

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V Environmental Audit Report for the financial Y	Year ending the 31st March 2019	
Unique Application Number MPCB-ENVIRONMENT_STATEMENT-0000021611		Submitted Date 30-09-2019
Company Information		
<b>Company Name</b> Hindustan Petroleum Corporation Limited	<b>Application UAN number</b> CR15120000434	
<b>Address</b> Mumbai Refinery, B. D. Patil Marg, Mahul		
Plot no -	<b>Taluka</b> Kurla	<b>Village</b> Mahul
<b>Capital Investment (In lakhs)</b> 830149	<i>Scale</i> Large Scale Industry	<b>City</b> Mumbai
<b>Pincode</b> 400074	<b>Person Name</b> LEKSHMAN VENUGOPAL	<b>Designation</b> Executive Director - HPCL, Mumbai Refinery
<b>Telephone Number</b> 02225077001, 02225545061	<b>Fax Number</b> 02225542008	<b>Email</b> Lakshmanv@hpcl.in
<b>Region</b> SRO-Mumbai III	Industry Category Red	<i>Industry Type</i> R56 Oil Refinery (mineral Oil or Petro Refineries)
Last Environmental statement submitted online	Consent Number	Consent Issue Date
yes	BO/CAC-Cell/EIC No MU-5684-14/14th CAC /6298	12/05/2016

Consent Valid Upto 31/08/2020

Product Information Product Name	Consent Quantity	Actual Quantity	UOM
Light Distillates (LPG/LAN/HAN/Reg. gasoline/premium Gasoline)	1968000	2486298	MT/A
Middle Distillates (ATF/SKO/HSD/LTO)	3313000	3780155	MT/A
Lube Oil Base Stock	331000	472812	MT/A

By-product Information By Product Name	Consent Quantity	Actual Quantity	UOM
Other heavy products	2288000	1896042	MT/A
Elemental Sulphur	26000	35619	MT/A

1) Water Consumption in m3/day		
Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	9660	5702
Cooling	90242	32852

Domestic	870		570	
All others	1500		1498	
Total	102272		40621	
1) Effluent Generation in CMD / MLD				
Particulars		<b>Consent Quantity</b>	Actual Quantity	UOM
Effluent from Process		7200	3111	CMD
Sea cooling water effluent (blow down)		80354	22560	CMD
Sewage effluent from the factory		600	176	CMD
2) Product Wise Process Water Consumpti	on (cubic meter c	f		
process water per unit of product)		_		

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Light Distillates	0.28	0.26	Ton/Ton
Middle Distillates	0.28	0.26	Ton/Ton
Lube Oil Base Stock	0.28	0.26	Ton/Ton
Other heavy products including refinery fuel loss	0.28	0.26	Ton/Ton
Elemental Sulphur	0.28	0.26	Ton/Ton

# 3) Raw Material Consumption (Consumption of raw material per unit of product)

per unit of product)			
Name of Raw Materials	During the l financial Ye	-	ent UOM
Crude Oil	1.08	1.08	Ton/Ton
4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
Fuel Oil	325008	120111	MT/A
Refinery Gas/Natural Gas	411750	324811	MT/A
Liquid Naptha	230580	5015	MT/A

# Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with		
	Quantity	Concentration	reasons %variation	Standard	Reason
рН	0	7.4	0	6 -8.5	Complied
Oil & Grease	1.5	2	0	5	Complied
Suspended Solids	12.3	16	0	20	Complied
BOD (3 days 27 Deg C)	7.7	10	0	15	Complied
COD	79.4	103	0	125	Complied
Phenol	0.2	0.27	0	0.35	Complied
Sulphides	0	Below Detectable Limit	0	0.5	Complied
CN	0	Below Detectable Limit	0	0.2	Complied
Ammonia as Nitrogen (N)	8.5	11	0	15	Complied

TKN	20	26	0	40	Complied
Ρ	1.7	2.2	0	3	Complied
Cr (Hexavalent)	0	Below Detectable Limit	0	0.1	Complied
Cr (Total)	0	Below Detectable Limit	0	2	Complied
Pb	0	Below Detectable Limit	0	0.1	Complied
Hg	0	Below Detectable Limit	0	0.01	Complied
Zn	0	Below Detectable Limit	0	5	Complied
Ni	0	Below Detectable Limit	0	1	Complied
Cu	0	Below Detectable Limit	0	1	Complied
V	0	Below Detectable Limit	0	0.2	Complied
benzene	0	Below Detectable Limit	0	0.1	Complied
Benzo(a)-pyrene	0	Below Detectable Limit	0	0.2	Complied

Reason
Complied
Complied
Complied
Complied

HAZARDOUS WASTES 1) From Process				
	otal During Previous Financial year	Tota	l During Current Financial year	UOM
4.2 Spent catalyst 19	910.6	2054	.5	MT/A
2) From Pollution Control	Facilities			
Hazardous Waste Type	Total During Previous Financial year	Tot	al During Current Financial year	UOM
0	0	0		MT/A
SOLID WASTES				
1) From Process				
Non Hazardous Waste Typ	e Total During Previous Financial year	Tota	l During Current Financial year	UOM
Metal Scrap	2810	4938		MT/A
Plastic Waste	27900	6471	0	Kg/Annum
Metal containers	4600	4524		Nos./Y
Plastic containers	508	216		Nos./Y
2) From Pollution Control	Facilities			
Non Hazardous Waste Typ	e Total During Previous Financial	year	Total During Current Financial yea	r UOM
N.A.	0		0	MT/A

3) Quantity Recycled or Re-utilized within the unit Waste Type Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

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1) Hazardous Waste			
Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
4.2 Spent catalyst	30.57	MT/A	To authorised recycler - National Traders
4.2 Spent catalyst	15.95	MT/A	To authorised recycler - JBS Mines
4.2 Spent catalyst	13.76	MT/A	To authorised recycler - Arth Metals and metallurgical
4.2 Spent catalyst	27.99	MT/A	To authorised recycler - Team Elevan Pvt.Ltd
4.2 Spent catalyst	1966.3	MT/A	Disposed to CHWTSDF (MWML, Taloja)

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	<b>Concentration of Solid Waste</b>
Metal Scrap	4938	MT/A	Sold to recycler
Plastic Waste	64710	Kg/Annum	Sold to recycler
Metal Container	4524	Nos./Y	Sold to recycler
Plastic Container	216	Nos./Y	Sold to recycler
Scrap equipments	0	Nos./Y	-

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)		Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	-	-	-	-	-	-

Additional measures/investment proposal for environmental	protection abatement of pollution, pre-	vention of pollution.
[A] Investment made during the period of Environmental		
Statement		
Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Improvement in efficiency of SEU I	Efficiency Improvement	866

Efficiency Improvement

Improving performance

16

120

Ceramic coating in SEU-I & PDA

Steam trap management

## [B] Investment Proposed for next Year

Detail of measures for Environmental Protection	<b>Environmental Protection Measures</b>	Capital Investment (Lacks)
Capacity upgradation of IETP VOC system	Reduction in VOC emission	450

Any other particulars in respect of environmental protection and abatement of pollution.

## Particulars

Name & Designation

Ashok Kumar, Deputy General Manager, Technical Department