

ENVIRONMENTAL MONITORING REPORT

Project	HADDINAPADE IRON ORE MINE (ML No. 2516)
Location	Kumaraswamy Range, Sandur Taluk, Ballari Dist.,
Client	M/s. BKG MINING PVT. LTD.,
Office Address	# 2198, BKG House, KHB Colony, Sandur Taluk, Ballari Dist
Monitoring Season	Winter, 2025-26 (December, 2025 to February -2026)

ENVIRONMENTAL LABORATORY **(Unit of Mineral Engineering Services LLP)**

Recognised by MoEF&CC Under E(P) Act 1986

&

Accredited by NABL

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.	
1	Test Report of Air Quality	December, 2025	1 to 6
		January, 2026	7 to 12
		February, 2026	13 to 18
2	Statistical Air Quality Data	19	
3	Noise Level Data	20 to 22	
4	Water Test Report As per IS 2296	23 to 25	
5	Water Test Report As per IS 10500	26 to 29	
6	Soil test Report	30	

**ENVIRONMENTAL MONITORING FOR HADDINAPADE IRON ORE
MINE (ML NO. 2516), KUMARASWAMY RANGE, SANDUR TALUK,
BALLARI DIST,OF M/s.. BKG MINING PVT. LTD ,
SANDUR, BALLARI DIST.
Winter Season, 2025-26
9December, 2025 to February, 2026)**

1.0 INTRODUCTION:

The subject mine is an ongoing mechanized mine. The iron ore produced from this mine is sold for internal consumption within India.

As per the guidelines issued by the Chief Controller of Mines, IBM, Nagpur and Ministry of Environment & Forests / Central Pollution Control Board, Govt. of India environmental monitoring is to be carried out for all the mines. Therefore, the work was entrusted to M/s. Mineral Engineering Services, Bangalore having a recognized environmental laboratory by MoEF&CC,, GOI, New Delhi to carry out environmental quality monitoring in respect of ambient & fugitive air quality, noise level data, surface & ground water test report and soil test report, for Winter season, 2025-26.

2.0 AIR ENVIRONMENT:

In order to assess the quality of air environment within the buffer zone of 10 kms radius nine monitoring stations were setup. Out of these four stations represent buffer zone villages and one station represent core zone i.e., ML area for Ambient Air Quality as per NAAQS. four stations represent the fugitive mining operations for Particulate Matter (PM). The air quality data is given vide **Table Nos. 1 to 18**. Statistical air quality data for SO₂, NO₂, PM₁₀ & PM_{2.5} & PM are given vide **Table No.19**. From the analysis report it can be seen that the air quality levels at all stations are within the permissible limits.

The details of Distance & Direction are furnished below:

LOCATION OF AIR MONITORING STATIONS

Code No	Stations	From Mine	
		Distance (KM)	Direction
AI	Core zone MI Area	--	--
AII	Dharmapur	3.00	N
AIII	Yeshwanthanagar	3.50	SW
AIV	Subbarayanahalli	1.50	S
AV	Nandihalli	1.70	E
AVI	Loading point	--	--
AVII	Dumping point	--	--
AVIII	Haulage Road	--	--
AIX	Screening Plant	--	--
AX	Crusher Plant	--	--

3.0 NOISE ENVIRONMENT:

Noise levels were monitored at four buffer zone villages and one core zone station located at Mines office. In addition Source noise levels were monitored covering mining operations and HEM machinery. The above monitored results were tabulated after calculating Day equivalent and Night equivalent and reported in the table enclosed vide **Table No.20 to 22**. From the monitoring data it is found that the values were within the permissible limits as per the CPCB norms and ILO Code of Practice

4.0 WATER ENVIRONMENT:

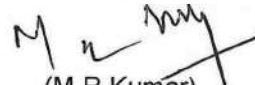
In order to assess the quality of water within the buffer zone of 10 kms radius surface & ground water samples were collected and analyzed

The test report show that the surface & ground water samples were well within the permissible limits. The test reports are given vide **Table No.23 to 29**

5.0 SOIL ENVIRONMENT:

5 soil samples were collected to assess the quality of soil in different land uses. The tests were conducted to know mainly the fertility status of the soil within the buffer zone of 10 kms radius. The analysis results show that the soil is fertile in nature and suitable for agriculture purpose. The analysis results are given vide **Table No. 30**.

For MINERAL ENGINEERING SERVICES


(M R Kumar)
Manager

Date: 02.03.2026



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 23.05.2028

TEST REPORT

Table No.1

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AI - Core Zone (ML Area)				
Duration	: 24 Hrs				
Issue date	: 02.01.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
05.12.2025	N011425121	10	11	47	26
06.12.2025	N003325122	12	15	40	24
12.12.2025	N028225122	8	10	43	21
13.12.2025	N00222523	12	14	54	30
15.12.2025	N00762523	11	15	38	20
16.12.2025	N01282523	13	18	46	24
24.12.2025	N019525124	7	11	50	28
25.12.2025	N024025124	9	10	57	32
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiyakousar
ARSHIYAKOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: All - Dharmapura				
Duration	: 24 Hrs				
Issue date	: 02.01.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
05.12.2025	N010825121	11	13	56	27
06.12.2025	N002725122	10	15	50	20
12.12.2025	N027625122	13	18	47	23
13.12.2025	N00162523	8	10	46	25
15.12.2025	N00752523	11	13	55	29
16.12.2025	N01272523	8	15	58	32
24.12.2025	N019325124	12	17	51	27
25.12.2025	N023625124	11	13	39	27
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIII - Yeshwanthanagar				
Duration	: 24 Hrs				
Issue date	: 02.01.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
05.12.2025	N009425121	9	11	56	32
06.12.2025	N001425122	12	16	40	22
08.12.2025	N010325122	7	14	50	27
09.12.2025	N017325122	9	12	56	30
15.12.2025	N00672523	8	15	40	20
16.12.2025	N01192523	10	11	52	28
22.12.2025	N007725124	12	17	46	29
23.12.2025	N013525124	10	13	49	26
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIV - Subbarayanahalli				
Duration	: 24 Hrs				
Issue date	: 02.01.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
05.12.2025	N009325121	9	12	54	27
06.12.2025	N001325122	11	15	44	24
08.12.2025	N010225122	8	12	58	32
09.12.2025	N017225122	12	18	55	28
15.12.2025	N00662523	9	15	50	26
16.12.2025	N01182523	11	13	47	23
22.12.2025	N007625124	12	15	44	20
23.12.2025	N013425124	11	13	53	25
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiyahousar
ARSHIYAHOUSAR
Dy TM - Chemical
Govt Analyst/Audited Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AV - Nandihalli				
Duration	: 24 Hrs				
Issue date	: 02.01.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
03.12.2025	N003225121	7	12	51	28
04.12.2025	N006325121	11	14	45	24
10.12.2025	N024025122	13	18	56	30
11.12.2025	N025625122	9	10	50	26
17.12.2025	N01692523	10	14	41	22
18.12.2025	N01882523	11	17	53	27
26.12.2025	N027725124	10	12	46	24
27.12.2025	N000325125	7	9	50	26
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya K DUSAR
ARSHIYA K DUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 6

Fugitive Emission

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,		
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)		
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Duration	: 08 Hrs		
Issue Date	: 02.01.2026		
Code & Station	Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
FE1- Loading Point	05.12.2025	N011525121	285
	12.12.2025	N028325122	367
FE2 - Dumping Point	06.12.2025	N003425122	452
	13.12.2025	N00232523	375
FE3 - Haulage Road	05.12.2025	N011625121	463
	15.12.2025	N00772523	375
FE4 - Screening plant	06.12.2025	N003525122	425
	16.12.2025	N01292523	333
FE5 - Crushing plant	05.12.2025	N011725121	482
	16.12.2025	N01302523	396
Ref : As per CFO in Annexure - II issued KSPCB			Particulate Mater ($\mu\text{g}/\text{m}^3$)
Permissible limits for Fugitive Emissions			600 $\mu\text{g}/\text{m}^3$

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax: 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No.7

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AI - Core Zone (ML Area)				
Duration	: 24 Hrs				
Issue date	: 02.02.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
05.01.2026	N011926012	14	18	52	28
06.01.2026	N015826012	7	11	45	25
16.01.2026	N027626013	11	14	58	32
17.01.2026	N001126014	9	13	51	28
19.01.2026	N005326014	8	12	47	24
20.01.2026	N008726014	9	13	54	29
28.01.2026	N018626015	10	12	49	26
29.01.2026	N023626015	14	18	40	22
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 8

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: All - Dharmapura				
Duration	: 24 Hrs				
Issue date	: 02.02.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
05.01.2026	N011826012	11	13	47	23
06.01.2026	N015726012	9	11	49	25
16.01.2026	N027226013	7	12	53	28
17.01.2026	N000726014	12	15	45	22
19.01.2026	N005026014	14	18	47	26
20.01.2026	N008526014	11	13	56	32
28.01.2026	N018226015	9	15	52	28
29.01.2026	N023226015	10	12	43	24
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No.9

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIII - Yeshwanthanagar				
Duration	: 24 Hrs				
Issue date	: 02.02.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
09.01.2026	N027826012	13	18	52	29
10.01.2026	N001926013	12	16	49	27
12.01.2026	N008226013	11	14	54	28
13.01.2026	N014926013	7	11	45	23
23.01.2026	N020426014	9	13	51	27
24.01.2026	N001526015	10	15	53	29
26.01.2026	N007726015	13	18	47	24
27.01.2026	N013026015	9	13	41	21
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Anshiya Kousar
ANSHIYA KOUSAR
Dy TIA - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969. Tel/fax : 25432968: E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 10

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIV - Subbarayanahalli				
Duration	: 24 Hrs				
Issue date	: 02.02.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
09.01.2026	N027426012	9	14	58	32
10.01.2026	N001526013	12	18	43	22
12.01.2026	N007826013	10	15	55	28
13.01.2026	N014526013	9	12	41	26
23.01.2026	N020026014	7	14	50	29
24.01.2026	N001126015	9	11	48	26
26.01.2026	N007326015	10	13	39	22
27.01.2026	N012626015	9	11	52	27
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya K DUSAR
ARSHIYA K DUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 11

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AV - Nandihalli				
Duration	: 24 Hrs				
Issue date	: 02.02.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
07.01.2026	N022326012	12	16	47	25
08.01.2026	N026826012	10	14	54	28
16.01.2026	N030726013	8	12	55	30
17.01.2026	N004226014	10	15	42	22
21.01.2026	N015226014	7	11	50	26
22.01.2026	N019426014	9	13	54	28
28.01.2026	N022426015	10	12	48	25
29.01.2026	N027526015	9	14	51	27
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 12

Fugitive Emission

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,		
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)		
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Duration	: 08 Hrs		
Issue Date	: 02.02.2026		
Code & Station	Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
FE1- Loading Point	17.01.2026	N001226014	356
	20.01.2026	N008826014	425
FE2 - Dumping Point	17.01.2026	N001326014	475
	20.01.2026	N008926014	435
FE3 - Haulage Road	16.01.2026	N027726013	485
	19.01.2026	N005426014	512
FE4 - Screening plant	16.01.2026	N027826013	496
	19.01.2026	N005526014	385
FE5 - Crushing plant	16.01.2026	N030926013	475
	19.01.2026	N005626014	524
Ref : As per CFO in Annexure - II issued KSPCB			
Permissible limits for Fugitive Emissions			Particulate Mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$

Arshiyakousar
ARSHIYAKOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No.13

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AI - Core Zone (ML Area)				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
Sampling & Test Method : IS : 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.02.2026	N012626021	11	16	48	28
07.02.2026	N003626022	10	14	57	33
13.02.2026	N030826022	6	10	44	23
14.02.2026	N001126023	10	13	53	30
16.02.2026	N005426023	11	16	49	27
17.02.2026	N009826023	8	11	39	20
25.02.2026	N022026024	11	14	40	23
26.02.2026	N025926024	10	17	51	28
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiyakumar
ARSHIYAKUMAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 14

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: All - Dharmapura				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
06.02.2026	N012026021	7	11	50	28
07.02.2026	N003026022	10	13	40	21
13.02.2026	N030426022	13	18	57	30
14.02.2026	N000726023	11	15	55	27
16.02.2026	N004826023	9	13	48	25
17.02.2026	N009426023	10	14	45	24
25.02.2026	N021626024	14	17	50	28
26.02.2026	N025526024	12	15	56	32
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiyaa Kojisar
ARSHIYAA KOJISAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail: mesbng@gmail.com, www.envttest.in



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 23.05.2028

TEST REPORT

Table No. 15

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIII - Yeshwanthanagar				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
06.02.2026	N010926021	10	14	48	25
07.02.2026	N002026022	14	17	56	32
09.02.2026	N011126022	12	15	52	27
10.02.2026	N017726022	10	14	47	25
20.02.2026	N019626023	13	16	50	30
21.02.2026	N000926024	11	13	56	32
23.02.2026	N007926024	12	18	43	25
24.02.2026	N014926024	10	13	49	28
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 16

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIV - Subbarayanahalli				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
06.02.2026	N010526021	6	9	36	21
07.02.2026	N001626022	9	13	46	25
09.02.2026	N010726022	11	16	53	28
10.02.2026	N017326022	13	18	57	30
20.02.2026	N019226023	8	15	50	28
21.02.2026	N000526024	10	13	44	23
23.02.2026	N007526024	7	11	37	21
24.02.2026	N014526024	10	14	52	28
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya K DUSAR
ARSHIYA K DUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone: 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 17

AMBIENT AIR QUALITY

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)				
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AV - Nandihalli				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
Sampling & Test Method	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	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)
04.02.2026	N007526021	12	15	49	28
05.02.2026	N009926021	14	18	53	30
11.02.2026	N026426022	11	13	39	19
12.02.2026	N029626022	9	11	46	25
18.02.2026	N015726023	12	13	50	30
19.02.2026	N018526023	10	15	55	33
25.02.2026	N024626024	9	12	48	28
26.02.2026	N028526024	12	17	37	19
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Handwritten signature

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com; www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 18

Fugitive Emission

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,		
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)		
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Duration	: 08 Hrs		
Issue Date	: 02.03.2026		
Code & Station	Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
FE1- Loading Point	14.02.2026	N001226023	368
	17.02.2026	N009926023	457
FE2 - Dumping Point	14.02.2026	N001326023	475
	17.02.2026	N010026023	461
FE3 - Haulage Road	13.02.2026	N030926022	475
	16.02.2026	N005526023	399
FE4 - Screening plant	13.02.2026	N031026022	468
	16.02.2026	N005626023	512
FE5 - Crushing plant	13.02.2026	N031126022	428
	16.02.2026	N005726023	533
Ref : As per CFO in Annexure - II issued KSPCB			
Permissible limits for Fugitive Emissions			Particulate Mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$

Anoop Housal
ARCHITECT
By T.N. Chinnai
Central Analytical Laboratory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 19

STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. BKG Mining Pvt. Ltd.,												
Name of the Project : Haddinapade Iron Ore Mine (ML No. 2516)												
Season : Winter Season, 2025-26												
Month : December, 2025 to February, 2026												
Code & Station	AI - Core Zone (ML Area)				AII - Dharmapura				AIII - Yeshwanthanagar			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	6	9	36	18	6	9	34	18	6	10	34	21
10%	7	10	39	19	7	10	39	21	7	11	42	22
25%	9	11	40	23	9	12	42	23	9	12	45	24
50%	10	13	49	26	10	13	47	25	10	14	49	26
75%	11	14	52	28	11	15	52	28	12	16	52	28
98%	14	18	58	33	14	18	57	32	14	18	56	32
Max.	14	18	58	33	14	18	57	32	14	18	56	32
Avg.	10	13	47	26	10	13	47	25	10	14	48	26
SD	2	3	7	4	2	3	7	4	2	3	6	3
No. of obs	24				24				24			
Code & Station	AIV - Subbarayanahalli				AV - Nandihalli							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	6	9	33	21	7	9	32	18				
10%	7	9	38	22	7	10	40	20				
25%	9	11	43	23	9	11	45	25				
50%	10	13	49	26	10	13	49	27				
75%	11	14	52	28	11	15	52	28				
98%	13	18	58	32	13	18	55	32				
Max.	13	18	58	32	14	18	55	33				
Avg.	10	13	48	26	10	13	48	26				
SD	2	3	7	3	2	3	6	4				
No. of obs	24				24							

Arshiyakumar
ARSHIYAKUMAR
Dy TM - Chemist
Govt Analyst/Assistant Analyst

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 20

AMBIENT NOISE LEVEL DATA

Report No : ELMES026107

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,		
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)		
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,		
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Particulars of Sample collected		: Sound levels		
Issue Date		: 02.02.2026		
Sampling		: IS : 9989 & CPCB Guidelines		
Code No.	Monitoring stations	Date of Monitoring	Day L _{eq}	Night L _{eq}
Buffer zone				
N1	Dharmapura	19.01.2026	51.6	42.8
N2	Yeshwanthanagar	20.01.2026	51.4	43.5
N3	Subbarayanahalli	20.01.2026	50.5	42.1
N4	Nandihalli	19.01.2026	47.8	40.0
Corezone		Date of Monitoring	Day	Night
N5	Core zone (Mines office)	16.01.2026	58.9	52.2
N6	Haulage Road	16.01.2026	55.4	During operation
N7	Mobile Screening Plant	16.01.2026	61.1	During operation
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines				
Leq. Limit dB(A)				
		Day	Night	
	Industrial areas	75	70	
	Commercial area	65	55	
	Residential area	55	45	


 ARSHIYA KUSAR
 Dy TM - Chemical
 Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 21

NOISE LEVEL DATA

Report No : ELMES026108

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of Sample collected	: Sound levels
Issue Date	: 02.02.2026
Sampling	: IS : 9989 & CPCB Guidelines

Heavy Earth Moving Machineries

Code No.	Monitoring stations	Date of Monitoring	Day	Remarks
			L _{eq}	
N8	Tata Hitachi Laxis 370 MTA	17.01.2026	60.4	During operation 10mts outside of the cabin
			61.2	During operation inside of the cabin
N9	Cat Pillar 323D3 No. 5	17.01.2026	61.0	During operation 10mts outside of the cabin
			65.0	During operation inside of the cabin
N10	Wheel Loader Cat - 950L	17.01.2026	61.0	During operation 10mts outside of the cabin
			67.0	During operation inside of the cabin with AC

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

Worker not to be exposed for more than 115 dB(A)

With ear protection -

130 dB(A) 'Impulse' or 120 dB(A) 'Fast'

No entry when noise level exceeds 140 dB(A)

Arshiya Housar
ARSHIYA HOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028


TEST REPORT

Table No. 22

AMBIENT NOISE LEVEL DATA

Report No : ELMES026205

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,		
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)		
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,		
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Particulars of Sample collected		: Sound levels		
Issue Date		: 02.03.2026		
Sampling		: IS : 9989 & CPCB Guidelines		
Code No.	Monitoring stations	Date of Monitoring	Day L _{eq}	Night L _{eq}
Buffer zone				
N1	Dharmapura	14.02.2026	49.9	42.7
N2	Yeshwanthanagar	16.02.2026	50.9	42.4
N3	Subbarayanahalli	16.02.2026	47.9	41.7
N4	Nandihalli	16.02.2026	45.2	39.7
Corezone				
N5	Core zone (Mines office)	14.02.2026	56.8	44.6
N6	Haulage Road	14.02.2026	59.7	During operation
N7	Mobile Screening Plant	14.02.2026	67.4	During operation
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines				
Leq. Limit dB(A)				
		Day	Night	
	Industrial areas	75	70	
	Commercial area	65	55	
	Residential area	55	45	


 ARSHIYA KOUSAR
 Dy TM - Chemical
 Govt Analyt/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 23

Name of the Client	: M/s. BKG Mining Pvt. Ltd.,					
Name of the Project	: Haddinapade Iron Ore Mine (ML No. 2516)					
Location	: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Nature of sample	: Surface water					
Sample Location	: SW1 - Hari Shankar Spring Water, SW2 - Nari Halla Nallah water SW3 - Hulikunta kere water					
Issue Date	: 02.01.2026					
Ref : IS : 2296 Water Quality Standards						
Date of sample collection	10.12.2025	13.12.2025	10.12.2025	Limits	Method of Testing	
Date of sample receipt	11.12.2025	15.12.2025	11.12.2025			
Report No	M006625122	M00072523	M006825122			
Sample Code	SW1	SW2	SW3			
Sl.No.	Parameters	Results				
1	Colour (Hazen Units)	1	10	10	300	IS 3025 (Part 4) 2021
2	pH	6.80	7.48	7.45	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.80	5.40	5.70	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	36	75	62	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	76	756	340	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	26.0	210.0	40.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	6.0	80.0	48.0	400	APHA (24th Edition) :4110B
9	Nitrates (as NO ₃),mg/l	4.60	31.60	24.30	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.35	0.72	0.62	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l,	<0.03	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023
Note : Class-C: Drinking water with conventional treatment followed by disinfection.						

""END OF REPORT""

BINU MANI

TM - Microbiology
Govt Analyst/Authorised Signatory

ARSHIYA KOUSAR

Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 24

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)				
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Nature of sample		: Surface water				
Sample Location		: SW1 - Hari Shankar Spring Water, SW2 - Nari Halla Nallah water SW3 - Hulikunta kere water				
Issue Date		: 02.02.2026				
Ref : IS : 2296 Water Quality Standards						
Date of sample collection		10.01.2026	16.01.2026	22.01.2026	Limits	Method of Testing
Date of sample receipt		12.01.2026	17.01.2026	23.01.2026		
Report No		M002726013	M010126013	M000326014		
Sample Code		SW1	SW2	SW3		
Sl.No.	Parameters	Results				
1	Colour (Hazen Units)	3	5	5	300	IS 3025 (Part 4) 2021
2	pH	6.88	8.11	8.49	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.80	5.10	5.60	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	35	80	96	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	60	900	342	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	24.0	258.0	55.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	9.4	80.0	52.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	5.40	41.50	28.60	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.28	0.96	0.70	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ⁶⁺), mg/l,	<0.03	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023
Note : Class-C: Drinking water with conventional treatment followed by disinfection.						
"END OF REPORT"						


BINU MANI
TM - Microbiology
Govt Analyst/Authorised Signatory


ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

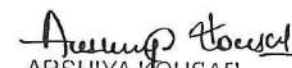
TEST REPORT

Table No. 25

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)				
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Nature of sample		: Surface water				
Sample Location		: SW1 - Hari Shankar Spring Water, SW2 - Nari Halla Nallah water SW3 - Hulikunta kere water				
Issue Date		: 02.03.2026				
Ref : IS : 2296 Water Quality Standards						
Date of sample collection		05.02.2026	13.02.2026	05.02.2026	Limits	Method of Testing
Date of sample receipt		06.02.2026	14.02.2026	06.02.2026		
Report No		M001126021	M009526022	M001326021		
Sample Code		SW1	SW2	SW3		
Sl.No.	Parameters	Results				
1	Colour (Hazen Units)	1	5	5	300	IS 3025 (Part 4) 2021
2	pH	6.74	8.20	8.12	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.80	5.60	5.70	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	60	96	110	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	58	342	330	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	27.0	55.0	75.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	5.0	52.0	58.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	5.60	28.60	12.60	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.32	0.50	0.32	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l,	<0.03	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023
Note : Class-C: Drinking water with conventional treatment followed by disinfection.						
"END OF REPORT"						


BINU MANI

TM - Microbiology
Govt Analyst/Authorised Signatory


ARSHIYA HOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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 23.05.2028

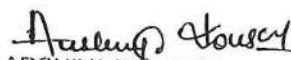
TEST REPORT

Table No. 26

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)				
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Sample Location		: W1 - RO Plant water - In Let Near Check post No. 3 Bore water, W2 - RO water - Out Let water,				
Issue Date		: 02.02.2026				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Date of sample collection		16.01.2026	16.01.2026	Desirable Limits	Permissible Limits	Method of Testing
Date of sample receipt		17.01.2026	17.01.2026			
Report No		M010226013	M010326013	Desirable Limits	Permissible Limits	Method of Testing
Sl. No.	Sample Code	W1	W2			
	Parameters	Results				
1	Colour (Hazen Units)	1	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.30	6.00	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU	2.90	<0.1	1	5	IS:3025 (P-10) 2023
6	Total Dissolved Solids,mg/l	500.0	42.0	500	2000	IS:3025 (P-16) 2023
7	Aluminium (as Al)	<0.005	<0.005	0.03	0.2	IS:3025 (P-55) 2022
8	Ammonia (as total Ammonia -N),mg/l	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1 Sec 1 2023
9	Anionic Detergents (as MBAS),mg/l	<0.1	<0.1	0.2	1.0	IS:3025 (P-68) 2023
10	Barium (as Ba), mg/l	<0.005	<0.005	0.7	0.7	IS:3025(P-65) 2022
11	Boron (as B), mg/l	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
12	Calcium (as Ca),mg/l	80.10	2.40	75	200	IS:3025 (P-40) 2021
13	Chloramines as Cl2	<0.1	<0.1	4	4	Clause 6 of IS 3025 (P-26) 2021
14	Chloride as Cl (mg/l)	50.00	11.00	250	1000	IS:3025 (P-32)1988 RA 2019
15	Copper (as Cu),mg/l	<0.0005	<0.0005	0.05	1.5	IS:3025 (P-65) 2022
16	Fluoride (as F),mg/l	0.42	<0.1	1	1.5	IS:3025 (P-60) Sec 2022
17	Residual, Free Chlorine,mg/l	<0.1	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Iron (as Fe),mg/l	<0.005	<0.005	1.0	1.0	IS:3025 (Part-65) 2022
19	Magnesium (as Mg)mg/l	56.00	<1	30	100	IS:3025 (P-46)1 2023
20	Manganese (as Mn),mg/l	<0.001	<0.001	0.1	0.3	IS:3025 (P-65) 2022
21	Mineral Oil,mg/l	<0.5	<0.5	1.0	1.0	IS:3025 (P-39) 2021
22	Nitrates (as NO ₃),mg/l	18.60	3.60	45	45	IS:3025 (P-34) 1988 RA 2019
23	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2023
24	Selenium (as Se),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025(P-65) 2022
25	Silver (as Ag), mg/l	<0.005	<0.005	0.1	0.1	IS:3025(P-65) 2022
26	Sulphate (as SO ₄),mg/l	40.00	2.80	200	400	IS:3025 (P-24) Sec 1 2022
27	Sulphide (as H ₂ S) , mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-29) 2022
28	Total Alkalinity (as CaCO ₃) mg/l	360.0	14.0	200	600	IS:3025 (P-23):2023
29	Total Hardness (as CaCO ₃),mg/l	430.0	10.0	200	600	IS:3025 (P-21):2009 RA 2023
30	Zinc (as Zn),mg/l	<0.005	<0.005	5	15	IS:3025 (P-65) 2022
31	Cadmium (as Cd),mg/l	<0.0005	<0.0005	0.003	0.003	IS:3025 (P-65) 2022
32	Cyanide (as CN),mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
33	Lead (as Pb),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
34	Mercury (as Hg),mg/l	<0.0005	<0.0005	0.001	0.001	IS:3025 (P-65) 2022
35	Molybdenum (as Mo), mg/l	<0.0005	<0.0005	0.07	0.07	IS:3025 (P-65) 2022
36	Nickel (as Ni),mg/l	<0.01	<0.01	0.02	0.02	IS:3025 (P-65) 2022
37	Arsenic (as As),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
38	Total Chromium (as Cr),mg/l	<0.001	<0.001	0.05	0.05	IS:3025 (P-65) 2022
39	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
40	Total Coliform /100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021
41	Electrical Conductivity (µmhos/cm)	910.0	77.0	--	--	IS 3025 (P-14) 2013 RA 2023

"END OF REPORT"


BINU MANI
TM - Microbiology
Govt Analyst/Authorised Signatory


ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envttest.in



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 23.05.2028

TEST REPORT

Table No.27

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)				
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Nature of sample		: Ground water				
Sample Location		: GW1 - Dharmapura bore water , GW2 - Yeshwanthanagar bore water,				
Issue Date		: 02.02.2026				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Date of sample collection		08.01.2026	08.01.2026	Desirable Limits	Permissible Limits	Method of Testing
Date of sample receipt		09.01.2026	09.01.2026			
Report No		M002426012	M002526012	Desirable Limits	Permissible Limits	Method of Testing
Sl. No.	Sample Code	GW1	GW2			
	Parameters	Results				
1	Colour (Hazen Units)	<1	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.51	7.54	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU	<0.1	<0.1	1	5	IS:3025 (P-10) 2023
6	Total Dissolved Solids,mg/l	1094.0	1470.0	500	2000	IS:3025 (P-16) 2023
7	Aluminium (as Al)	<0.005	<0.005	0.03	0.2	IS:3025 (P-55) 2022
8	Ammonia (as total Ammonia -N),mg/l	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1 Sec 1 2023
9	Anionic Detergents (as MBAS),mg/l	<0.1	<0.1	0.2	1.0	IS:3025 (P-68) 2023
10	Barium (as Ba), mg/l	<0.005	<0.005	0.7	0.7	IS:3025(P-65) 2022
11	Boron (as B), mg/l	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
12	Calcium (as Ca),mg/l	176.30	200.40	75	200	IS:3025 (P-40) 2021
13	Chloramines as Cl2	<0.1	<0.1	4	4	Clause 6 of IS 3025 (P-26) 2021
14	Chloride as Cl (mg/l)	240.00	400.00	250	1000	IS:3025 (P-32)1988 RA 2019
15	Copper (as Cu),mg/l	<0.0005	<0.0005	0.05	1.5	IS:3025 (P-65) 2022
16	Fluoride (as F),mg/l	1.25	1.30	1	1.5	IS:3025 (P-60) Sec 2022
17	Residual, Free Chlorine,mg/l	<0.1	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Iron (as Fe),mg/l	<0.005	<0.005	1.0	1.0	IS:3025 (Part-65) 2022
19	Magnesium (as Mg)mg/l	87.40	77.70	30	100	IS:3025 (P-46)1 2023
20	Manganese (as Mn),mg/l	<0.001	<0.001	0.1	0.3	IS:3025 (P-65) 2022
21	Mineral Oil,mg/l	<0.5	<0.5	1.0	1.0	IS:3025 (P-39) 2021
22	Nitrates (as NO ₃),mg/l	38.60	43.70	45	45	IS:3025 (P-34) 1988 RA 2019
23	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2023
24	Selenium (as Se),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025(P-65) 2022
25	Silver (as Ag), mg/l	<0.005	<0.005	0.1	0.1	IS:3025(P-65) 2022
26	Sulphate (as SO ₄),mg/l	145.00	166.00	200	400	IS:3025 (P-24) Sec 1 2022
27	Sulphide (as H ₂ S) , mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-29) 2022
28	Total Alkalinity (as CaCO ₃) mg/l	480.0	440.0	200	600	IS:3025 (P-23):2023
29	Total Hardness (as CaCO ₃),mg/l	800.0	820.0	200	600	IS:3025 (P-21):2009 RA 2023
30	Zinc (as Zn),mg/l	<0.005	<0.005	5	15	IS:3025 (P-65) 2022
31	Cadmium (as Cd),mg/l	<0.0005	<0.0005	0.003	0.003	IS:3025 (P-65) 2022
32	Cyanide (as CN),mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
33	Lead (as Pb),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
34	Mercury (as Hg),mg/l	<0.0005	<0.0005	0.001	0.001	IS:3025 (P-65) 2022
35	Molybdenum (as Mo), mg/l	<0.0005	<0.0005	0.07	0.07	IS:3025 (P-65) 2022
36	Nickel (as Ni),mg/l	<0.01	<0.01	0.02	0.02	IS:3025 (P-65) 2022
37	Arsenic (as As),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
38	Total Chromium (as Cr),mg/l	<0.001	<0.001	0.05	0.05	IS:3025 (P-65) 2022
39	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
40	Total Coliform /100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021
41	Electrical Conductivity (µmhos/cm)	1920.0	2500.0	-	-	IS 3025 (P-14) 2013 RA 2023

"END OF REPORT"

BINU MANI
TM - Microbiology
Govt Analyst/Authorised Signatory

ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 28

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,				
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)				
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Nature of sample		: Ground water				
Sample Location		: GW3 -Nandhihalli bore water , GW4 - Subbarayanahalli bore water,				
Issue Date		: 02.02.2026				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Date of sample collection		16.01.2026	10.01.2026	Desirable Limits	Permissible Limits	Method of Testing
Date of sample receipt		17.01.2026	12.01.2026			
Report No		M010426013	M003226013			
Sl. No.	Sample Code	GW3	GW4			
	Parameters	Results				
1	Colour (Hazen Units)	1	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.11	6.60	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU	3.70	2.60	1	5	IS:3025 (P-10) 2023
6	Total Dissolved Solids,mg/l	896.0	216.0	500	2000	IS:3025 (P-16) 2023
7	Aluminium (as Al)	<0.005	<0.005	0.03	0.2	IS:3025 (P-55) 2022
8	Ammonia (as total Ammonia -N),mg/l	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1 Sec 1 2023
9	Anionic Detergents (as MBAS),mg/l	<0.1	<0.1	0.2	1.0	IS:3025 (P-68) 2023
10	Barium (as Ba), mg/l	<0.005	<0.005	0.7	0.7	IS:3025(P-65) 2022
11	Boron (as B), mg/l	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
12	Calcium (as Ca),mg/l	160.30	36.00	75	200	IS:3025 (P-40) 2021
13	Chloramines as C12	<0.1	<0.1	4	4	Clause 6 of IS 3025 (P-26) 2021
14	Chloride as Cl (mg/l)	235.00	40.00	250	1000	IS:3025 (P-32)1988 RA 2019
15	Copper (as Cu),mg/l	<0.0005	<0.0005	0.05	1.5	IS:3025 (P-65) 2022
16	Fluoride (as F),mg/l	0.90	0.76	1	1.5	IS:3025 (P-60) Sec 2022
17	Residual, Free Chlorine,mg/l	<0.1	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Iron (as Fe),mg/l	<0.005	<0.005	1.0	1.0	IS:3025 (Part-65) 2022
19	Magnesium (as Mg),mg/l	77.70	14.60	30	100	IS:3025 (P-46)1 2023
20	Manganese (as Mn),mg/l	<0.001	<0.001	0.1	0.3	IS:3025 (P-65) 2022
21	Mineral Oil,mg/l	<0.5	<0.5	1.0	1.0	IS:3025 (P-39)2021
22	Nitrates (as NO ₃),mg/l	39.70	6.00	45	45	IS:3025 (P-34) 1988 RA 2019
23	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2023
24	Selenium (as Se),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025(P-65) 2022
25	Silver (as Ag), mg/l	<0.005	<0.005	0.1	0.1	IS:3025(P-65) 2022
26	Sulphate (as SO ₄),mg/l	60.00	24.00	200	400	IS:3025 (P-24) Sec 1 2022
27	Sulphide (as H ₂ S) , mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-29) 2022
28	Total Alkalinity (as CaCO ₃) mg/l	430.0	105.0	200	600	IS:3025 (P-23):2023
29	Total Hardness (as CaCO ₃),mg/l	720.0	150.0	200	600	IS:3025 (P-21):2009 RA 2023
30	Zinc (as Zn),mg/l	<0.005	<0.005	5	15	IS:3025 (P-65) 2022
31	Cadmium (as Cd),mg/l	<0.0005	<0.0005	0.003	0.003	IS:3025 (P-65) 2022
32	Cyanide (as CN),mg/l	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
33	Lead (as Pb),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
34	Mercury (as Hg),mg/l	<0.0005	<0.0005	0.001	0.001	IS:3025 (P-65) 2022
35	Molybdenum (as Mo), mg/l	<0.0005	<0.0005	0.07	0.07	IS:3025 (P-65) 2022
36	Nickel (as Ni),mg/l	<0.01	<0.01	0.02	0.02	IS:3025 (P-65) 2022
37	Arsenic (as As),mg/l	<0.0005	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
38	Total Chromium (as Cr),mg/l	<0.001	<0.001	0.05	0.05	IS:3025 (P-65) 2022
39	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
40	Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2016 RA 2021
41	Electrical Conductivity (µmhos/cm)	1600.0	400.0	-	-	IS 3025 (P-14) 2013 RA 2023

"END OF REPORT"

BINU MANI

TM - Microbiology
Govt Analyst/Authorised Signatory

ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

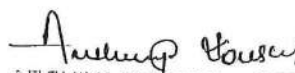
TEST REPORT

Table No.29

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,			
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)			
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Nature of sample		: Ground water			
Sample Location		: GW5 - Ankamanahalu bore water			
Issue Date		: 02.02.2026			
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Date of sample collection		16.01.2026			
Date of sample receipt		17.01.2026			
Report No		M010526013			
Sl. No.	Sample Code	Desirable Limits	Permissible Limits	Method of Testing	
	Parameters				
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	7.98	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8) 2023
5	Turbidity,NTU	2.60	1	5	IS:3025 (P-10) 2023
6	Total Dissolved Solids,mg/l	952.0	500	2000	IS:3025 (P-16) 2023
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55) 2022
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1 Sec 1 2023
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	IS:3025 (P-68) 2023
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-65) 2022
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
12	Calcium (as Ca),mg/l	84.10	75	200	IS:3025 (P-40) 2021
13	Chloramines as C12	<0.1	4	4	Clause 6 of IS 3025 (P-26) 2021
14	Chloride as Cl (mg/l)	250.00	250	1000	IS:3025 (P-32)1988 RA 2019
15	Copper (as Cu),mg/l	<0.0005	0.05	1.5	IS:3025 (P-65) 2022
16	Fluoride (as F),mg/l	1.05	1	1.5	IS:3025 (P-60) Sec 2022
17	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26) 2021
18	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-65) 2022
19	Magnesium (as Mg)mg/l	38.90	30	100	IS:3025 (P-46)1 2023
20	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-65) 2022
21	Mineral Oil,mg/l	<0.5	1.0	1.0	IS:3025 (P-39) 2021
22	Nitrates (as NO ₃),mg/l	43.00	45	45	IS:3025 (P-34) 1988 RA 2019
23	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43) Sec 1 2023
24	Selenium (as Se),mg/l	<0.0005	0.01	0.01	IS:3025(P-65) 2022
25	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-65) 2022
26	Sulphate (as SO ₄),mg/l	90.00	200	400	IS:3025 (P-24) Sec 1 2022
27	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 2022
28	Total Alkalinity (as CaCO ₃) mg/l	420.0	200	600	IS:3025 (P-23):2023
29	Total Hardness (as CaCO ₃),mg/l	370.0	200	600	IS:3025 (P-21):2009 RA 2023
30	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-65) 2022
31	Cadmium (as Cd),mg/l	<0.0005	0.003	0.003	IS:3025 (P-65) 2022
32	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
33	Lead (as Pb),mg/l	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
34	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	IS:3025 (P-65) 2022
35	Molybdenum (as Mo), mg/l	<0.0005	0.07	0.07	IS:3025 (P-65) 2022
36	Nickel (as Ni),mg/l	<0.01	0.02	0.02	IS:3025 (P-65) 2022
37	Arsenic (as As),mg/l	<0.0005	0.01	0.01	IS:3025 (P-65) 2022
38	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-65) 2022
39	Escherichia coli/100ml	Not Detected	Shall not be detectable in		IS:15185:2016 RA 2021
40	Total Coliform /100ml)	Not Detected	any 100ml Sample		IS:15185:2016 RA 2021
41	Electrical Conductivity (µmhos/cm)	1700.0	-	-	IS 3025 (P-14) 2013 RA 2023

"END OF REPORT"


BINU MANI
TM - Microbiology
Govt Analyst/Authorised Signatory


ARSHIYA KOJISAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 30

Name of the Client		: M/s. BKG Mining Pvt. Ltd.,							
Name of the Project		: Haddinapade Iron Ore Mine (ML No. 2516)							
Location		: Kumaraswamy Range, Sandur Taluka, Ballari Dist.,							
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)							
Nature of sample		: Soil							
Issue Date		: 02.03.2026							
Date of sample collection		13.02.2026	09.02.2026	09.02.2026	05.02.2026	09.02.2026			
Lab Code		M009726022	M000826022	M002926022	M001626021	M000726022			
SL. No.	Sample Code	S1	S2	S3	S4	S5	Normal	High	
	Parameters	Results							
	Unit								
Physical Properties									
1	Colour	--	Red Soil	Red Soil	Red Soil	Red Soil	Red soil	--	--
2	Textural class	--	Silty Clay	LOAM	Clay Loam	CLAY LOAM	Clay Loam	--	--
Size Distribution									
3	Sand	%	34.88	42.22	30.45	34.56	34.66	--	--
	Clay	%	28.43	38.44	30.38	33.12	32.55	--	--
	Silt	%	36.69	19.34	39.17	32.32	32.79	--	--
4	Moisture Content	%	11.24	10.22	8.33	11.34	11.66	--	--
5	Bulk Density	gm/cc	1.66	1.56	1.66	1.62	1.88	--	--
6	Water holding capacity	%	29.45	28.22	24.22	36.46	38.42	--	--
7	pH	--	7.12	6.88	6.95	7.22	7.42	6.30	>8.30
8	EC	m.mohs/cm	0.527	0.364	0.354	0.465	0.425	1.0 to 2.0	>2
Chemical Properties									
9	Organic Carbon	%	0.44	0.72	0.55	0.62	0.66	0.5 to 0.75	>0.75
10	Nitrogen as N	Kg/Ha	290	380	322	297	344	280-560	>560
11	Phosphorous as P	Kg/Ha	10.67	11.45	9.88	11.42	10.21	9 to 22	>22
12	Potassium as K ₂ O	Kg/Ha	116	120	110	118	118	50 to 120	>120
13	Sodium as Na	mg/kg	32.88	37.44	29	34.00	28.00	--	--
14	Chloride as Cl	mg/kg	38.00	36.00	110	33.00	32.00	--	--
15	Sulphate as SO ₄	mg/kg	28.00	42.00	34	28.00	33.00	--	--
Sample Location :									
S1 - Dump soil (ML Area)									
S2 - Dharmapura Agricultural land									
S3 - Subbarayanahalli Agricultural land									
S4 - Nandihalli Agricultural land									
S5 - Yeshwanthanagar Agricultural land									

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in