CIN No. : L26943RJ1979PLC001935

Phone : 01462 228101-6
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E-Mail : shreebwr@shreecementitd.com

Website : www.shreecement.in



SHREE CEMENT LTD.

0/C



BANGUR NAGAR, POST BOX NO.33, BEAWAR 305 901, RAJASTHAN, INDIA

SCL/Ras/Unit-V/Env. Statement /2020-2021/ 6039

Date: 10/09/2020

File No. C-055

CO 1400,

Speed Post

To.

The Member Secretary,

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-V 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)/2008-2009/9344-9346 dated: 06/02/2018

(2) CTO No.- F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/3112-3114 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- V of M/s Shree Cement Limited situated at Vill- 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)

Encl: a/a
Copy to:-

- 1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya 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.)

de sch

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

Phone : 0141 4241200, 4241204, Fax : 0141 4241219

NEW DELHI OFFICE: 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110 002

Phone: 011 23370828, 23379218, 23370776, Fax: 011 23370499

CORP. OFFICE: 21, Strand Road, Kolkata 700 001 Phone: 033-22309601-4 Fax: 033 22434226



ENVIRONMENTAL STATEMENT

FORM - V

M/s Shree Cement Limited: Unit- V
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-V 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	2007
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

31659 KL

Dust suppression

Domestic

63987 KL (Common for Cement Plant,

Power Plant Synthetic Cement Plant &

Mines)

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



Clinker	0.0265 MT of Clinker	0.0297 MT of Clinker

(II) RAW MATERIAL CONSUMPTION:

	Nama	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		1.478	1.463	
2. Laterite/Iron Ore	Clinker	0.018	0.023	
3. Coal & Pet Coke		0.094	0.098	

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

During Previous Financial Year (2018-2019)	During Current Financial Year (2019- 2020)
56.28	53.71

(IV) TOTAL CLINKER PRODUCTION (MT):

During Previous Financial Year (2018-2019)	During Current Financial Year (2019- 2020)
1055385	1067631.00

<u>PART – C</u> <u>DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT</u>

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water	8	
(b)	Air	Please refer Annexur	e – 1 & 2



<u>PART – D</u> HAZARDOUS WASTE

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

	Wiovement Kure, 2010)			
Hazardous	Total Quantity (Ltrs.)			
Waste	During Previous Financial	During Current Financial Year		
	Year (2018-2019)	(2019-2020)		
a)From	Common authorization for	Common authorization for		
Process	Hazardous Waste Management	Hazardous Waste Management &		
(Cement	& Handling for Cement Plant,	Handling for Cement Plant, Power		
manufacturin	Power Plant, Synthetic Gypsum	Plant, Synthetic Gypsum Plant,		
g is based on	Plant, D.G.Set and Nimbeti	D.G.Set and Nimbeti Limestone		
"Dry	Limestone Mines.	Mines.		
Process" No				
Hazardous	Total Quantity generated from			
waste is	April-2018 to March-2019	Total Quantity generated from		
generated	= 12780 Ltrs.	April-2019 to March-2020		
from the	Old Stock = 0 Ltrs.	= 26820 Ltrs.		
process	Total Used oil = 12780 Ltrs.	Old Stock $= 0$ Ltrs.		
except used	Sold-out to registered recycler	Total Used oil = 26820 Ltrs.		
oil which is	= 0.0 Ltrs.	Sold-out to registered recycler		
drained from	Co-processed in cement kiln =	= 0.0 Ltrs.		
Machinery /	12780 Ltrs.	Co-processed in cement kiln =		
Equipments)	Balance Quantity= 0 Ltrs	26820 Ltrs.		
(l.) F		Ralance Quantity= 0 I tre		
(b) From				
Pollution	N.A.	N.A.		
Control				
Facilities				

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 Bag Filters are recyc	e ESPs, Bag Houses and led 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.	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. 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

Continuation sheet

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		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-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 –

Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency		ear Financial pr 2018 to 31st	Current Year Financial Year (1 st Apr 2019 to 31 st Mar 2020)			
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
(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		
		40 404 3 500	500 N	14007 NAT		
Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of	285 Nos	10.131 MT	508 Nos	14.087 MT		
Number of used batteries of categories	Previous Y	ear Financial	Current Y	ear Financial Apr 2019 to 31 st		
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 st A	ear Financial	Current Y Year (1st A	ear Financial Apr 2019 to 31st		
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 (1st A Mar 2019)	(ii) Approximate Weight (In	Current Y Year (1st A Mar 2020)	(ii) Approximate Weight (In		
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 (1st A Mar 2019)	(ii) Approximate Weight (In	Current Y Year (1st A Mar 2020)	(ii) Approximate Weight (In		
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 (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	Current Y Year (1st A Mar 2020)	(ii) Approximate Weight (In Metric Tonnes)		
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	Previous Y Year (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 7.854	Current Y Year (1st A Mar 2020) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
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 (1st A Mar 2019) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 7.854	Current Y Year (1st A Mar 2020) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
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	Previous Y Year (1st A Mar 2019) (i) No. of Batteries 301 Nil	(ii) Approximate Weight (In Metric Tonnes) 7.854 Nil	Current Y Year (1st A Mar 2020) (i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes) 4.986 Nil		
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 (1st A Mar 2019) (i) No. of Batteries 301 Nil	(ii) Approximate Weight (In Metric Tonnes) 7.854 Nil 0.896	Current Y Year (1st A Mar 2020) (i) No. of Batteries 168 Nil	(ii) Approximate Weight (In Metric Tonnes) 4.986 Nil		
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 b) Motive Power	Previous Y 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	Current Y 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 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.

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-V Stack Emission monitoring Report (PM, SO₂ & NOx) 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	12	334	0	14	10	
2	May-2019	16	342	0	23	8	
3	Jun-2019	10.7	531	0	14.9	20.2	
4	Jul-2019	11	410	0	15	11	
5	Aug-2019	12	540	0	19	14	
6	Sep-2019	11.5	553	0	15.2	17.6	
7	Oct-2019	14	503	0	18	21	
8	Nov-2019	21	474	7.2	23	19	
9	Dec-2019	24.2	499.5	0	19.7	7	
10	Jan-2020	12	433	0	20.1	15.6	
11	Feb-2020	13	542	0	24	15	
12	Mar-2020	11	523	12	21	17	
Av	erage	14	474	2	19	15	

Annexure: 2

						SI	hree Ce	ment L	td, Ras								
	<u>A</u>	mbient	Air Qua	ality (µg	(m^3) M	onitorir	ng Repo	rt For	The Per	iod Of	April 20	19 To I	March 2	2020			
					Com	mon for	Cemen	t plant	& Powe	er plant							
							Year:-2	2019-202	20				ī				
Location →	Pla		ndary N Gate	Near	Pla	nt Boui	ndary N ess	lear				Plant boundry to village Khera Jawangarh			Khera &	&	
		AAQ i	n μg/m³			AAQ i	n μg/m³	/m ³ AAQ in μg/m ³					AAQ ii	in μg/m³			
Parameter →	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	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	10.0	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	10.5	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	32.0	46.3	8.9	11.6	31.0	44.6	8.8	11.7	30.9	44.5	7.9	11.5	28.4	41.8	8.2	11.0	





				Shree Cemen	t Ltd, Ras				
	Ambient No	oise Level dB(A) Monitor	ing Report Fo	r The Period	Of April 2019	To March 20	20	
			Common for	or Cement pla	nt & Power p	olant			
				Year:-2019-	2020				
Location →		ndary Near n Gate		indary Near Iess		dary towards Reclaimer	Plant boundry towards village Khera & Jawangarh Noise Level in dB(A)		
	Noise Lev	el 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	



Continuation sheet

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	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

