



# SHREE CEMENT LTD.

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SCL/Ras/Unit-III/Env. Statement /2020-21/6037

Date : 10/09/2020  
Speed Post

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

File No. C-057

Sub:- Environmental Statement for the period from April 2019 to March 2020 for Cement Plant Unit-III of M/s Shree Cement Limited situated at Village - Ras Bhingarh, Tehsil - Jaitaran, Dist. - Pali (Raj).

Ref:- (1) CTO No. F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/1204-1206 dated 19/05/2017  
(2) CTO No. F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/3100-3102 dated 07/08/2018

Respected Sir,

We are submitting herewith Environmental Statement for the **period from April 2019 to March 2020 for Cement Plant Unit-III** of M/s Shree Cement Limited situated at Village- Ras - Bhingarh, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you,  
Yours faithfully,

For Shree Cement Ltd;

for

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

Encl: a/a

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor Sector II, 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.)

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur-302 015  
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## **ENVIRONMENTAL STATEMENT**

### **FORM - V**

**M/s. Shree Cement Limited: Unit - III**  
**Period from: April 2019 to: March 2020**

### **PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	Cement Plant Unit-III M/s Shree Cement Ltd. Village: Ras/ Bhingarh, Tehsil: Jaitaran, Dist: Pali-306107 (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.I.C. Code)	Red Category
3.	Production Capacity	1.55 Million TPA Clinker 2.2 Million TPA Cement
4.	Year of Establishment	2005
5.	Date of the last Environmental Statement submitted	10/09/2019

### **PART – B**

## **WATER AND RAW MATERIAL CONSUMPTION**

### **(I) WATER CONSUMPTION:**

Process	:	N.A. (As plant is based on dry Process technology)
Cooling and dust Suppression	:	43866 KL
Domestic	:	63987 KL (Common for Cement Plant, Power Plant Synthetic Cement Plant & Mines)

Name of Product	Process Water Consumption per Unit of Clinker & Cement Output	
	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
Clinker	0.03836 KL/ MT of Clinker	0.04234 KL/ MT of Clinker
Cement	0.02973 KL/ MT of Cement	0.03362 KL/ MT of Cement

**(II) RAW MATERIAL CONSUMPTION: (CEMENT/CLINKER)**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Cement)	
		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
1. Limestone	Cement/ Clinker	1.392	1.276
2. Laterite /Iron Ore		0.013	0.019
3. Gypsum		0.061	0.066
4. Coal & Pet Coke		0.084	0.086
5. Fly Ash		0.00	0.034

**(III) POWER CONSUMPTION (KWH/T OF CLINKER & CEMENT):**

Product	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
Clinker	85.53	80.96
Cement	55.96	51.38

**(IV) TOTAL CLINKER & CEMENT PRODUCTION (MT):**

Product	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
Clinker	1176879	1035971
Cement	1518263	1304879

**PART – C**  
**DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT**

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water	<p>As the plant is being operated on dry process technology, no liquid effluent is generated from the cement plant.</p> <p>The waste water generated from the office toilet and canteen is being treated in STP and treated water &amp; sludge generated is being used in planation &amp; horticulture activities.</p> <p>Analysis Report of STP treated water is attached as <b>Annexure-3</b></p>	
(b)	Air	Please refer <b>Annexure – 1 &amp; 2</b>	

**PART – D**

**HAZARDOUS WASTE**

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
a) From Process (Cement manufacturing is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments)	<p>Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2018 to March-2019 = 12780 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 12780 Ltrs.</p> <p>Sold-out to registered recycler = 0.0 Ltrs.</p> <p>Co-processed in cement kiln = 12780 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>	<p>Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 26820 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 26820 Ltrs.</p> <p>Sold-out to registered recycler = 0.0 Ltrs.</p> <p>Co-processed in cement kiln = 26820 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>
(b) From Pollution Control Facilities	N.A.	N.A.

**PART – E**  
**SOLID WASTE**

Sr. No.	Particulars	Total Quantity	
		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Dust collected in the ESPs, Bag Houses and Bag Filters are recycled to the system.	
(c)	1. Quantity rejected or re-utilized within the unit	100%	100%
	2. Sold	Nil	Nil
	3. Disposed	Nil	Nil

**PART – F**

**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. No.	Particulars	Total Quantity	
		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
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.

Period	Bio-Medical Waste Quantity (Kg) as per Color Coding			
	Red	Blue	Yellow	White
April 2018 to March 2019	39.21	28.448	41.065	32.01
April 2019 to March 2020	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 further disposal.

### **E- Wastes:**

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

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



### **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 and mines:

1.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	Previous Year Financial Year (1 <sup>st</sup> Apr 2018 to 31 <sup>st</sup> Mar 2019)		Current Year Financial Year (1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020)	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	<b>(i) Automotive</b>				
	a) Four wheeler	219	9.568	195	4.917
	b) Two wheeler	Nil	Nil	Nil	Nil
	<b>(ii) Industrial</b>				
	a) UPS	66	0.563	310	9.166
	b) Motive Power	Nil	Nil	Nil	Nil
	c) Stand –by	Nil	Nil	Nil	Nil
	<b>(iii) Others</b>	Nil	Nil	3	0.004
	<b>Total</b>	<b>285 Nos</b>	<b>10.131 MT</b>	<b>508 Nos</b>	<b>14.087 MT</b>
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 Year Financial Year (1 <sup>st</sup> Apr 2018 to 31 <sup>st</sup> Mar 2019)		Current Year Financial Year (1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020)	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	<b>(i) Automotive</b>				
	a) Four wheeler	301	7.854	168	4.986
	b) Two wheeler	Nil	Nil	Nil	Nil
	<b>(ii) Industrial</b>				
	a) UPS	112	0.896	0	0
	b) Motive Power	Nil	Nil	Nil	Nil
	c) Stand –by	Nil	Nil	Nil	Nil
	<b>(iii) Others</b>	Nil	Nil	Nil	Nil
	<b>Total</b>	<b>413 Nos</b>	<b>8.750 MT</b>	<b>719 Nos</b>	<b>9.394 MT</b>

Used battery scrap was sent to CPCB authorized recycler

**PART – G****IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION**

M/s Shree Cement Limited is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by pollution control equipment like ESPs & Bag Houses. Bag Filters installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled back in process and neutralizing the cost of operation of pollution control equipment and hence no cost impact on the production cost.

Synthetic Gypsum is being used in place of natural gypsum thus directly conserves the mineral gypsum. Waste Heat Recovery System (WHRS) is installed at Pre-heater and cooler section for trapping gasses of high temperatures are being used for generation of Green Power which has resulted in conservation of fuel, reduction of GHG emissions and water conservation.

Company has separate AFR cell looking after the utilization of alternative fuels and raw materials. Unit is utilizing ETP sludge, Paint sludge, oily rags, waste mix solids, phosphate sludge, etc.

**PART – H****ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION**

Green belt development and tree plantation is our ongoing process within our plant area and also outside the plant boundary. Every year we are doing new tree plantation to increase the density and bio-diversity of the area. Plantation has been carried out in an area of around 63.8 hectare with (Total land: 187.56 ha.) 165311 trees, which is ~34 % of the total land of plant area.

**PART – I****ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

1. We have full-fledged Environment Department with three separate cells, for monitoring, maintenance of pollution control equipment and Green Belt development.
2. Monitoring of stack emission, ambient air, Noise & water quality is being done regularly basis.

3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept. taking care of Housekeeping.
5. Truck parking area and vehicle movement areas are paved and concreted to avoid any fugitive emissions.
6. Horticulture Department in coordination with environment department is taking care of tree plantation and green belt development. Every year during monsoon season, we are doing new tree plantation and every year carbon sequestration being is carried out during 2018-2019, 3810.66 Tons of CO<sub>2</sub> was sequestered.
7. Effective operation and maintenance of Bag House at Raw Mill & Kiln, Coal Mill, Cement mill and Cooler ESP.
8. Effective operation of cooler ESP transformer and control panel in first field to further reduce PM emission levels.
9. Constructed concreted roads at Stacker and Re-claimer area for further reduction of fugitive emissions.
10. Installed new bag filters at various application like DBC, transfer points etc.
11. Modification of Coal Mill Bag House for further reduction of Particulate emissions.
12. Installed NO<sub>x</sub> mitigation systems in all cement kilns (Unit-3-10) as pollution control measure to achieve prescribed standards.
13. Covered shed and silos have been constructed for raw material storage.
14. Domestic waste water generated from office toilets and canteen is being treated at Sewage Treatment Plant (STP) and treated water is being utilized in plantation & gardening.
15. We are committed and maintaining Zero Liquid Discharge (ZLD) from our premises.

We are enclosing herewith following documents: -

Annexure-1: Stack Emission monitoring report (PM, SO<sub>2</sub> & NO<sub>x</sub>)

Annexure-2: Ambient Air Quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>2</sub>) & Ambient Noise Level monitoring report

Annexure-3: STP treated water test report

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**Shree Cement Ltd, Ras**  
**Unit-III**  
**Stack Emission Monitoring Report (PM, SO<sub>2</sub> & NO<sub>x</sub>)**  
**All values in mg/Nm<sup>3</sup>**  
**Year: 2019-2020**

S. No.	Month	Raw Mill & Kiln Stack			Coal Mill Stack	Cooler Stack	Cement Mill Stack
		PM	NO <sub>x</sub>	SO <sub>2</sub>	PM	PM	PM
1	Apr-2019	15	607	6.8	13	21	20
2	May-2019	12	678	4.5	20	10	24
3	Jun-2019	15	426	0	13.2	21.6	13.4
4	Jul-2019	16	538	0	13	8	12
5	Aug-2019	12	628	0	15	9	16
6	Sep-2019	23.9	421	BDL	16.3	11.8	13.8
7	Oct-2019	16	433	18.2	23	9	12
8	Nov-2019	NR	NR	NR	NR	NR	18
9	Dec-2019	27.4	462.9	0	16.9	6.9	18.3
10	Jan-2020	12	436	0	15	20	13
11	Feb-2020	10	423	0	13	20	23
12	Mar-2020	15	462	0	20	14	19
<b>Average</b>		<b>16</b>	<b>501</b>	<b>3</b>	<b>16</b>	<b>14</b>	<b>17</b>

**Annexure: 2**

<b>Shree Cement Ltd, Ras</b>																
<b>Ambient Air Quality (<math>\mu\text{g}/\text{m}^3</math>) Monitoring Report For The Period Of April 2019 To March 2020</b>																
<b>Common for Cement plant &amp; Power plant</b>																
<b>Year:-2019-2020</b>																
<b>Location →</b>	<b>Plant Boundary Near Main Gate</b>				<b>Plant Boundary Near Mess</b>				<b>Plant Boundary towards Stack &amp; Reclaimer</b>				<b>Plant boundary towards village Khera &amp; Jawangarh</b>			
	<b>AAQ in <math>\mu\text{g}/\text{m}^3</math></b>				<b>AAQ in <math>\mu\text{g}/\text{m}^3</math></b>				<b>AAQ in <math>\mu\text{g}/\text{m}^3</math></b>				<b>AAQ in <math>\mu\text{g}/\text{m}^3</math></b>			
<b>Parameter →</b>	<b>PM 2.5</b>	<b>PM-10</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM 2.5</b>	<b>PM 10</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM 2.5</b>	<b>PM 10</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM 2.5</b>	<b>PM 10</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>
Apr-2019	34.5	48.1	8.4	11.2	35.1	46.3	7.3	10.9	33.6	46.3	8.0	10.9	32.3	40.5	7.7	10.5
May-2019	32.9	46.8	8.7	12.0	33.8	43.6	8.7	11.2	32.5	44.6	8.4	11.3	31.8	41.4	8.0	10.9
Jun-2019	34.6	48.3	8.5	11.3	34.9	46.9	8.4	11.6	34.3	43.9	8.2	11.2	31.6	43.1	7.8	10.8
Jul-2019	28.9	41.8	8.1	10.4	29.4	41.0	8.1	10.8	31.1	42.9	8.0	10.7	28.9	39.6	7.5	10.1
Aug-2019	20.5	30.0	8.2	9.7	21.4	30.9	8.4	9.6	21.4	31.6	7.9	9.3	20.3	29.0	7.6	9.0
Sep-2019	26.8	36.3	8.2	9.7	25.5	36.1	8.2	9.7	28.0	38.8	6.9	9.5	25.3	35.5	7.6	9.1
Oct-2019	31.2	42.7	8.4	9.9	30.1	41.5	8.4	9.7	35.5	46.9	7.0	9.6	29.8	39.3	7.6	9.3
Nov-2019	33.4	53.3	8.9	12.1	32.5	48.0	8.9	11.9	31.8	44.8	7.5	11.8	27.5	44.0	8.1	11.4
Dec-2019	35.4	50.5	9.4	12.7	33.3	47.8	9.2	13.3	32.0	45.8	7.8	12.7	28.6	45.3	8.5	12.2
Jan-2020	36.9	53.9	9.8	13.9	29.9	49.4	10.	14.9	31.4	47.4	8.4	14.0	26.9	46.6	9.1	13.5
Feb-2020	35.6	51.8	10.3	14.1	34.3	52.3	10.	14.2	30.9	49.8	8.8	13.7	29.6	49.0	9.4	13.1
Mar-2020	33.7	53.0	9.9	12.8	31.5	51.5	9.9	13.0	29.0	51.8	7.6	12.9	28.5	48.2	9.0	12.3
<b>Average</b>	<b>32.0</b>	<b>46.3</b>	<b>8.9</b>	<b>11.6</b>	<b>31.0</b>	<b>44.6</b>	<b>8.8</b>	<b>11.7</b>	<b>30.9</b>	<b>44.5</b>	<b>7.9</b>	<b>11.5</b>	<b>28.4</b>	<b>41.8</b>	<b>8.2</b>	<b>11.0</b>

<b>Shree Cement Ltd, Ras</b>								
<b>Ambient Noise Level dB(A) Monitoring Report For The Period Of April 2019 To March 2020</b>								
<b>Common for Cement plant &amp; Power plant</b>								
<b>Year:-2019-2020</b>								
<b>Location →</b>	<b>Plant Boundary Near Main Gate</b>		<b>Plant Boundary Near Mess</b>		<b>Plant Boundary towards Stacker &amp; Reclaimer</b>		<b>Plant boundry towards village Khera &amp; Jawangarh</b>	
	<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>	
<b>Parameter →</b>	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>
Apr-2019	72.60	63.40	71.20	62.80	65.80	67.30	68.10	60.10
May-2019	71.80	66.20	72.1	62.80	66.90	65.80	62.60	59.90
Jun-2019	72.40	65.20	71.00	61.80	67.90	63.80	64.60	60.80
Jul-2019	71.90	64.10	70.50	61.40	68.90	64.50	64.60	60.90
Aug-2019	73.70	64.70	71.10	60.30	72.60	62.50	68.60	59.30
Sep-2019	73.20	67.20	72.00	63.20	69.50	62.00	67.50	61.00
Oct-2019	74.10	68.10	70.20	65.40	68.60	62.30	65.90	61.30
Nov-2019	72.30	67.60	65.60	58.80	70.60	65.80	67.20	62.40
Dec-2019	71.60	66.60	68.50	57.90	69.50	64.50	65.20	58.90
Jan-2020	71.90	65.60	64.60	59.60	72.60	62.20	62.60	59.60
Feb-2020	70.50	63.70	64.00	58.60	73.20	63.40	61.50	57.20
Mar-2020	71.90	60.60	64.90	59.40	72.20	61.70	60.30	56.80
<b>Average</b>	<b>72.33</b>	<b>65.25</b>	<b>68.51</b>	<b>61.00</b>	<b>69.86</b>	<b>63.82</b>	<b>64.89</b>	<b>59.85</b>

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