CIN No. : L26943RJ1979PLC001935

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SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

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

SCL/Ras/Unit-VIII/Env. Statement/2020-2021/603>

Date: 10/09/2020

Speed Post

To.

The Member Secretary,

File No. C-092

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

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

Ref: - (1) CTO No. - F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/5277-5279 dated: 06/09/2017 (2) CTO No. - F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/3130-3132 dated 08/08/2018

Respected Sir,

We are submitting herewith Environmental Statement for the **period from April 2019 to March 2020** for **Cement Plant Unit-VIII** (Without Cement grinding) of M/s Shree Cement Limited situated at Village- Ras Bhimgarh, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you, Yours faithfully,

For Shree Cement Ltd;

(Dr. Anil Kumar Trivedi)

Sr. GM (Environment)

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Offi Bhawan, 5th 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

M/s Shree Cement Limited: Unit- VIII 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-VIII M/s Shree Cement Ltd. Village: Ras/Bhimgarh, Tehsil: Jaitaran, Dist:Pali - 306107 (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	1.55 Million TPA Clinker
4.	Year of Establishment	2010
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

30769 KL

Suppression

Domestic

63987 KL (Common for Cement Plant,

Power Plant Synthetic Cement Plant &

Mines)

Name of	Process Water Consumption per Unit of Product Output		
Product	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)	
Clinker	0.02519 KL/MT of Clinker	0.02938 KL/MT of Clinker	

(II) RAW MATERIAL CONSUMPTION:

		Consumption of Raw Material Per Unit of Output (Clinker	
Name of Raw Material	-Name of Product	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
1. Limestone		1.490	1.484
2. Laterite /Iron Ore	Clinker	0.018	0.023
3. Performance Improver		0.000	0.000
4. Coal & Pet Coke		0.094	0.099

(III) POWER CONSUMPTION (KWH/T OF CLINKER):

During Previous Financial Year (2018-2019)	During Current Financial Year (2019- 2020)
55.93	53.11

(IV) TOTAL CLINKER PRODUCTION (MT):

During Previous Financial Year	During Current Financial Year (2019-
(2018-2019)	2020)
1189639	1047121.00

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	technology, no liquid of the cement plant. The waste water generand canteen is being to water & sludge general plantation and horticulture.	operated on dry process effluent is generated from ated from the office toilet reated in STP and treated erated is being used in are activities. P treated water is attached
(b)	Air	Please refer Annexure -	- 1 & 2

PART - C

DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of	Concentration of	Percentage of variation
	Pollutants	Pollutants in	from prescribed
	Discharged	Discharge	standard with reasons
	(Mass/Day)	(Mass/Value)	
(a)	Water	technology, no liquid of the cement plant. The waste water generand canteen is being to water & sludge general plantation and horticulture.	operated on dry process effluent is generated from atted from the office toilet reated in STP and treated erated is being used in are activities. Per treated water is attached
(b)	Air	Please refer Annexure –	1 & 2

<u>PART – D</u> <u>HAZARDOUS WASTE</u>

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

		.010)	
Hazardous	Total Quantity (Ltrs.)		
Waste	During Previous Financial	During Current Financial Year	
	Year (2018-2019)	(2019-2020)	
Process" No Hazardous waste is generated from the	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant,	



(b) From Pollution	NI A	NI A
Control Facilities	IV.A.	11.71.

PART – E SOLID WASTE

Sr.	Particulars	Total Quantity		
No.		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 Bag Filters are recyc	ne ESPs, Bag Houses and led to the system.	
(c)	1. Quantity rejected or reutilized 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.	Particulars	Total Quantity		
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. Type of hazardous waste No.	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	1) 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	1	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.

	Bio-Medica	Bio-Medical Waste Quantity (Kg) as per Color Coding							
Period	Yellow	Red	Blue	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					

<u>Solid Wastes:</u> - Other Municipal solid waste generated from all units (Cement Plant, Power 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		ear Financial Apr 2018 to 31st	Current Year Financial Year (1st Apr 2019 to 31st Mar 2020)			
	Category:	(ii) Approximate					
	(i) Automotive				· ·		
	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		
	Total	285 Nos	10.131 MT	508 Nos	14.087 MT		
2.	mentioned in Sl. No 3 and Tonnage of	D	7 1714 4 11		7 3574 + 11		
2.	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		Vear Financial Apr 2018 to 31st				
2.	scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries	Year (1st A	pr 2018 to 31st	Year (1st A	Apr 2019 to 31st		
2.	scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent	Year (1st A Mar 2019) (i) No. of	(ii) Approximate Weight (In	Year (1st A Mar 2020)	(ii) Approximate Weight (In		
2.	scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent Category:	Year (1st A Mar 2019) (i) No. of	(ii) Approximate Weight (In	Year (1st A Mar 2020)	(ii) Approximate Weight (In		
2.	scrap sent manufacturer /dealer /importer /registered recycler/or any other agency to whom the used batteries scrap was sent Category: (i) Automotive	Year (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	Year (1st A Mar 2020)	(ii) Approximate Weight (In Metric Tonnes)		
2.	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	Year (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 7.854	Year (1st A Mar 2020) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 4.986		
2.	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	Year (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 7.854	Year (1st A Mar 2020) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 4.986		
2.	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	Year (1st A Mar 2019) (i) No. of Batteries 301 Nil	(ii) Approximate Weight (In Metric Tonnes) 7.854 Nil	Year (1st A Mar 2020) (i) No. of Batteries 168 Nil	(ii) Approximate Weight (In Metric Tonnes) 4.986 Nil		
2.	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	Year (1st A Mar 2019) (i) No. of Batteries 301 Nil	(ii) Approximate Weight (In Metric Tonnes) 7.854 Nil 0.896	Year (1st A Mar 2020) (i) No. of Batteries 168 Nil	(ii) Approximate Weight (In Metric Tonnes) 4.986 Nil		
2.	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 b) Motive Power	Year (1st A Mar 2019) (i) No. of Batteries 301 Nil 112 Nil	(ii) Approximate Weight (In Metric Tonnes) 7.854 Nil 0.896 Nil	Year (1st A Mar 2020) (i) No. of Batteries 168 Nil 0 Nil	(ii) Approximate Weight (In Metric Tonnes) 4.986 Nil 0 Nil		

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 and 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 equipments 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.

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 and ambient air and 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 2018-19, 3810.66 Tons of CO2 was sequestrated.
- 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 Reclaimer 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 NOx mitigation systems in all cement kilns (Uint-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.

Annexure-2 : Ambient Air Quality (PM10, PM2.5, SO₂ and NO₂) &

Ambient Noise Level monitoring report

Annexure-3 : STP treated water test report



Annexure: 1

Shree Cement Limited, Ras: Unit-VIII Stack Emission monitoring Report (PM, SO₂ & NO_x) All values in mg/Nm³

Year: 2019-2020

S. No.	Month		Raw Mill & Kiln Stack		Coal Mill Stack	Clinker Cooler Stack	
		PM	NOx	SO ₂	PM	PM	
1	Apr-2019	13	453	1	20	10	
2	May-2019	14	463	15.7	24	8	
3	Jun-2019	12.2	568	0	14.8	19.1	
4	Jul-2019	9	568	13	15	12	
5	Aug-2019	11	506	6	16	6	
6	Sep-2019	13.5	452	2	13.2	7.5	
7	Oct-2019	15	438	0	15	11	
8	Nov-2019	13	471	0	18	9	
9	Dec-2019	16	462	0	14.8	7.3	
10	Jan-2020	14	449	0	18	10	
11	Feb-2020	17	496	15	25	9	
12	Mar-2020	14	516	21	16	7	
Av	erage	13	487	6	17	10	



Annexure: 2

						Shr	ee Cer	nent Lt	d, Ras							
Y	Amb	ient Air	Quali	ty (µg/1	n³) Moi	nitoring	Repor	rt For T	he Peri	od Of A	pril 20	019 To	March 2	2020		
					Commo	on for C	Cement	plant &	& Powe	r plant						
						<u>Y</u>	ear:-20	019-202	0							
Location →	Plar	nt Boun Main	₩	lear	Plant Boundary Near Mess				Plant Boundary towards Stacker & Reclaimer				Plant boundry towards village Khera & Jawangarh			
	AAQ in μg/m ³				AAQ in μg/m³			AAQ in μg/m ³			AAQ in μg/m ³					
Parameter →	PM 2.5	PM1 0	SO ₂	NO 2	PM 2.5	PM 10	SO 2	NO ₂	PM 2.5	PM 10	SO ₂	NO ₂	PM 2.5	PM 10	SO ₂	NO ₂
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
Average	32.7	49.0	8.8	11.2	32.0	46.3	8.8	11.1	32.8	46.0	8.4	11.0	29.3	44.5	8.0	10.7



			Sh	ree Cement L	td, Ras				
	Ambient No	ise Level dB(A) Monitoring	Report For T	he Period O	f April 2019	Γο March 20:	20	
		<u>C</u>	Common for C	Cement plant	& Power pla	<u>ant</u>			
			<u>Y</u>	ear:-2019-202	20				
Location →		indary Near in Gate		ndary Near Iess	towards	Soundary Stacker & laimer	Plant boundry towards village Khera & Jawangarh Noise Level in dB(A)		
	Noise Le	vel in dB(A)	Noise Lev	el in dB(A)	Noise Lev	el in dB(A)			
Paramete r →	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time	
Apr-2019	72.60	63.40	71.20	62.80	65.80	67.30	68.10	60.10	
May-2019	71.80	66.20	7.2.1	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	
Average	72.33	65.25	68.51	61.00	69.86	63.82	64.89	59.85	



Annexure: 3

	(STP Treated Water Quality, Year 2019-2020)													
S. No.	Parameter ↓	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	pН	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