



# Eco Tech Labs Pvt Ltd

NABET & NABL ACCREDITED AND MOEF & CC RECOGNISED LABORATORY  
ISO 9001:2015 and OHSAS-ISO 45001:2018 Certified Company



Plot No.48A, 2nd Main Road, Ram Nagar South Extension, Pallikaranal, Chennai - 600 100.  
Phone : 8144115515, 044-35692477, Email : info@ecotechlabs.in / lab@ecotechlabs.in, Website : www.ecotechlabs.in

NABL Accredited Testing Laboratory Vide Certificate No. TC-5937

## TEST REPORT

ULR No : TC59372400000502F

Report No : TRETLO224108

Report Date: 16.02.2024

Page 1 of 1

Name of the Client : M/s.Tamil Nadu Minerals Limited  
Address of the Project : Kodakkal SF No: 1193/1 ( P) B.G. Quarry , Kodakkal Village , Sholinghur Taluk, Ranipet District.  
Sample Name : Ambient Air Quality  
Sample Code : ETL0224140  
Sample Drawn By : Eco Tech Labs P.Ltd  
Sampling Plan & Procedure : ETL/QAD/SOP/09  
Sample Location : Phase -1, Working Pit  
Customer Reference : -  
Sample Description : Ambient air  
Sample Condition : -  
Sampling date : 07.02.2024  
Received date : 08.02.2024  
Commenced on : 08.02.2024  
Completed on : 14.02.2024

### I.CHEMICAL TESTING

#### 1. Atmospheric Pollution

S.No	Parameters	Test Method	Results	Units	NAAQ Standards: 2009	
1	Sulphur Dioxide	IS: 5182 (P- 2) 2001(RA:2012)	12.5	µg/m <sup>3</sup>	80 (24 Hours)	50 (Annual)
2	Oxides of Nitrogen	IS: 5182 (P- 6) :2006(RA :2012)	19.6	µg/m <sup>3</sup>	80 (24 Hours)	40 (Annual)
3	Respirable Suspended Particulate Matter (PM10)	IS: 5182 (P-23) :2006(RA:2012)	53.9	µg/m <sup>3</sup>	100 (24 Hours)	60 (Annual)
4	Particulate Matter (PM 2.5)	ETL/CHL/SOP/001	26.8	µg/m <sup>3</sup>	60 (24 Hours)	40 (Annual)
5	Carbon monoxide	ETL/CHL/IOP/029	BQL(LOQ:1.15)	mg/m <sup>3</sup>	4 (1 Hour)	2 (8 hours)
6	Lead	IS: 5182 (P- 22) :2004(RA:2014)	BQL(LOQ :0.025)	µg/m <sup>3</sup>	1 (24 Hours)	0.5 (Annual)
7	Ozone	IS: 5182 (P- 9) :1974(RA:2009)	BQL(LOQ :10)	µg/m <sup>3</sup>	180 (1 Hour)	100 (8 Hours)
8	Ammonia	ETL/CHL/SOP/002	BQL (LOQ: 5)	µg/m <sup>3</sup>	400 (24 Hours)	100 (Annual)
9	Benzene	IS: 5182 (P- 11) :2006(RA:2012)	BQL(LOQ :0.5)	µg/m <sup>3</sup>	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	IS: 5182 (P-12) :2004(RA:2014)	BQL (LOQ: 0.5)	ng/m <sup>3</sup>	1 (Annual)	1 (Annual)
11	Arsenic	ETL/INS/SOP/002	BQL (LOQ: 1)	ng/m <sup>3</sup>	6 (Annual)	6 (Annual)
12	Nickel	USEPA IO - 3.2	BQL (LOQ: 2.5)	ng/m <sup>3</sup>	20 (Annual)	20 (Annual)

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

\*\*\*End of Report\*\*\*



Authorised Signatory - Chemical

*S. Kokila*  
S. Kokila  
Lab Manager

- The report in the full or part original shall not be used for any promotional or publicity purpose without written consent by Eco Tech Labs Pvt Ltd.
- Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report.
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## TEST REPORT

ULR No : TC59372400000503F

Report No : TRETLO224109

Report Date: 16.02.2024

Page 1 of 1

Name of the Client : M/s.Tamil Nadu Minerals Limited  
Address of the Project : Kodakkal SF No: 1193/1 ( P ) B.G. Quarry , Kodakkal Village , Sholinghur Taluk, Ranipet District.  
Sample Name : Stack Emission  
Sample Code : ETL0224141  
Sample Drawn By : Eco Tech Labs P.Ltd  
Sampling Plan & Procedure : ETL/QAD/SOP/10  
Sample Location : (125 KVA)- Phase -1  
Customer Reference : -  
Sample Description : DG Stack  
Sample Condition : -  
Sampling date : 07.02.2024  
Received date : 08.02.2024  
Commenced on : 08.02.2024  
Completed on : 14.02.2024

### I.CHEMICAL

#### 1. Atmospheric Pollution

S.No	Parameters	Test Method	Results	Units	MoEF Standards
1	Particulate Matter	IS: 11255 (P -1) 1985 (RA:2014)	0.101	g/kw-hr	≤ 0.2
2	Sulphur Dioxide	IS: 11255 (P -2) 1985 (RA:2014)	0.124	g/kw-hr	-
3	Oxides of Nitrogen	IS:11255 (P -7) 2005 (RA :2012)	0.745	g/kw-hr	-
4	Carbon monoxide	IS : 13270: 1992 (RA : 2009)	BQL(LOQ:0.03)	g/kw-hr	≤ 3.5
5	Flow Rate	IS: 11255 (P -3) (RA:2003)	422	Nm3/hr	-

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## TEST REPORT

ULR No :TC59372400000504F

Report No :TRETLO224110

Report Date: 16.02.2024

Page 1 of 1

Name of the Client : M/s.TamilNadu Minerals Limited

Address of the Project : Kodakkal SF No: 1193/1 ( P) B.G. Quarry , Kodakkal Village , SholinghurTaluk, Ranipet District.

Sample Name : Noise Monitoring

Sample Code :ETL0224142to ETL0224146

Sample Description : Ambient Noise

Sample Drawn By : Eco Tech Labs P.Ltd

Sample Condition : -

Sampling Procedure : ETL/CHL/IOP/035

Sampling date : 07.02.2024

Customer Reference : -

Received date : 08.02.2024

### I.CHEMICAL TESTING

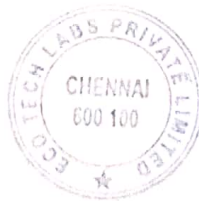
#### 1. Atmospheric Pollution

S.No	Location	Time (hrs)	Day Time
			Noise level in dB (A)
1	Phase -1 DrillingArea	14.00	54.8
2	Phase -1 Cutting Area	14.30	52.4
3	Phase -2 Dressing Area	15.00	53.1
4	Phase -2 Stock Area	15.30	50.6
5	Site Office	16.00	51.7

#### CPCB Limits:

- i) Industrial Area : Day Time - 75 dB (A); Night Time - 70 dB(A)
- ii) Commercial Area : Day Time - 65 dB (A); Night Time - 55 dB(A)
- iii) Residential Area : Day Time - 55 dB (A); Night Time - 45 dB(A)
- iv) Silence Zone : Day Time - 50 dB (A); Night Time - 40 dB(A)
- v) Working Zone : Day Time - 90 dB (A)

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## TEST REPORT

ULR No : TC59372400000505F

Report No : TRETLO224111

Report Date: 16.02.2024

Page 1 of 1

Name of the Client : M/s.Tamil Nadu Minerals Limited  
Address of the Project : Kodakkal SF No: 1193/1 ( P ) B.G. Quarry , Kodakkal Village , Sholinghur Taluk, Ranipet District.  
Sample Name : Soil  
Sample Code : ETL0224147  
Sample Drawn By : Eco Tech Labs P.Ltd  
Sampling Plan & Procedure : ETL/QAD/SOP/08  
Sample Location : Phase -2  
Customer Reference : -

Sample Description : -  
Sample Condition : Good  
Sampling date : 07.02.2024  
Received date : 08.02.2024  
Commenced on : 08.02.2024  
Completed on : 14.02.2024

### I.CHEMICAL TESTING

#### 1. Pollution and Environment

S.No	Parameters	Test Method	Results	Units
1	pH (at 25°C)	IS:2720 (P-26) 1987,RA:2011	7.98	-
2	Electrical Conductivity	IS:14767,2000	0.22	mS/cm
3	Water Content	IS 2720(Part 2):1973 RA 2010	1.35	%
4	Chloride	FAO 2007	26.9	mg/kg
5	Calcium as Ca	FAO 2007	32.2	mg/kg
6	Sodium	FAO 2007	320	mg/kg
7	Available Potassium	FAO 2007	169	mg/kg
8	Organic Matter	IS:2720 (P-22) 1972, RA:2010	0.62	%
9	Magnesium as Mg	FAO 2007	13.5	mg/kg
10	Total Soluble Sulphates	IS:2720 (P-27) 1977RA:2010	124	mg/kg
11	Cation Exchange Capacity	IS:2720 (P-24) 1976;RA:2010	20.2	meq/100g
12	Carbonate	FAO 2007	NIL	mg/kg
13	Bicarbonate	FAO 2007	489	mg/kg

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## TEST REPORT

ULR No :TC59372400000506F

Report No : TRETLO224112

Report Date:16.02.2024

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Name of the Client : M/s.Tamil Nadu Minerals Limited  
Address of the Project : Kodakkal SF No: 1193/1 ( P ) B.G. Quarry , Kodakkal Village , Sholinghur Taluk, Ranipet District.

Sample Name : Water  
Sample Code : ETL0224148  
Sample Description : Drinking Water  
Sample Drawn By : Eco Tech Labs P.Ltd  
Sample Condition : Good  
Sampling Plan & Procedure : ETL/QAD/SOP/07  
Sampling date : 07.02.2024  
Sample Location : Phase -1  
Received date : 08.02.2024  
Customer Reference : -  
Commenced on : 08.02.2024  
Completed on : 14.02.2024

### I.CHEMICAL TESTING

#### 1. Water

S.No	Parameters	Test Method	Results	Units	Permissible Limits for Drinking Water as per IS: 10500:2012
1	pH (at 25°C)	IS:3025(P -11)1983 RA: 2012	7.51	-	6.5-8.5
2	Electrical Conductivity	IS:3025(P -14) 2013	479	µS/cm	-
3	Colour	IS:3025 (P -4)1983 RA: 2012	2	Hazen Unit	Max 15
4	Turbidity	IS:3025(P -10)1984 RA: 2012	BQL(LOQ:1)	NTU	Max 5
5	Total Dissolved Solids	APHA 23 <sup>rd</sup> Edn.2017-2540-C	271	mg/L	Max 2000
6	Total Suspended Solids	IS:3025(P-17)-1984 RA:2012	BQL(LOQ:2)	mg/L	-
7	Total Hardness as CaCO <sub>3</sub>	APHA 23 <sup>rd</sup> Edn.2017-2340-C	182	mg/L	Max 600
8	Calcium as Ca	APHA 23 <sup>rd</sup> Edn2017.3500 Ca-B	35.9	mg/L	Max 200
9	Magnesium as Mg	APHA 23 <sup>rd</sup> Edn.2017-3500 Mg-B	22.4	mg/L	Max 100
10	Chloride as Cl	IS:3025(P -32)-1988 RA: 2014	19.2	mg/L	Max 1000
11	Sulphate as SO <sub>4</sub>	APHA 23 <sup>rd</sup> Edn.2017-4500 SO <sub>4</sub> -E	16.8	mg/L	Max 400
12	Total Alkalinity as CaCO <sub>3</sub>	APHA 23 <sup>rd</sup> Edn.2017-2320-B	181	mg/L	Max 600
13	Iron as Fe	IS:3025(P -53):2003 RA: 2014	BQL(LOQ:0.1)	mg/L	1.0
14	Silica as SiO <sub>2</sub>	IS:3025(P -35)1988 RA: 2014	39.8	mg/L	-

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