



## Compost Sample Analysis Report

Report No.	IPL / T / 02 / 31773	Date of Issue	14 / 02 / 2020
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference:
Sample Name	COMPOST	Sample Description	COMPOST SAMPLE
Sampling done by	--	Date of Sampling	10 / 02 / 2020
Sampling Location	--	Sample Quantity / Packing	500 gms.
Start Date of Analysis	11 / 02 / 2020	Date of completion of Analysis	14 / 02 / 2020

SR	PARAMETERS	Unit	RESULT	Limits as per STD FCO
1	Colour	--	Greyish Black	--
2	Odour	--	Odourless	--
3	pH	--	7.15	6.5 to 7.5
5	Electrical Conductivity (10% solution)	dS/m	2.38	< 4
6	Total Nitrogen	%	1.12	> 0.5
7	Moisture Content	%	17.32	15 - 25
8	Total Organic Carbon	%	17.5	> 16.0
9	C / N Ratio	--	15.43	< 20
10	Bulk Density	mg/Kg	0.79	0.7 to 0.9
11	Total Potassium	%	1.21	> 1.0
12	Total Phosphorous	%	0.55	> 0.5
13	Zinc as Zn	mg/Kg	103.5	< 1000
14	Copper as Cu	mg/Kg	36.7	< 300
15	Lead as Pb	mg/Kg	Nil	< 100
16	Nickel as Ni	mg/Kg	0.205	< 50
17	Mercury as Hg	mg/Kg	Nil	--
18	Arsenic as As	mg/Kg	Nil	--
19	Cadmium as Cd	mg/Kg	Nil	< 5.0
20	Chromium as Cr	mg/Kg	Nil	< 50

Authorised Signatory  
(Mr. Sanjeev Katariya, Managing Director)

End of Test Report  
Page 1

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# SEC

## Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.  
Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454493,  
E-mail : bssubbarao@yahoo.com / bssharal@yahoo.com / bsnagjyoti@yahoo.com  
QCI - NABET Accredited ETA Consultant Organization - Certificate No.  
NABET / EIA / 1619 / RA 0057 valid upto June 12, 2019,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2019


### TEST REPORT

Report Ref. No. : SEC/W-TO/11-20	End of Analysis : 25 November 2020
Name of Industry/Customer: <b>Vitthal Corporation Ltd.</b>	Report Date : 27 December 2020
Address: Po- Mhaisgaon, (Tq)- Madha, (Dst)- Solapur – 413250.	Lab ID/Sample Ref. No. : TO3
Date of Collection / Sampling : 18 November 2020	Nature of Sample: Water
Date of Receipt : 18 November 2020	Sample Collected By: Party
Date of Analysis: 19 November 2020	Sample Quantity : 1 lit
Name of Sample : <b>Digester Overflow</b>	

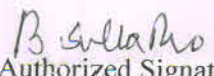
Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	8.29	IS:3025 (P-11) 1983
2	C.O.D	mg/l	27,000	IS:3025 (P-58) 2006
3	B.O.D	mg/l	6200	IS:3025 (P-44) 1993
4	Total Solids	mg/l	43000	APHA 22 <sup>nd</sup> Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	15,140	APHA 22 <sup>nd</sup> Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	27,860	APHA 22 <sup>nd</sup> Edition-2012, 2540 C
7	Chlorides	mg/l	5998	IS:3025 (P-32) 1988
8	Sulphates	mg/l	5887	IS:3025 (P-24) 1986
9	Potassium	mg/l	12,700	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 



  
Authorized Signatory  
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

\*\*\*END of Test Report \*\*\*





# SEC

## Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.  
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NABET / EIA / 1619 / RA 0057 valid upto June 12, 2019,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2019

### TEST REPORT

Report Ref. No. : SEC/W-TO/11-20	End of Analysis : 25 November 2020
Name of Industry/Customer: <b>Vitthal Corporation Ltd.</b>	Report Date : 27 December 2020
Address: Po- Mhaisgaon, (Tq)- Madha, (Dst)- Solapur - 413250.	Lab ID/Sample Ref. No. : TO5
Date of Collection / Sampling : 18 November 2020	Nature of Sample: Water
Date of Receipt : 18 November 2020	Sample Collected By: Party
Date of Analysis: 19 November 2020	Sample Quantity : 1 lit
Name of Sample : <b>Raw Spentwash</b>	

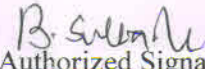
Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.74	IS:3025 (P-11) 1983
2	C.O.D	mg/l	28,400	IS:3025 (P-58) 2006
3	B.O.D	mg/l	8700	IS:3025 (P-44) 1993
4	Total Solids	mg/l	52,314	APHA 22 <sup>nd</sup> Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	23,380	APHA 22 <sup>nd</sup> Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	28,934	APHA 22 <sup>nd</sup> Edition-2012, 2540 C
7	Chlorides	mg/l	6499	IS:3025 (P-32) 1988
8	Sulphates	mg/l	6285	IS:3025 (P-24) 1986
9	Potassium	mg/l	12200	IS:3025 (P-45) 1993

#### Remarks:

Thanking you

Analysed By 



  
Authorized Signatory

Technical Manager/ Quality Manager

#### Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

\*\*\*END of Test Report \*\*\*





# INSTA POLLUTECH LABS

Testing Services

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ISO 14001:2015  
OHSAS 18001:2007  
Reg. No.: RI91/7721

## Soil Sample Analysis Report

REPORT NO.	IPL / T / 02 / 31774	DATE OF ISSUE	14 / 02 / 2020	
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250	Order Reference:		
Sample Description / Type	SOIL SAMPLE	Sample Collected by	Our Representative	
Sampling Location	--	Sample Quantity / Packing	1 PKT X 500 gms	
Date of Sampling	10 / 02 / 2020	Date of Sample Receipt	11 / 02 / 2020	
Sampling Procedure	Soil Testing Manual (Jan 2011)			
Date of Start of Analysis	11 / 02 / 2020	Date of completion of Analysis	14 / 02 / 2020	
SR	PARAMETERS	UNIT	RESULT	Methods Of Analysis
<b>A</b>	<b>GENERAL PARAMETERS</b>			
1	PH of 1 % Solution	--	7.04	Soil Testing Manual ( Jan 2011 )
2	Conductivity of 1% Solution	µMHOs	69.8	Soil Testing Manual ( Jan 2011 )
3	Nitrogen as N	Kg/He	286	Soil Testing Manual ( Jan 2011 )
<b>B</b>	<b>PHYSICAL PARAMETERS</b>			
4	Water Retention Capacity	%	45	Soil Testing Manual ( Jan 2011 )
5	Bulk Density	Kg/m <sup>3</sup>	1.14	Soil Testing Manual ( Jan 2011 )
6	Moisture	%	8.6	Soil Testing Manual ( Jan 2011 )
7	Cation Exchange Capacity	meq/100g	21.7	Soil Testing Manual ( Jan 2011 )
<b>C</b>	<b>CHEMICAL PARAMETERS (BY WATER LEACHATE)</b>			
8	Sulphate as SO <sub>4</sub>	Kg/He	598.3	Soil Testing Manual ( Jan 2011 )
9	Chlorides as Cl	Kg/He	1014.3	APHA 21 <sup>st</sup> Edition, Part 4500-Cl- B, Page 4-70 Argentometric Method.
10	Calcium as Ca	Kg/He	298	Soil Testing Manual ( Jan 2011 )
11	Potash as K <sub>2</sub> O	Kg/He	347	Soil Testing Manual ( Jan 2011 )
12	Copper as Cu	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
13	Zinc as Zn	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
14	Iron as Fe	Kg/He	43.8	Soil Testing Manual ( Jan 2011 ) AAS method
15	Manganese as Mn	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
16	Boron as B	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
17	Phosphorous as P <sub>2</sub> O <sub>5</sub>	Kg/He	69	Soil Testing Manual ( Jan 2011 )
<b>D</b>	<b>HEAVY METALS (BY ACID LEACHATE)</b>			
18	Nickel as Ni	Kg/He	BDL	SW-846 Methods Status Table (Method 3050B-1)
19	Cadmium as Cd	Kg/He	BDL	SW-846 Methods Status Table (Method 3050B-1)
20	Lead as Pb	Kg/He	BDL	SW-846 Methods Status Table (Method 3050B-1)
21	Phenolic Compound	Kg/He	BDL	APHA 22 <sup>nd</sup> Edition, Part 5530 B, C, D, Page 5-44 to 49
22	Chromium as Cr	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
23	Cobalt as Co	Kg/He	BDL	Soil Testing Manual ( Jan 2011 ) AAS method
<b>E</b>	<b>ALKALI METALS</b>			
24	Sodium as Na	Kg/He	1248.5	Soil Testing Manual ( Jan 2011 )
<b>F</b>	Total Organic Carbon	%	0.59	Soil Testing Manual ( Jan 2011 )
<b>G</b>	Organic Matter	%	1.18	Soil Testing Manual ( Jan 2011 )

BDL - Below Detectable limit

Authorised Signatory  
(Mr. Sanjeev Katariya, Managing Director)

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## Effluent Sample Analysis Report

REPORT NO.	IPL / T / 02 / 34455		DATE OF ISSUE	06 / 02 / 2021
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference :	
Sample Description / Type	RAW SPENT WASH SAMPLE	Sample Collected by	Our Representative	
Sampling Location	--	Sample Quantity / Packing	1 Lit. x 1 Bottle	
Date of Sampling	02 / 02 / 2021	Date of Sample Receipt	03 / 02 / 2021	
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43			
Date of Start of Analysis	03 / 02 / 2021	Date of completion of Analysis	06 / 02 / 2021	
SR.	PARAMETER	UNIT	RESULTS	METHOD OF ANALYSIS
	Colour		Dark Brown	
1	PH	--	4.1	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
2	T. S. S.	mg/lit	32254	APHA 22 <sup>nd</sup> Edition, Part 2540D, Page 2-66
3	B. O. D. FOR 3 DAYS AT 27 °C	mg/lit	48274	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
4	C. O. D.	mg/lit	97254	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
5	OIL & GREASE	mg/lit	2.5	APHA 22 <sup>nd</sup> Edition, Part 5520 B, Page 5-40
6	T. D. S.	mg/lit	99258	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65,
7	SULPHATE	mg/lit	5007	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
8	CHLORIDE	mg/lit	5965	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl <sup>-</sup> B, Page 4-75
9	Total Organic Carbon	mg/lit	51254	TOC Meter
10	Ammonical Nitrogen	mg/lit	9865	APHA 22 <sup>nd</sup> Edition, Part 4500-NH <sub>3</sub> C, Page 4-112
11	Nitrate	mg/lit	5784	APHA 22 <sup>nd</sup> Edition, Part 4500-NO <sub>3</sub> <sup>-</sup> B, Page 4-122
12	Potassium	mg/lit	745	APHA 22 <sup>nd</sup> Edition, Part 3500-K B, Page 3-87
13	Sodium	mg/lit	986	APHA 22 <sup>nd</sup> Edition, Part 3500 Na B, Page 3-97

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(Mr. Sanjeev Katariya, Managing Director)

End of Test Report  
Page 1 of 1

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## Effluent Sample Analysis Report

REPORT NO.	IPL / T / 02 / 34456	DATE OF ISSUE	06 / 02 / 2021
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference :
Sample Description / Type	DIGESTER SPENT TREATED SAMPLE	Sample Collected by	Our Representative
Sampling Location	--	Sample Quantity / Packing	1 Lit. x 1 Bottle
Date of Sampling	02 / 02 / 2021	Date of Sample Receipt	03 / 02 / 2021
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43		
Date of Start of Analysis	03 / 02 / 2021	Date of completion of Analysis	06 / 02 / 2021

SR.	PARAMETER	UNIT	RESULTS	METHOD OF ANALYSIS
	Colour		Dark Brown	
1	PH	--	4.4	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
2	T. S. S.	mg/lit	17856	APHA 22 <sup>nd</sup> Edition, Part 2540D, Page 2-66
3	B. O. D. FOR 3 DAYS AT 27 °C	mg/lit	15891	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
4	C. O. D.	mg/lit	53145	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
5	OIL & GREASE	mg/lit	1.2	APHA 22 <sup>nd</sup> Edition, Part 5520 B, Page 5-40
6	T. D. S.	mg/lit	84325	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65,
7	SULPHATE	mg/lit	3965	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
8	CHLORIDE	mg/lit	4985	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl <sup>-</sup> B, Page 4-75
9	Total Organic Carbon	mg/lit	34265	TOC Meter
10	Ammonical Nitrogen	mg/lit	6424	APHA 22 <sup>nd</sup> Edition, Part 4500-NH <sub>3</sub> C, Page 4-112
11	Nitrate	mg/lit	4795	APHA 22 <sup>nd</sup> Edition, Part 4500-NO <sub>3</sub> <sup>-</sup> B, Page 4-122
12	Potassium	mg/lit	621	APHA 22 <sup>nd</sup> Edition, Part 3500-K B, Page 3-87
13	Sodium	mg/lit	904	APHA 22 <sup>nd</sup> Edition, Part 3500 Na B, Page 3-97

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(Mr. Sanjeev Katariya, Managing Director)

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Page 1 of 1

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## Stack Emission Monitoring Report

REPORT NO.	IPL / STK - AIR / 20 / 2038		Date : 16 / 01 / 2021		
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference :		
Sample Description / Type	STACK EMISSION	Sample Collected by	Laboratory		
Sampling Location	BOILER STACK (50 TPH & 25 TPH)	Sample Quantity/Packing	1 X 1 No. Thimbles 25 ml X 4 No. PVC Bottle		
Date of Sampling	11 / 01 / 2021	Date of Sample Receipt	13 / 01 / 2021		
Sampling Procedure	IS: 11255 (Part-I), 1985, 11255 (Part-II), 1985, Instrument Manual of M/s. Vayubodhan LTD. Lab. ID No. IPL / SMK / 057.				
Date of Start of Analysis	13 / 01 / 2021	Date of completion of Analysis	16 / 01 / 2021		
SR. NO.	PARAMETER	UNIT	RESULTS	LIMITS PRESCRIBED BY MPCB (NOT TO EXCEED)	METHOD REFERENCE
1	Stack Height	Meters	65	--	--
2	Stack Diameter	Meters	3.8	--	
3	Type of Fuel	--	Bagasse	--	
4	Fuel Quantity	MT/Day	248 + 495		
5	Temperature Of Flue Gas	Deg. C.	178	--	
6	Velocity Of Flue Gas.	M / Sec.	10.2	--	IS: 11255 (Part-I), 1985, Instrument Manual of M/s. Vayubodhan
7	Volume Of Flue Gas	Nm <sup>3</sup> / Hr	381714	--	
8	Total Particulate Matter	mg / Nm <sup>3</sup>	112.4	150	IS: 11255 (Part-I), 1985, Instrument Manual of M/s. Vayubodhan
9	Sulphur Di Oxide	Kg / Day	35	80	Barium Per chlorate - Thorium Method, IS: 11255 (Part-II), 1985, Instrument Manual of M/s. Vayubodhan
10	Oxides of Nitrogen	mg / Nm <sup>3</sup>	68	80	EPA Method & Manual of Vayubodhan Pvt. Ltd.

Note :- Moisture Content was found to be Negligible.

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## Effluent Sample Analysis Report

REPORT NO.	IPL / T / 01 / 34198	DATE OF ISSUE	16 / 01 / 2021		
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference :		
Sample Description / Type	ETP OUTLET SAMPLE	Sample Collected by	Our Representative		
Sampling Location	--	Sample Quantity / Packing	1 Lit. x 1 Bottle		
Date of Sampling	11 / 01 / 2021	Date of Sample Receipt	13 / 01 / 2021		
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43				
Date of Start of Analysis	13 / 01 / 2021	Date of completion of Analysis	16 / 01 / 2021		
SR.	PARAMETER	UNIT	RESULTS	LIMITS AS PER MPCB CONSENT (Not to exceed)	METHOD OF ANALYSIS
1	PH	--	6.95	5.5 - 9.0	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
2	T. S. S.	mg/lit	69.2	100	APHA 22 <sup>nd</sup> Edition, Part 2540D, Page 2-66
3	B. O. D. FOR 3 DAYS AT 27 °C	mg/lit	65	100	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
4	C. O. D.	mg/lit	214	250	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
5	OIL & GREASE	mg/lit	2.8	10	APHA 22 <sup>nd</sup> Edition, Part 5520 B, Page 5-40
6	T. D. S.	mg/lit	874	2100	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65,
7	SULPHATE	mg/lit	298	1000	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
8	CHLORIDE	mg/lit	235	600	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl B, Page 4-75

  
**Authorised Signatory**  
 (Mr. Sanjeev Katariya, Managing Director)

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## Effluent Sample Analysis Report

REPORT NO.	IPL / T / 01 / 34197	DATE OF ISSUE	16 / 01 / 2021	
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference :	
Sample Description / Type	UNTREATED ETP SAMPLE	Sample Collected by	Our Representative	
Sampling Location	--	Sample Quantity / Packing	1 Lit. x 1 Bottle	
Date of Sampling	11 / 01 / 2021	Date of Sample Receipt	13 / 01 / 2021	
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43			
Date of Start of Analysis	13 / 01 / 2021	Date of completion of Analysis	16 / 01 / 2021	
SR.	PARAMETER	UNIT	RESULTS	METHOD OF ANALYSIS
1	Ph	--	4.11	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
2	T. S. S.	mg/lit	2147	APHA 22 <sup>nd</sup> Edition, Part 2540D, Page 2-66
3	B. O. D. FOR 3 DAYS AT 27 °C	mg/lit	2078	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
4	C. O. D.	mg/lit	3986	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
5	OIL & GREASE	mg/lit	28.6	APHA 22 <sup>nd</sup> Edition, Part 5520 B, Page 5-40
6	T. D. S.	mg/lit	3528	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65,
7	SULPHATE	mg/lit	859	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
8	CHLORIDE	mg/lit	1127	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl <sup>-</sup> B, Page 4-75

  
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(Mr. Sanjeev Katariya, Managing Director)

End of Test Report  
Page 1 of 1

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Testing Services



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Reg. No.: RI91/7721

## Water Sample Analysis Report

REPORT NO.	IPL / T / 02 / 31770		DATE OF ISSUE		14 / 02 / 2020
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250				Order Reference:
Sample Description / Type	RIVER WATER		Sample Collected by		Our Representative
Sampling Location	--		Sample Quantity / Packing		5 Lit. x 1 Can 100 ml sterile glass Bottle
Date of Sampling	10 / 02 / 2020		Date of Sample Receipt		11 / 02 / 2020
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43				
Date of Start of Analysis	11 / 02 / 2020		Date of completion of Analysis		14 / 02 / 2020
SR. NO.	PARAMETER	UNIT	RESULT	LIMITS AS PER IS 10500:2012 (Max.)	METHODS
A	ORGANOLEPTIC AND PHYSICAL PARAMETERS				
1	Color	Hazen	<2	Colorless	IS 3025 (Part 4) 1983
2	Odor	--	Agreeable	Agreeable	APHA 22 <sup>nd</sup> Edition, Part 2150B, Page 2-16,
3	Turbidity	[NTU]	4.8	1	APHA 22 <sup>nd</sup> Edition, Part 2130B, Page 2-13
4	TDS	mg/lit.	401	500	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65
5	pH	--	7.14	6.5 to 8.5	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
6	Total Hardness	mg/lit.	196	200	APHA 22 <sup>nd</sup> Edition, Part 2340 C, Page 2-44
7	Calcium [as Ca]	mg/lit.	54	75	APHA 22 <sup>nd</sup> Edition, Part 3500-Ca B, Page 3-67
8	Magnesium as Mg	mg/lit.	21	30	APHA 22 <sup>nd</sup> Edition, Part 3500, Page 3-84
9	Chlorides [as Cl]	mg/lit.	128	250	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl <sup>-</sup> B, Page 4-75
10	Sulphates [as SO <sub>4</sub> ]	mg/lit.	74	200	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
11	Nitrate Nitrogen	mg/lit.	3.54	45	APHA 22 <sup>nd</sup> Edition, Part 4500-NO <sub>3</sub> <sup>-</sup> B, Page 4-122
12	Nickel	mg/lit.	BDL	--	APHA 21 <sup>st</sup> Edition, Part 3110 and 3111B and CB, Page 3-87
13	Iron [as Fe]	mg/lit.	0.19	0.3	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14, 3500 Fe B 3-77
14	Fluoride	mg/lit.	0.24	1	APHA 22 <sup>nd</sup> Edition, Part 4500-F <sup>-</sup> D, Page 4-87
15	Lead	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14
16	Cadmium	mg/lit.	BDL	0.01	APHA 22 <sup>nd</sup> Edition, Part 3500 Cd Cadmium, Page 3-105
17	COD	mg/lit.	34	--	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
18	BOD	mg/lit.	14	--	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
19	Pesticides	ug/L	BDL	--	EPA Method
20	Phenolic Compound	mg/lit.	BDL	0.002	APHA 22 <sup>nd</sup> Edition, Part 5530 B, C, D, Page 5-44 to 49
21	Zinc	mg/lit.	BDL	5	APHA 22 <sup>nd</sup> Edition, Part 3111 B, Page 3-18
22	Copper	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3111B, Page 3-18
23	Conductivity	μS/cm	628	--	APHA 21 <sup>st</sup> Edition, Part 2510B, Page 2-47
24	Total Suspended Solid	mg/lit.	24.6	--	APHA 22 <sup>nd</sup> Edition, Part 2540D, Page 2-66
25	DO	mg/lit.	4.8	--	APHA 22 <sup>nd</sup> Edition, Part 4500-O C, Page 4-137
26	E - Coli	--	Present	Absent	IS: 1622 - 1981
27	Fecal Coliform	MPN/100ml	7	Absent	IS: 1622 - 1981
28	Total Coliform	MPN/100ml	27	Absent	IS: 1622 - 1981
29	Total Kjeldal Nitrogen	mg/lit.	18.60	--	APHA 21 <sup>st</sup> Edition, Part 4500-Norg B, Page 4-131
30	Total Alkalinity as CaCO <sub>3</sub>	mg/lit.	124.3	200	APHA 22 <sup>nd</sup> Edition, Part 2320 B, Page 2-34

Note - BDL - Below Detectable limit

Remark: - Water is Potable Only After Chlorination, Sample falls under Class D & E as per IS: 2296.

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(Mr. Sanjeev Katariya, Managing Director)

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## Ambient Air Quality Monitoring Report

REPORT NO.	IPL / AMB - AIR / 21 / 1249		Date : 16 / 01 / 2021		
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference : As per the P. O.		
Sample Description / Type	AMBIENT AIR	Sample Collected by	Our Representative		
Sampling Location	NEAR STORE	Sample Quantity / Packing	1 X 1 No. G F Filter Paper 1 X 1 No. PTFE Filter Paper 25 ml X 4 No. Bottle		
Date of Sampling & Duration	11 / 01 / 2021 (24 Hrs.)	Date of Sample Receipt	12 / 01 / 2021		
Sampling Procedure	IS: 5182 (Part-4), 1999 1 <sup>st</sup> Revision, IS: 5182 (Part-2) 2001, IS: 5182 (Part-6) 2006, 1 <sup>st</sup> Revision, Manual of RESPIRABLE DUST SAMPLER, MAKE - ENVIROTECH, SR. NO. 1, ID NO. IPL/RSPM - 1/060				
Date of Start of Analysis	13 / 01 / 2021	Date of completion of Analysis	16 / 01 / 2021		
SR. NO	PARAMETER	UNIT	RESULTS	STANDARDS AS PER THE ENVIRONMENT (PROTECTION) RULES, 1986	METHOD REFERENCE
1	PARTICULATE MATTER (SIZE LESS THAN 10 µm)	µg / m <sup>3</sup>	81.26	100	IS: 5182 (Part-23), 2006, Manual of Envirotech Instruments Pvt. Ltd
2	PARTICULATE MATTER (SIZE LESS THAN 2.5 µm)	µg / m <sup>3</sup>	57.84	60	IS: 5182 (Part-4), 1999, 1 <sup>st</sup> Revision, Manual of Envirotech Instruments Pvt. Ltd
3	SULPHUR DI-OXIDE.	µg / m <sup>3</sup>	45.62	80	IS: 5182 (Part-2), 2001, 1 <sup>st</sup> Revision, Manual of Envirotech Instruments Pvt. Ltd.
4	NITROGEN DIOXIDE	µg / m <sup>3</sup>	49.35	80	IS: 5182 (Part-6), 2006, 1 <sup>st</sup> Revision, Manual of Envirotech Instruments Pvt. Ltd.
5	LEAD AS Pb	µg / m <sup>3</sup>	BDL	1.0	APHA Method No. 315, (AAS method) Paper Extraction method
6	CARBON MONOXIDE (1 HR)	mg / m <sup>3</sup>	1.8	04	NDIR Method, Instrument Manual of ACE Gas Analyser
7	AMMONIA	µg / m <sup>3</sup>	53.17	400	APHA Method No.401 Manual of Envirotech Instruments Pvt. Ltd.(CHEMICAL METHOD)
8	OZONE (O <sub>3</sub> ) µg / m <sup>3</sup> (1 Hr)	µg / m <sup>3</sup>	23.81	180	IS: 5182 (Part-9), 1974, Reaffirmed 2003, Manual of Envirotech Instruments Pvt. Ltd.
9	BENZENE	µg / m <sup>3</sup>	BDL	05	IS:5182 (Part 11) -2006, Second Revision
10	BENZO (A) PYRENE - PARTICULATE PHASE	ng / m <sup>3</sup>	BDL	01	IS: 5182 (Part-12), 2004, & GC manual of Thermo fisher Pvt. Ltd
11	ARSENIC	ng / m <sup>3</sup>	BDL	06	EPA Method IO-3.2: Determination of Metals in Ambient Particulate Matter Using Atomic Absorption (AA) Spectroscopy.
12	NICKEL	ng / m <sup>3</sup>	BDL	20	

  
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End of Test Report  
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## Water Sample Analysis Report

REPORT NO.	IPL / T / 02 / 34459	DATE OF ISSUE	06 / 02 / 2021
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference:
Sample Description / Type	BORE WELL WATER	Sample Collected by	Our Representative
Sampling Location	Srimant Pandurang Nimbalkar, Mhaisgaon	Sample Quantity / Packing	5 Lit. x 1 Can 100 ml sterile glass Bottle
Date of Sampling	02 / 02 / 2021	Date of Sample Receipt	03 / 02 / 2021
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43		
Date of Start of Analysis	03 / 02 / 2021	Date of completion of Analysis	06 / 02 / 2021

SR. NO.	PARAMETER	UNIT	RESULT	LIMITS AS PER IS 10500:2012 (Max.)	METHODS
A	ORGANOLEPTIC AND PHYSICAL PARAMETERS				
1	Color	Hazen	<2	Colorless	IS 3025 (Part 4) 1983
2	Odor	--	Agreeable	Agreeable	APHA 22 <sup>nd</sup> Edition, Part 2150B, Page 2-16,
3	Turbidity	[NTU]	<1	1	APHA 22 <sup>nd</sup> Edition, Part 2130B, Page 2-13
4	TDS	mg/lit.	624	500	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65
5	pH	--	7.11	6.5 to 8.5	APHA 22 <sup>nd</sup> Edition, Part 4500-H+ B, Page 4-92
6	Total Hardness	mg/lit.	359	200	APHA 22 <sup>nd</sup> Edition, Part 2340 C, Page 2-44
7	Calcium [as Ca]	mg/lit.	72	75	APHA 22 <sup>nd</sup> Edition, Part 3500-Ca B, Page 3-67
8	Magnesium as Mg	mg/lit.	34	30	APHA 22 <sup>nd</sup> Edition, Part 3500, Page 3-84
9	Chlorides [as Cl]	mg/lit.	135	250	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl- B, Page 4-75
10	Sulphates [as SO <sub>4</sub> ]	mg/lit.	11.9	200	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
11	Nitrate Nitrogen	mg/lit.	12.6	45	APHA 22 <sup>nd</sup> Edition, Part 4500-NO <sub>3</sub> <sup>-</sup> B, Page 4-122
12	Nickel	mg/lit.	BDL	--	APHA 21 <sup>st</sup> Edition, Part 3110 and 3111B and CB, Page 3-87
13	Iron [as Fe]	mg/lit.	1.04	0.3	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14, 3500 Fe B 3-77
14	Fluoride	mg/lit.	0.12	1	APHA 22 <sup>nd</sup> Edition, Part 4500-F D, Page 4-87
15	Lead	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14
16	Cadmium	mg/lit.	BDL	0.01	APHA 22 <sup>nd</sup> Edition, Part 3500 Cd Cadmium, Page 3-105
17	COD	mg/lit.	4	--	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
18	BOD	mg/lit.	<2	--	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
19	Pesticides	ug/L	BDL	--	EPA Method
20	Phenolic Compound	mg/lit.	BDL	0.002	APHA 22 <sup>nd</sup> Edition, Part 5530 B, C, D, Page 5-44 to 49
21	Zinc	mg/lit.	BDL	5	APHA 22 <sup>nd</sup> Edition, Part 3111 B, Page 3-18
22	Copper	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3111B, Page 3-18
23	Conductivity	µS/cm	985	--	APHA 21 <sup>st</sup> Edition, Part 2510B, Page 2-47
24	Total Alkalinity as CaCO <sub>3</sub>	mg/lit.	142	200	APHA 22 <sup>nd</sup> Edition, Part 2320 B, Page 2-34
25	E - Coli	--	Absent	Absent	IS: 1622 - 1981
26	Total Coliform	MPN/100ml	Absent	Absent	IS: 1622 - 1981

Note - BDL - Below Detectable limit

Remark: - Water is Potable, only after Softening.

Authorised Signatory

(Mr. Sanjeev Katariya, Managing Director)

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## Water Sample Analysis Report

REPORT NO.	IPL / T / 02 / 34460	DATE OF ISSUE	06 / 02 / 2021
Name and Address	M/S. VITTHAL CORPORATION LIMITED Vitthalrao Shinde Nagar, P. O. Mhaisgaon, Tal. - Madha, Dist. - Solapur, Pin. - 413250		Order Reference:
Sample Description / Type	BORE WELL WATER	Sample Collected by	Our Representative
Sampling Location	Rajivkumar Doka, Mhaisgaon	Sample Quantity / Packing	5 Lit. x 1 Can 100 ml sterile glass Bottle
Date of Sampling	02 / 02 / 2021	Date of Sample Receipt	03 / 02 / 2021
Sampling Procedure	APHA 22 <sup>nd</sup> Edition, Part 1060, Page 1-39 & 1-43		
Date of Start of Analysis	03 / 02 / 2021	Date of completion of Analysis	06 / 02 / 2021

SR. NO.	PARAMETER	UNIT	RESULT	LIMITS AS PER IS 10500:2012 (Max.)	METHODS
A	ORGANOLEPTIC AND PHYSICAL PARAMETERS				
1	Color	Hazen	<2	Colorless	IS 3025 (Part 4) 1983
2	Odor	--	Agreeable	Agreeable	APHA 22 <sup>nd</sup> Edition, Part 2150B, Page 2-16,
3	Turbidity	[NTU]	<1	1	APHA 22 <sup>nd</sup> Edition, Part 2130B, Page 2-13
4	TDS	mg/lit.	574	500	APHA 22 <sup>nd</sup> Edition, Part 2540C, Page 2-65
5	pH	--	7.14	6.5 to 8.5	APHA 22 <sup>nd</sup> Edition, Part 4500-H <sup>+</sup> B, Page 4-92
6	Total Hardness	mg/lit.	311	200	APHA 22 <sup>nd</sup> Edition, Part 2340 C, Page 2-44
7	Calcium [as Ca]	mg/lit.	64	75	APHA 22 <sup>nd</sup> Edition, Part 3500-Ca B, Page 3-67
8	Magnesium as Mg	mg/lit.	27	30	APHA 22 <sup>nd</sup> Edition, Part 3500, Page 3-84
9	Chlorides [as Cl]	mg/lit.	129	250	APHA 22 <sup>nd</sup> Edition, Part 4500-Cl <sup>-</sup> B, Page 4-75
10	Sulphates [as SO <sub>4</sub> ]	mg/lit.	17.8	200	APHA 22 <sup>nd</sup> Edition, Part 4500 SO <sub>4</sub> <sup>2-</sup> E, Page 4-190
11	Nitrate Nitrogen	mg/lit.	14.8	45	APHA 22 <sup>nd</sup> Edition, Part 4500-NO <sub>3</sub> <sup>-</sup> B, Page 4-122
12	Nickel	mg/lit.	BDL	--	APHA 21 <sup>st</sup> Edition, Part 3110 and 3111B and CB, Page 3-87
13	Iron [as Fe]	mg/lit.	0.74	0.3	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14, 3500 Fe B 3-77
14	Fluoride	mg/lit.	0.11	1	APHA 22 <sup>nd</sup> Edition, Part 4500-F <sup>-</sup> D, Page 4-87
15	Lead	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3110, Page 3-14
16	Cadmium	mg/lit.	BDL	0.01	APHA 22 <sup>nd</sup> Edition, Part 3500 Cd Cadmium, Page 3-105
17	COD	mg/lit.	5	--	APHA 22 <sup>nd</sup> Edition, Part 5220B, Page 5-17
18	BOD	mg/lit.	<2	--	APHA 22 <sup>nd</sup> Edition, Part 5210B, Page 5-5
19	Pesticides	ug/L	BDL	--	EPA Method
20	Phenolic Compound	mg/lit.	BDL	0.002	APHA 22 <sup>nd</sup> Edition, Part 5530 B, C, D, Page 5-44 to 49
21	Zinc	mg/lit.	BDL	5	APHA 22 <sup>nd</sup> Edition, Part 3111 B, Page 3-18
22	Copper	mg/lit.	BDL	0.05	APHA 22 <sup>nd</sup> Edition, Part 3111B, Page 3-18
23	Conductivity	µS/cm	907	--	APHA 21 <sup>st</sup> Edition, Part 2510B, Page 2-47
24	Total Alkalinity as CaCO <sub>3</sub>	mg/lit.	126	200	APHA 22 <sup>nd</sup> Edition, Part 2320 B, Page 2-34
25	E - Coli	--	Absent	Absent	IS: 1622 - 1981
26	Total Coliform	MPN/100ml	Absent	Absent	IS: 1622 - 1981

Note - BDL - Below Detectable limit

Remark: - Water is Potable, only after Softening.

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