O/C · Env. Ras

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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/CPP/Env. Statement/2022-2023 5361 Date: 10.09.2022

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

File No. P-120

Sub:- Environmental Statement for the period from 1st April 2021 to 31st March 2022 for 263.33 MW Power Plant (160 MW Thermal Power Generation & 103.33 MW Waste Heat Power Generation) including 1000 KVA D.G. Set by Shree Cement Limited situated at Village- Ras, Tehsil- Jaitaran, Dist- Pali (Raj).

Ref: - 1. CTO No. - F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/8240-8242 dated 29/12/2017
2. CTO No. -F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/5907-5909 dated 11/01/2019.
3. CTO No. -F(Tech)/Pali(Jaitaran)/2685(1)/2021-2022/7611-7613 dated 17/02/2022

Respected Sir,
We are submitting herewith the Environmental Statement in Form-V for the **period from 1st April 2021 to 31st March 2022** for **263.33 MW Power Plant (160 MW Thermal Power Generation & 103.33 MW Waste Heat Power Generation) including 1000 KVA D.G. Set** by Shree Cement Limited situated at Village- Ras, Tehsil- Jaitaran, Dist- Pali (Raj)

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;

(Satish Chander)
Vice President & Unit Head

Copy to:-
1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur , A 209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan

2. The Regional Officer, Rajasthan State Pollution Control Board, S / A-6, Mandia Road, Industrial Area, Near Pali Urban Co-Operative Bank, Pali- 306401 (Raj.)

ENVIRONMENTAL STATEMENT

FORM – V

Shree Cement Limited - Captive Power Plant Including WHRS & D.G. Set
Period from: 1st April 2021 to 31st March 2022

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Shree Cement Ltd Captive Power Plant Village : Ras, Tehsil : Jaitaran, Dist:Pali - 306107 (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	160 MW Thermal Power generation, 103.33 MW Waste Heat recovery based Power Generation &1000 KVA D.G.
4.	Year of Establishment	Power Plant: 2007-2010 Waste Heat Power Plant: 2009-2014
5.	Date of the last Environmental Statement submitted	10.09.2021

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process & Cooling/ Construction : 186736 KL

Domestic : 66982 KL (Common for Cement Plant, Power Plant, Synthetic Gypsum Plant and Mines)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
Power	0.000227 KL / KWH	0.000173 KL / KWH

(II) RAW MATERIAL CONSUMPTION: (Power Plant)

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Power)	
		During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
1. Water	Power	0.000227 KL / KWH	0.000173 KL / KWH
2. Coal (Fuel)		0.00029126 Metric ton / KWH	0.00034557 Metric ton / KWH
3. Limestone for mitigation of SO2 emission		0.00007552 Metric ton / KWH	0.00002715 Metric ton / KWH

(III) RAW MATERIAL CONSUMPTION: (D.G. SET)

D.G. Set is not operated on continuous basis. D.G. Set is operated only during the breakdown/shutdown of Power Plant. The total fuel consumption during the year 2019 - 2020 and 2020 - 2021 was nil.

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output (LTR / KWH)	
		During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
H.S. Diesel	Power	0.00	0.00

(IV) POWER CONSUMPTION (KWH/KWH OF POWER):

During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
0.0572	0.0579

(V) TOTAL POWER PRODUCTION (KWH):

During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
Gross Generation - 1091535547 Auxiliary Consumption – 62403522 Net Generation – 1029132025	Gross Generation – 1081450507 Auxiliary Consumption – 62596477 Net Generation - 1018854030

(VI) TOTAL D.G. POWER PRODUCTION (KWH):

During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
0.00 KWH	0.00 KWH

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	No waste water is being generated & discharged outside the plant premises.		The waste water generated from the office toilet and canteen is being treated in STP and treated water & sludge generated is being used in plantation and horticulture activities. Analysis Report of STP treated water is attached as **Annexure-4**. During the year 2021-2022 total 19399 KL waste water (RO reject) generated from the Power plant. The entire waste water generated from the power plant is used for the Synthetic Gypsum Manufacturing and ash quenching.	
(b) Air	PM	0.3315 Ton/Day	Please refer Annexure – 1 & 2 *Note: - Ton/Day is calculated with 365 operational days.	
	SO_2	1.1560 Ton/Day		
	NOx	0.7950 Ton/Day		

PART – D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2020-2021)	During Current Financial Year (2021-2022)
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)	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G. Sets and Nimbeti Limestone Mines. Total Quantity generated from April-2020 to March-2021 = 65250 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 65250 Ltrs. Sold-out to registered recycler = 0.0 Ltrs. Co-processed in cement kilns = 65250 Ltrs. Balance Quantity = 0 Ltrs	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G. Sets and Nimbeti Limestone Mines. Total Quantity generated from April-2021 to March-2022 = 100985 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 100985 Ltrs. Sold-out to registered recycler = 0.0 Ltrs. Co-processed in cement kilns = 100985 Ltrs. Balance Quantity = 0 Ltrs

(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

Sr. No.	Particulars	Total Quantity (Metric ton)	
		During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
(a)	From Process	Bed Ash : Nil	Bed Ash : Nil
(b)	From Pollution Control Facility	Fly Ash : 10837 (LCV) Synthetic Gypsum : 111711	Fly Ash : 1346 (LCV) Synthetic Gypsum : 108185
(c)	1. Quantity rejected or re- utilized within the unit	Fly ash and Bed ash are generated from the power plant as a solid waste are characterized as Synthetic gypsum due to limestone (i.e. 29358 MT) feeding for Desulfurization.	
	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. No Hazardous waste is generated from the process except used oil which is basically petroleum-based or synthetic oil, black in color & flammable in nature, generated from machineries / equipment. Used oil is being Co-processed in cement kiln as authorization obtained from RSPCB.

B. Used & old lead acid batteries are sold to CPCB authorized recyclers.

Sr. No.	Particulars	Total Quantity	
		During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
1	Used oil (Co processed in Cement Kiln)	65250 Ltrs.	100985 Ltrs.
2	Lead acid battery waste (Sell to authorized recycler)	11.170 MT	11.282 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 : 2021-2022 (During the Period of April -2021 to March-2022)

S. No.	Type of hazardous waste	Category	Quantity (MT)
1	Spent catalyst and molecular sieves	1.6	52.730
2	Drill cutting (oil and Gas exploring industries)	2.1	15285.731
3	Oil emulsion sludge	4.1	1759.460
4	Spent catalyst	4.2	494.460
5	Organic Residue from process	4.4	70.417
6	Spent Clay containing oil	4.5	91.493
7	Used Oil/ Spent Oil (Co-processing)	5.1	16.770
8	Grinding/Oily/waste or residues containing oil	5.2	7535.863
9	Phosphate sludge	12.5	386.081
10	Sludge from acid recovery unit	13.2	583.500
11	Carbon residue	18.2	25.270
12	"Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse"	20.1	14.935
13	Spent solvent	20.2	11559.555
14	Distillation residues	20.3	2657.330
15	Process waste residues and sludges	21.1	3763.565
16	Waste/ Residues Not made with vegetable or animal material	23.1	2963.025
17	Process waste sludge/ residues containing acid or other toxic metals or organic complexes	26.1	1460.799
18	Dust from air filtration system	26.2	6.345
19	"Spent acid (sulphuric acid) sch-I (26.3) and sch-II B-15"	26.3	100222.247 Utilizes as a RAW material for Synthetic Gypsum.
20	Process Residues and wastes	28.1	5869.375
21	Spent catalyst/spent carbon	28.2	7.775
22	Spent carbon	28.3	753.590
23	Off specification products	28.4	628.250
24	Date Expired Products (Pharma Industries)	28.5	123.615
25	Spent Solvent (Pharma Industries)	28.6	2385.02
26	Process waste/ residues	29.1	6272.270
27	Sludge Containing Residual Pesticides	29.2	18.105
28	Spent solvents	29.4	63.190
29	Contaminated cotton rags or other cleaning materials	33.2	61.640
30	Exhaust Air or Gas cleaning residue	35.1	10.070
31	Spent Ion exchange resin containing toxic metals	35.2	125.815
32	Chemical Sludge from Waste treatment	35.3	29355.414
33	Any process or distillation residue	36.1	3063.301
34	Incineration ash	37.2	41.775
35	Waste Mix Liquid	Sch-1	2408.233
Total Quantity			**200137.014**

Total 200137.014 MT hazardous waste has been co-processed/utilized at Ras complex during FY 2021-2022.

Bio-Medical Wastes:

Bio-medical waste generated is common for cement plant, power plant and mines. During current financial year April-2021 to March-2022 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 2020 to March 2021	58.6	53.5	20.2	28.3
April 2021 to March 2022	54.7	50.0	22.2	26.8

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:

As specified under E Waste (management) Rules, 2016, we have sold out generated e-waste of different categories is common for cement plant, power plant and mines to RPCB authorized/registered recycler. The details are as follows:

Particulars	Total Quantity (Kg)	
	During Previous Financial Year (2020-2021)	During Current Financial Year (2021-2022)
From Process	Nil	10680
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 sold out used/ scrap batteries of different categories is common for cement plant, power plant and mines to CPCB authorized recycler. The details are as follows:

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 (1st Apr 2020 to 31st Mar 2021)		Current Year Financial Year (1st Apr 2021 to 31st Mar 2022)	
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	275	10.914	219	7.25
b) Two wheeler	Nil	Nil	Nil	Nil
(ii) Industrial				
a) UPS	32	0.256	504	4.032
b) Motive Power	Nil	Nil	Nil	Nil
c) Stand –by	Nil	Nil	Nil	Nil
(iii) Others	Nil	Nil	Nil	Nil
Total	**307 Nos.**	**11.170 MT**	**723 Nos.**	**11.282 MT**

PART – G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

Captive Power Plant is being operated on environmentally clean technology. The stack emissions from the plant are controlled by ESP's. Bag Filters are installed at various material transfer points to clean the process and arrest the fugitive emissions. The boiler Ash collected in the pollution control equipment is used in the process of existing cement plants, thus it can be said that the utilization of raw material is being done at their cost. Since the system is operated on total recycle, there is no effect on the cost of production.

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.

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.) 165511 trees, which is ~34 % of the total land of plant area.
We have been incurred total Rs. 14.90 Crore in environment management in following activities:
1. Plantation and greenbelt development and their maintenance.
2. General and periodically maintenance of all pollution control measures i.e. Bag houses, ESPs, dust collectors.
3. Flooring, paved roads and continuous housekeeping by vacuum sweeping machines machine and maintenance of vacuum sweeping machines.
4. Effective waste managements in plant, mine and colony premises.
5. General and periodically maintenance of CEMS and CAAQMS instruments.
6. Operation and reoccurring of STP installed in plant and colony premises.
7. Celebration of important days for spreading awareness tor protection of environment and conservation of natural resources.

The amount in same activities will be incurred in next year also.

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.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept. taking care for 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. During year 2021-2022 total 8692.56 tonnes of CO2 has been sequestered by plantation done in cement plant, power plant & mine area.
7. Air cooled condensers has been installed at all the boilers for water conservation.
8. Covered shed and silos have been constructed for raw material storage.
9. 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.
10. We are committed and maintaining Zero Liquid Discharge (ZLD) from our premises.
11. Waste water generated is reused in synthetic gypsum plant.

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 analysis report

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Annexure: 1

Shree Cement Ltd; Ras - Captive Power Plant, WHRS & D.G.Set
Stack Emission Report (PM, SO_2 & NOx)
(All values in mg/Nm^3)
Year: - 2021-2022

S. No.	Month	Boiler- II & III			Boiler- IV & V			Boiler- VI & VII		
		PM	NOx	SO_2	PM	NOx	SO_2	PM	NOx	SO_2
1	Apr-2021	36.5	147	157.4	35	228.1	139	33.5	128.2	81.3
2	May-2021	34.0	143.3	173.1	37.5	81.1	175.7	32	162.1	94.4
3	Jun-2021	37.0	106	197	35	147	191	41	164	207
4	Jul-2021	30.5	181	157	32.2	58	163	33.6	239	105
5	Aug-2021	37.0	122.5	26.2	35	192.3	146.9	41	214.9	122
6	Sep-2021	37.0	50.9	149.5	35	60.3	173.1	41	17	207.2
7	Oct-2021	33.8	17	83.9	39.6	115	170.5	37.7	17	207.2
8	Nov-2021	37.4	41.5	86.6	32.7	92.4	65.6	38.2	24.5	97
9	Dec-2021	33.6	115	125.9	34.1	58.4	136.4	42.6	20.7	89.2
10	Jan-2022	0.0*	0*	0*	38.5	85	173	40.1	102	207
11	Feb-2022	0*	0*	0*	35.7	96	157	36.8	85	170
12	Mar-2022	38.2	1.7	5.2	35.7	12	20.8	39.6	2.1	20.8
Average		**35.5**	**92.6**	**116.2**	**35.5**	**102.1**	**142.7**	**38.1**	**98.0**	**134.0**

* Plant not run during the month

Shree Cement Ltd, Ras

Ambient Air Quality (µg/m³) Monitoring Report For The Period Of April 2021 To March 2022

Common for Cement plant & Power plant

Location →	Plant Boundary Near Main Gate				Plant Boundary Near Mess				Plant Boundary towards Stacker & Reclaimer				Plant boundary towards village Khera & Jawangarh			
	AAQ in µg/m³				AAQ in µg/m³				AAQ in µg/m³				AAQ 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-2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May-2021	31.1	37.3	7.8	8.4	29.6	41.3	7.7	8.5	27.9	42.1	7.5	7.9	25.6	36.8	7.2	7.8
Jun-2021	31.6	40.6	7.9	8.9	30.5	45.4	7.5	8.5	32.1	41.8	7.6	8.3	27.8	39.5	7.2	8.1
Jul-2021	33.1	44.8	8.7	11.5	32.2	47.3	8.2	9.9	36.1	45.8	8.0	9.6	25.9	33.6	7.6	9.0
Aug-2021	30.5	41.9	8.2	12.3	28.8	38.4	7.7	9.4	34.9	48.2	7.6	9.1	22.8	30.3	7.2	8.6
Sep-2021	28.1	34.8	7.6	8.9	31.0	39.5	8.3	8.7	31.4	40.8	7.7	8.4	20.6	28.6	7.2	8.2
Oct-2021	27.4	35.5	8.5	10.8	26.5	39.5	8.7	11.8	28.1	37.8	8.4	10.4	25.6	34.4	7.9	10.0
Nov-2021	29.4	41.7	8.2	11.4	26.9	42.6	8.5	12.8	28.9	43.6	8.2	9.6	24.6	37.6	7.7	9.7
Dec-2021	32.9	43.8	8.6	12.6	27.7	35.4	8.6	14.6	25.6	37.1	8.4	10.1	27.4	37.9	8.0	10.4
Jan-2022	31.5	54.5	8.9	12.9	29.5	50.4	8.6	15.8	25.6	42.8	8.5	11.3	24.1	36.6	8.2	11.7
Feb-2022	24.1	47.0	9.3	12.8	23.3	50.8	9.9	14.3	24.3	43.0	9.4	11.9	24.0	37.9	9.0	11.6
Mar-2022	28.2	60.5	9.0	11.9	29.3	63.4	9.4	13.4	30.0	53.5	8.7	11.5	27.0	52.6	8.3	11.3
Average	**29.8**	**43.8**	**8.4**	**11.1**	**28.7**	**44.9**	**8.5**	**11.6**	**29.5**	**43.3**	**8.2**	**9.8**	**25.0**	**36.9**	**7.8**	**9.7**

Shree Cement Ltd, Ras

Ambient Noise Level dB(A) Monitoring Report For The Period Of April 2021 To March 2022

Common for Cement plant & Power plant

Location →	Plant Boundary Near Main Gate		Plant Boundary Near Mess		Plant Boundary towards Stacker & Reclaimer		Plant boundary towards village Khera & Jawangarh	
	Noise Level in dB(A)		Noise Level in dB(A)		Noise Level in dB(A)		Noise Level in dB(A)	
Parameter → Month ↓	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
Apr-2021	73.1	63.7	61.5	58.4	72.6	62.3	65.2	57.5
May-2021	72.1	63.2	66.9	58.4	73.8	63.1	65.5	56.8
Jun-2021	70.3	64.1	64.1	57.2	73.1	63.8	65.5	59.4
Jul-2021	71.1	63.6	63.4	57.7	72.2	63.4	64.6	60.2
Aug-2021	70.5	61.2	66.1	56.3	71	61.8	63.1	59.4
Sep-2021	68.6	62.3	63.1	58.1	73.6	65.4	62.8	58.3
Oct-2021	72.3	66.2	68.2	62.4	74.1	67.1	66.9	62.5
Nov-2021	70.4	63.9	67.5	61.8	71.8	68.5	63.1	61.7
Dec-2021	72.3	66.2	68.2	62.4	74.1	67.1	66.9	62.5
Jan-2022	71.4	68.3	70.2	66.7	73.2	64.2	65.3	60.7
Feb-2022	71.7	66.1	69.5	63.6	71.4	62.1	65.3	61.2
Mar-2022	71.7	66.1	69.5	63.6	71.4	62.1	65.3	61.2
Average	**71.3**	**64.6**	**66.5**	**60.6**	**72.7**	**64.2**	**65.0**	**60.1**

Annexure: 3

Shree Cement Ltd, Ras

(STP Treated Water Quality Report for the period of April' 2021 to March' 2022)

S. No.	Parameter ↓	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Avg.
1	pH	7.3	7.61	7.29	7.25	7.56	7.88	7.22	7.6	7.29	6.94	7.88	7.1	**7.39**
2	Total Suspended Solids (mg/L)	44	73	42.3	48	57	61	68	49	42.3	49	72	48	**60**
3	Oil and Grease (mg/L)	3.1	1.37	2.21	3.2	3.1	1.14	2.4	1.7	2.21	2.17	2.44	1.4	**2.4**
4	BOD 3days 27°C (mg/L)	17.6	14	25	14	9	21	26	22	25	20	14	12	**16.3**
5	COD (mg/L)	98	114	74.2	90.7	78	49.2	87	106	74.2	101	97	122	**103**