

ENVIRONMENTAL MONITORING REPORT

For

BENIFICIATION PLANT

Extent: 17.50 Acres

Of

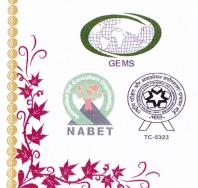
M/s. THAKUR INDUSTRIES, HOSAPETE

at

HIREBAGNAL VILLAGE,
KOPPAL TALUK & KOPPAL DISTRICT,
KARNATAKA.

MARCH-2024

Prepared by



GLOBAL ENVIRONMENT & MINING SERVICES

NABL & MOEFCC RECOGNISED LABORATORY

(Consulting Engineers, Mine Designers, Geologists & Surveyors) $3^{\rm rd}$ main road, Basaveswara badavane

HOSAPETE - 583201, Dist., Vijayanagara (Karnataka)

Tel : 08394 355369

e-mail : gems_hpt@yahoo.com Website : www.globalmining.in **PREFACE**

Any industry is required to apply in the prescribed form to the concerned Pollution

Control Board to obtain the consent to establish as well as to operate the industry

after establishment. Those industries who require the consent under the Air

(prevention & control of pollution) act 1981 and in supersession of the Notification

dated 14th October 1998, the Central Pollution Control Board every year National

Ambient Air Quality Standards Central Pollution Control Board Notification effect on

18th November 2009. Environment quality monitoring (Ambient air, noise, and

water) constitutes the basis for environment appraisal of a project. Thus, data on

environment quality has to be monitored periodically for getting the environment

consents.

Beneficiation Plant of M/s Thakur Industries entrusted the work of environment

monitoring to M/s. Global Environment & Mining Services, Hosapete. The

assignment involves ambient air/ Work zone quality monitoring for parameters of

PM₁₀, PM_{2.5}, SO₂& NO₂ and Collection of environment data water quality and noise in

around Beneficiation Plant of M/s Thakur Industries. Accordingly, the data collection

work is being carried out and this interim report presents the data for the month of-

MARCH-2024.

We convey our sincere thanks to for the opportunity provided to be associated in this

endeavor. All officials for their valuable co-ordination & assistance during our study.

For GLOBAL Environment & Mining Services

Place: Hosapete Date: 05.04.2024

K. RAMAKRISHNA RED (Technical Manager)

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ANNEXURE-1 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

Address

M/s. Thakur Industries,

Sample collected by

Hirebaganal Village, Koppal Tq & Dist. Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler & FPS Sampler

Month

MARCH-2024

Location

A1-Near Plant Main Gate

Duration of Monitoring

24 Hour

Report Issued Date

05.04.2024

Report No

ULR-TC532324000002354F

Parame	ters	PM [μg/	m ³]	PM [μg/		SO [μg/	m ³]	NO ₂ [μg/m³] IS:5182:	
Reference Method		IS:51 (Part-23 (RF-2	2006	Gravimetric Method		IS:5182: (Part-2) 2001 (RF-2017)		(Part-6) 2006 (RF-2017)	
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.03.2024	5640	85.82		19.46		7.26		13.99	
02.03.2024	5664	74.01		22.14		13.00		13.44	
06.03.2024	5744	86.56		25.65		13.73		15.11	
07.03.2024	5765	69.47		31.53		11.66		11.21	
13.03.2024	5919	86.62	100	36.26	60	14.73	80	13.65	80
16.03.2024	5942	74.61		28.70		9.33		11.55	
18.03.2024	5963	82.39		39.17		9.94		14.78	
20.03.2024	6022	80.98		27.62		12.58		20.26	
Avera	ge	80.05		28.81		11.53		14.25	

INFERENCE

As per CPCB Standards,

Report Status: -Measured Values for the above parameters are within the limit.

Priyanka B M Chemist

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
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 Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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ANNEXURE-2 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

M/s. Thakur Industries,

Address

Hirebaganal Village, Koppal Tq & Dist.

Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler & FPS Sampler

Month

MARCH-2024

Location

A2-Near Weigh Bridge (Inside Plant)

Duration of Monitoring

24 Hour

Report Issued Date

05.04.2024

Report No

ULR-TC532324000002355F

D		PM	110	PM:	2.5	SC	$)_2$	NO	O_2
Parameters		[µg	/m ³]	[μg/	m ³]	[µg/m³]		[μg/m ³]	
Reference Method		IS :5182: (Part-23)2006 (RF 2017)			Gravimetric Method		IS: 5182: (Part 2) 2001 (RF 2017)		82: 2006 017)
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.03.2024	5641	74.99		19.34		11.79		15.08	
02.03.2024	5665	70.06		15.19		9.85		15.15	
06.03.2024	5745	66.14		20.91		9.04		15.42	
07.03.2024	5766	78.05		24.52		6.56		11.48	
13.03.2024	5920	68.73	100	25.71	8.71	6.04	80	9.62	80
16.03.2024	5943	81.60		28.36		11.13		9.51	
18.03.2024	5964	78.12		24.40		12.10		11.41	
20.03.2024				21.72		8.27		8.88	
Averag	je	72.83		22.52		9.35		12.07	

INFERENCE

As per CPCB Standards,

Report Status: -Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist

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ANNEXURE-3 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

M/s. Thakur Industries,

Address

Hirebaganal Village, Koppal Tq & Dist.

Sample collected by

Global Environment & Mining Services

Discipline Group

Chemical

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler & FPS Sampler

Month

MARCH-2024

Location

A3-Hirebaganal Village

Duration of Monitoring

24 hours

Report Issued Date

05.04.2024

Report No

ULR-TC532324000002356F

Parame	ters	PM1 [μg/1	m ³]	PM [μg/	2.5 /m³]	[µg/	A STATE OF THE PARTY OF THE PAR	NO ₂ [μg/m ³]	
Reference Method		IS: 5182: (Part 23)2006 (RF2017)		Gravimetric Method		IS: 5182: (Part 2) 2001 (RF 2017)		IS: 5182: (Part 6) 2006 (RF 2017)	
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
01.03.2024	5642	66.58		19.37		7.81		9.52	
02.03.2024	5666	70.51		17.73		6.81		8.42	
06.03.2024	5746	72.70		18.50		10.84		13.52	
07.03.2024	5767	66.14		19.13		10.0		9.54	
13.03.2024	5921	68.08	100	21.55	60	11.81	80	13.28	80
16.03.2024	5944	76.39		18.83		9.46		12.55	
18.03.2024	5965	73.82		19.59		6.35		10.35	
20.03.2024	6024	69.67		22.57		5.80		9.20	
Avera	ge	70.48		19.66		8.61		10.80	

INFERENCE

As per CPCB Standards,

Report Status: -Measured Values for the above parameters are within the limit.

Analysed By Privanka B M Chemist

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ANNEXURE-4 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

Address

M/s. Thakur Industries,

Sample collected by

Hirebaganal Village, Koppal Tq & Dist. Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Particulars of Sample Collected

Respirable Dust Sampler & FPS Sampler

Month

MARCH-2024

Location

A4-Halawarti Village

Duration of Monitoring

24 hours

Report Issued Date

05.04.2024

Report No

ULR-TC532324000002390F

Parame	ters	PM [μg/ IS: 51	m ³]	PM2 [μg/	m ³]	SO ₂ [μg/m³] IS: 5182:		NO ₂ [μg/m ³] IS: 5182:	
Reference Method		(Part 23 (RF20	3)2006	Gravimetric Method		(Part 2) 2001 (RF 2017)		(Part 6) 2006 (RF 2017)	
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.03.2024	5686	51.43		19.43		4.89		5.91	
05.03.2024	5717	61.60		15.99		7.58		7.89	
09.03.2024	5811	60.80		18.70		7.26		8.95	
11.03.2024	5842	58.15		17.05		8.2		9.05	
14.03.2024	5930	55.98	100	15.11	60	8.71	80	7.13	80
15.03.2024	5936	73.23		13.53		8.61		10.24	
19.03.2024	5988	62.76		16.70		5.14		6.48	
20.03.2024	6010	74.93		14.11		9.18		16.80	
Avera	ge	62.36		16.33		7.45		9.06	

INFERENCE

As per CPCB Standards,

Report Status: -Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist

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Website

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ANNEXURE-5 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

Address

M/s. Thakur Industries,

Sample collected by

Hirebaganal Village, Koppal Tq & Dist. Global Environment & Mining Services

Discipline

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Respirable Dust Sampler & FPS Sampler

Particulars of Sample Collected

Month

MARCH-2024

Location **Duration of Monitoring** **A5-Kunikere Tanda Village**

24 hours

Report Issued Date

05.04.2024

Report No ULR-TC532324000002391F

Parame	ters	PM	110	PM	2.5	S	O_2	NO ₂	
		[µg/	$[\mu g/m^3]$		m ³]	[μg/m ³]		[µg/m³]	
Reference Method		IS: 5182: (Part 23) 2006 (RF2017)		Gravimetric Method		IS: 5182: (Part 2) 2001 (RF 2017)		IS: 5182: (Part 6) 2006 (RF 2017)	
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.03.2024	5687	65.44		14.10		6.12		6.29	
05.03.2024	5718	56.47		15.01		4.82		5.40	
09.03.2024	5812	54.33		14.89		6.49		6.25	
11.03.2024	5843	58.57		11.57		7.59		8.95	
14.03.2024	5931	44.93	100	17.97	60	5.55	80	8.81	80
15.03.2024	5937	76.45		12.73		9.06		10.48	
19.03.2024	5989	55.06		14.74		7.69		7.62	
20.03.2024	6011	50.71		8.48		9.35		9.33	
Avera	ge	57.74		13.69		7.09		7.89	

INFERENCE

As per CPCB Standards,

Report Status: -Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist

Authorised Signa K. Ramakrishna Reddy Technical Manager

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ANNEXURE-6 GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries.

M/s. Thakur Industries,

Address

Hirebaganal Village, Koppal Tq & Dist.

Sample collected by

Global Environment & Mining Services

Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Ambient Air Quality Monitoring

Respirable Dust Sampler & FPS Sampler

Particulars of Sample Collected

Month

MARCH-2024

Location **Duration of Monitoring** A6-Allanagara Village

24 hours

Report Issued Date

05.04.2024

Report No

ULR-TC532324000002392F

Paramet Referen Metho	ıce	PM [μg/ IS: 51 (Part 23 (RF20	m ³] .82:) 2006	PM2.5 [μg/m³] Gravimetric Method		SO ₂ [μg/m ³] IS: 5182: (Part 2) 2001 (RF 2017)		[μ; IS: (Part	NO ₂ g/m³] 5182: 6) 2006 2017)
Date	Sample Code	Result	STD	Result	STD	Result	STD	Result	STD
04.03.2024	5688	75.88		16.37		4.89		10.51	
05.03.2024	5719	64.30		17.48		5.37		11.28	
09.03.2024	5813	62.10		14.14		7.57		10.99	
11.03.2024	5844	69.38		18.52		7.8		9.76	
14.03.2024	5932	59.51	100	14.29	60	9.65	80	7.65	80
15.03.2024	5938	71.23		15.42		9.25		9.17	
19.03.2024	5990	62.23		15.53		11.25		10.24	
20.03.2024	6012	67.46		25.87		11.88		11.01	
Avera	ge	66.51		17.20		8.46		10.08	

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit.

Analysed By Priyanka B M Chemist

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ANNEXURE-7 GEMS-LD/TF/08/01

AMBIENT NOISE LEVEL MONITORING REPORT

Name of the Industry

: Beneficiation Plant of M/s. Thakur Industries.

Address

M/s. Thakur Industries,

Hirebaganal Village, Koppal Tq & Dist. Global Environment & Mining Services

Sample collected by Discipline

Chemical

Group

Atmospheric Pollution

Sample Type

Noise Level Monitoring

Particulars of Sample Collected

Lutron 4001

Month

MARCH-2024

Report Issued Date

05.04.2024

Method Adopted

IS 9989-1981 Reaffirmed 2014

Duration of Monitoring

24 hours

Report No

: ULR-TC532324000002357F

Noise Level dB (A)

GL N	Carrala Lagation	Date	Parameters						
Sl. No	Sample Location	Date	Lmin	Lmax	L90	Ld	Ln	Ldn	Leq
1	Near Weigh Bridge (Inside Plant)	02.03.2024	42.4	64.3	62.71	57.09	40.14	55.99	58.60
2	Near Plant Main Gate	01.03.2024	41.8	62.8	60.13	56.10	40.35	55.17	56.33
3	Hirebaganal Village	04.03.2024	40.2	58.9	57.24	52.55	38.65	51.90	52.67
4	Halawarti Village	06.03.2024	38.9	57.4	56.30	50.91	38.34	50.53	52.76
5	Kunikere Tanda Village	07.03.2024	39.2	58.6	56.03	52.63	39.38	52.10	53.62
6	Allanagara Village	09.03.2024	40.1	55.5	54.15	50.71	38.80	52.49	52.98

INFERENCE

As per CPCB Standards

Report Status: - Measured Values for the above parameters are within the limit.

Authorised Sig K. Ramakrishna Reddy Technical Manager

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ANNEXURE-8 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Name of the Industry 1

Beneficiation Plant of M/s. Thakur Industries

2. Address M/s. Thakur Industries,

Sample collected by 3.

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services**

Particulars of sample collected

Grab Sampling

Sampling Procedure

GEMS-LD/SOP/32

Discipline

Chemical

7. Group

8.

Pollution & Environment

Sample type

Ground Water

9. Sample code 5845

Date of sample collection 10.

11.03.2024

Date of sample Received 11.

12.03.2024

12. Date of sample Analysed

13.03.2024 18.03.2024

13. Date of Analysis Completion 14. Report Issue Date

05.04.2024

15. Report Number ULR-TC532324000002471F

SI.	Dawawatawa	Dretocal	Unit	W1		ls as per IS: 0:2012
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.34	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	1450	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	870	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.2	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	<u>-</u>
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	210.68		. €.
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	69.36	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	39.56	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	332.80	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	218.51	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	110.56	200	400

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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No.	1 drumeters		Unit	Results	Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.48	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	9.58	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	271.2	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.12	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W1: Near Canteen Bore Water.

Analysed By Priyanka B. M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

1. 2. 3. 4. 5. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neutrel interfect for implied.

Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard.

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> **ANNEXURE-8** GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Name of the Industry 1

Beneficiation Plant of M/s. Thakur Industries

2. Address M/s. Thakur Industries,

3. Sample collected by

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services**

Particulars of sample collected 4.

Grab Sampling

GEMS-LD/SOP/32

Sampling Procedure 5.

Chemical

7. Group

6.

Pollution & Environment

8. Sample type

Discipline

Ground Water

9. Sample code

5845

10. Date of sample collection 11.03.2024

11. Date of sample Received

12.03.2024

13.03.2024

12. Date of sample Analysed Date of Analysis Completion 13.

18.03.2024

14. Report Issue Date 05.04.2024

15. Report Number GEMS/THAKUR/2023-24/2471

Results

Sl.			***	D I4	Standards as per IS: 10500:2012		
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits	
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15	
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	ōС	25.8	-	-	
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-	
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-	

Note: W1: Near Canteen Bore Water.

Analysed By Priyanka B M Chemist

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ANNEXURE-9 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries

M/s. Thakur Industries,

Address 2.

Hirebaganal Village, Koppal Tq & Dist.

3. Sample collected by **GLOBAL Environment & Mining Services**

Particulars of sample collected 4.

Grab Sampling

Sampling Procedure 5.

GEMS-LD/SOP/32

Discipline 6.

Chemical

Group 7.

Pollution & Environment

Sample type

RO Water

5846

9. Sample code

11.03.2024

10. Date of sample collection

12.03.2024

Date of sample Received 11.

13.03.2024

12. Date of sample Analysed

18.03.2024

Date of Analysis Completion **13.** Report Issue Date

05.04.2024

Report Number 15.

ULR-TC532324000002472F

SI.		Protocol	Unit	W2 Results	Standards as per IS: 10500:2012	
No.	Parameters				Desirable Limits	Permissible Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)		7.04	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	160	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	102.0	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.0	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	-
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	22.65	-	
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0		-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	4.08	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	2.62	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	20.80	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	14.25	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	16.52	200	400

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-9

Sl.	_	Dwatagal	Unit	Results	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.38	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	5.12	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	32.55	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.10	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W2: Canteen R.O. Water.

Analysed By Priyanka B. M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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> **ANNEXURE-9** GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Name of the Industry 1.

Beneficiation Plant of M/s. Thakur Industries

2. Address M/s. Thakur Industries,

Sample collected by 3.

Hirebaganal Village, KoppalTq&Dist. **GLOBAL Environment & Mining Services**

Particulars of sample collected

Grab Sampling

4. Sampling Procedure

GEMS-LD/SOP/32

5. 6. Discipline

Chemical

7. Group Pollution & Environment

8. Sample type

RO Water

9. Sample code 5846

10.

11.03.2024

Date of sample collection Date of sample Received 11.

12.03.2024

12. Date of sample Analysed

13.03.2024

Date of Analysis Completion 13.

18.03.2024

14. Report Issue Date 05.04.2024

Report Number 15.

GEMS/THAKUR/2023-24/2472

Results

Sl.		P	Heit	Dogulta	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	oC	25.2	-	-
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

Note: W2: Canteen R.O. Water.

Analysed By Priyanka B M Chemist

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Website : www.globalmining.in



ANNEXURE-10 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Beneficiation Plant of M/s Thakur Industries Name of the Industry 1.

M/s. Thakur Industries, Address 2.

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services** Sample collected by

Grab Sampling Particulars of sample collected 4.

GEMS-LD/SOP/32 Sampling Procedure 5.

Chemical Discipline 6.

Pollution & Environment Group 7.

Drinking Water (Tap Water) 8. Sample type

Sample code 9.

11.03.2024 Date of sample collection 10. 12.03.2024 Date of sample Received

13.03.2024 Date of sample Analysed 12. 18.03.2024 Date of Analysis Completion 13.

05.04.2024 Report Issue Date 14.

ULR-TC532324000002473F Report Number 15

Sl.		Protocol	** **	W3	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	pН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.65	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	1050	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	630	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.2	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	-
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	130.56	-	-
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	102.0	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	40.33	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	416.0	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	133.0	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	60.56	200	400

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TC-5323

ANNEXURE-10

GI N	Davamatava	Protocol	Unit	Decelte	Standards as per IS: 10500:2012	
Sl.No.	Parameters		Onic	Results	Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.65	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	7.12	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	195.3	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.14	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W3: Hirebaganal Village.

Analysed By Priyanka B. M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-10 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

1. Name of the Industry

Beneficiation Plant of M/s. Thakur Industries

Address M/s. Thakur Industries,

Hirebaganal Village, Koppal Tq &Dist.

3. Sample collected by

GLOBAL Environment & Mining Services

4. Particulars of sample collected

Grab Sampling

5. Sampling Procedure

GEMS-LD/SOP/32

6. Discipline

Chemical

7. Group

2.

: Pollution & Environment

8. Sample type

Drinking Water (Tap Water)

9. Sample code

5847

10. Date of sample collection

11.03.2024

11. Date of sample Received

12.03.2024

12. Date of sample Analysed

13.03.2024

13. Date of Analysis Completion

18.03.2024

14. Report Issue Date

05.04.2024

15. Report Number

GEMS/THAKUR/2023-24/2473

Results

Sl.		Protocol	Unit	Results -	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit		Desirable Limits	Permissible Limits
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	∘C	25.8	<u>-</u>	-
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

Note: W3: Hirebaganal Village.

Analysed By Priyanka B M Chemist

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TC-5323

ANNEXURE-11 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

1. Name of the Industry Beneficiation Plant of M/s Thakur Industries

2. Address M/s. Thakur Industries,

Sample collected by 3.

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services**

Particulars of sample collected

Grab Sampling

Sampling Procedure 5.

GEMS-LD/SOP/32

Discipline

Chemical

Group 7.

Pollution & Environment

8. Sample type **Drinking Water (Tap Water)**

9. Sample code 5848

Date of sample collection 10.

11.03.2024

Date of sample Received 11.

12.03.2024

12. Date of sample Analysed

13.03.2024 18.03.2024

Date of Analysis Completion 13. 14. Report Issue Date

05.04.2024

15. Report Number ULR-TC532324000002474F

Sl.	D	Protocol	Unit	W4	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.21	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	500	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	300	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.1	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	-
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	50.65	-	-
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	32.64	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	9.72	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	124.80	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	61.75	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	25.80	200	400

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TC-5323

ANNEXURE-11

Sl.	P	Protocol	Unit	Results	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.58	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	8.38	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	108.5	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.11	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W4: Halawarti Village.

Priyanka B. M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-11 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

1. Name of the Industry : Beneficiation Plant of M/s. Thakur Industries

2. Address M/s. Thakur Industries,

Hirebaganal Village, Koppal Tq & Dist.
 Sample collected by
 GLOBAL Environment & Mining Services

3. Sample collected by : GLOBAL Environment & Mining Services4. Particulars of sample collected : Grab Sampling

5. Sampling Procedure : GEMS-LD/SOP/32

6. Discipline : Chemical

7. Group : Pollution & Environment

8. Sample type : **Drinking Water (Tap Water)**

9. Sample code : **5848**

10. Date of sample collection : 11.03.202411. Date of sample Received : 12.03.2024

12. Date of sample Analysed : 13.03.2024

13. Date of Analysis Completion : 18.03.202414. Report Issue Date : 05.04.2024

15. Report Number : GEMS/THAKUR/2023-24/2474

Results

Sl.		Dwatagal	Unit	Results	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	oC	25.4	-	-
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

Note: W4: Halawarti Village.

Analysed By Priyanka B M Chemist

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ANNEXURE-12 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Name of the Industry

Beneficiation Plant of M/s Thakur Industries

2. Address M/s. Thakur Industries,

Sample collected by 3.

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services**

Particulars of sample collected 4.

Grab Sampling

Sampling Procedure 5.

GEMS-LD/SOP/32

Discipline 6.

Chemical

Group 7. 8. Sample type Pollution & Environment

Drinking Water (Tap Water)

Sample code

5849 11.03.2024

Date of sample collection 10.

12.03.2024

11. Date of sample Received

13.03.2024

12. Date of sample Analysed 13. Date of Analysis Completion

18.03.2024

Report Issue Date 14.

05.04.2024

Report Number 15.

ULR-TC532324000002475F

SI.		Protocol	¥¥!a	W5	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.65	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	950	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	570	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.2	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	-
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	86.74	-	-
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	81.60	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	32.27	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	332.80	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	123.50	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	90.30	200	400

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ANNEXURE-12

SI.		Protocol	Unit	Results	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Onit	Results	Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.55	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	6.23	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	162.75	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.10	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W5: Kunikere Tanda (Tap Water)

Analysed By Priyanka B. M Chemist

Authorised Signatory K. Ramakrishna Reddy Technical Manager

The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.

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ANNEXURE-12 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

1. Name of the Industry : Beneficiation Plant of M/s. Thakur Industries

M/s. Thakur Industries,
2. Address : Wiseka and William Kay

Address
 Hirebaganal Village, Koppal Tq & Dist.
 Sample collected by
 GLOBAL Environment & Mining Services

4. Particulars of sample collected : Grab Sampling5. Sampling Procedure : GEMS-LD/SOP/32

6. Discipline : Chemical

7. Group : Pollution & Environment

8. Sample type : **Drinking Water (Tap Water)**

9. Sample code : **5849**

10. Date of sample collection : 11.03.202411. Date of sample Received : 12.03.2024

12. Date of sample Analysed : 13.03.202413. Date of Analysis Completion : 18.03.2024

14. Report Issue Date : 05.04.2024

15. Report Number : GEMS/THAKUR/2023-24/2475

Results

Sl.		Poster and	Unit	Results	Standards as per IS: 10500:2012	
No.	Parameters	Protocol	Unit	Results	Desirable Limits	Permissible Limits
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	ºC	25.6	-	-
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

Note: W5: Kunikere Tanda (Tap Water).

Analysed By Priyanka B M Chemist

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ANNEXURE-13 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

Beneficiation Plant of M/s Thakur Industries Name of the Industry 1.

M/s. Thakur Industries, Address 2.

Hirebaganal Village, Koppal Tq & Dist. **GLOBAL Environment & Mining Services** Sample collected by 3.

Particulars of sample collected **Grab Sampling** 4. GEMS-LD/SOP/32 Sampling Procedure 5.

Discipline Chemical 6.

Pollution & Environment 7. Group

8. Sample type **Drinking Water (Bore Water)**

5850 Sample code 9. 11.03.2024 10. Date of sample collection

12.03.2024 11. Date of sample Received 12. Date of sample Analysed 13.03.2024

13. Date of Analysis Completion 18.03.2024 Report Issue Date 05.04.2024

ULR-TC532324000002476F 15. Report Number

Sl.	Parameters	Protocol	Unit	W6 Results	Standards as per IS: 10500:2012	
No.					Desirable Limits	Permissible Limits
1.	рН	APHA 23rd Edition 2017 4500 H+ B (Pg. No.4-95 to 4-99)	-	7.52	6.5 to 8.5	No relaxation
2.	Conductivity	APHA 23 rd Edition 2017 2510 B (Pg. No.2-58)	μS/cm	1300	-	-
3.	Total Dissolved Solids	APHA 23 rd Edition 2017 2540 C (Pg. No.2-69 to 2-70)	mg/L	780	500	2000
4.	Turbidity (NTU)	APHA 23 rd Edition 2017 2130 B (Pg. No.2-13 to 2-15)	NTU	0.2	1	5
5.	Total Suspended Solids	APHA 23 rd Edition 2017 2540 D (Pg. No.2-70 to 2-71)	mg/L	Nil	-	-
6.	Phosphorous as P	APHA 23 rd Edition 2017 4500-P D (Page No. 4-163 to 4-164)	mg/L	<0.01	-	-
7.	Sodium as Na	APHA 23 rd Edition 2017 Na 3500 B (Pg. No.3-99 to 3-100)	mg/L	200.56	-	-
8.	Potassium as K	APHA 23 rd Edition 2017 K 3500 B (Pg. No.3-89 to 3-90)	mg/L	0.0	-	-
9.	Calcium as Ca	APHA 23 rd Edition 2017 3500 Ca B (Pg. No.3-69 to 3-70)	mg/L	85.68	75	200
10.	Magnesium as Mg	APHA 23 rd Edition 2017 3500-B Mg By calculation (Pg. No.3-86)	mg/L	27.31	30	100
11.	Total Hardness as CaCO ₃	APHA 23 rd Edition 2017 2340 C (Page No. 2-48 to 2-50)	mg/L	322.40	200	600
12.	Chloride as Cl	APHA 23 rd Edition 2017 4500 Cl- (Page No. 4-75 to 4-76)	mg/L	118.75	250	1000
13.	Sulphate as SO ₄	APHA 23 rd Edition 2017 4500 -SO ₄ ²⁻ E (Page No. 4-199 to 4-200)	mg/L	140.56	200	400

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ANNEXURE-13

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Desirable Limits	Permissible Limits
14.	Fluoride as F	APHA 23 rd Edition 2017 4500 F- D (Page No. 4-90 to 4-91)	mg/L	0.62	1	1.50
15.	Nitrate Nitrogen as NO ₃	APHA 23 rd Edition 2017 4500 NO ₃ E (Pg. No.4-131 to 4-132)	mg/L	11.98	45	No relaxation
16.	Total Alkalinity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-37 to 2-39)	mg/L	217.0	200	600
17.	Acidity as CaCO ₃	APHA 22nd Edition 2017 2320 B (Pg. No.2-34 to 2-36)	mg/L	0.0	-	-
18.	Total Iron as Fe	APHA 23rd Edition 2017 3500 Fe-B (Pg. No.3-80 to 3-82)	mg/L	0.12	0.30	No relaxation
19.	Nickel as Ni	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.02	No relaxation
20.	Manganese as Mn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	0.10	0.30
21.	Copper as Cu	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.05	0.05	1.50
22.	Zinc as Zn	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.1	5	15
23.	Lead as Pb	APHA 23 rd Edition 3111 B. Direct Air Acetylene Flame Method	mg/L	<0.01	0.01	No relaxation

Note: W6: Allanagara Village.

Analysed By Priyanka B. M Chemist

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ANNEXURE-13 GEMS-LD/TF/23/01

ANALYSIS REPORT OF WATER QUALITY DATA

1. Name of the Industry : Beneficiation Plant of M/s. Thakur Industries

2. Address M/s. Thakur Industries,

Hirebaganal Village, KoppalTq&Dist.

3. Sample collected by : GLOBAL Environment & Mining Services

4. Particulars of sample collected : Grab Sampling5. Sampling Procedure : GEMS-LD/SOP/32

6. Discipline : Chemical

7. Group : Pollution & Environment

8. Sample type : **Drinking Water (Tap Water)**

9. Sample code : **5850**

10. Date of sample collection: 11.03.202411. Date of sample Received: 12.03.202412. Date of sample Analysed: 13.03.2024

 12. Date of Sample Analysed
 : 15.03.2024

 13. Date of Analysis Completion
 : 18.03.2024

 14. Report Issue Date
 : 05.04.2024

15. Report Number : GEMS/THAKUR/2023-24/2476

Results

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Desirable Limits	Permissible Limits
1.	Colour	IS: 3025 (PART 14)- 1984, RA-2012 Platinum cobalt Method	Hazen units	<5	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2012, Thermometer	ōС	25.4	-	-
3.	Total Coli form count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
4.	Escherichia coli count	IS 1622: 1981 (Reaffirmed 1996)	1 CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

Note: W6: Allanagara Village.

Analysed By Priyanka B M Chemist

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