clc

CIN No. : L26943RJ1979PLC001935 Phone : 01462 228101-6 Toll Free : 1800 180 6003 / 6004 Fax : 01462 228117 / 228119 E-Mail : shreebwr@shreecement.com Website : www.shreecement.com



SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/Mines/Env. Statement /2019-2020 603-

Date: 10/09/2020 Speed Post

To, The Member Secretary Rajasthan Pollution Control Board 4, Institutional Area, Jhalana Doongri Road JAIPUR-302004 (Rajasthan)

# **Mines Cell**

Sub:- Environmental Statement for the period from April 2019 to March 2020 for Nimbeti Limestone Mines of M/s Shree Cement Limited situated near Village-Nimbeti Ras, Tehsil- Jaitaran, Dist- Pali (Raj)

Ref: - CTO No.- F(Mines)/Pali(Jaitaran)/100(1)/2017-2018/8221-8225 dated 28/12/2017

Sir,

We are submitting herewith the Environmental Statement for the **period from April 2019 to March 2020** for **Nimbeti Limestone Mines** (A Captive Mine of M/s Shree Cement Ltd.) situated near Village-Nimbeti Ras, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you, Yours faithfully,

For Shree Cement Limited;

100

(Dr. Anil Kumar Trivedi) Sr. GM (Environment)

Encl: a/a

Copy to:-

- Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor Sector H, Aliganj, Lucknow – 226024 (U.P.)
- 2. The Regional Officer (Regional Office), Rajasthan Board for the Prevention & Control of Pollution, S / A-6, Mandia Road, Industrial Area, Near Pali Urban Co-Operative Bank, PALI- MARWAR- 306401 (Raj.)

O/C SCL

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015 Phone : 0141 4241200, 4241204 NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002 Phone : 011 23370828, 23379218, 23370776 CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 22309601-4 Fax : 033 22434226

#### ENVIRONMENTAL STATEMENT

## FORM - V

# Nimbeti Limestone Mine of M/s Shree Cement Limited Period from: April 2019 to March 2020

#### Name and address of the Nimbeti Limestone Mine Owner / Occupier of the M/s Shree Cement Ltd: 1. Industry operation or Village: Nimbeti/Ras, Tehsil: Jaitaran, Dist: Pali -306107 (Rajasthan) process Industry Category Primary (S.T.C. Code) 2. **Red** Category Secondary (S.T.C. Code) **Production Capacity** 25.3 Million TPA Limestone 3. Year of Establishment 4. 1997 Date of the last 5. **Environmental Statement** 10/09/2019 Submitted

#### $\underline{PART - A}$

# PART – B

#### WATER AND RAW MATERIAL CONSUMPTION

Water consumption				
Process (Dust suppression, Crusher) 73600 KL				
	63987 KL (Common for Cement Plant,			
Domestic	Power Plant, Synthetic Gypsum Plant and			
	Mines)			

# **1. Water Consumption**

Name of Products	Process Water Consumption Per Unit of Output (KL / MT of Limestone)	
Mining of Limestone	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
	0.00584	0.00464

# 2. Raw Material Consumption:

Name of Raw Materials	Name of Products	Consumption of ra of ou	w material per uni utput
N.A.	Limestone	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
	Not A	pplicable	

# 3. Power Consumption (KWH/T of Limestone):

During Previous Financial Year	During Current Financial Year
(2018-2019)	(2019-2020)
1.18	1.176

# 4. Total Limestone Production (in Lac Tones):

During Previous Financial Year	During Current Financial Year
(2018-2019)	(2019-2020)
174.6356	158.52774

# $\underline{PART - C}$

# **DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT**

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Prevent age of variation from prescribed standards with		
			reasons		
(a) Water	and treated effluent and sludge generated is b				
	plantation and horticulture activities.				
		TP treated water is atta			
	Waste water generated from mines work shop is being				
	rease traces.				
(b) Air					

# <u>PART – D</u> <u>HAZARDOUS WASTES</u>

As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rules, 2016)

	Total Qua	antity (Kg.)
Hazardous Waste	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
(a)From Process	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic	Common authorization for Hazardous Waste Management
(b)From Pollution Control Facilities	N.A.	N.A.

<u>PART – E</u> SOLID WASTE

Sr.	Particulars	Total Quantity		
No.		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)	
(a)	From process	Not Applicable		
(b)	From pollution control facility	Not Applicable		
(c)	1. Quantity recycled or re-utilized within the unit	e 19.51 49.907		
	2. Sold			
	3. Disposed: During mining of limestone disposed of overburden. (in Lac tones) *			

• Overburden is being dumped in overburden dump yard.

# <u>PART – F</u>

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes:

#### Hazardous Wastes

A. Cement manufacturing is based on "Dry Process" technology. No Hazardous waste is generated from the process except used oil which is drained from machineries / equipment. Used oil is being Co-processed in cement kiln as authorization obtained from RSPCB. Old and scrap lead acid batteries are sold to CPCB authorized recyclers.

Sr.	Particulars		
No.		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
1	Used oil (Co processed in Cement Kiln)	12780 KL	26820 KL
2	Lead acid battery waste (Sell to authorized recycler)	7.854 MT	4.986 MT

B. Hazardous wastes were received and co-processed as specified under Hazardous Wastes (Management, Handling &Trans boundary Movement Rule, 2016) during the Current Financial Year (2019-2020) – (During the Period of April -2019 to March-2020

S. No.	Type of hazardous waste	Category	Quantity (MT)
1	a) Paint Sludge	21.1	1913.782
2	b) ETP/CETP Sludge	35.3	21572.714
3	c)Phosphate sludge	12.5	199.395
4	d) Oil soaked cotton, Industrial Waste, residue containing oil, Grinding sludge etc.	5.2	4526.749
5	e) Spent acid	26.3	33072.88
6	f) Incineration ash	36.2	95.685
7	g) SOBM	2.1	32126.544

#### SI Shree

**Continuation sheet** 

8	h) Cotton rags	33.2	68.645
9	i) Spent Clay	4.5	501.973
10	j) Waste or residues	23.1	2099.45
11	k) Organic Residue	4.4	33.402
12	l) Spent Carbon	28.3	293.33
13	m) Co-Incenerable waste	28.2	668.12
14	n)Distillation residue	28.1	684.92
15	o) Spent Solvent	28.6	551.915
16	p) Plastic waste	33.1	25.42
17	q) Iron Sludge	26.1	1036.34
18	r) Other Waste	N.A	354.84
Total Quantity			99826.104

# **Bio-Medical Wastes:**

Bio-medical waste generated is common for cement plant, power plant and mines during current financial year April 2019 to March 2020 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

				<b>Bio-Medical</b>	Waste Quantit	y (Kg) as per	Color Coding
Period				Red	Blue	Yellow	White
April 2019	2018	to	March	39.21	28.448	41.065	32.01
April 2020	2019	to	March	49.00	46.3	19.83	24.171

Above mentioned waste has been sent to Sales Promoter, CBWTF Bio Medical Treatment Facility, Jaipur Bye Pass Road, Ajmer (Raj.) for disposal.

#### E- Wastes:

Particulars	Total Quantity

SI Shree Cement

**Continuation sheet** 

		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
From Process		Nil	Nil
From Pollution Facility	Control	Nil	Nil

**Solid Wastes:** - Solid waste from the mines is overburden (waste rock) is being handled by shovel & dumper combination from working face and dumped systematically at overburden dump yard.

Other Municipal solid waste generated from all units (Cement Plant, Power Plant, Sy. Gypsum Plant and Nimbeti Limestone Mines) of the entire campus is being collected, manage and disposed as per MSW Rules, 2016.

# SI Shree

## **Battery Wastes:**

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories is common for Cement Plant, Power Plant, Sy. Gypsum Plant and Limestone Mines –

1.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency		ear Financial pr 2018 to 31 <sup>st</sup>	Current Year Financial Year (1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020)			
	Category: (i) Automotive a) Four wheeler	ategory: (i) No. of Batteries		(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
	a) Four wheeler	219	9.568	195	4.917		
	b) Two wheeler	Nil	Nil	Nil	Nil		
	(ii) Industrial						
	a) UPS	66	0.563	310	9.166		
	b) Motive Power	Nil	Nil	Nil	Nil		
	c) Stand –by	Nil	Nil	Nil	Nil		
	(iii) Others	Nil	Nil	3	0.004		
	otal	285 Nos	10.131 MT	508 Nos	14.087 MT		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of						
2.	Number of used batteries of categories	Previous Y	ear Financial pr 2018 to 31 <sup>st</sup>	Current Y	/ /ear Financial Apr 2019 to 31 <sup>st</sup>		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries	Previous Y Year (1 <sup>st</sup> A	ear Financial pr 2018 to 31 <sup>st</sup>	Current Y Year (1 <sup>st</sup> A	/ /ear Financial Apr 2019 to 31 <sup>st</sup>		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of	<b>Year Financial</b> Spr 2018 to 31 <sup>st</sup> (ii) Approximate Weight (In	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of	(ii) Approximate Weight (In		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent Category:	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of	<b>Year Financial</b> Spr 2018 to 31 <sup>st</sup> (ii) Approximate Weight (In	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of	(ii) Approximate Weight (In		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent Category: (i) Automotive	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries	<b>Year Financial</b> <b>Spr 2018 to 31</b> <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes)	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries	(ii) Appr 2019 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes)		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sentCategory:(i) Automotive a) Four wheelerb) Two wheeler	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries 301	Year Financial Spr 2018 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 7.854	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries	(ii) Appr 2019 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 4.986		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent   Category:   (i) Automotive   a) Four wheeler	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries 301	Year Financial Spr 2018 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 7.854	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries	<b>Year Financial</b> Apr 2019 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 4.986		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent   Category:   (i) Automotive   a) Four wheeler   b) Two wheeler   (i) Industrial	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries 301 Nil	Year Financial   Spr 2018 to 31 <sup>st</sup> (ii) Approximate   Weight (In   Metric Tonnes)   7.854   Nil	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries 168 Nil	(ii) Apr 2019 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 4.986 Nil		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent Category: (i) Automotive a) Four wheeler b) Two wheeler (ii) Industrial a) UPS	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries 301 Nil 112	Year Financial   .pr 2018 to 31st   (ii) Approximate   Weight (In   Metric Tonnes)   7.854   Nil   0.896	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries 168 Nil	(ii) Appr 2019 to 31 <sup>st</sup> (ii) Approximate Weight (In Metric Tonnes) 4.986 Nil 0		
2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sentCategory:(i) Automotive a) Four wheelerb) Two wheeler(ii) Industrial a) UPSb) Motive Power	Previous Y Year (1 <sup>st</sup> A Mar 2019) (i) No. of Batteries 301 Nil 112 Nil	Year Financial   .pr 2018 to 31st   (ii) Approximate   Weight (In   Metric Tonnes)   7.854   Nil   0.896   Nil	Current Y Year (1 <sup>st</sup> A Mar 2020) (i) No. of Batteries 168 Nil 0 Nil	(ii)   Appr 2019 to 31 <sup>st</sup> (ii)   Approximate   Weight (In   Metric Tonnes)   4.986   Nil   0   Nil		

Used battery scrap was sent to CPCB authorized recycler

# <u>PART - G</u>

# In respect of the pollution abatement measures taken up on conservation of natural resources and on the cost of production: -

- 1. Low grade limestone is used with high grade lime stone for conservation of lime stone.
- 2. Automatic water sprinkler system has been installed for water spraying on haulage road.
- 3. Controlled blasting is being done for further reduction of fugitive emissions.

# <u> PART – H</u>

# Additional measures / investment proposal for environment protection including abatement & prevention of pollution: -

- 1. Blasting is being done by using of shock tube detonators (Down line detonators in combination of Noise less trunk line detonators) which is latest technology available, resulting in reduction of noise level and ground vibration to a great extent.
- 2. We are using Rock breakers for breaking of oversize boulders instead of secondary blasting which eliminated vibration, noise, fly rocks & reducing greenhouse gases which have caused due to secondary blasting.
- 3. Massive plantation has been carried out within and outside mine lease area. Up to March 2019 total 92460 nos. of trees has been planted in mine lease area.
- 4. Operator independent truck dispatch system (OITDS) has been installed for reducing down time heavy earth equipment's thereby reducing emissions.
- 5. Closed unloading hopper with water sprinkling arrangement is provided for unloading of limestone.

# PART - I

#### Any other particular for improving the quality of the environment: -

- 1. Wet drilling system/dust cyclone precipitator with drilling machine is used while drilling so that dust is suppressed immediately and the same drill cutting is being used as stemming material for blast hole.
- 2. The haul road is maintained using motor grader and soil compactor. Water is sprayed on haul road by sprinkler attached with tipper (water tanker).
- 3. Dust generated during unloading of limestone in hopper is suppressed by Water spraying in the form shower with pressure from nozzle fitted to main water pipe line (Atomized water sprinkler system) in both of crusher, so that dust

#### Shree Cement

#### **Continuation sheet**

generated while crushing is suppressed. Water is sprinkled at material transfer chute to prevent generation of dust.

- 4. Control Blasting is being done which has low velocity of detonation therefore air pollution, is very meager. Non electric blasting system is used to reduce ground vibration.
- 5. All personal protective equipments (PPE's) provided to all Mine Employee i.e. Dust-Masks (Respirator), Ear Plug, Eye Goggle, Ear Mark etc concern to them as additional measures of air & noise control.
- 6. Construction of grease and oil catchers at washing ramp to avoid pollution. Separated oil and grease from above catchers is sent to plant with used oil.
- 7. We have an organizational structure for Environment Management to carry out implementation of environment measures envisaged in the EMP (Please refer Annexure-3)
- 8. Full flashed environment laboratory monitors ambient air quality for PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub> and Noise level.

# Annexure-1

Ambient Air Quality Monitoring Report (SPM, PM10, PM2.5, SO<sub>2</sub> and NO<sub>2</sub>)

					Shro	ee Cement	Ltd, R	as						
					1	Year:-2019	9-2020							
		-		Ambie	ent Air Qu	uality at N	imbeti	Mine (µg	/m3)					
Location	Mines office			N	ear Nimb	eti villa	ge	Near I	Mines c	rusher	Near Mines phase			
Month	LocationPMPMSO2NO2Month2.510SO2NO2			PM 2.5	PM 10	SO2	NO2	SPM	SO2	NO2	SPM	SO2	NO2	
Apr-19	36.0	58.0	8.3	11.4	31.5	53.0	8.0	11.5	391.5	8.3	11.5	349.5	8.6	11.5
May-19	34.0	54.0	8.9	12.1	35.5	55.5	7.6	12.9	412.5	8.5	11.3	347.5	9.2	12.0
Jun-19	36.5	53.5	8.3	12.9	32.0	54.5	8.1	11.9	375.5	9.1	11.9	381.0	8.6	12.6
Jul-19	15.0	22.5	8.3	10.3	14.0	21.5	8.7	10.1	82.0	9.9	11.5	85.5	9.5	12.4
Aug-19	15.0	20.0	8.0	10.0	17.5	27.0	8.3	9.9	90.5	9.6	11.1	100.5	9.5	12.4
Sep-19	37.5	57.4	8.7	18.8	39.5	58.7	7.9	19.8	82.5	8.3	9.5	99.5	10.2	10.4
Oct-19	31.5	44.5	8.2	9.0	34.5	49.0	8.3	8.9	102.5	8.3	9.4	105.5	9.4	10.2
Nov-19	33.0	45.0	8.4	10.5	35.0	48.5	8.5	10.5	142.0	8.1	9.0	134.0	9.9	10.9
Dec-19	39.5	50.5	8.8	13.6	40.0	52.5	8.7	12.8	202.0	8.3	13.2	163.5	8.7	12.6
Jan-20	34.5	46.0	9.5	14.3	33.0	48.5	10.2	13.5	290.0	9.7	13.4	235.0	9.1	12.8
Feb-20	30.5	49.0	9.8	15.1	31.5	47.0	10.9	14.5	274.5	9.2	13.1	258.0	9.9	13.5
Mar-20	34.0	51.0	9.4	14.2	28.5	41.5	9.8	14.8	243.5	9.0	12.4	238.5	10.1	14.2
Average	31.4	45.9	8.7	12.7	31.0	46.4	8.7	12.6	224.1	8.9	11.5	208.2	9.4	12.1

# \* Suspended Particulate Matter (µg/m3)

NOTE:- Frequency of mines monitoring changed from Quarterly to Twice in a month by MoEF by the Circular dated 14/5/2009& 27/5/2009.

# Annexure-2

# Ambient Noise Level monitoring report

			Shree	Cement Ltd,	Ras				
			Ye	ear:-2019-2020	)				
		A	mbient Nois	e Level ( Leq-	dB(A) Mines				
Location		ear s Office		ear ti Village		ear Crusher	Near Mines Phase		
Month	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
Apr-19	72.50	63.05	66.75	58.85	71.85	57.40	66.10	56.15	
May-19	73.10	64.20	67.70	55.25	71.35	59.60	65.20	57.15	
Jun-19	70.95	64.20	67.05	54.50	72.70	58.70	66.90	58.05	
Jul-19	71.50	64.70	66.25	53.10	70.65	59.80	64.55	57.45	
Aug-19	71.55	62.80	65.60	52.55	70.60	59.80	64.10	57.45	
Sep-19	70.99	63.17	67.45	59.55	71.35	61.10	64.70	54.25	
Oct-19	71.40	64.60	66.90	57.70	70.90	62.60	65.00	58.30	
Nov-19	70.90	63.80	64.70	57.00	69.90	61.40	62.80	56.90	
Dec-19	71.20	66.30	63.70	58.00	71.50	61.50	61.30	56.00	
Jan-20	71.20	59.50	61.20	55.10	71.60	61.50	62.40	58.10	
Feb-20	71.60	60.50	58.50	53.90	73.10	63.30	63.60	59.90	
Mar-20	72.90	63.20	59.90	55.40	73.20	64.10	64.50	59.70	
Average	71.6	63.3	64.6	55.9	71.6	60.9	64.3	57.5	

Annexure- 3

## **Organizational Structure for Environment Management**

#### NIMBETI LIMESTONE MINES Organizational Structure for Environment Management

We have an Environment Management Cell to carry out implementation of Environment Measures envisaged in the EMP., as follows: -

S. No.	Name	Designation
1	Dr. Anil Kumar Trivedi	Sr. General Manager (Environment)
2	Sh. Pankaj Agarwal	Assistant Vice President (Mines)
3	Sh. Manish Bohra	Addi. General Manager (Mines)
4	Sh. Lalit Kumar Bora	Assist. GM (Environment)
5	Dr. R. L. Meena	Assist. GM (Environment)
6	Sh. G. L. Yadav	Assistant Manager (Environment)
7	Sh. Piyush Singh Brijvasi	Officer (Environment)
8	Sh. Mohit Kumar	Assistant Officer (Environment)
9	Sh. Chandra Kant Tyagi	Assistant Officer (Environment)
10	Sh. Rajesh Yadav	Manager (Horticulture)

# Annexure: 4

	(STP Treated Water Quality, Year 2019-2020)													
S. No.	<b>Parameter</b> ↓	Apr- 19	May- 19	Jun- 19	Jul- 19	Aug- 19	Sep- 19	Oct- 19	Nov- 19	Dec- 19	Jan- 20	Feb- 20	Mar- 20	Avg.
1	рН	7.38	7.51	7.29	7.3	7.12	7.37	7.26	7.36	7.35	7.54	7.46	7.33	7.36
2	Total Suspended Solids	32	30	34	39	42	36	53	68	32	59	53	65	45.25
3	Oil and Grease	2	2.9	3.1	2.5	2.9	2.8	1.89	1.44	<4.0	2.84	1.85	2.03	2.39
4	BOD 3days 27°C	10	11	15	13	16	12	11	10	18	14.6	12.4	16.2	13.27
5	COD	79.9	61.2	58.4	60	55	43	59	74	47.8	75.1	89.5	93.2	66.34