.1	<0.5	<0.5	0.45	33
08.02.2025	N/25/02/1-0314	0.25	<0.1	<0.5	<0.5	0.28	30
10.02.2025	N/25/02/3-0031	0.31	<0.1	<0.5	<0.5	0.33	20
11.02.2025	N/25/02/3-0096	0.15	<0.1	<0.5	<0.5	0.29	24
21.02.2025	N/25/02/5-0175	0.18	<0.1	<0.5	<0.5	0.21	27
22.02.2025	N/25/02/5-0258	0.11	<0.1	<0.5	<0.5	0.26	28
24.02.2025	N/25/02/5-0362	0.19	<0.1	<0.5	<0.5	0.36	21
25.02.2025	N/25/02/5-0475	0.28	<0.1	<0.5	<0.5	0.33	27
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 3

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasankere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)							
Station at & Code : A3, Galemmanagudi							
Instrument Used : Envirotech APM 460BL Serial No. 2905-DTJ-2020 Envirotech APM -550, Serial No.86 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 01.03.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.02.2025	N/25/02/1-0255	14	18	57	33	<20	<1
08.02.2025	N/25/02/1-0315	7	12	54	28	<20	<1
10.02.2025	N/25/02/3-0032	10	11	48	27	<20	<1
11.02.2025	N/25/02/3-0097	9	13	55	29	<20	<1
21.02.2025	N/25/02/5-0176	10	17	50	26	<20	<1
22.02.2025	N/25/02/5-0259	7	10	45	24	<20	<1
24.02.2025	N/25/02/5-0363	9	12	49	28	<20	<1
25.02.2025	N/25/02/5-0476	8	16	52	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.02.2025	N/25/02/1-0255	0.15	<0.1	<0.5	<0.5	0.44	<20
08.02.2025	N/25/02/1-0315	0.15	<0.1	<0.5	<0.5	0.26	24
10.02.2025	N/25/02/3-0032	0.21	<0.1	<0.5	<0.5	0.32	27
11.02.2025	N/25/02/3-0097	0.11	<0.1	<0.5	<0.5	0.25	22
21.02.2025	N/25/02/5-0176	0.19	<0.1	<0.5	<0.5	0.31	23
22.02.2025	N/25/02/5-0259	0.27	<0.1	<0.5	<0.5	0.28	30
24.02.2025	N/25/02/5-0363	0.21	<0.1	<0.5	<0.5	0.38	28
25.02.2025	N/25/02/5-0476	0.16	<0.1	<0.5	<0.5	0.42	30
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 4

Name and Address of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)							
Station at & Code : A4, Near Plant Railway Siding							
Instrument Used : Envirotech APM 460BL Serial No. 2216-DTI-2017 Envirotech APM -550, Serial No. 87 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 01.03.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.02.2025	N/25/02/1-0256	7	12	49	27	<20	<1
08.02.2025	N/25/02/1-0316	10	13	59	34	<20	<1
10.02.2025	N/25/02/3-0033	11	16	62	36	<20	<1
11.02.2025	N/25/02/3-0098	13	14	50	27	<20	<1
21.02.2025	N/25/02/5-0177	9	16	57	29	<20	<1
22.02.2025	N/25/02/5-0260	12	12	46	25	<20	<1
24.02.2025	N/25/02/5-0364	12	18	63	33	<20	<1
25.02.2025	N/25/02/5-0477	7	12	57	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.02.2025	N/25/02/1-0256	0.12	<0.1	<0.5	<0.5	0.45	22
08.02.2025	N/25/02/1-0316	0.18	<0.1	<0.5	<0.5	0.35	25
10.02.2025	N/25/02/3-0033	0.13	<0.1	<0.5	<0.5	0.42	22
11.02.2025	N/25/02/3-0098	0.15	<0.1	<0.5	<0.5	0.35	22
21.02.2025	N/25/02/5-0177	0.22	<0.1	<0.5	<0.5	0.21	21
22.02.2025	N/25/02/5-0260	0.13	<0.1	<0.5	<0.5	0.27	27
24.02.2025	N/25/02/5-0364	0.25	<0.1	<0.5	<0.5	0.32	22
25.02.2025	N/25/02/5-0477	0.18	<0.1	<0.5	<0.5	0.21	28
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 5

Stack Monitoring Report

Report No. N038725023

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,

Location : ARC Furnace area

Stack ID : Stack Attached to Furnace - 3

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of Sample Collected : Emissions from stack collected through stack sample VSS1

Date of Collection : 11.02.2025

Date of Sample Receipt : 12.02.2025

Lab Code : N/25/02/3-0387

Issue date : 20.02.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	30
3	Stack Temperature ($^{\circ}\text{C}$)	135
4	Velocity (m/s)	6.89
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m^2)	95733
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	80755
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	15.07.2025

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm^3	32.82	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	14.56	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	20.55	--	IS: 11255(Part-7) 2017
4	CO	%	0.31	--	flue gas analyser
5	Oxygen (O_2)	%	15.89	--	flue gas analyser

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TEST REPORT

Table No. 6

Stack Monitoring Report

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location : Coke Oven Plant
Stack ID : Stack Attached to WHRB -01
Remarks - Shutdown

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location : Coke Oven Plant
Stack ID : Stack Attached to WHRB -02
Remarks - Shutdown

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location : Coke Oven Plant
Stack ID : Stack Attached to Coal Crushing
Remarks - Shutdown

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location : Coke Oven Plant
Stack ID : Stack Attached to Coke Cutter
Remarks - Shutdown

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location : Coke Oven Plant
Stack ID : Stack Attached to Coke Screening & Store
Remarks - Shutdown

M. Sachin Raju
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T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 7

AMBIENT NOISE LEVEL DATA

Report No. ELMES132502

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,																			
Particulars of Sample Collected : Ambient Noise Level collected through Sound Level Meter (HTC SL-1352 Data Logger)																			
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)																			
Date of sample collection : 11.02.2025																			
Date of sample receipt : 12.02.2025																			
Issue Date : 01.03.2025																			
Sampling & Test Method : IS:9989																			
Code No.	Monitoring stations	Day			Night														
		(06.00 Am to 10.00 Pm)			(10.00 Pm to 06.00 Am)														
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}												
Core zone																			
N1	Near Existing AAQMS 01 (SMIORE Schools)	43.0	56.8	65.3	34.0	47.4	55.0												
N2	Near Water Reservoir (WTP Plant)	38.0	51.9	58.4	34.0	45.8	53.0												
Buffer zone																			
N3	Near Galemmanagudi	39.0	48.6	53.5	35.0	42.9	45.2												
N4	Vysanakere Village	39.0	50.2	55.0	36.0	44.4	46.0												
N5	Hanumanahalli village	42.0	51.9	56.0	34.0	41.4	46.0												
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="1"> <thead> <tr> <th></th> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> <tr> <td>Commercial area</td> <td>65</td> <td>55</td> </tr> <tr> <td>Residential area</td> <td>55</td> <td>45</td> </tr> </tbody> </table>									Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Day	Night																	
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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Report No : N0339025023

Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vyasanakere village, Hosapete Taluk, Ballari District, Karnataka
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 07.02.2025
Lab Code	: N/25/02/3-0339
Issue Date	: 21.02.2025
Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes	

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.28	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27°C	mg/l	8.3	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	40	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105°C	mg/l	18	<20	IS 3025 (P-16)1984 RA 2017
5	Ammonium (H4-N)	mg/l	0.5	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	8.5	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	<1.8	<100	IS:15185 :2016 RA 2021



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