

ENVIRONMENTAL MONITORING REPORT

January, 2025

Project : Dharmapura Iron Ore Mine
(ML No.2543)

**R.M. Block, Ramgad Range, Dharmapura village,
Sandur Taluk, Ballari Dist., Karnataka.**

Lessee

M/s. VNK Menon
**No. 6, KHB colony Sandur,
Ballari District, Karnataka**

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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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. V.N.K. Menon Name of the Project : Dharmapura Iron Ore Mine (ML No.2543) Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A - I, Core Zone (ML Area) Duration : 24 Hrs Issue date : 03.02.2025 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
10.01.2025	N/25/01/03-0160	9	10	58	33
11.01.2025	N/25/01/03-0239	11	15	46	24
17.01.2025	N/25/01/03-0615	12	18	55	30
18.01.2025	N/25/01/04-0021	9	14	46	27
20.01.2025	N/25/01/04-0083	10	12	49	28
21.01.2025	N/25/01/04-0127	8	11	55	32
29.01.2025	N/25/02/1-0016	13	18	53	29
30.01.2025	N/25/02/1-0085	12	14	50	26
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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

Govt. Analyst / Authorised Signatory

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Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. V.N.K. Menon Name of the Project : Dharmapura Iron Ore Mine (ML No.2543) Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A - II, Dharmapura Duration : 24 Hrs Issue date : 03.02.2025 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
10.01.2025	N/25/01/03-0155	10	16	57	33
11.01.2025	N/25/01/03-0234	9	11	58	33
17.01.2025	N/25/01/03-0605	12	18	55	27
18.01.2025	N/25/01/04-0009	10	12	42	26
20.01.2025	N/25/01/04-0076	11	13	54	28
21.01.2025	N/25/01/04-0122	7	10	47	22
29.01.2025	N/25/02/1-0011	12	18	50	26
30.01.2025	N/25/02/1-0080	11	15	57	29
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


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Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. V.N.K. Menon Name of the Project : Dharmapura Iron Ore Mine (ML No.2543) Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A - III, Yeshwanthanagar Duration : 24 Hrs Issue date : 03.02.2025 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
10.01.2025	N/25/01/03-0146	11	13	54	27
11.01.2025	N/25/01/03-0225	6	10	50	24
13.01.2025	N/25/01/03-0441	11	16	45	24
14.01.2025	N/25/01/03-0495	9	12	40	22
24.01.2025	N/25/01/05-0010	8	10	53	26
25.01.2025'	N/25/01/05-0070	10	14	45	24
27.01.2025	N/25/01/5-0137	11	13	54	23
28.01.2025	N/25/01/5-0286	7	9	50	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. V.N.K. Menon Name of the Project : Dharmapura Iron Ore Mine (ML No.2543) Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A - IV Ramgad Duration : 24 Hrs Issue date : 03.02.2025 Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
10.01.2025	N/25/01/03-0154	10	12	52	18
11.01.2025	N/25/01/03-0233	9	11	50	26
17.01.2025	N/25/01/03-0604	7	13	47	24
18.01.2025	N/25/01/04-0008	11	15	58	29
20.01.2025	N/25/01/04-0075	10	12	40	22
21.01.2025	N/25/01/04-0121	7	11	54	22
29.01.2025	N/25/02/1-0010	10	15	37	20
30.01.2025	N/25/02/1-0079	11	12	50	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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Table No. 5

Fugitive Emission

Name of the Client : M/s. V.N.K. Menon		
Name of the Project : Dharmapura Iron Ore Mine (ML No.2543)		
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Station at & Code : A - VI, Loading point		
Duration : 08 Hrs		
Issue date : 03.02.2025		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
10.01.2025	N/25/01/03-0161	358
22.01.2025	N/25/01/04-0163	475

Station at & Code : A - VII, Dumping point		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
11.01.2025	N/25/01/03-0240	456
23.01.2025	N/25/01/04-0199	395

Station at & Code : A - VIII, Haulage Road		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
10.01.2025	N/25/01/03-0162	522
23.01.2025	N/25/01/04-0200	496
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment) & Lab SOP		
Permissible limits for Fugitive Emissions		Particulate mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$

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Table No. 6

STATISTICAL AMBIENT AIR QUALITY DATA

Name of the Project : Dharmapura Iron Ore Mine (ML No. 2543)								
Name of the Client : M/s. V.N.K. Menon								
Month : January, 2025								
Station Code : A I - Core Zone (Mine office)					A II - Dharmapura village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	8	10	46	24	7	10	42	22
10%	9	11	46	25	8	11	46	25
25%	9	12	48	27	10	12	49	26
50%	11	14	52	29	11	14	55	28
75%	12	16	55	31	11	17	57	30
98%	13	18	58	33	12	18	58	33
Max.	13	18	58	33	12	18	58	33
Avg.	11	14	52	29	10	14	53	28
SD	2	3	4	3	2	3	6	4
No. of obs	8				8			
Station Code : A III - Yeshwanthanagar					A - IV Ramgad			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	6	9	40	22	7	11	37	18
10%	7	10	44	23	7	11	39	19
25%	8	10	45	24	9	12	45	22
50%	10	13	50	24	10	12	50	23
75%	11	13	53	26	10	14	53	26
98%	11	16	54	27	11	15	57	29
Max.	11	16	54	27	11	15	58	29
Avg.	9	12	49	25	9	13	49	24
SD	2	2	5	2	2	2	7	4
No. of obs	8				8			

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TEST REPORT

Table No.8

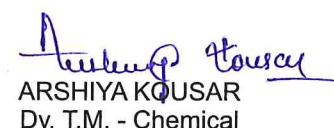
Name of the Client		: M/s. V.N.K. Menon					
Name of the Project		: Dharmapura Iron Ore Mine (ML No. 2543)					
Particulars of sample collected		: GW1 - Drinking Near Mine Office, GW2 - Dharmapura bore water, GW3 -Yeshwanthanagar bore water					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Issue Date		: 22.01.2025					
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)							
Date of sample collection		04.01.2025	17.01.2025	17.01.2025	Desirable Limits	Permissible Limits	Method of Testing
Lab Code		N/25/01/02-0083	N/25/01/03-0426	N/25/01/03-0427			
Sl. No.	Parameters	Results					
		GW1	GW2	GW3			
1	Colour (Hazen Units)	<1	1	1	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.80	7.90	7.31	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	0.8	1.50	1.8	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	42.0	1700.0	2500.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	24.0	970.0	1500.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	<0.1	0.2	1.0	Annex K of Is:13428Amm 11 2022
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57)2021
13	Calcium (as Ca),mg/l, Max	2.40	100.20	128.2	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	10.00	150.00	450.0	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	0.85	0.70	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	<1	8.74	102.0	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	<1	26.50	32.4	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	<0.005	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄),mg/l, Max	1.00	110.00	128.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	10.00	420.0	500.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l,Max	8.0	580.0	584.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40	Escherichia coli/100ml	Not Detected	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"


BINU MANI

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TEST REPORT

Table No. 9

Name of the Client		: M/s. V.N.K. Menon				
Name of the Project		: Dharmapura Iron Ore Mine (ML No. 2543)				
Particulars of sample collected		: GW4 - Tayammakolla Bore water				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Date of sample collection		: 04.01.2025				
Issue Date		: 22.01.2025				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Lab Code		N/25/01/02-0084		Desirable Limits	Permissible Limits	Method of Testing
Sl. No.	Parameters	Results				
		GW4				
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4)2021	
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018	
3	pH Value	7.44	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022	
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017	
5	Turbidity,NTU, Max	2.00	1	5	IS:3025 (P-10)1984 RA2017	
6	Electrical Conductivity (µmhos/cm)	1180.0	--	--	IS 3025 (P-14)	
7	Total Dissolved Solids,mg/l, Max	692.0	500	2000	IS:3025 (P-16)1984 RA2017	
8	Aluminium (as Al), Max	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019	
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019	
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	0.2	1.0	Annex K of Is:13428Amm 11 2	
11	Barium (as Ba), mg/l, Max	<0.005	0.7	0.7	IS:3025(P-2)2019	
12	Boron (as B), mg/l, Max	<0.1	0.5	2.4	IS:3025 (Part-57)2021	
13	Calcium (as Ca),mg/l, Max	74.0	75	200	IS:3025 (P-40)1991 RA 2019	
14	Copper (as Cu),mg/l, Max	<0.001	0.05	1.5	IS:3025 (P-2)2019	
15	Chloride as Cl (mg/l),mg/l, Max	118.00	250	1000	IS:3025 (P-32)1988 RA 2019	
16	Fluoride (as F),mg/l, Max	0.90	1	1.5	IS:3025 (P-60)2008 RA 2019	
17	Residual, Free Chlorine,mg/l, Max	<0.1	0.2	1	IS:3025 (P-26)2021	
18	Chloramines as C12, Max	<0.1	4	4	IS:3025(P-26)2021	
19	Iron (as Fe),mg/l, Max	<0.005	1.0	1.0	IS:3025 (Part-2)2019	
20	Magnesium (as Mg),mg/l, Max	54.00	30	100	IS:3025 (P-46)1994 RA 2019	
21	Manganese (as Mn),mg/l, Max	<0.001	0.1	0.3	IS:3025 (P-2)2019	
22	Mineral Oil,mg/l, Max	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 202	
23	Nitrates (as NO ₃),mg/l, Max	20.00	45	45	IS:3025 (P-34) 1988 RA 2019	
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022	
25	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019	
26	Silver (as Ag), mg/l, Max	<0.005	0.1	0.1	IS:3025(P-2)2019	
27	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	0.07	IS:3025 (P-2)2019	
28	Sulphates (as SO ₄),mg/l, Max	122.00	200	400	IS:3025 (P-24) Sec 1 2022	
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019	
30	Alkalinity (as CaCO ₃) mg/l, Max	368.0	200	600	IS:3025 (P-23):1986 RA 2019	
31	Total Hardness (as CaCO ₃),mg/l,Max	330.0	200	600	IS:3025 (P-21):2009 RA 2019	
32	Zinc (as Zn),mg/l, Max	<0.005	5	15	IS:3025 (P-2) 2019	
33	Cadmium (as Cd),mg/l, Max	<0.001	0.003	0.003	IS:3025 (P-2)2019	
34	Cyanide (as CN),mg/l, Max	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021	
35	Lead (as Pb),mg/l, Max	<0.005	0.01	0.01	IS:3025 (P-2)2019	
36	Mercury (as Hg),mg/l, Max	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4	
37	Nickel (as Ni),mg/l, Max	<0.001	0.02	0.02	IS:3025 (P-2) 2019	
38	Arsenic (as As),mg/l, Max	<0.002	0.01	0.01	IS:3025 (P-2)2019	
39	Total Chromium (as Cr),mg/l, Max	<0.001	0.05	0.05	IS:3025 (P-52)2014	
40	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021	
41	Total Coliform /100ml)	Not Detected			IS:15185:2016 RA 2021	

BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

"END OF REPORT"

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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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

Table No. 10

NOISE LEVEL DATA

Report No : ELMES0302501

Name of the Client		: M/s. V.N.K. Menon																	
Name of the Project		: Dharmapura Iron Ore Mine (ML No. 2543)																	
Particulars of sample collected		: Sound Levels																	
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)																	
Date of sample collection		: 04.01.2025																	
Issue Date		: 03.02.2025																	
Sampling & Test Method		: IS:9989																	
Code	Monitoring stations	Day			Night														
No.		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}												
Bufferzone																			
N1	Dharmapura	36.8	49.3	54.0	34.6	39.6	43.0												
N2	Yeshwanthanagar	36.4	50.9	55.0	35.0	40.5	44.8												
N3	Ramgad village	38.0	49.5	55.2	34.0	42.2	45.5												
Corezone																			
N4	Core zone Near Mines office	42.0	51.1	63.2	33.0	36.7	48.0												
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="0"> <tr> <td></td> <td align="center">Day</td> <td align="center">Night</td> </tr> <tr> <td>Industrial areas</td> <td align="center">75</td> <td align="center">70</td> </tr> <tr> <td>Commercial area</td> <td align="center">65</td> <td align="center">55</td> </tr> <tr> <td>Residential area</td> <td align="center">55</td> <td align="center">45</td> </tr> </table>									Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Day	Night																	
Industrial areas	75	70																	
Commercial area	65	55																	
Residential area	55	45																	

M. Sachin Raju
M.SACHIN RAJU

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