

DETAILS OF ENVIRONMENTAL MONITORING STATIONS

M/s Nadeem Minerals

Donimalai Iron Ore Mine (ML No. 2526)

Taranagar village

Sandur

Sl. No.	AAQ Stations	Parameters	Name of Station
1	Ambient Air Quality		
	a) Core zone b) Buffer zone	PM, PM _{2.5} , SO ₂ , NO ₂ , CO, Pb, NH ₃ , As, Ni, Benzene, Benzo (a) Pyrene & Ozone	1.Core Zone-Mine area 2.Taranagar village 3.Bhujanganagar village 4.Lingadahalli village 5. Ranjitpur village
	b) Fugitive operations	Particulate Matter (PM)	- Loading - Waste Dump - Haulage Road - Screening plant - Crushing plant
2	Water Quality		
	a) Surface water	IS 2296 Standards	1.Nallha water (Near ubbala gandi) 2. Nallha water (Near Krishna nagar 3.Nallha water (Near Bhujanganagar 4.Narihalla water
	b) Ground water	IS 10500 Standards	1. Taranagar village 2. Bhujanganagar village 3. Lingadahalli village 4. Ranjitpur village 5. ubbala gandi village
3	Noise Level	As per KSPCB Norms	1. Taranagar village 2. Bhujanganagar village 3. Lingadahalli village 4. Ranjitpur village 5.core zone area 6.Screening plant 7.Haulage Road 8.TATA Hitachi Zxis 370 9. TATA Hitachi Zxis 220 10.Cat 313 D 11.Wheel loder –HM 2021
4	Soil test	IS 2750 Standards	1.Top Soil (ML area) 2.Dump Afforestation 3. Taranagar village 4. Ranjitpur village 5. Bhujanganagar village

ENVIRONMENTAL MONITORING REPORT
(FEBRUARY-2023)

DONIMALAI IRON ORE MINE
ML NO-2526

at
Donimalai Block Taranagar Village,
Sandur (Tq), Bellary (District), Karnataka.

of

M/s NADEEM MINERALS PVT LTD
Sandur-583 119

Prepared By



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No.TC-6224

ISO 9001:2015
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#Plot No.15-DP2, KIADB, Sankalapura Industrial Area, Near Water Tank, Bellary
Main Road, Hospet-583201, Bellary District Karnataka.
Tel/Fax No. 08394-265084, Cell-8884494261/250/239.
email: technolabs@sums.org.in, sums.hpt@gmail.com, website : www.sums.org.in



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TC-6224

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur -Tq and Bellari- Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : CA1-Mining lease area
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/19, SUMSTLPL/FPS/CEIS/20
6. Sampling Method : STLPL/SOP/SP/01
7. Season : WINTER SEASON (FEBRUARY-2023)
8. ULR : TC62242300000079F
9. Test Report Number : STLPL/NM/AA/2023/02/79
10. Discipline : Chemical
11. Group : Atmospheric Pollution
12. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	PM ₁₀ [$\mu\text{g}/\text{m}^3$]		PM _{2.5} [$\mu\text{g}/\text{m}^3$]		SO ₂ [$\mu\text{g}/\text{m}^3$]		NO ₂ [$\mu\text{g}/\text{m}^3$]	
					STD	100	STD	60	STD	80	STD	80
					Result		Result		Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/1	75	32	9.5	10.5				
	03.02.2023	04.02.2023	04.02.2023	9919/6	77	34	8.8	9.6				
II nd	08.02.2023	09.02.2023	09.02.2023	9919/32	81	30	10.2	10.8				
	09.02.2023	10.02.2023	10.02.2023	9919/37	85	35	9.9	10.3				
III rd	15.02.2023	16.02.2023	16.02.2023	9919/42	74	44	11.4	11.7				
	16.02.2023	17.02.2023	17.02.2023	9919/47	77	38	10.7	11.1				
IV th	22.02.2023	23.02.2023	23.02.2023	9919/61	84	41	8.7	9.9				
	23.02.2023	24.02.2023	24.02.2023	9919/66	73	28	9.6	10.2				
Avg. 24 Hrs.					78	35	9.9	10.5				

Weeks	Ammonia [NH ₃] [$\mu\text{g}/\text{m}^3$]		Ozone [O ₃] [$\mu\text{g}/\text{m}^3$]		Lead [Pb] [$\mu\text{g}/\text{m}^3$]		Nickel [Ni] [ng/m^3]		Arsenic [As] [ng/m^3]		Carbon Monoxide [CO] [mg/m^3]	
	STD	400	STD	180	STD	1.0	STD	20	STD	06	STD	04
	Result		Result		Result		Result		Result		Result	
I st	16.2	12.2	BDL	BDL	BDL	0.28						
	17.4	13.9	BDL	BDL	BDL	0.33						
II nd	18.6	16.1	BDL	BDL	BDL	0.30						
	19.3	15.9	BDL	BDL	BDL	0.27						
III rd	18.5	17.3	BDL	BDL	BDL	0.35						
	18.9	17.7	BDL	BDL	BDL	0.31						
IV th	19.7	15.8	BDL	BDL	BDL	0.29						
	17.7	13.4	BDL	BDL	BDL	0.26						
Avg. 24 Hrs.	18.3	15.3	BDL	BDL	BDL	0.30						

BDL-Below detectable limit

Anand

Analysed by
Anand N



Shivashankaraiah.H.M

Authorised Signatory
Shivashankaraiah.H.M

Page No.1 of 30

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E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in

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ANALYSIS REPORT OF AMBIENT AIR QUALITY

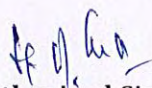
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3. Name of the Station : CA1-Mining lease area
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/19, SUMSTLPL/BS/CEIS/01,
6. Season : WINTER SEASON (FEBRUARY-2023)
7. Test Report Number : STLPL/NM/AA/2023/02/79
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	Benzene [C ₆ H ₆] [µg/m ³]		Benzo(a) pyrene [Bap] [ng/m ³]	
					STD	05	STD	01
					Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/1	BDL	BDL		
	03.02.2023	04.02.2023	04.02.2023	9919/6	BDL	BDL		
II nd	08.02.2023	09.02.2023	09.02.2023	9919/32	BDL	BDL		
	09.02.2023	10.02.2023	10.02.2023	9919/37	BDL	BDL		
III rd	15.02.2023	16.02.2023	16.02.2023	9919/42	BDL	BDL		
	16.02.2023	17.02.2023	17.02.2023	9919/47	BDL	BDL		
IV th	22.02.2023	23.02.2023	23.02.2023	9919/61	BDL	BDL		
	23.02.2023	24.02.2023	24.02.2023	9919/66	BDL	BDL		
Avg. 24 Hrs.					BDL	BDL		

BDL-Below detectable limit


Analysed by
Anand N




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Shivashankaraiah.H.M
Page No.2 of 30

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- Name of the client : M/s. Nadeem Minerals Pvt Ltd
- Name of the Station : BA2-Taranagar Village
- Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
- Sample Equipment's ID : SUMSTLPL/RDS/CEIS/21, SUMSTLPL/FPS/CEIS/22
- Sampling Method : STLPL/SOP/SP/01
- Season : WINTER SEASON (FEBRUARY-2023)
- ULR : TC622423000000079F
- Test Report Number : STLPL/NM/AA/2023/02/79
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Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	PM ₁₀ [$\mu\text{g}/\text{m}^3$]		PM _{2.5} [$\mu\text{g}/\text{m}^3$]		SO ₂ [$\mu\text{g}/\text{m}^3$]		NO ₂ [$\mu\text{g}/\text{m}^3$]	
					STD	100	STD	60	STD	80	STD	80
					Result		Result		Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/2	50	23	8.5	9.7				
	03.02.2023	04.02.2023	04.02.2023	9919/7	54	28	7.2	8.6				
II nd	08.02.2023	09.02.2023	09.02.2023	9919/33	57	26	9.4	10.5				
	09.02.2023	10.02.2023	10.02.2023	9919/38	60	32	8.8	9.5				
III rd	15.02.2023	16.02.2023	16.02.2023	9919/43	67	37	10.3	10.7				
	16.02.2023	17.02.2023	17.02.2023	9919/48	64	34	9.7	10.4				
IV th	22.02.2023	23.02.2023	23.02.2023	9919/62	61	31	8.6	9.9				
	23.02.2023	24.02.2023	24.02.2023	9919/67	66	27	9.1	9.6				
Avg. 24 Hrs.					60	30	9.0	9.9				

Weeks	Ammonia [NH ₃] [$\mu\text{g}/\text{m}^3$]		Ozone [O ₃] [$\mu\text{g}/\text{m}^3$]		Lead [Pb] [$\mu\text{g}/\text{m}^3$]		Nickel [Ni] [ng/m ³]		Arsenic [As] [ng/m ³]		Carbon Monoxide [CO] [mg/m ³]	
	STD	400	STD	180	STD	1.0	STD	20	STD	06	STD	04
	Result		Result		Result		Result		Result		Result	
I st	14.1	11.7	BDL	BDL	BDL	BDL	BDL	0.24				
	14.7	12.9	BDL	BDL	BDL	BDL	0.29					
II nd	13.9	13.1	BDL	BDL	BDL	BDL	0.23					
	16.2	14.2	BDL	BDL	BDL	BDL	0.27					
III rd	16.6	13.8	BDL	BDL	BDL	BDL	0.31					
	15.5	13.4	BDL	BDL	BDL	BDL	0.25					
IV th	15.9	12.6	BDL	BDL	BDL	BDL	0.21					
	14.9	11.5	BDL	BDL	BDL	BDL	0.29					
Avg. 24	15.2	12.9	BDL	BDL	BDL	BDL	0.26					

BDL-Below detectable limit

Anand
Analysed by
Anand N



H. N. Shivashankaraiah
Authorised Signatory
Shivashankaraiah.H.M

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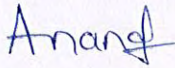
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ANALYSIS REPORT OF AMBIENT AIR QUALITY

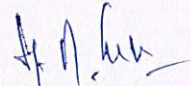
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10. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	Benzene [C ₆ H ₆] [µg/m ³]		Benzo(a) pyrene [Bap] [ng/m ³]	
					STD	05	STD	01
					Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/2	BDL	BDL		
	03.02.2023	04.02.2023	04.02.2023	9919/7	BDL	BDL		
II nd	08.02.2023	09.02.2023	09.02.2023	9919/33	BDL	BDL		
	09.02.2023	10.02.2023	10.02.2023	9919/38	BDL	BDL		
III rd	15.02.2023	16.02.2023	16.02.2023	9919/43	BDL	BDL		
	16.02.2023	17.02.2023	17.02.2023	9919/48	BDL	BDL		
IV th	22.02.2023	23.02.2023	23.02.2023	9919/62	BDL	BDL		
	23.02.2023	24.02.2023	24.02.2023	9919/67	BDL	BDL		
Avg. 24 Hrs.					BDL	BDL		

BDL-Below detectable limit


Analysed by
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3. Name of the Station : BA3-Bhujanganagar Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/23, SUMSTLPL/FPS/CEIS/24
6. Sampling Method : STLPL/SOP/SP/01
7. Season : WINTER SEASON (FEBRUARY-2023)
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					STD	100	STD	60	STD	80	STD	80
					Result		Result		Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/3	51	23	7.3	8.6				
	03.02.2023	04.02.2023	04.02.2023	9919/8	55	27	8.1	9.4				
II nd	08.02.2023	09.02.2023	09.02.2023	9919/34	59	32	9.6	10.4				
	09.02.2023	10.02.2023	10.02.2023	9919/39	63	36	8.6	9.7				
III rd	15.02.2023	16.02.2023	16.02.2023	9919/44	60	22	9.8	10.2				
	16.02.2023	17.02.2023	17.02.2023	9919/49	53	30	9.0	10.9				
IV th	22.02.2023	23.02.2023	23.02.2023	9919/63	58	35	10.2	9.9				
	23.02.2023	24.02.2023	24.02.2023	9919/68	52	26	8.1	9.3				
Avg. 24 Hrs.					56	29	8.8	9.8				

Weeks	Ammonia [NH ₃] [$\mu\text{g}/\text{m}^3$]		Ozone [O ₃] [$\mu\text{g}/\text{m}^3$]		Lead [Pb] [$\mu\text{g}/\text{m}^3$]		Nickel [Ni] [ng/m ³]		Arsenic [As] [ng/m ³]		Carbon Monoxide [CO] [mg/m ³]	
	STD	400	STD	180	STD	1.0	STD	20	STD	06	STD	04
	Result		Result		Result		Result		Result		Result	
I st	15.6		13.2		BDL		BDL		BDL		0.23	
	16.9		14.6		BDL		BDL		BDL		0.28	
II nd	17.7		15.8		BDL		BDL		BDL		0.22	
	17.2		17.1		BDL		BDL		BDL		0.25	
III rd	18.5		16.6		BDL		BDL		BDL		0.29	
	18.8		14.7		BDL		BDL		BDL		0.22	
IV th	17.6		13.9		BDL		BDL		BDL		0.18	
	15.0		11.5		BDL		BDL		BDL		0.26	
Avg.	17.2		14.7		BDL		BDL		BDL		0.24	

BDL-Below detectable limit

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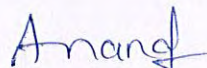
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ANALYSIS REPORT OF AMBIENT AIR QUALITY

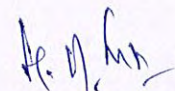
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					STD	05	STD	01
					Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/3	BDL	BDL		
	03.02.2023	04.02.2023	04.02.2023	9919/8	BDL	BDL		
II nd	08.02.2023	09.02.2023	09.02.2023	9919/34	BDL	BDL		
	09.02.2023	10.02.2023	10.02.2023	9919/39	BDL	BDL		
III rd	15.02.2023	16.02.2023	16.02.2023	9919/44	BDL	BDL		
	16.02.2023	17.02.2023	17.02.2023	9919/49	BDL	BDL		
IV th	22.02.2023	23.02.2023	23.02.2023	9919/63	BDL	BDL		
	23.02.2023	24.02.2023	24.02.2023	9919/68	BDL	BDL		
Avg. 24 Hrs.					BDL	BDL		

BDL-Below detectable limit


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ANALYSIS REPORT OF AMBIENT AIR QUALITY

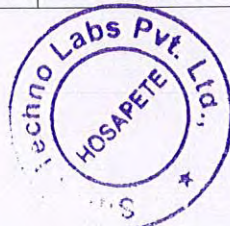
1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur -Tq and Bellari- Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Lingadahalli Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/25, SUMSTLPL/FPS/CEIS/26
6. Sampling Method : STLPL/SOP/SP/01
7. Season : WINTER SEASON (FEBRUARY-2023)
8. ULR : TC62242300000079F
9. Test Report Number : STLPL/NM/AA/2023/02/79
10. Discipline : Chemical
11. Group : Atmospheric Pollution
12. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]	
					STD	100	STD	60	STD	80	STD	80
					Result		Result		Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/4	49	24	7.1	8.0				
	03.02.2023	04.02.2023	04.02.2023	9919/9	53	29	7.7	8.8				
II nd	08.02.2023	09.02.2023	09.02.2023	9919/35	57	25	8.5	9.3				
	09.02.2023	10.02.2023	10.02.2023	9919/40	54	30	8.2	9.7				
III rd	15.02.2023	16.02.2023	16.02.2023	9919/45	60	27	9.8	10.1				
	16.02.2023	17.02.2023	17.02.2023	9919/50	65	32	9.0	9.9				
IV th	22.02.2023	23.02.2023	23.02.2023	9919/64	61	23	10.2	10.6				
	23.02.2023	24.02.2023	24.02.2023	9919/69	58	20	8.1	9.2				
Avg. 24 Hrs.					57	26	8.6	9.5				

Weeks	Ammonia [NH ₃] [µg/m ³]		Ozone [O ₃] [µg/m ³]		Lead [Pb] [µg/m ³]		Nickel [Ni] [ng/m ³]		Arsenic [As] [ng/m ³]		Carbon Monoxide [CO] [mg/m ³]	
	STD	400	STD	180	STD	1.0	STD	20	STD	06	STD	04
	Result		Result		Result		Result		Result		Result	
I st	14.2	12.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	0.27
	16.9	12.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21	0.29
II nd	16.1	13.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25	0.31
	17.5	15.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	0.20
III rd	18.3	16.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	17.9	14.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
IV th	16.4	13.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12.6	11.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Avg. 24hrs.	16.2	13.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25

BDL-Below detectable limit

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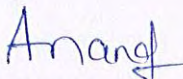
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ANALYSIS REPORT OF AMBIENT AIR QUALITY

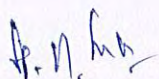
1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur -Tq and Bellari- Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Lingadahalli Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/25, SUMSTLPL/BS/CEIS/01,
6. Season : WINTER SEASON (FEBRUARY-2023)
7. Test Report Number : STLPL/NM/AA/2023/02/79
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	Benzene [C ₆ H ₆] [µg/m ³]		Benzo(a) pyrene [Bap] [ng/m ³]	
					STD	05	STD	01
					Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/4	BDL	BDL		
	03.02.2023	04.02.2023	04.02.2023	9919/9	BDL	BDL		
II nd	08.02.2023	09.02.2023	09.02.2023	9919/35	BDL	BDL		
	09.02.2023	10.02.2023	10.02.2023	9919/40	BDL	BDL		
III rd	15.02.2023	16.02.2023	16.02.2023	9919/45	BDL	BDL		
	16.02.2023	17.02.2023	17.02.2023	9919/50	BDL	BDL		
IV th	22.02.2023	23.02.2023	23.02.2023	9919/64	BDL	BDL		
	23.02.2023	24.02.2023	24.02.2023	9919/69	BDL	BDL		
Avg. 24 Hrs.					BDL	BDL		

BDL-Below detectable limit


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TC-6224

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur -Tq and Bellari- Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Ranjitpur Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/27, SUMSTLPL/FPS/CEIS/28
6. Sampling Method : STLPL/SOP/SP/01
7. Season : WINTER SEASON (FEBRUARY-2023)
8. ULR : TC622423000000079F
9. Test Report Number : STLPL/NM/AA/2023/02/79
10. Discipline : Chemical
11. Group : Atmospheric Pollution
12. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab Code	PM ₁₀ [$\mu\text{g}/\text{m}^3$]		PM _{2.5} [$\mu\text{g}/\text{m}^3$]		SO ₂ [$\mu\text{g}/\text{m}^3$]		NO ₂ [$\mu\text{g}/\text{m}^3$]	
					STD	100	STD	60	STD	80	STD	80
					Result		Result		Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/5	52	100	25	60	7.5	80	8.2	80
	03.02.2023	04.02.2023	04.02.2023	9919/10	55	100	30	60	6.8	80	7.9	80
II nd	08.02.2023	09.02.2023	09.02.2023	9919/36	50	100	24	60	7.9	80	8.7	80
	09.02.2023	10.02.2023	10.02.2023	9919/41	56	100	28	60	8.2	80	9.3	80
III rd	15.02.2023	16.02.2023	16.02.2023	9919/46	66	100	32	60	7.1	80	8.2	80
	16.02.2023	17.02.2023	17.02.2023	9919/51	63	100	27	60	9.5	80	9.9	80
IV th	22.02.2023	23.02.2023	23.02.2023	9919/65	69	100	30	60	7.7	80	8.6	80
	23.02.2023	24.02.2023	24.02.2023	9919/70	57	100	26	60	8.9	80	9.7	80
Avg. 24 Hrs.					59	100	28	60	8.0	80	8.8	80

Weeks	Ammonia [NH ₃] [$\mu\text{g}/\text{m}^3$]		Ozone [O ₃] [$\mu\text{g}/\text{m}^3$]		Lead [Pb] [$\mu\text{g}/\text{m}^3$]		Nickel [Ni] [ng/m^3]		Arsenic [As] [ng/m^3]		Carbon Monoxide [CO] [mg/m^3]	
	STD	400	STD	180	STD	1.0	STD	20	STD	06	STD	04
	Result		Result		Result		Result		Result		Result	
I st	15.6	400	15.2	180	BDL	1.0	BDL	20	BDL	06	0.26	04
	14.2	400	14.7	180	BDL	1.0	BDL	20	BDL	06	0.31	04
II nd	14.9	400	13.9	180	BDL	1.0	BDL	20	BDL	06	0.27	04
	15.2	400	15.4	180	BDL	1.0	BDL	20	BDL	06	0.24	04
III rd	15.9	400	17.6	180	BDL	1.0	BDL	20	BDL	06	0.30	04
	17.8	400	13.8	180	BDL	1.0	BDL	20	BDL	06	0.20	04
IV th	16.7	400	14.4	180	BDL	1.0	BDL	20	BDL	06	0.25	04
	13.3	400	13.5	180	BDL	1.0	BDL	20	BDL	06	0.29	04
Avg. 24 Hrs.		15.5	14.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.27	04

BDL-Below detectable limit

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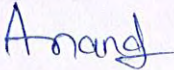
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ANALYSIS REPORT OF AMBIENT AIR QUALITY

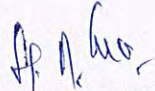
1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur -Tq and Bellari- Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Ranjitpur Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sample Equipment's ID : SUMSTLPL/RDS/CEIS/27, SUMSTLPL/BS/CEIS/01,
6. Season : WINTER SEASON (FEBRUARY-2023)
7. Test Report Number : STLPL/NM/AA/2023/02/79
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 27.02.2023

Weeks	Sampling Date	Date of Sample Receipt	Date of Analysis Started	Lab code	Benzene [C ₆ H ₆] [µg/m ³]		Benzo(a) pyrene [Bap] [ng/m ³]	
					STD	05	STD	01
					Result		Result	
I st	02.02.2023	03.02.2023	03.02.2023	9919/5	BDL	BDL		
	03.02.2023	04.02.2023	04.02.2023	9919/10	BDL	BDL		
II nd	08.02.2023	09.02.2023	09.02.2023	9919/36	BDL	BDL		
	09.02.2023	10.02.2023	10.02.2023	9919/41	BDL	BDL		
III rd	15.02.2023	16.02.2023	16.02.2023	9919/46	BDL	BDL		
	16.02.2023	17.02.2023	17.02.2023	9919/51	BDL	BDL		
IV th	22.02.2023	23.02.2023	23.02.2023	9919/65	BDL	BDL		
	23.02.2023	24.02.2023	24.02.2023	9919/70	BDL	BDL		
Avg. 24 Hrs.					BDL	BDL		

BDL-Below detectable limit


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ANALYSIS REPORT OF FUGITIVE EMISSION

1. Name of the client : M/s. Nadeem Minerals Pvt Ltd
2. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sample Equipment's ID : SUMSTLPL/HVS/GI/4, SUMSTLPL/RDS/GI/05,
SUMSTLPL/HVS/GI/6, SUMSTLPL/HVS/GI/7,
SUMSTLPL/HVS/GI/8
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Test Report Number : STLPL/NM/FE/2023/02/79
7. Discipline : Chemical
8. Group : Atmospheric Pollution
9. Report Issued Date : 27.02.2023

Sl. No	Name of the location	Sample collection Date	Receipt date	Analysis started	Lab Code	TSPM [$\mu\text{g}/\text{m}^3$]IS: 5182 (Part 23) :2004
						Result
1	Loading Point	03.02.2023	04.02.2023	05.02.2023	9919/27	715
		16.02.2023	17.02.2023	20.02.2023	9919/56	698
2	Dumping Point	03.02.2023	04.02.2023	05.02.2023	9919/28	643
		16.02.2023	17.02.2023	20.02.2023	9919/57	657
3	Haulage Road	03.02.2023	04.02.2023	05.02.2023	9919/29	750
		16.02.2023	17.02.2023	20.02.2023	9919/58	779
4	Screening Plant	03.02.2023	04.02.2023	05.02.2023	9919/30	722
		16.02.2023	17.02.2023	20.02.2023	9919/59	636
5	Crushing plant	03.02.2023	04.02.2023	05.02.2023	9919/31	761
		16.02.2023	17.02.2023	20.02.2023	9919/60	742

As per KSPCB Std. 24 Hrs. Avg. 1200.00 $\mu\text{g}/\text{m}^3$

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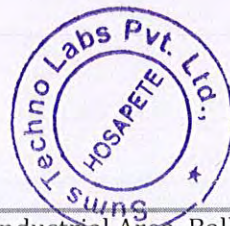
TC-6224

AMBIENT NOISE LEVEL REPORT

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq, Bellari-Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sample Equipment's ID : SUMS TLPL/NOISE/ENT/01
5. Sampling Method : IS: 9989:1981
6. Season : WINTER SEASON (FEBRUARY-2023)
7. Discipline : Chemical
8. Group : Atmospheric Pollution
9. ULR : TC622423000000079F
10. Test Report Number : STLPL/NM/AN/2023/02/79
11. Report Issued Date : 27.02.2023

Sl. No	Sample Location (Buffer Zone)	Lab code	Date of Sampling	Time Frequency	Parameters in dB(A)			Standard KSPCB/CPCB
					Min.	Max.	LEQ	
1	N2-Taranagar Village	9919/52	16.02.2023	10:20 AM to 10:35 AM	46.2	57.6	51.6	55
				10:10 PM to 10:25 PM	38.5	49.8	43.8	45
2	N3-Bhujanganagar village	9919/53	16.02.2023	11:05 AM to 11:20 AM	47.4	57.9	52.4	55
				11:00 PM to 11:15 PM	37.1	47.3	41.9	45
3	N4-Ranjitpur Village	9919/54	16.02.2023	02:20 PM to 02:35 PM	44.9	55.1	49.7	55
				04:05 AM to 04:20	38.3	48.6	43.1	45
4	N5-Lingadahalli Village	9919/55	16.02.2023	04:25 PM to 04:40 PM	42.6	53.2	47.6	55
				05:45AM to 06:00 AM	36.4	46.6	41.2	45

Sl. No	Sample Location (Core Zone Area)	Lab code	Date of Sampling	Time Frequency	Parameters in dB(A)			Standard KSPCB/CPCB
					Min.	Max.	LEQ	
1	N1-Core zone Area	9919/11	03.02.2023	09:35 AM to 9:50 AM	63.5	72.4	67.8	75
2	Screening Plant	9919/11	03.02.2023	10:10 AM to 10:25 AM	61.2	71.9	66.3	75
3	Haulage Road	9919/11	03.02.2023	10:40 AM to 10:55 AM	60.7	73.5	66.8	75
4	TATA Hitachi Zxix-370		03.02.2023	11:15 AM to 11:30 AM	62.1	69.5	65.7	75
	In Cabin	9919/12						
	On Load - In Cabin							
10 Mtrs away	03.02.2023		11:45 AM to 12:00 PM	61.7	73.3	67.3		
5	TATA Hitachi Zxix-220		03.02.2023	12:20 PM to 12:35 PM	60.4	71.9	65.9	75
	In Cabin	9919/13						
	On Load - In Cabin							
10Mtrs away	03.02.2023		01:00 PM to 01:15 PM	55.2	65.4	60.1		
6	Cat313D		03.02.2023	01:50 PM to 02:05 PM	61.8	76.9	68.9	75
	In Cabin	9919/14						
	On Load - In Cabin							
10Mtrs away	03.02.2023		02:35 PM to 02:50 PM	54.7	63.5	58.9		
7	Wheel loader-HM 2021		03.02.2023	04:15 PM to 04:30 PM	54.8	65.5	59.9	75
	In Cabin	9919/15						
	On Load - In Cabin							
10Mtrs away	03.02.2023		04:45 PM to 05:00 PM	54.3	66.4	60.0		
7			03.02.2023	05:10 PM to 05:25 PM	64.1	76.1	69.8	75



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Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in

Branch Office: Maakrupa Apartment, 2nd Floor, H. No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Nagar, Bangalore-560072



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TC-6224

ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Ubbalagandi)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sampling Method : STLPL/SOP/SP/01
6. Sampling Date : 03.02.2023
7. Date of Sampling Receipt : 04.02.2023
8. Date of analysis Started : 04.02.2023
9. ULR : TC622423000000079F
10. Test Report Number : STLPL/NM/SW/2023/02/79
11. Discipline : Chemical
12. Group : Water
13. Lab Code : 9919/23
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Colour	APHA 23 rd Edition-2120 B	Hazen	<5	300
2	pH	APHA 23 rd Edition-4500 B	--	7.2	6.5-8.5
3	Turbidity	APHA 23 rd Edition - 2130 B	NTU	1.8	--
4	Conductivity	APHA 23 rd Edition - 2510 B	µmhos/cm	754	--
5	Total Dissolved Solids	APHA 23 rd Edition-2540 C	mg/l	520	1500
6	Total Alkalinity as CaCO ₃	APHA 23 rd Edition - 2320 B	mg/l	204	--
7	Total Hardness as CaCO ₃	APHA 23 rd Edition - 2340 C	mg/l	222	--
8	Calcium as Ca	APHA 23 rd Edition - 3500 B	mg/l	76.00	--
9	Magnesium as Mg	APHA 23 rd Edition - 3500 B	mg/l	7.78	--
10	Sodium as Na	APHA 23 rd Edition - 3500 B	mg/l	61.05	--
11	Potassium as K	APHA 23 rd Edition - 3500 B	mg/l	7.92	--
12	Iron as Fe	APHA 23 rd Edition-4500 B	mg/l	0.14	--
13	Chlorides as Cl	APHA 23 rd Edition-4500 B	mg/l	98.97	600
14	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	41.08	400
15	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.17	50
16	Fluoride as F	APHA 23 rd Edition-4500 D	mg/l	0.21	1.50
17	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.17	--

K. Aidas

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K. Aidas



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ANALYSIS REPORT OF SURFACE WATER QUALITY

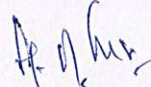
1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Ubbalagandi)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sampling Date : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Test Report Number : STLPL/NM/SW/2023/02/79
9. Discipline : Chemical
10. Group : Water
11. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Total Suspended Solids	APHA 23 rd Edition-3111B	mg/l	21	--
2	Biological Oxygen Demand	IS:3025(Part-44)1993	mg/l	1.8	3
3	Dissolved Oxygen as O ₂	IS:3025(Part-38)1993	mg/l	1.27	4
4	Oil & Grease	APHA 23 rd Edition-5520 B	mg/l	ND	--
5	Total Coli Form	IS: 1622:1981, RA 2009	MPN/100ml	19	500

Note: ND: Not Detected


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Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete – 583201, Ballari District, Karnataka,
Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

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ISO 14001:20
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ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Krishnanagar)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sampling Method : STLPL/SOP/SP/01
6. Sampling Date : 03.02.2023
7. Date of Sampling Receipt : 04.02.2023
8. Date of analysis Started : 04.02.2023
9. ULR : TC622423000000079F
10. Test Report Number : STLPL/NM/SW/2023/02/79
11. Discipline : Chemical
12. Group : Water
13. Lab Code : 9919/24
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Colour	APHA 23 rd Edition-2120 B	Hazen	<5	300
2	pH	APHA 23 rd Edition-4500 B	--	7.1	6.5-8.5
3	Turbidity	APHA 23 rd Edition -2130 B	NTU	2.2	--
4	Conductivity	APHA 23 rd Edition - 2510 B	µmhos/cm	795	
5	Total Dissolved Solids	APHA 23 rd Edition-2540 C	mg/l	550	1500
6	Total Alkalinity as CaCO ₃	APHA 23 rd Edition - 2320 B	mg/l	242	--
7	Total Hardness as CaCO ₃	APHA 23 rd Edition - 2340 C	mg/l	210	--
8	Calcium as Ca	APHA 23 rd Edition - 3500 B	mg/l	73.60	--
9	Magnesium as Mg	APHA 23 rd Edition - 3500 B	mg/l	6.32	--
10	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	57.48	--
11	Potassium as K	APHA 23 rd Edition -3500 B	mg/l	1.26	--
12	Iron as Fe	APHA 23 rd Edition-3500 B	mg/l	0.18	--
13	Chlorides as Cl	APHA 23 rd Edition-4500 B	mg/l	100.97	600
14	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	31.09	400
15	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.11	50
16	Fluoride as F	APHA 23 rd Edition-4500 D	mg/l	0.24	1.50
17	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.18	--

K. Aidas

Analysed by
K. Aidas



Shivashankaraiah.H.M

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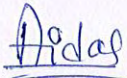
ISO 9001: 2015
ISO 14001:2015
ISO 45001:2018

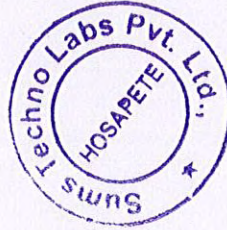
ANALYSIS REPORT OF SURFACE WATER QUALITY

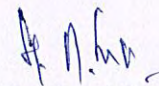
1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Krishnanagar)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sampling Date : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Test Report Number : STLPL/NM/SW/2023/02/79
9. Discipline : Chemical
10. Group : Water
11. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Total Suspended Solids	APHA 23 rd Edition-3111 B	mg/l	51	--
2	Biological Oxygen Demand	IS:3025(Part-44)1993	mg/l	2.0	3
3	Dissolved Oxygen as O ₂	IS:3025(Part-38)1993	mg/l	0.8	4
4	Oil & Grease	APHA 23 rd Edition-5520 B	mg/l	ND	--
5	Total Coli Form	IS:1622: 1981, RA 2009	MPN/100ml	48	500

Note: ND: Not Detected


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ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Bhujanganagar village)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sampling Method : STLPL/SOP/SP/01
6. Sampling Date : 03.02.2023
7. Date of Sampling Receipt : 04.02.2023
8. Date of analysis Started : 04.02.2023
9. ULR : TC622423000000079F
10. Test Report Number : STLPL/NM/SW/2023/02/79
11. Discipline : Chemical
12. Group : Water
13. Lab Code : 9919/25
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Colour	APHA 23 rd Edition-2120 B	Hazen	<5	300
2	pH	APHA 23 rd Edition-4500 B	--	7.83	6.5-8.5
3	Turbidity	APHA 23 rd Edition -2130 B	NTU	2.6	--
4	Conductivity	APHA 23 rd Edition-2510 B	µmhos/cm	710	
5	Total Dissolved Solids	APHA 23 rd Edition-2540 C	mg/l	490	1500
6	Total Alkalinity as CaCO ₃	APHA 23 rd Edition - 2320 B	mg/l	246	--
7	Total Hardness as CaCO ₃	APHA 23 rd Edition - 2340 C	mg/l	216	--
8	Calcium as Ca	APHA 23 rd Edition - 3500 B	mg/l	75.20	--
9	Magnesium as Mg	APHA 23 rd Edition - 3500 B	mg/l	6.80	--
10	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	42.8	--
11	Potassium as K	APHA 23 rd Edition -3500 B	mg/l	1.30	--
12	Iron as Fe	APHA 23 rd Edition-3500 B	mg/l	0.17	--
13	Chlorides as Cl	APHA 23 rd Edition-4500 B	mg/l	98.97	600
14	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	41.08	400
15	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.11	50
16	Fluoride as F	APHA 23 rd Edition-4500 D	mg/l	0.22	1.50
17	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.2	--

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit. ND: Not Detected

Aidas

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A. Shankar

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ANALYSIS REPORT OF SURFACE WATER QUALITY

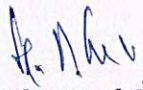
1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Nallha water (Near Bhujanganagar village)
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sampling Date : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Test Report Number : STLPL/NM/SW/2023/02/79
9. Discipline : Chemical
10. Group : Water
11. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Total Suspended Solids	APHA 23 rd Edition-3111 B	mg/l	46	--
2	Biological Oxygen Demand	IS:3025(Part-44)1993	mg/l	2.0	3
3	Dissolved Oxygen as O ₂	IS:3025(Part-38)1993	mg/l	1.2	4
4	Oil & Grease	APHA 23 rd Edition-5520 B	mg/l	ND	--
5	Total Coli Form	IS:1622: 1981, RA 2009	MPN/100ml	30	500

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit. ND: Not Detected


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ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Narihalla Water
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Sampling Method : STLPL/SOP/SP/01
6. Sampling Date : 03.02.2023
7. Date of Sampling Receipt : 04.02.2023
8. Date of analysis Started : 04.02.2023
9. ULR : TC622423000000079F
10. Test Report Number : STLPL/NM/SW/2023/02/79
11. Discipline : Chemical
12. Group : Water
13. Lab Code : 9919/26
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Colour	APHA 23 rd Edition-2120 B	Hazen	<5	300
2	pH	APHA 23 rd Edition-4500 B	--	7.49	6.5-8.5
3	Turbidity	APHA 23 rd Edition -2130 B	NTU	2.5	--
4	Conductivity	APHA 23 rd Edition - 2510 B	µmhos/cm	695	--
5	Total Dissolved Solids	APHA 23 rd Edition-2540 C	mg/l	480	1500
6	Total Alkalinity as CaCO ₃	APHA 23 rd Edition - 2320 B	mg/l	226	--
7	Total Hardness as CaCO ₃	APHA 23 rd Edition - 2340 C	mg/l	204	--
8	Calcium as Ca	APHA 23 rd Edition - 3500 B	mg/l	73.60	--
9	Magnesium as Mg	APHA 23 rd Edition - 3500 B	mg/l	4.86	--
10	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	35.7	--
11	Potassium as K	APHA 23 rd Edition -3500 B	mg/l	0.64	--
12	Iron as Fe	APHA 23 rd Edition-3500 B	mg/l	0.1	--
13	Chlorides as Cl	APHA 23 rd Edition-4500B	mg/l	100.97	600
14	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	19.99	400
15	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.37	50
16	Fluoride as F	APHA 23 rd Edition-4500 D	mg/l	0.21	1.50
17	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.19	--

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit. ND: Not Detected

K. Aidas

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K. Aidas



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ANALYSIS REPORT OF SURFACE WATER QUALITY

1. Name and Address of the Project : Donimalai Iron Ore Mine (M.L.No.2526),
Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Location : Narihalla Water
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Sampling Date : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Test Report Number : STLPL/NM/SW/2023/02/79
9. Discipline : Chemical
10. Group : Water
11. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS 2296:1982 Class C
1	Total Suspended Solids	APHA 23 rd Edition-3111 B	mg/l	35	--
2	Biological Oxygen Demand	IS:3025(Part-44)1993	mg/l	2.2	3
3	Dissolved Oxygen as O ₂	IS:3025(Part-38)1993	mg/l	1.8	4
4	Oil & Grease	APHA 23 rd Edition-5520 B	mg/l	ND	--
5	Total Coli Form (MPN/100ml)	IS:1622: 1981, RA 2009	MPN/100ml	31	500

Note: ND: Not Detected

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ANALYSIS REPORT OF GROUND WATER QUALITY

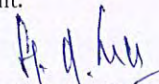
1. Name of the Location : W2-Bhujanganagar village (Bore well Water)
2. Name of the Project : Donimalai Iron Ore Mine (M.L.No.2526)
3. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Collection : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Sampling Method : APHA 23RD Edition - 1060 B
9. Discipline : Chemical
10. Group : Water
11. Test Report Number : SUMSTLPL/DIOM/GW/2023/02/79
12. ULR : TC622423000000079F
13. Lab Code : 9919/18
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS :10500:2012	
					DL	PL
1.	Colour	APHA 23 rd Edition -2120 B	Hazen	<5	5	15
2.	pH	APHA 23 rd Edition -4500 B	--	7.1	6.5-8.5	NR
3.	Turbidity	APHA 23 rd Edition -2130 B	NTU	0.5	1	5
4.	Conductivity	APHA 23 rd Edition- 2510 B	µmhos/cm	800	-	-
5.	Total Dissolved Solids	APHA 23 rd Edition -2540 C	mg/l	552	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition- 2320 B	mg/l	260	200	600
7.	Total Hardness as CaCO ₃	APHA 23 rd Edition- 2340 C	mg/l	232	200	600
8.	Calcium as Ca	APHA 23 rd Edition- 3500 B	mg/l	84.00	75	200
9.	Magnesium as Mg	APHA 23 rd Edition- 3500 B	mg/l	5.35	30	100
10.	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	54.26	-	-
11.	Potassium as K	APHA 23 rd Edition-3500 B	mg/l	1.96	-	-
12.	Iron as Fe	APHA 23 rd Edition -4500 B	mg/l	0.13	0.3	NR
13.	Chlorides as Cl	APHA 23 rd Edition -4500 B	mg/l	115.96	250	1000
14.	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	45.53	200	400
15.	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.11	45	NR
16.	Fluoride as F	APHA 23 rd Edition -4500 D	mg/l	0.26	1.0	1.5
17.	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.21	1.0	5.0

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.


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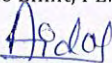
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ANALYSIS REPORT OF GROUND WATER QUALITY

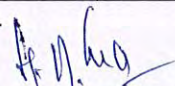
1. Name of the Location : W3-Taranagar village (Bore well Water)
2. Name of the Project : Donimalai Iron Ore Mine (M.L.No.2526)
3. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Collection : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Sampling Method : APHA 23RD Edition - 1060 B
9. Discipline : Chemical
10. Group : Water
11. Test Report Number : SUMSTLPL/DIOM/GW/2023/02/79
12. ULR : TC622423000000079F
13. Lab Code : 9919/19
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS: 10500:2012	
					DL	PL
1.	Colour	APHA 23 rd Edition -2120 B	Hazen	<5	5	15
2.	pH	APHA 23 rd Edition -4500 B	--	7.3	6.5-8.5	NR
3.	Turbidity	APHA 23 rd Edition -2130 B	NTU	0.5	1	5
4.	Conductivity	APHA 23 rd Edition- 2510 B	µmhos/cm	760	-	-
5.	Total Dissolved Solids	APHA 23 rd Edition -2540 C	mg/l	524	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition- 2320 B	mg/l	248	200	600
7.	Total Hardness as CaCO ₃	APHA 23 rd Edition- 2340 C	mg/l	220	200	600
8.	Calcium as Ca	APHA 23 rd Edition- 3500 B	mg/l	84.80	75	200
9.	Magnesium as Mg	APHA 23 rd Edition- 3500 B	mg/l	1.94	30	100
10.	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	61.404	-	-
11.	Potassium as K	APHA 23 rd Edition-3500 B	mg/l	2.26	-	-
12.	Iron as Fe	APHA 23 rd Edition -4500 B	mg/l	0.17	0.3	NR
13.	Chlorides as Cl	APHA 23 rd Edition -4500 B	mg/l	102.97	250	1000
14.	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	34.42	200	400
15.	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	1.55	45	NR
16.	Fluoride as F	APHA 23 rd Edition -4500 D	mg/l	0.27	1.0	1.5
17.	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.3	1.0	5.0

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.


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Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Ballari District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239,

E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in

Branch Office: Maakrupa Apartment, 2nd Floor, H. No-201, Near Baldwin School, Nagarabhavi Road, Kalyan Nagar, Bangalore-560072.

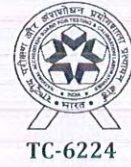


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ANALYSIS REPORT OF GROUND WATER QUALITY

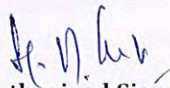
1. Name of the Location : Ranjitpur village (Bore well Water)
2. Name of the Project : Donimalai Iron Ore Mine (M.L.No.2526)
3. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Collection : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Sampling Method : APHA 23rd Edition - 1060 B
9. Discipline : Chemical
10. Group : Water
11. Test Report Number : SUMSTLPL/DIOM/GW/2023/02/79
12. ULR : TC622423000000079F
13. Lab Code : 9919/20
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS:10500:2012	
					DL	PL
1.	Colour	APHA 23 rd Edition -2120 B	Hazen	<5	5	15
2.	pH	APHA 23 rd Edition -4500 B	--	7.5	6.5-8.5	NR
3.	Turbidity	APHA 23 rd Edition -2130 B	NTU	0.3	1	5
4.	Conductivity	APHA 23 rd Edition - 2510 B	µmhos/cm	890	-	-
5.	Total Dissolved Solids	APHA 23 rd Edition -2540 C	mg/l	614	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition - 2320 B	mg/l	256	200	600
7.	Total Hardness as CaCO ₃	APHA 23 rd Edition - 2340 C	mg/l	290	200	600
8.	Calcium as Ca	APHA 23 rd Edition - 3500 B	mg/l	107.20	75	200
9.	Magnesium as Mg	APHA 23 rd Edition - 3500 B	mg/l	5.35	30	100
10.	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	54.26	-	-
11.	Potassium as K	APHA 23 rd Edition -3500 B	mg/l	2.30	-	-
12.	Iron as Fe	APHA 23 rd Edition -4500 B	mg/l	0.2	0.3	NR
13.	Chlorides as Cl	APHA 23 rd Edition -4500 B	mg/l	137.96	250	1000
14.	Sulphates as SO ₄	APHA 23 rd Edition -4500 B	mg/l	45.53	200	400
15.	Nitrates as NO ₃	APHA 23 rd Edition -4500 E	mg/l	6.08	45	NR
16.	Fluoride as F	APHA 23 rd Edition -4500 D	mg/l	0.34	1.0	1.5
17.	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.28	1.0	5.0

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.


Analysed by
K Aidas




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Shivashankaraiah.H.M

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TC-6224

ANALYSIS REPORT OF GROUND WATER QUALITY

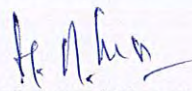
1. Name of the Location : Lingadahalli village (Bore well Water)
2. Name of the Project : Donimalai Iron Ore Mine (M.L.No.2526)
3. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Collection : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Sampling Method : APHA 23RD Edition - 1060 B
9. Discipline : Chemical
10. Group : Water
11. Test Report Number : SUMSTLPL/DIOM/GW/2023/02/79
12. ULR : TC622423000000079F
13. Lab Code : 9919/21
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS:10500:2012	
					DL	PL
1.	Colour	APHA 23 rd Edition -2120 B	Hazen	<5	5	15
2.	Ph	APHA 23 rd Edition -4500 B	--	7.5	6.5-8.5	NR
3.	Turbidity	APHA 23 rd Edition -2130 B	NTU	0.1	1	5
4.	Conductivity	APHA 23 rd Edition- 2510 B	µmhos/cm	880	-	-
5.	Total Dissolved Solids	APHA 23 rd Edition -2540 C	mg/l	608	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition- 2320 B	mg/l	260	200	600
7.	Total Hardness as CaCO ₃	APHA 23 rd Edition- 2340 C	mg/l	252	200	600
8.	Calcium as Ca	APHA 23 rd Edition- 3500 B	mg/l	88.00	75	200
9.	Magnesium as Mg	APHA 23 rd Edition- 3500 B	mg/l	7.78	30	100
10.	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	61.40	-	-
11.	Potassium as K	APHA 23 rd Edition-3500 B	mg/l	1.94	-	-
12.	Iron as Fe	APHA 23 rd Edition -4500 B	mg/l	0.15	0.3	NR
13.	Chlorides as Cl	APHA 23 rd Edition -4500 B	mg/l	142.96	250	1000
14.	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	46.64	200	400
15.	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.11	45	NR
16.	Fluoride as F	APHA 23 rd Edition -4500 D	mg/l	0.6	1.0	1.5
17.	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.31	1.0	5.0

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.


Analysed by
K Aidas




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TC-6224

ANALYSIS REPORT OF GROUND WATER QUALITY

1. Name of the Location : Ubbalagandi village (Bore well Water)
2. Name of the Project : Donimalai Iron Ore Mine (M.L.No.2526)
3. Name of the Client : M/s. Nadeem Minerals Pvt Ltd
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Collection : 03.02.2023
6. Date of Sampling Receipt : 04.02.2023
7. Date of analysis Started : 04.02.2023
8. Sampling Method : APHA 23RD Edition - 1060 B
9. Discipline : Chemical
10. Group : Water
11. Test Report Number : SUMSTLPL/DIOM/GW/2023/02/79
12. ULR : TC622423000000079F
13. Lab Code : 9919/22
14. Report Issued Date : 27.02.2023

Sl. No	Parameters	Protocol	Unit	Result	Standards As per IS:10500 :2012	
					DL	PL
1.	Colour	APHA 23 rd Edition -2120 B	Hazen	<5	5	15
2.	pH	APHA 23 rd Edition -4500 B	--	7.4	6.5-8.5	NR
3.	Turbidity	APHA 23 rd Edition -2130 B	NTU	0.3	1	5
4.	Conductivity	APHA 23 rd Edition- 2510 B	µmhos/cm	975	-	-
5.	Total Dissolved Solids	APHA 23 rd Edition -2540 C	mg/l	673	500	2000
6.	Total Alkalinity as CaCO ₃	APHA 23 rd Edition- 2320 B	mg/l	320	200	600
7.	Total Hardness as CaCO ₃	APHA 23 rd Edition- 2340 C	mg/l	280	200	600
8.	Calcium as Ca	APHA 23 rd Edition- 3500 B	mg/l	95.20	75	200
9.	Magnesium as Mg	APHA 23 rd Edition- 3500 B	mg/l	10.21	30	100
10.	Sodium as Na	APHA 23 rd Edition -3500 B	mg/l	68.54	-	-
11.	Potassium as K	APHA 23 rd Edition-3500 B	mg/l	2.58	-	-
12.	Iron as Fe	APHA 23 rd Edition -4500 B	mg/l	0.21	0.3	NR
13.	Chlorides as Cl	APHA 23 rd Edition -4500 B	mg/l	149.95	250	1000
14.	Sulphates as SO ₄	APHA 23 rd Edition-4500 B	mg/l	52.19	200	400
15.	Nitrates as NO ₃	APHA 23 rd Edition-4500 E	mg/l	3.88	45	NR
16.	Fluoride as F	APHA 23 rd Edition -4500 D	mg/l	0.4	1.0	1.5
17.	Boron as B	APHA 23 rd Edition -4500 B	mg/l	0.23	1.0	5.0

Note: DL: Desirable Limit, PL: Permissible Limit, NR: No Relaxation, BDL: Below Detectable Limit.

Aidas

Analysed by
K Aidas



Shivashankaraiah.H.M

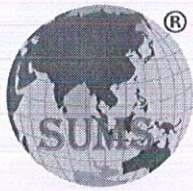
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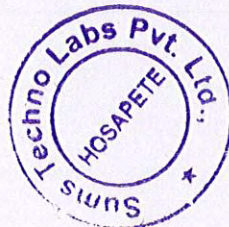
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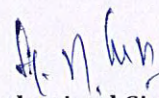
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

STATISTICAL AMBIENT AIR QUALITY DATA

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : CA1-Mining lease area
4. Sample Collected By : SUMS Techno Labs Private Limited,
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Report Issued Date : 27.02.2023

Month		PM ₁₀	PM _{2.5}	SO ₂	NO ₂
FEBRUARY- 2023	Min	74	30	8.7	9.6
	Max	85	44	11.4	11.7
	Average	78	35	9.9	10.5
	Standard Deviation	4.4	5.0	0.9	0.7
	Arithmetic Mean	79.0	36.3	9.9	10.6
	Geo Mean	78.9	36.0	9.8	10.5
No. of Observations		8			




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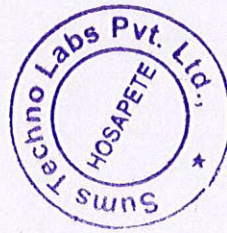
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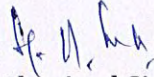
ISO 9001: 2015
ISO 14001:2015
ISO 45001:2018

STATISTICAL AMBIENT AIR QUALITY DATA

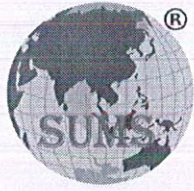
1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : BA2-Taranagar Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Report Issued Date : 27.02.2023

Month		PM ₁₀	PM _{2.5}	SO ₂	NO ₂
FEBRUARY- 2023	Min	50	23	7.2	8.6
	Max	67	37	10.3	10.7
	Average	60	30	9.0	9.9
	Standard Deviation	5.8	4.8	0.9	0.7
	Arithmetic Mean	59.0	30.1	9.0	9.9
	Geo Mean	58.7	29.8	8.9	9.9
No. of Observations		378			




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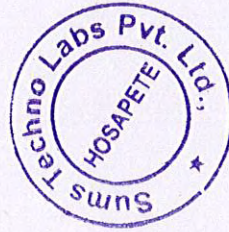
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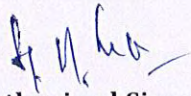
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

STATISTICAL AMBIENT AIR QUALITY DATA

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : BA3-Bhujanganagar Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Report Issued Date : 27.02.2023

Month		PM ₁₀	PM _{2.5}	SO ₂	NO ₂
FEBRUARY-2023	Min	51	22	7.3	8.6
	Max	63	36	10.2	10.9
	Average	56	29	8.8	9.8
	Standard Deviation	4.2	5.5	1.0	0.7
	Arithmetic Mean	57.0	29.3	8.8	9.9
	Geo Mean	56.9	28.8	8.9	9.8
No. of Observations		8			




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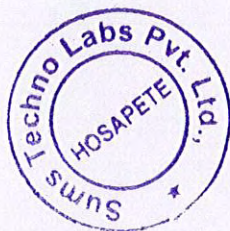
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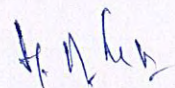
ISO 45001:2018

STATISTICAL AMBIENT AIR QUALITY DATA

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-Dist
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Lingadahalli Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Report Issued Date : 27.02.2023

Month		PM ₁₀	PM _{2.5}	SO ₂	NO ₂
FEBRUARY-2023	Min	49	23	7.1	8.0
	Max	65	32	10.2	10.6
	Average	57	26	8.6	9.5
	Standard Deviation	5.4	3.3	1.0	0.9
	Arithmetic Mean	57.0	27.1	8.6	9.5
	Geo Mean	56.8	27.0	8.6	9.5
No. of Observations		8			




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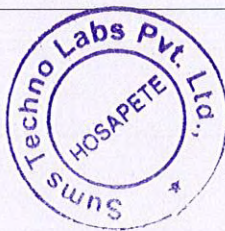
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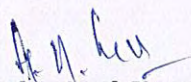
ISO 45001:2018

STATISTICAL AMBIENT AIR QUALITY DATA

1. Name and Address of the Customer : Donimalai Iron Ore Mine (M.L.No.2526), Taranagara Village, Sandur-Tq and Bellari-
2. Name of the client : M/s. Nadeem Minerals Pvt Ltd
3. Name of the Station : Ranjitpur Village
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
5. Season : WINTER SEASON (FEBRUARY-2023)
6. Report Issued Date : 27.02.2023

Month		PM ₁₀	PM _{2.5}	SO ₂	NO ₂
FEBRUARY-2023	Min	50	24	6.8	7.9
	Max	69	32	9.5	9.9
	Average	59	28	8.0	8.8
	Standard Deviation	7.3	2.9	0.9	0.7
	Arithmetic Mean	58.7	28.0	8.0	8.7
	Geo Mean	58.3	27.9	7.8	8.7
No. of Observations		8			




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Terms and conditions:

1. The test report shall not be reproduced in full or part without the written approval of SUMS Techno Labs.
2. Ores and minerals, Coal & Coke, and Soil samples shall be retained for a maximum period of three months from the issue of the test report.
3. Water samples will be retained 15 days from the date of issue of the test report.
4. The test results relate only to the items tested as received.
5. The testing activities are performed in permanent facility located at Hosapete.

End of the Test Report

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