

# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2015 & OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India) MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory



Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/A1

Issued Date-04.09.2023

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	B.N Pradhan
Sampling Location	Near Mine Office Area
Reference No.	CEMC-04092023A1
URL No.	TC664623000000660F
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

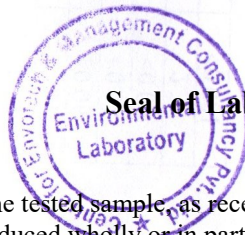
### ANALYSIS RESULT

Date With code	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
02.08.23/184	53.8	27.8	7.94	14.08	<0.05
05.08.23/201	50.5	25	10.82	14.32	<0.05
07.08.23/206	52.3	26.9	11.45	15.88	<0.05
11.08.23/219	54.7	28.6	8.46	13.16	<0.05
16.08.23/233	52.4	26.5	10.94	14.96	<0.05
17.08.23/242	55.5	28.8	11.84	15.78	<0.05
21.08.23/254	50.8	25.6	9.85	14.96	<0.05
24.08.23/263	53.6	26.8	9.72	14.08	<0.05
29.08.23/285	56.8	29.2	11.92	15.42	<0.05
<b>Avg</b>	<b>53.4</b>	<b>27.2</b>	<b>10.33</b>	<b>14.74</b>	<b>--</b>
<b>NAAQ* Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
<b>Methods of Analysis</b>	<b>IS: 5182 (Part-23)</b>	<b>Gravimetric Method as per CPCB method</b>	<b>IS: 5182 (Part-2)</b>	<b>IS: 5182 (Part-6)</b>	<b>IS: 5182 (Part-10)</b>

N.B- \*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

**\*END OF REPORT\***

**Authorized Signatory**  
**Mrs. Mitali Rout**



**Seal of Laboratory**

**Verified By**  
**Mr. Ramakant Nayak**

**Notes:**

- The result given above related to the tested sample as received. The customer asked for the above test only.
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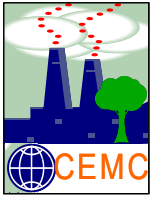
**Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.**

**Regd. Office: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, ,Mobile: 9861032826**

**E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.**

**Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, ,Mobile: 7752014842**

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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/A2

Issued Date-04.09.2023

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	B.N Pradhan
Sampling Location	Near Mine Main Gate
Weather Conditions	Clear
Reference No.	CEMC-04092023A2
URL No.	TC664623000000661F
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

### ANALYSIS RESULT

Date With code	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
02.08.2023/185	61.8	31.8	11.85	15.74	<0.05
05.08.2023/203	60.8	30.2	12.72	16.79	<0.05
07.08.2023/205	62.2	32.5	10.91	15.85	<0.05
11.08.2023/217	66	33.9	10.08	14.93	<0.05
14.08.2023/228	61.8	32.4	12.21	17.22	<0.05
17.08.2023/236	67.2	34.8	12.43	16.56	<0.05
22.08.2023/260	65.6	33.4	11.91	15.74	<0.05
26.08.2023/272	69.3	35.2	13.72	17.85	<0.05
28.08.2023/276	64.8	32.9	12.72	16.08	<0.05
Average	<b>64.4</b>	<b>33.0</b>	<b>12.06</b>	<b>16.31</b>	--
NAAQ* Standard	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

N.B- \*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

**\*END OF REPORT\***

  
Authorized Signatory  
Mrs. Mitali Rout



Seal of Laboratory

  
Verified By

Mr. Ramakant Nayak

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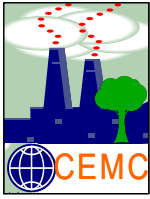
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/A3

Issued Date-04.09.2023

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	B.N Pradhan
Sampling Location	Near Mine pit-1
Weather Conditions	Clear
Reference No.	CEMC-04092023A3
URL No.	TC664623000000659F
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

### ANALYSIS RESULT

Date With Code	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
02.08.2023/183	51.6	25.9	7.82	12.76	<0.05
05.08.2023/202	50.8	25.2	8.76	13.78	<0.05
08.08.2023/211	51.4	26.5	10.94	14.82	<0.05
10.08.2023/215	50.9	25.9	11.21	15.98	<0.05
16.08.2023/235	53.3	27.4	8.21	12.26	<0.05
19.08.2023/246	52.7	26.8	7.46	11.52	<0.05
21.08.2023/253	54.2	27.4	9.95	13.78	<0.05
24.08.2023/264	57.4	29.2	10.74	13.08	<0.05
28.08.2023/277	55.8	37.9	11.08	15.06	<0.05
Average	<b>53.1</b>	<b>28.0</b>	<b>9.57</b>	<b>13.67</b>	--
NAAQ* Standard	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

N.B- \*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

**\*END OF REPORT**

Authorized Signatory  
Mrs. Mitali Rout



Verified By  
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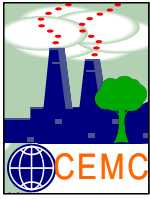
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/A4

Issued Date-04.09.2023

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	B.N Pradhan
Sampling Location	Near Mine pit-2
Weather Conditions	Clear
Reference No.	CEMC-04092023A4
URL No.	TC664623000000657F
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

### ANALYSIS RESULT

Date With Code	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
01.08.2023/181	60.6	30.6	11.72	16.66	<0.05
04.08.2023/199	58.8	29.2	13.66	18.72	<0.05
07.08.2023/204	64.4	32.5	14.82	18.82	<0.05
11.08.2023/218	61.9	31.9	12.12	17.66	<0.05
14.08.2023/227	63.3	32.4	11.32	16.54	<0.05
17.08.2023/240	57.6	28.6	10.46	16.82	<0.05
23.08.2023/262	59.2	30.4	9.84	14.44	<0.05
26.08.2023/275	63.4	32.2	15.64	20.38	<0.05
28.08.2023/284	58.5	28.8	14.08	19.92	<0.05
Average	<b>60.9</b>	<b>30.7</b>	<b>12.63</b>	<b>17.77</b>	--
NAAQ* Standard	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

N.B- \*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Authorized Signatory  
Mrs. Mitali Rout



Verified By  
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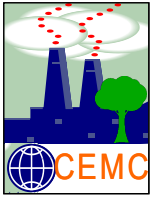
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Report no.-CEMC/KKBL/040923/A5

Issued Date-04.09.2023

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	B.N Pradhan
Sampling Location	Khatkurbahal Village Area(Buffer Zone)
Weather Conditions	Clear
Reference No.	CEMC-04092023A5
URL No.	TC664623000000658F
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

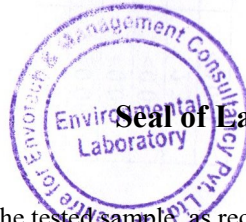
### ANALYSIS RESULT

Date With Code	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
01.08.2023/182	58.6	29.4	9.42	13.66	<0.05
04.08.2023/200	59.2	39.6	10.76	14.82	<0.05
07.08.2023/212	57.6	29.8	8.82	12.88	<0.05
11.08.2023/216	60.2	31.6	11.12	15.92	<0.05
14.08.2023/234	58.3	30.2	12.28	16.28	<0.05
17.08.2023/241	56.8	28.6	9.48	13.62	<0.05
23.08.2023/261	60.9	32.2	11.84	15.64	<0.05
26.08.2023/274	61.6	33	13.66	17.76	<0.05
28.08.2023/278	67.2	34.6	12.82	16.92	<0.05
Average	<b>60.0</b>	<b>32.1</b>	<b>11.13</b>	<b>15.28</b>	---
NAAQ* Standard	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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Mrs. Mitali Rout



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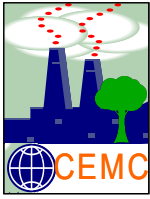
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W1

Issued Date-04.09.2023

## WATER TEST REPORT

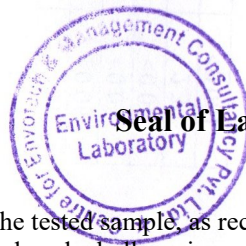
Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Jharia Nala
Job Code	240W
Reference No.	CEMC-04092023W240
URL No.	TC664623000000651F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	15
2.	pH Value @ 25°C	--	6.5 to 8.5	7.53
3.	Iron as Fe, Max.	mg/l	0.5	0.93
4.	Chloride as Cl, Max.	mg/l	600	7.9
5.	Dissolved Solids, Max.	mg/l	1500	114
6.	Dissolved Oxygen, Min.	mg/l	4	5.6
7.	BOD for 3 days@ 27 <sup>0</sup> C, Max.	mg/l	3	3.8
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	4.1
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	1.02
12.	Fluoride as F, Max.	mg/l	1.5	3.5
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	41
18.	Faecal Coliform	MPN/100ml	--	<2

\*END OF REPORT

*pp Das*  
Authorized Signatory  
Mrs.Bisnupriya Das



Seal of Laboratory

*RK Nayak*  
Verified By

Mr.Ramakant Nayak

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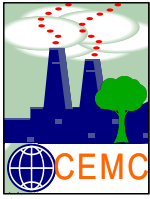
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W2

Issued Date-04.09.2023

## WATER TEST REPORT

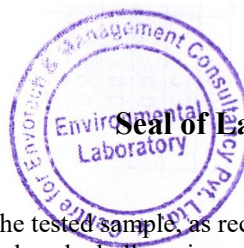
Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Tambu nala
Job Code	241W
Reference No.	CEMC-04092023W241
URL No.	TC664623000000652F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	20
2.	pH Value @ 25°C	--	6.5 to 8.5	7.06
3.	Iron as Fe, Max.	mg/l	0.5	1.2
4.	Chloride as Cl, Max.	mg/l	600	5.9
5.	Dissolved Solids, Max.	mg/l	1500	60.1
6.	Dissolved Oxygen, Min.	mg/l	4	5.0
7.	BOD for 3 days@ 27 <sup>o</sup> C, Max.	mg/l	3	3.0
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	8.8
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	0.86
12.	Fluoride as F, Max.	mg/l	1.5	2.2
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	21
18.	Faecal Coliform	MPN/100ml	--	<2

\*END OF REPORT

*B.P. Das*  
Authorized Signatory  
Mrs.Bisnupriya Das



Seal of Laboratory

*R.K. Nayak*  
Verified By

Mr.Ramakant Nayak

Notes:

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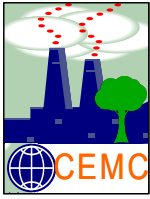
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W3

Issued Date-04.09.2023

## WATER TEST REPORT

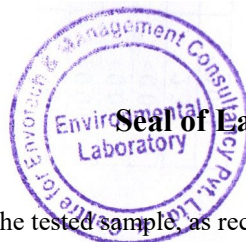
Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Chhinda nadi
Job Code	242W
Reference No.	CEMC-04092023W242
URL No.	TC664623000000653F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	30
2.	pH Value @ 25°C	--	6.5 to 8.5	7.32
3.	Iron as Fe, Max.	mg/l	0.5	1.52
4.	Chloride as Cl, Max.	mg/l	600	7.9
5.	Dissolved Solids, Max.	mg/l	1500	112
6.	Dissolved Oxygen, Min.	mg/l	4	5.6
7.	BOD for 3 days@ 27 <sup>o</sup> C, Max.	mg/l	3	4.2
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	6.5
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	2.77
12.	Fluoride as F, Max.	mg/l	1.5	0.11
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	31
18.	Faecal Coliform	MPN/100ml	--	<2

\*END OF REPORT

  
Authorized Signatory  
Mrs. Bisnupriya Das



Seal of Laboratory

  
Verified By

Mr. Ramakant Nayak

Notes:

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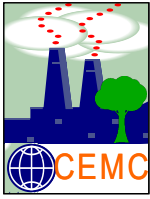
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W4

Issued Date-04.09.2023

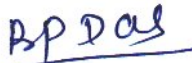
## WATER TEST REPORT

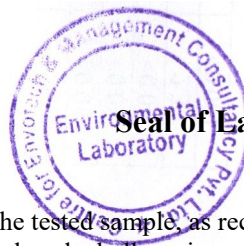
Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Sankh river
Job Code	243W
Reference No.	CEMC-04092023W243
URL No.	TC66462300000654F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	40
2.	pH Value @ 25°C	--	6.5 to 8.5	7.16
3.	Iron as Fe, Max.	mg/l	0.5	1.8
4.	Chloride as Cl, Max.	mg/l	600	7.9
5.	Dissolved Solids, Max.	mg/l	1500	51.9
6.	Dissolved Oxygen, Min.	mg/l	4	5.5
7.	BOD for 3 days@ 27 <sup>0</sup> C, Max.	mg/l	3	2.4
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	7.8
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	3.4
12.	Fluoride as F, Max.	mg/l	1.5	2.7
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	61
18.	Faecal Coliform	MPN/100ml	--	<2

\*END OF REPORT

  
**Authorized Signatory**  
**Mrs. Bisnupriya Das**



**Seal of Laboratory**

  
**Verified By**  
**Mr. Ramakant Nayak**

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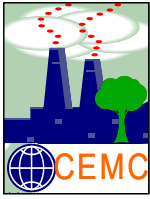
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W5

Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Kantijharia nala
Job Code	244W
Reference No.	CEMC-04092023W244
URL No.	TC664623000000655F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	20
2.	pH Value @ 25°C	--	6.5 to 8.5	7.49
3.	Iron as Fe, Max.	mg/l	0.5	1.2
4.	Chloride as Cl, Max.	mg/l	600	7.9
5.	Dissolved Solids, Max.	mg/l	1500	128
6.	Dissolved Oxygen, Min.	mg/l	4	4.7
7.	BOD for 3 days@ 27 <sup>0</sup> C, Max.	mg/l	3	4.4
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	4.5
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	0.4
12.	Fluoride as F, Max.	mg/l	1.5	0.1
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	41
18.	Faecal Coliform	MPN/100ml	--	<2

*BP Das*  
**Authorized Signatory**  
**Mrs.Bisnupriya Das**



**Seal of Laboratory**

**\*END OF REPORT**

*RK Nayak*  
**Verified By**  
**Mr.Ramakant Nayak**

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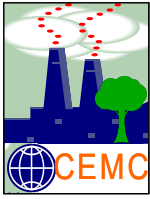
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Report no.-CEMC/KKBL/040923/W6

Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Nakti jhar
Job Code	245W
Reference No.	CEMC-04092023W245
URL No.	TC664623000000656F

## ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	Result
1.	Colour, Max.	Hazen	300	10
2.	pH Value @ 25°C	--	6.5 to 8.5	7.99
3.	Iron as Fe, Max.	mg/l	0.5	0.83
4.	Chloride as Cl, Max.	mg/l	600	7.9
5.	Dissolved Solids, Max.	mg/l	1500	124
6.	Dissolved Oxygen, Min.	mg/l	4	5.5
7.	BOD for 3 days@ 27°C, Max.	mg/l	3	4.0
8.	Oil & Grease, Max.	mg/l	0.1	ND
9.	Copper as Cu, Max.	mg/l	1.5	<0.03
10.	Sulphate as SO <sub>4</sub> , Max.	mg/l	400	4.1
11.	Nitrate as NO <sub>3</sub> , Max.	mg/l	50	1.0
12.	Fluoride as F, Max.	mg/l	1.5	3.2
13.	Cadmium as Cd, Max.	mg/l	0.01	<0.01
14.	Lead as Pb, Max.	mg/l	0.1	<0.1
15.	Zinc as Zn, Max.	mg/l	15	<0.01
16.	Hexavalent Chromium as Cr <sup>+6</sup> , Max.	mg/l	0.05	<0.05
17.	Total Coliform, Max.	MPN/100ml	5000	39
18.	Faecal Coliform	MPN/100ml	--	<2

\*END OF REPORT

*B.P. Das*  
**Authorized Signatory**  
**Mrs. Bisnupriya Das**



**Seal of Laboratory**

*R.K. Nayak*  
**Verified By**  
**Mr. Ramakant Nayak**

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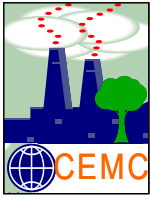
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Report no.-CEMC/KKBL/040923/W1

Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ground water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Inside mines area
Job Code	235W
Reference No.	CEMC-04092023W235
URL No.	TC664623000000646F

## ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	Standard as per IS: 10500, 2012(DW)		Result
			Acceptable Limit	Permissible Limit	
1.	Colour	Hazen	5	15	<1
2.	Odour	--	AL	AL	AL
3.	Taste	--	AL	AL	AL
4.	Turbidity	NTU	1	5	<1
5.	pH Value @ 25°C	--	6.5-8.5	No Relaxation	6.72
6.	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	278
7.	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.05
8.	Chloride (as Cl)	mg/l	250	1000	31.9
9.	Residual, free Chlorine	mg/l	0.2	1.0	ND
10.	Total Dissolved Solids	mg/l	500	2000	471
11.	Calcium (as Ca)	mg/l	75	200	30.46
12.	Magnesium (as Mg)	mg/l	30	100	49.09
13.	Copper (as Cu)	mg/l	0.05	1.5	<0.03
14.	Manganese (as Mn)	mg/l	0.1	0.3	<0.05
15.	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	26.6
16.	Nitrate (as NO <sub>3</sub> )	mg/l	45	No Relaxation	21.3
17.	Fluoride (as F)	mg/l	1.0	1.5	2.86
18.	Zinc (as Zn)	mg/l	5	15	<0.05
19.	Chromium (as Cr)	mg/l	0.05	No Relaxation	<0.05
20.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	200	600	220

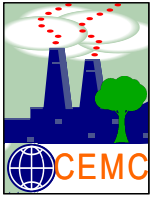
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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842

E-mail: cemclab@yahoo.in



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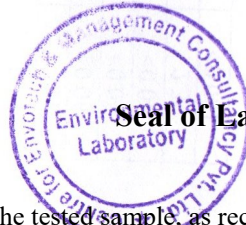
Report no.-CEMC/KKBL/040923/W1

Issued Date-04.09.2023

21.	Boron (as B)	mg/l	0.5	1.0	<0.2
22.	Total Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
23.	Faecal Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
24.	E.Coli	MPN/100 ml	Absent in 100 mL	Absent	Absent

\*END OF REPORT

  
**Authorized Signatory**  
**Mrs. Bisnupriya Das**



**Seal of Laboratory**

  
**Verified By**  
**Mr. Ramakant Nayak**

**Notes:**

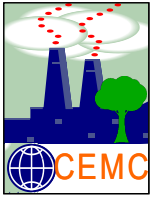
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Report no.-CEMC/KKBL/040923/W2

Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ground water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Khatur bahal village
Job Code	236W
Reference No.	CEMC-04092023W236
URL No.	TC664623000000647F

## ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	Standard as per IS: 10500, 2012(DW)		Result
			Acceptable Limit	Permissible Limit	
1.	Colour	Hazen	5	15	<1
2.	Odour	--	AL	AL	AL
3.	Taste	--	AL	AL	AL
4.	Turbidity	NTU	1	5	<1
5.	pH Value @ 25°C	--	6.5-8.5	No Relaxation	7.17
6.	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	262
7.	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.05
8.	Chloride (as Cl)	mg/l	250	1000	7.9
9.	Residual, free Chlorine	mg/l	0.2	1.0	ND
10.	Total Dissolved Solids	mg/l	500	2000	280
11.	Calcium (as Ca)	mg/l	75	200	2.4
12.	Magnesium (as Mg)	mg/l	30	100	62.2
13.	Copper (as Cu)	mg/l	0.05	1.5	<0.03
14.	Manganese (as Mn)	mg/l	0.1	0.3	<0.05
15.	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	9.0
16.	Nitrate (as NO <sub>3</sub> )	mg/l	45	No Relaxation	<0.2
17.	Fluoride (as F)	mg/l	1.0	1.5	1.92
18.	Zinc (as Zn)	mg/l	5	15	<0.05
19.	Chromium (as Cr)	mg/l	0.05	No Relaxation	<0.05
20.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	200	600	220

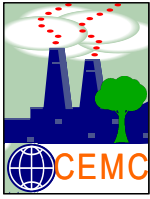
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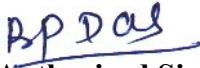
Certificate No.-TC 6646

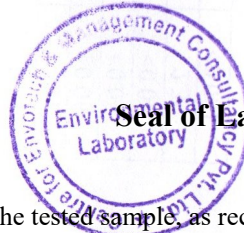
Report no.-CEMC/KKBL/040923/W2

Issued Date-04.09.2023

21.	Boron (as B)	mg/l	0.5	1.0	<0.2
22.	Total Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
23.	Faecal Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
24.	E.Coli	MPN/100 ml	Absent in 100 mL	Absent	Absent

\*END OF REPORT

  
**Authorized Signatory**  
**Mrs. Bisnupriya Das**



Seal of Laboratory

  
**Verified By**  
**Mr. Ramakant Nayak**

**Notes:**

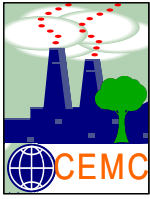
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W3

Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Ground water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Kulen bahal village
Job Code	237W
Reference No.	CEMC-04092023W237
URL No.	TC664623000000648F

## ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	Standard as per IS: 10500, 2012(DW)		Result
			Acceptable Limit	Permissible Limit	
1.	Colour	Hazen	5	15	<1
2.	Odour	--	AL	AL	AL
3.	Taste	--	AL	AL	AL
4.	Turbidity	NTU	1	5	<1
5.	pH Value @ 25°C	--	6.5-8.5	No Relaxation	6.84
6.	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	200
7.	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.05
8.	Chloride (as Cl)	mg/l	250	1000	21.9
9.	Residual, free Chlorine	mg/l	0.2	1.0	ND
10.	Total Dissolved Solids	mg/l	500	2000	342
11.	Calcium (as Ca)	mg/l	75	200	52.1
12.	Magnesium (as Mg)	mg/l	30	100	17.01
13.	Copper (as Cu)	mg/l	0.05	1.5	<0.03
14.	Manganese (as Mn)	mg/l	0.1	0.3	<0.05
15.	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	11.3
16.	Nitrate (as NO <sub>3</sub> )	mg/l	45	No Relaxation	15.6
17.	Fluoride (as F)	mg/l	1.0	1.5	3.0
18.	Zinc (as Zn)	mg/l	5	15	<0.05
19.	Chromium (as Cr)	mg/l	0.05	No Relaxation	<0.05
20.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	200	600	150

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

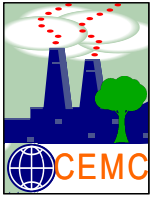
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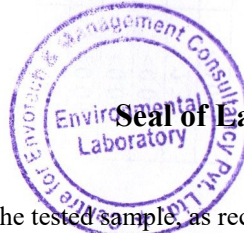
Report no.-CEMC/KKBL/040923/W3

Issued Date-04.09.2023

21.	Boron (as B)	mg/l	0.5	1.0	<0.2
22.	Total Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
23.	Faecal Coliform	MPN/100 ml	Absent in 100 mL	Absent	Absent
24.	E.Coli	MPN/100 ml	Absent in 100 mL	Absent	Absent

\*END OF REPORT

*B.P. Das*  
**Authorized Signatory**  
**Mrs. Bisnupriya Das**



**Seal of Laboratory**

*R.K. Nayak*  
**Verified By**  
**Mr. Ramakant Nayak**

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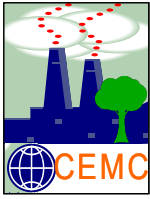
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Certificate No.-TC 6646

Report no.-CEMC/KKBL/040923/W1

Issued Date-04.09.2023

## WATER TEST REPORT

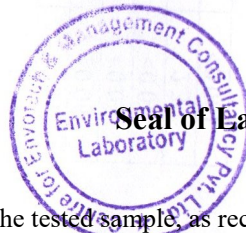
Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface runoff water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Mines pit-1
Job Code	238W
Reference No.	CEMC-04092023W238
URL No.	TC664623000000649F

## ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	Result
1	pH Value @ 25°C	--	7.62
2	Total Dissolved Solids	mg/l	262.4
3	Total Suspended Solids	mg/l	<5
4	Dissolved oxygen	mg/l	7.2
5	Chemical oxygen demand	mg/l	<5

*B.P Das*

**Authorized Signatory  
Mrs.Bisnupriya Das**



**Seal of Laboratory**

**\*END OF REPORT**

*R.K Nayak*

**Verified By  
Mr.Ramakant Nayak**

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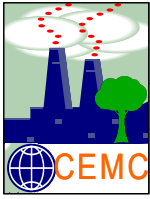
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Report no.-CEMC/KKBL/040923/W2

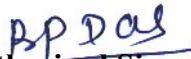
Issued Date-04.09.2023

## WATER TEST REPORT

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Sample Description	Surface runoff water
Date of Sampling	25.08.2023
Date of Sample Received	26.08.2023
Sample Drawn by	B.N Pradhan
Sampling Location	Mines pit-2
Job Code	239W
Reference No.	CEMC-04092023W239
URL No.	TC664623000000650F

## ANALYSIS RESULT

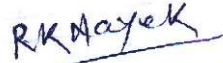
Sl. No	Parameter	Unit of measurement	Result
1	pH Value @ 25°C		7.37
2	Total Dissolved Solids	mg/l	288.6
3	Total Suspended Solids	mg/l	<5
4	Dissolved oxygen	mg/l	7.1
5	Chemical oxygen demand	mg/l	<5

  
Authorized Signatory  
Mrs. Bisnupriya Das



Seal of Laboratory

\*END OF REPORT



Verified By  
Mr. Ramakant Nayak

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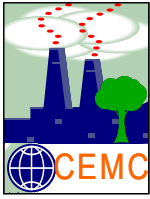
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Report No. - CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N1
Nature of Sampling	Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	17.08.2023
URL No.	TC664623000000638F

## NOISE MONITORING REPORT

Locations With Code	Day Time dB (A)	Night Time dB (A)	Max	Min
	6.00 am to 10.00 pm	10.00 pm to 6.00 am		
Near Office area/48	47.9	45.8	56.7	43.4

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

\*End of Report\*

Authorized Signatory  
Mrs. Mitali Rout



Seal of Laboratory

Verified By  
Mr. Ramakant Nayak

Notes:

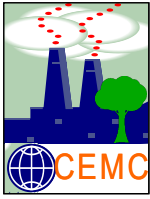
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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, ,Mobile: 7752014842  
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# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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Report No. - CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N2
Nature of Sampling	Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	17.08.2023
URL No.	TC664623000000637F

## NOISE MONITORING REPORT

Locations With Code	Day Time dB (A)	Night Time dB (A)	Max	Min
	6.00 am to 10.00 pm	10.00 pm to 6.00 am		
Near main Gate/47	64.6	56.2	68.8	48.7

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

**\*End of Report\***

Authorized Signatory  
Mrs. Mitali Rout

Notes:

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Seal of Laboratory

Verified By  
Mr. Ramakant Nayak

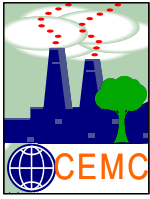
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Certificate No.-TC 6646

Report No. - CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N3
Nature of Sampling	Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	10.08.2023
URL No.	TC664623000000636F

## NOISE MONITORING REPORT

Locations With Code	Day Time dB (A)	Night Time dB (A)	Max	Min
	6.00 am to 10.00 pm	10.00 pm to 6.00 am		
Near Mines Pit-1/46	55.6	48.6	68.8	48.4

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

\*End of Report\*

Authorized Signatory  
Mrs. Mitali Rout

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Seal of Laboratory

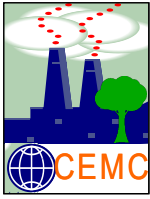
Verified By  
Mr. Ramakant Nayak

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Report No. - CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N4
Nature of Sampling	Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	18.08.2023
URL No.	TC664623000000640F

## NOISE MONITORING REPORT

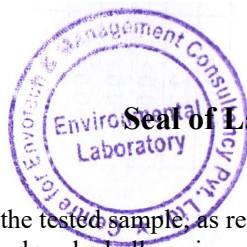
Locations With Code	Day Time dB (A)	Night Time dB (A)	Max	Min
	6.00 am to 10.00 pm	10.00 pm to 6.00 am		
Near Mines pit-2/50	63.8	55.1	69.1	45.8

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

\*End of Report\*

Authorized Signatory  
Mrs. Mitali Rout



Seal of Laboratory

Verified By  
Mr. Ramakant Nayak

Notes:

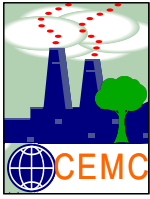
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Certificate No.-TC 6646

Report No. - CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N5
Nature of Sampling	Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	09.08.2023
URL No.	TC664623000000639F

## NOISE MONITORING REPORT

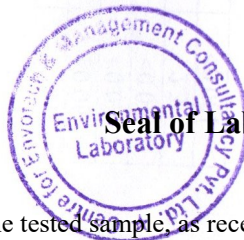
Locations With Code	Day Time dB (A)	Night Time dB (A)	Max	Min
	6.00 am to 10.00 pm	10.00 pm to 6.00 am		
Village Khatkurbahal/49	49.9	45.6	56.4	45.7

## NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

\*End of Report\*

Authorized Signatory  
Mrs. Mitali Rout



Seal of Laboratory

Verified By  
Mr. Ramakant Nayak

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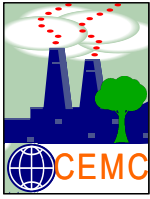
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/F1

Issued Date-04.09.2023

## FUGITIVE AIR QUALITY MONITORING

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Nature of Sampling	Fugitive Air Quality
Sampling By	B.N Pradhan
Instrument Used	Respirable Dust Sampler
Sample Location	Near Mines Pit-1
Date of Sampling	09.08.2023
Date of Receiving	10.08.2023
Climatic Condition	Clear
Job Code	CEMC/23-24/45F
Reference No.	CEMC-04092023F-45
URL No.	TC664623000000631F

## ANALYSIS RESULT

Sl. No.	Items	Unit	Result	Standard as per Environment (protection) (3 <sup>rd</sup> amendment) Rules-2012 by MoEF&CC	Testing Method
01	Suspended Particulate Matter(SPM)	µg/m <sup>3</sup>	286	2000	IS 5182 (PART-4)

  
Authorized Signatory  
Mrs. Mitali Rout



  
Verified By  
Mr. Ramakant Nayak

### Notes:

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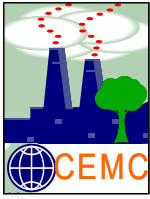
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/F2

Issued Date-04.09.2023

## FUGITIVE AIR QUALITY MONITORING

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Nature of Sampling	Fugitive Air Quality
Sampling By	B.N Pradhan
Instrument Used	Respirable Dust Sampler
Sample Location	Near Mines Pit-2
Date of Sampling	09.08.2023
Date of Receiving	10.08.2023
Climatic Condition	Clear
Job Code	CEMC/23-24/49F
Reference No.	CEMC-04092023F49
URL No.	TC664623000000635F

## ANALYSIS RESULT

Sl. No.	Items	Unit	Result	Standard as per Environment (protection) (3 <sup>rd</sup> amendment) Rules-2012 by MoEF&CC	Testing Method
01	SuspendedParticulateMatter(SPM)	µg/m <sup>3</sup>	211	2000	IS 5182 (PART-4)

  
Authorized Signatory  
Mrs. Mitali Rout



  
Verified By  
Mr. Ramakant Nayak

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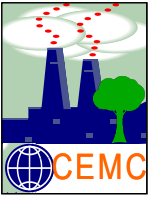
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/F3

Issued Date-04.09.2023

## FUGITIVE AIR QUALITY MONITORING

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Nature of Sampling	Fugitive Air Quality
Sampling By	B.N Pradhan
Instrument Used	Respirable Dust Sampler
Sample Location	Weigh Bridge (Mines Pit-1)
Date of Sampling	09.08.2023
Date of Receiving	10.08.2023
Climatic Condition	Clear
Job Code	CEMC/23-24/48F
Reference No.	CEMC-04092023F48
URL No.	TC664623000000634F

## ANALYSIS RESULT

Sl. No.	Items	Unit	Result	Standard as per Environment (protection) (3 <sup>rd</sup> amendment) Rules-2012 by MoEF&CC	Testing Method
01	SuspendedParticulateMatter(SPM)	µg/m <sup>3</sup>	323	2000	IS 5182 (PART-4)

  
Authorized Signatory  
Mrs. Mitali Rout



  
Verified By  
Mr. Ramakant Nayak

### Notes:

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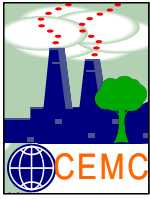
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/F4

Issued Date-04.09.2023

## FUGITIVE AIR QUALITY MONITORING

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Nature of Sampling	Fugitive Air Quality
Sampling By	B.N Pradhan
Instrument Used	Respirable Dust Sampler
Sample Location	Weigh Bridge (Mines Pit-2)
Date of Sampling	09.08.2023
Date of Receiving	10.08.2023
Climatic Condition	Clear
Job Code	CEMC/23-24/47F
Reference No.	CEMC-04092023F47
URL No.	TC664623000000633F

## ANALYSIS RESULT

Sl. No.	Items	Unit	Result	Standard as per Environment (protection) (3 <sup>rd</sup> amendment) Rules-2012 by MoEF&CC	Testing Method
01	SuspendedParticulateMatter(SPM)	µg/m <sup>3</sup>	296	2000	IS 5182 (PART-4)

  
Authorized Signatory  
Mrs. Mitali Rout



  
Verified By  
Mr. Ramakant Nayak

### Notes:

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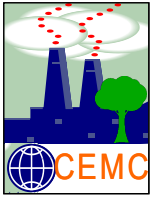
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/F5

Issued Date-04.09.2023

## FUGITIVE AIR QUALITY MONITORING

Issued to	M/s. KKBL Mines ,Kutra,Sundargarh
Nature of Sampling	Fugitive Air Quality
Sampling By	B.N Pradhan
Instrument Used	Respirable Dust Sampler
Sample Location	Mines main gate
Date of Sampling	09.08.2023
Date of Receiving	10.08.2023
Climatic Condition	Clear
Job Code	CEMC/23-24/46F
Reference No.	CEMC-04092023F46
URL No.	TC664623000000632F

## ANALYSIS RESULT

Sl. No.	Items	Unit	Result	Standard as per Environment (protection) (3 <sup>rd</sup> amendment) Rules-2012 by MoEF&CC	Testing Method
01	SuspendedParticulateMatter(SPM)	µg/m <sup>3</sup>	342	2000	IS 5182 (PART-4)

  
Authorized Signatory  
Mrs. Mitali Rout



  
Verified By  
Mr. Ramakant Nayak

### Notes:

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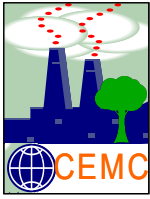
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N5
Nature of Sampling	Work zone Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	09.08.2023
URL No.	TC664623000000641F


## NOISE MONITORING REPORT

SL No.	Locations with code	NL Day Time dB (A)	NL Night Time dB (A)
1	NEAR MINES MAIN GATE/55N	77.8	71.6

### Permissible Noise Exposures as per Occupational Safety and Health Administration


Duration per Day in Hours	Sound level in dB(A)
½ or less	115
½	110
1	105
1½	102
2	100
3	97
4	95
6	92
8	90

**\*End of Report\***

  
**Authorized Signatory**  
**Mrs. Mitali Rout**



**Seal of Laboratory**

  
**Verified By**  
**Mr. Ramakant Nayak**

**Notes:**

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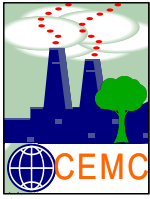
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N5
Nature of Sampling	Work zone Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	09.08.2023
URL No.	TC664623000000642F

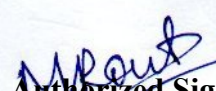
## NOISE MONITORING REPORT

SL No.	Locations with code	NL Day Time dB (A)	NL Night Time dB (A)
1	WEIGH BRIDGE (MINES PIT-1)/56N	74.6	67.8

Permissible Noise Exposures as per Occupational Safety and Health Administration

Duration per Day in Hours	Sound level in dB(A)
½ or less	115
½	110
1	105
1½	102
2	100
3	97
4	95
6	92
8	90

**\*End of Report\***

  
**Authorized Signatory**  
**Mrs. Mitali Rout**

Notes:

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**Seal of Laboratory**

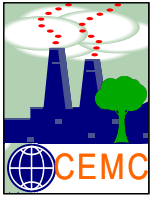
  
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Certificate No.-TC 6646

Report No. – CEMC/ KKBL /040923/N

Issued Date-04.09.2023

Name & Address of the Client	M/s. KKBL Mines ,Kutra,Sundargarh
Reference No.	CEMC-04092023N5
Nature of Sampling	Work zone Noise Monitoring
Sampling By	B.N Pradhan
Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	09.08.2023
URL No.	TC664623000000643F

## NOISE MONITORING REPORT

SL No.	Locations with code	NL Day Time dB (A)	NL Night Time dB (A)
1	NEAR MINES PIT-2/57N	71.5	66.4

### Permissible Noise Exposures as per Occupational Safety and Health Administration

Duration per Day in Hours	Sound level in dB(A)
½ or less	115
½	110
1	105
1½	102
2	100
3	97
4	95
6	92
8	90

**\*End of Report\***

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Mrs. Mitali Rout



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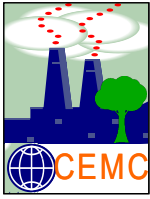
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Instrument Used	Noise Level Meter
Sampling Period	24 Hours
Date Of Sampling	09.08.2023
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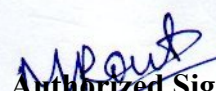
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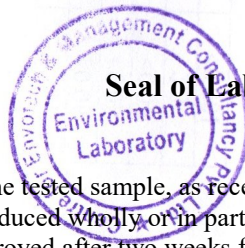
SL No.	Locations with code	NL Day Time dB (A)	NL Night Time dB (A)
1	WEIGH BRIDGE(MINES PIT-2)/58N	72.2	67.2

### Permissible Noise Exposures as per Occupational Safety and Health Administration


Duration per Day in Hours	Sound level in dB(A)
½ or less	115
½	110
1	105
1½	102
2	100
3	97
4	95
6	92
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**\*End of Report\***

  
**Authorized Signatory**  
**Mrs. Mitali Rout**



**Seal of Laboratory**

  
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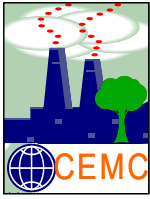
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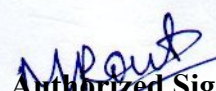
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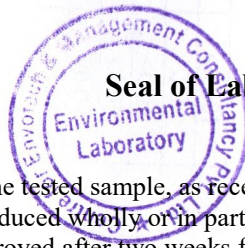
SL No.	Locations with code	NL Day Time dB (A)	NL Night Time dB (A)
1	NEAR MINES PIT-1/59N	73.2	70.6

### Permissible Noise Exposures as per Occupational Safety and Health Administration


Duration per Day in Hours	Sound level in dB(A)
½ or less	115
½	110
1	105
1½	102
2	100
3	97
4	95
6	92
8	90

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