

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI

ORIGINAL APPLICATION NO. 94 of 2024(SZ)

Shafeek S : Applicant

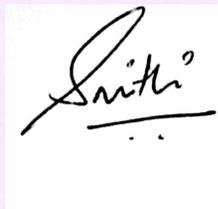
Vs : State of Kerala & Others

State of Kerala & Others : Respondent(s)

VOLUME 1

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	<u>ADDITIONAL REPORT FILED BY THE JOINT COMMITTEE BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, SOUTH ZONE, CHENNAI, IN ORIGINAL APPLICATION NO. 94/2024.</u>	



Adv. Rema Smrithi.V.K

ADDITIONAL STANDING COUNSEL FOR THE SECOND RESPONDENT

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI

ORIGINAL APPLICATION NO. 94 of 2024(SZ)

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Dated this the 14th day of August 2024

Rema Smrithi. V.K, Advocate

ADDITIONAL STANDING COUNSEL FOR THE SECOND RESPONDENT

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

SOUTH ZONE, CHENNAI

Original Application No. 94 of 2024 (SZ)

Petitioner : Shafeek S
Respondents : The Chief Secretary, Govt of Kerala & Ors

**ADDITIONAL REPORT FILED BY THE JOINT COMMITTEE
BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
SOUTH ZONE, CHENNAI, IN ORIGINAL APPLICATION NO.
94/2024.**

1.0 Background

This report is in continuation with the Joint Committee report filed before the Hon'ble NGT on 30/04/2024. The Hon'ble NGT Principal Bench, New Delhi has registered O.A 776 of 2023 based on the email petition sent by Sri. Shafeek S against the pollution from the Kerala Minerals and Metals Ltd, Chavara, Kollam District.

The Principal Bench of the Hon'ble NGT vide order dated 08/02/2024 directed the case to the Southern Zone Bench and constituted a Joint Committee comprising of Kerala State Pollution Control Board & District Collector, Kollam and directed the committee to undertake visits to the sites, look into the grievances of the applicant, associate the applicant and representative of the concerned project proponent, verify the factual position and submit its report within two month. Later the Hon'ble NGT Southern Zone Bench renumbered the case to O.A 94/2024.

**SPECIAL TAHSILDAR
LA KOLLAM
CHAVARA**



Vinaya
VINAYA. K.S
CHIEF ENVIRONMENTAL ENGINEER



The Kerala State Pollution Control Board is the nodal agency for Co-ordination and compliance. In accordance with the above order, Kerala State Pollution Control Board constituted a Joint Committee vide order dated 25/03/2024 with Chief Environmental Engineer, Regional Office, Kerala State Pollution Control Board, Trivandrum and District Collector, Kollam as members. Later Chavara Special Tahsildar, LA KMML, Chavara, was nominated to the Joint Committee by District Collector's office, Kollam.

2.0 Inspection and Analysis Report of Well Water Samples.

In compliance to the NGT order dated 08/02/2024 in O.A 776/2023, field visit was made to Sri. Shafeek S's house, applicant in OA 94/2024 and Kerala Minerals and Metals Ltd, Chavara on 19/04/2024 by the Joint Committee and report was filed to Hon'ble NGT on 30/04/24.

The well water samples collected on 19/04/2024 from the complainant's house premises were analysed for general parameters at District office lab, Kollam and heavy metals were analysed at central lab, Ernakulam. The analysis report is produced here with as Annexure I. The report shows that the parameters such as Iron, Residual Chlorine, Turbidity are exceeding the limits prescribed for drinking water as per IS-10500(2012). The values of Lead, Mercury, Cadmium and Nickel in the well water samples is Below Detectable Limit, but the detectable limit is higher than the permissible limit for drinking purposes.

3.0 Status of Water Supply scheme reported by M/s KMML

The Kerala Minerals and Metals Ltd, Chavara has submitted additional details in connection with the Water supply scheme managed by the industry vide letter dated 01/07/2024 and copy of the report is produced here with as Annexure II. It is reported that drinking water is being supplied to nearby 7 wards through pipelines laid over 65km and through tanker lorries. Thus the company is

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LA KMML
CHAVARA



Vinaya
VINAYA. K.S
CHIEF ENVIRONMENTAL ENGINEER



supplying drinking water to about 5578 House holds in these wards. Quantity of water supplied is reported as 6-7 lakh lpd through pipe lines and 1.6-1.81 lakh lpd through tankers.

As mentioned in the previous report, the grievance of the applicant is about insufficient and irregular supply of drinking water. It is recommended that the company shall ensure sufficient supply of drinking water on a regular basis either through pipe lines or through water tankers to the nearby areas .

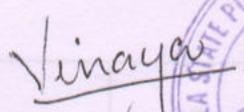
All that stated above are true to the best of my knowledge and belief.

Dated this the 14th day of August 2024.


Special Tahsildar,

LA KMML




Chief Environmental Engineer.

KSPCB'


VINAYA. K.S
CHIEF ENVIRONMENTAL ENGINEER

Solemnly affirmed and signed by the deponent who is known to me on

this the 14th day of August 2024.

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI

ORIGINAL APPLICATION NO. 94 of 2024(SZ)

Shafeek S : Applicant

Vs

State of Kerala & Others : Respondent(s)

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Dated this the 14th day of August 2024

Rema Smrithi. V.K. Advocate

ADDITIONAL STANDING COUNSEL FOR THE SECOND RESPONDENT



**KERALA STATE POLLUTION CONTROL BOARD
CENTRAL LABORATORY**

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TC 8525

TEST REPORT

Analysis Report No.	PCB/CL/0106/2024-25	Date	15.06.2024	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/DO/KLM/LAB/KMML/ 2023 dated 20.04.2024	Date of Collection	19.04.2024		
Received From	District Office, Kollam	Date of Receipt	22.04.2024		
No. of Sample	01	Period of Analysis	01.06.2024 – 14.06.2024		
Source	Well Water Sample of Mr.Shefeek.S	Scientist-in-charge	Dr. Josemin		
Sample Condition	Fit for analysis	Sample Type	Water samples		
Sample collected by	The Environmental Engineer, District Office, Kollam	Sample volume & container type	Plastic Can		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test	CHEMICAL		

SAMPLE ID: KL-SH1

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	---	6.91	APHA, 4500-H+B, 24 th Ed., 2023	1
2	Oil & Grease	mg/L	BDL	APHA, 5520-B, 24 th Ed., 2023	10 mg/L
3	Colour	CU	5	APHA, 2120B, 24 th Ed., 2023	5
4	Total Dissolved Solids	mg/L	219	APHA, 2540-C, 24 th Ed., 2023	10 mg/L
5	Fluorides	mg/L	0.26	APHA,4500-FC, 24 th Ed., 2023	0.1 mg/L
6	Nitrate as Nitrogen	mg/L	5.2	APHA, 4500-NO3, 24 th Ed., 2023	0.01 mg/L
7	Total Hardness	mg/L	66	APHA, 2340-C, 24 th Ed., 2023	5 mg/L
8	Sulphate	mg/L	8.6	APHA,4500-SO42-E,24 th Ed., 2023	1 mg/L
9	Boron	mg/L	BDL	APHA,4500-B B, 24 th Ed.,2023	0.1 mg/L
10	Total Residual Chlorine	mg/L	3.54	APHA, 4500-Cl B,24 th Ed., 2023	1 mg/L
11	Total Chromium	mg/L	BDL	APHA, 3120-B, 24 th Ed., 2023	0.03 mg/L
12	Zinc	mg/L	0.15	APHA, 3120-B, 24 th Ed., 2023	0.02 mg/L
13	Lead	mg/L	BDL	APHA, 3120-B, 24 th Ed., 2023	0.05 mg/L
14	Arsenic	mg/L	BDL	APHA, 3120 – B, 24 th Ed.,2023	0.01 mg/L
15	Manganese	mg/L	0.13	APHA,3120-B, 24 th Ed., 2023	0.05 mg/L

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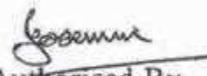
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16	Iron	mg/L	4.32	APHA, 3120-B, 24 th Ed., 2023	0.05 mg/L
17	Mercury	mg/L	BDL	APHA, 3120 - B, 24 th Ed.,2023	0.01 mg/L
18	Cadmium	mg/L	BDL	APHA, 3120 - B, 24 th Ed.,2023	0.01 mg/L
19	Nickel	mg/L	BDL	APHA, 3120 - B, 24 th Ed.,2023	0.05 mg/L
20	Copper	mg/L	BDL	APHA, 3120 - B, 24 th Ed.,2023	0.02 mg/L

--End of Report--

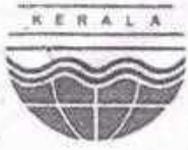

Checked By

Assistant Scientist
Kerala State Pollution Control Board
Central Laboratory
Gandhinagar, Cochin-20


Authorised By

Dr. JOSEMIN
Environmental Scientist

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CENTRAL LABORATORY

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TEST REPORT

Analysis Report No.	PCB/CL/0106/2024-25	Date	15.06.2024	Format No.	PCB/CL/CH/F-7
Ref. No.	PCB/DO/KLM/LAB/KMML/ 2023 dated 20.04.2024	Date of Collection			19.04.2024
Received From	District Office, Kollam	Date of Receipt			22.04.2024
No. of Sample	01	Period of Analysis			01.06.2024 – 14.06.2024
Source	Well Water Sample of Mr. Shefeek.S	Scientist-in-charge			Dr. Josemin
Sample Condition	Fit for analysis	Sample Type			Water samples
Sample collected by	The Environmental Engineer, District Office, Kollam	Sample volume & container type			Plastic Can
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test			CHEMICAL

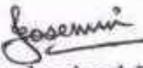
SAMPLE ID: KL-SH1

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	Titanium	mg/L	0.11	APHA,3500-Ti, 24 th Ed., 2023	0.0002 mg/L
2	Vanadium	mg/L	BDL	APHA,3500-V, 24 th Ed., 2023	0.008 mg/L

--End of Report--


Checked By

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Kerala State Pollution Control Board
Central Laboratory
Gandhinagar, Cochin-20


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Source	Well Water Sample of Mr.Shefeek.S	Scientist-in-charge			Dr. Josemin
Sample Condition	Fit for analysis	Sample Type			Water samples
Sample collected by	The Environmental Engineer, District Office, Kollam	Sample volume & container type			Plastic Can
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test			CHEMICAL

SAMPLE ID: KL-SH2

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	---	6.59	APHA, 4500-H+B, 24 th Ed., 2023	1
2	Oil & Grease	mg/L	BDL	APHA, 5520-B, 24 th Ed., 2023	10 mg/L
3	Colour	CU	5	APHA, 2120B, 24 th Ed., 2023	5
4	Total Dissolved Solids	mg/L	407	APHA, 2540-C, 24 th Ed., 2023	10 mg/L
5	Fluorides	mg/L	0.09	APHA,4500-FC, 24 th Ed., 2023	0.1 mg/L
6	Nitrate as Nitrogen	mg/L	9.7	APHA, 4500-NO3, 24 th Ed., 2023	0.01 mg/L
7	Total Hardness	mg/L	216	APHA, 2340-C, 24 th Ed., 2023	5 mg/L
8	Sulphate	mg/L	29.4	APHA,4500-SO42-E,24 th Ed., 2023	1 mg/L
9	Boron	mg/L	BDL	APHA,4500-B B, 24 th Ed.,2023	0.1 mg/L
10	Total Residual Chlorine	mg/L	3.54	APHA, 4500-CI B,24 th Ed., 2023	1 mg/L
11	Total Chromium	mg/L	BDL	APHA, 3120-B, 24 th Ed., 2023	0.03 mg/L
12	Zinc	mg/L	0.09	APHA, 3120-B, 24 th Ed., 2023	0.02 mg/L
13	Lead	mg/L	BDL	APHA, 3120-B, 24 th Ed., 2023	0.05 mg/L
14	Arsenic	mg/L	BDL	APHA, 3120 – B, 24 th Ed.,2023	0.01 mg/L
15	Manganese	mg/L	0.08	APHA,3120-B, 24 th Ed., 2023	0.05 mg/L

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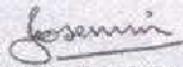
Certified for OHSMS (ISO 45001:2018)

16	Iron	mg/L	0.42	APHA, 3120-B, 24 th Ed., 2023	0.05 mg/l
17	Mercury	mg/L	BDL	APHA, 3120 - B, 24 th Ed., 2023	0.01 mg/L
18	Cadmium	mg/L	BDL	APHA, 3120 - B, 24 th Ed., 2023	0.01 mg/L
19	Nickel	mg/L	BDL	APHA, 3120 - B, 24 th Ed., 2023	0.05 mg/L
20	Copper	mg/L	BDL	APHA, 3120 - B, 24 th Ed., 2023	0.02 mg/L

--End of Report--


Checked By

Assistant Scientist
Kerala State Pollution Control Board
Central Laboratory
Gandhinagar, Cochin-20


Authorised By

Dr. JOSEMIN
Environmental Scientist

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CENTRAL LABORATORY**

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No. of Sample	01	Period of Analysis	01.06.2024 – 14.06.2024		
Source	Well Water Sample of Mr. Shefeek.S	Scientist-in-charge	Dr. Josemin		
Sample Condition	Fit for analysis	Sample Type	Water samples		
Sample collected by	The Environmental Engineer, District Office, Kollam	Sample volume & container type	Plastic Can		
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test	CHEMICAL		

SAMPLE ID: KL-SH2

Sl. No	Parameters	Unit	Value	Test Method	Detection Limit
1	Titanium	mg/L	0.01	APHA,3500-Ti, 24 th Ed., 2023	0.0002 mg/L
2	Vanadium	mg/L	BDL	APHA,3500-V, 24 th Ed., 2023	0.008 mg/L

--End of Report--

Ajo
Checked By

Assistant Scientist
Kerala State Pollution Control Board
Central Laboratory
Gandhinagar, Cochin-22

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Dr. JOSEMIN
Environmental Scientist

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KERALA STATE POLLUTION CONTROL BOARD

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DISTRICT OFFICE

ജില്ലാ ഓഫീസ്

USHUS BUILDING, BIG BAZAR, KOLLAM – 691 001

ഉഷസ്സ് ബിൽഡിംഗ്, ബിഗ് ബസാർ, കൊല്ലം - 691 001



ANALYSIS REPORT

No: 50/2024

Date:03.05.2024

Source: Well water sample collected from Mr.Shefeeq's house based on O.A.94 of 2024 (SZ) regarding the pollution issues of M/s KMML

Date of sample collection: 19.04.2024

Period of analysis: 19.04.2024 - 30.4.2024

Scientist-in-charge of analysis: Assistant Scientist.

SI No.	Parameter	Unit	Value		Location
			Sample No.		
			SH 1	SH 2	
1.	Conductivity	µS	270	415	SH 1- (Lat 8.998996, Long 76.537895)
2.	Turbidity -	NTU	28.1	BDL	
3.	Dissolved oxygen	mg/L	3.2	3.4	SH 2 - (Lat 8.998771, Long 76.539972)
4.	B.O.D	mg/L	2.1	0.9	
5.	Suspended Solids	mg/L	91	6.7	

Assistant Scientist

Copy to: AE-2



The Kerala Minerals and Metals Ltd.

(A Govt. of Kerala Undertaking)

(An ISO 9001, ISO 14001 & ISO 45001 Certified Company)

**SANKARAMANGALAM, CHAVARA-691 583
KOLLAM, KERALA, INDIA.**

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CIN-U14109KL1972SGC002399

TP/TS/PCB-GL
01.07.2024

To

**The Chief Environmental Engineer
Regional office
Kerala State Pollution Control Board
Pattom P.O.
Thiruvananthapuram- 695004.**

Sir/ Madam,

Sub: Status Report in connection with OA 94/2024 of Hon'ble NGT SZ- Water Supply Scheme provided by M/s KMML.

Ref: (1) Letter No: PCB/RO/KMML/NGT- OA NO 94/2024 (sz) dt.29.06.2024.

We are in receipt of the above letter from your good office seeking few point wise details regarding public water supply from KMML.

In the above context, attaching (Annexure-I) herewith the reply to point wise details sought, for your kind perusal.

Thanking You,
Yours faithfully

For The Kerala Minerals and Metals Limited

MANAGING DIRECTOR

Annexure-I

Sl. No.	Particulars	Details
1	No. of wards covered	7nos. Chitoor, Mekkad, Ponmana, Panmana, Kalari, Kolam and Porukara.
2	No. of Households covered	5578
3	No. of residents covered and time allotted to each ward	Around 5578. Water is getting allotted in the following modes. (1)Through direct pipelines (Forenoon and Afternoon) from KMML. (2)Through tanker lorry. With the above arrangements and without affecting our TiO ₂ production to the possible extent, we are supplying more than 7-8 lakh Litres of water/ day to the public as committed in the Hon'ble NGT cases. (3) Other than the above, 6 dedicated tube wells are installed outside the premises under the funding of the company for public water supply & each tube well pumping around 20 m ³ / Hr.
4	Details about length of pipe laid quantity of water supplied through pipeline	Length of pipeline is around 65 km and 7 Lakh litres per day is supplied through pipe line.
5	Quantity of water supplied through Tanker lorry and its details	1,60,000 to 1,81,000 Litres/ day. Last 6 months details attached as Annexure-II.

ANNEXURE - II

PUBLIC WATER SUPPLY THRU TANKER

01-Jan	122	01-Feb	188	01-Mar	184	01-Apr	172	01-May	194	01-Jun	186
02-Jan	179	02-Feb	161	02-Mar	179	02-Apr	185	02-May	207	02-Jun	200
03-Jan	538	03-Feb	160	03-Mar	190	03-Apr	187	03-May	175	03-Jun	185
04-Jan	161	04-Feb	155	04-Mar	154	04-Apr	179	04-May	193	04-Jun	177
05-Jan	151	05-Feb	109	05-Mar	165	05-Apr	174	05-May	176	05-Jun	189
06-Jan	171	06-Feb	175	06-Mar	165	06-Apr	183	06-May	193	06-Jun	185
07-Jan	176	07-Feb	177	07-Mar	167	07-Apr	190	07-May	196	07-Jun	164
08-Jan	111	08-Feb	150	08-Mar	194	08-Apr	167	08-May	174	08-Jun	196
09-Jan	165	09-Feb	168	09-Mar	211	09-Apr	173	09-May	187	09-Jun	165
10-Jan	160	10-Feb	170	10-Mar	168	10-Apr	104	10-May	176	10-Jun	180
11-Jan	155	11-Feb	151	11-Mar	114	11-Apr	193	11-May	200	11-Jun	163
12-Jan	155	12-Feb	165	12-Mar	140	12-Apr	183	12-May	205	12-Jun	183
13-Jan	167	13-Feb	135	13-Mar	179	13-Apr	185	13-May	145	13-Jun	188
14-Jan	171	14-Feb	157	14-Mar	207	14-Apr	158	14-May	189	14-Jun	174
15-Jan	132	15-Feb	152	15-Mar	213	15-Apr	197	15-May	169	15-Jun	139
16-Jan	153	16-Feb	177	16-Mar	176	16-Apr	190	16-May	195	16-Jun	172
17-Jan	155	17-Feb	107	17-Mar	230	17-Apr	178	17-May	199	17-Jun	66
18-Jan	128	18-Feb	147	18-Mar	195	18-Apr	187	18-May	158	18-Jun	127
19-Jan	168	19-Feb	166	19-Mar	198	19-Apr	178	19-May	192	19-Jun	128
20-Jan	138	20-Feb	159	20-Mar	183	20-Apr	193	20-May	183	20-Jun	144
21-Jan	153	21-Feb	154	21-Mar	197	21-Apr	198	21-May	173	21-Jun	177
22-Jan	140	22-Feb	163	22-Mar	160	22-Apr	191	22-May	171	22-Jun	180
23-Jan	143	23-Feb	161	23-Mar	183	23-Apr	191	23-May	155	23-Jun	166
24-Jan	117	24-Feb	176	24-Mar	184	24-Apr	182	24-May	172	24-Jun	165
25-Jan	185	25-Feb	185	25-Mar	151	25-Apr	188	25-May	184	25-Jun	174
26-Jan	135	26-Feb	165	26-Mar	114	26-Apr	182	26-May	169	26-Jun	167
27-Jan	155	27-Feb	165	27-Mar	190	27-Apr	184	27-May	187	27-Jun	174
28-Jan	150	28-Feb	197	28-Mar	189	28-Apr	193	28-May	91	28-Jun	110
29-Jan	167	29-Feb	198	29-Mar	188	29-Apr	166	29-May	147	29-Jun	173
30-Jan	151			30-Mar	188	30-Apr	187	30-May	123	30-Jun	171
31-Jan	145			31-Mar	185			31-May	173		
Total	5097		4693		5541		5418		5451		4968
Avg	164.42		161.83		178.74		180.60		175.84		165.60

* ALL VALUES ARE IN CUBIC METRES.