

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V Environmental Audit Report for the f	inancial Year ending the 31st March 2019	
Unique Application Number MPCB-ENVIRONMENT_STATEMENT-00000	019434	Submitted Date 24-09-2019
Company Information		
Company Name Deepak Fertilisers and Petrochemicals Corporation Limited	Application UAN number 0000023473	
Address Plot K-1 to K-8, MIDC Industrial Area, Taloja,		
Plot no Plot K-1 to K-8, MIDC Industrial Area,	Taluka Panvel	Village Pale Khurd
Capital Investment (In lakhs) 244628	Scale Large	City Panvel
Pincode 410208	Person Name Deepak Pande	Designation Senior General Manager - EHS
Telephone Number 02250684221	Fax Number -	Email deepak.pande@dfpcl.com
Region SRO-Taloja	Industry Category Red	<i>Industry Type</i> R25 Basic chemicals and electro chemicals and its derivatives including manufacturing of acid
Last Environmental statement submitted online	Consent Number	Consent Issue Date
yes	BO/CAC-Cell/UAN No. 0000013159/7thCAC/1702000537-A	01-09-2017
<i>Consent Valid Upto</i> 30-09-2020		

Product Information			
Product Name	Consent Quantity	Actual Quantity	UOM
Ammonia	140400	63683	MI/A
Weak Nitric Acid (WNA)	445500	429557	MT/A
Methanol	99996	51199	MT/A
Concentrated Nitric Acid (CNA)	129600	129600	MT/A
Multiple grade NPK fertiliser	600000	507663	MT/A
"Tech. Gr. Ammonium Nitrate" plus Ammonium Nitrate Melt	444000	444000	MT/A
Liquid Carbon Dioxide (CO2)	72000	28392	MT/A
Iso Propyl Alcohol (IPA)	70200	62719	MT/A
Iso Propyl Alcohol (For drum filling operation)	15000	5819	MT/A
Di Iso Propyl Ether (DIPE for drum filling operation)	15000	2159	MT/A

Bentonite Sulphur Pastilles	25000	19484	MT/A
By-product Information By Product Name	Consent Quantity	Actual Quantity	ПОМ
Propane	33000	9997	MT/A
Calcium Phosphate	210	150.5	MT/A
Crude DIPE	1440	0	MT/A
Hydrogen gas	960	51	MT/A
Crude IPA/NPA Mixture	1080	407.7	MT/A

1) Water Consumption in m3/day Water Consumption for Process	Consent Quantity in m3/day 2358	Actual Quantity in m3/day 1183
Cooling	18813	13760
Domestic	172	135
All others	0	0
Total	21355	15078

1) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
Daily Qty of treated effluent (Plot K-1 & K-8 ETP) - Consented Quantity is including	4131.78	2910	CMD
Sewage			

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Ammonia	7.6	7.6	Ton/Ton
Weak Nitric Acid (WNA)	2.64	2.64	Ton/Ton
Methanol	6.5	6.5	Ton/Ton
Concentrated Nitric Acid (CNA)	1.7	1.7	Ton/Ton
"Tech. Gr. Ammonium Nitrate" plus Ammonium Nitrate Melt	0.23	0.208	Ton/Ton
Multiple Grade NPK fertilizer	0.39	0.39	Ton/Ton
Liquid Carbon Dioxide (CO2)	0.68	0.68	Ton/Ton
Iso Propyl Alcohol (IPA)	13.16	13.16	Ton/Ton
Bentonite Sulphur pastilles	0.092	0.093	Ton/Ton

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Natural gas for Ammonia (SM3/MT)	1010.58	1047	Ton/Ton
Natural gas for Methanol (SM3/MT)	844.3	860	Ton/Ton
Ammonia for WNA	0.291	0.291	Ton/Ton
WNA for CNA	0.995	0.997	Ton/Ton
RGP for IPA	0.974	0.964	Ton/Ton
Ammonia for "Tech. Gr. Ammonium Nitrate" plus Ammonium Nitrate Melt	0.216	0.216	Ton/Ton

WNA for "Tech. Gr. Ammonium Nitrate" plus Ammonium Nitrate Melt	0.801	0.800	Ton/Ton
Ammonia for Multiple grade NPK fertilizer	0.155	0.151	Ton/Ton
WNA for Multiple grade NPK fertilizer	0.155	0.174	Ton/Ton
Phosphoric Acid for Multiple grade NPK fertilizer	0.255	0.247	Ton/Ton
Sulphuric Acid for Multiple grade NPK fertilizer	0.053	0.050	Ton/Ton
Sulphur for Bentonite Sulphur pastilles	0.922	0.922	Ton/Ton
Bentonite for Bentonite Sulphur pastilles	0.096	0.096	Ton/Ton

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	ИОМ
Natural Gas	182377.47	127667	MT/A
HSD (High Speed Diesel) at Plot K-1 & K-8	5110	45.64	KL/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 reasons		
	Quantity	Concentration	%variation	Standard	Reason
рН	-	7.95	0	6.0 to 8.5	NA
Suspended Solids	140	48	0	100 ppm	NA
Biological Oxygen Demand (BOD)	68	23	0	100 ppm	NA
Chemical Oxygen Demand (COD)	200	69	0	250 ppm	NA
Oil & Grease	1.5	0.53	0	10 ppm	NA
Total Dissolved Solids (TDS)	4249	1460	0	2100 ppm	NA

[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
1. Ammonia Primary Reformer (SO2)	4.97	1.9	0	-	NA
1. Ammonia Primary Reformer (NOx)	36.2	25	0	50 ppm	NA
1. Ammonia Primary Reformer (NH3)	0.25	30.4	0	50 ppm	NA
2. Boiler A/B (NOx)	13.6	11.4	0	50 ppm	NA
3. Methanol Primary Reformer (NOx)	4.8	3.3	0	50 ppm	NA
4. CNA Plant (NOx)	0.03	8.03	0	50 ppm	NA
5. WNA-1 Plant (NOx)	-	0.0012	0	3 Kg/MT of WNA	NA
6. WNA-II Plant (NOx)	-	0.0013	0	3 Kg/MT of WNA	NA
7. WNA-III Plant (NOx)	-	0.0005	0	3 Kg/MT of WNA	NA
8. WNA-IV Plant (NOx)	-	0.0007	0	3 Kg/MT of WNA	NA
9. ANP Prilling Tower (TPM)	68.9	18.3	0	150 mg/NM3	NA
9. ANP Prilling Tower (NOx)	117	16.7	0	50 ppm	NA

9. ANP Prilling Tower (NH3)	0.330	21.5	0	50 ppm	NA
10. LDAN Prilling Tower (TPM)	94.5	24.7	0	100 mg/NM3	NA
10. LDAN Prilling Tower (NOx)	111	15.9	0	50 ppm	NA
10. LDAN Prilling Tower (NH3)	0.259	16.9	0	50 ppm	NA
15. Boiler D (NOx)	8.2	8.0	0	50 ppm	NA
15. Boiler - D (SO2)	0	0	0	-	NA
16. CES-A Engine Exhaust Boiler (NOx)	36.1	23.9	0	50 ppm	NA
16. CES-A Engine Exhaust Boiler (SO2)	0	0	0	-	NA
17. CES-B Engine Exhaust Boiler (NOx)	28.3	17.5	0	50 ppm	NA
17. CES-B Engine Exhaust Boiler (SO2)	0	0	0	-	NA
21 & 22 HRSG-1 (NOx)	21.2	12.2	0	50 ppm	NA
21 & 22 HRSG-1 (SO2)	0	0	0	-	NA
23 & 24 HRSG-2 (NOx)	23.8	12.9	0	50 ppm	NA
23 & 24 HRSG-2 (SO2)	0	0	0	-	NA
25 & 26 HRSG-3 (NOx)	26.3	15	0	50 ppm	NA
25 & 26 HRSG-3 (SOx)	0	0	0	-	NA
27 & 28 HRSG-4 (NOx)	-	-	0	50 ppm	NA
27 & 28 HRSG-4 (SOx)	-	-	0	-	NA
29 & 30 HRSG-5 (NOx)	25.8	12.7	0	50 ppm	NA
29 & 30 HRSG-5 (SOx)	0	0	0	-	NA
32. 780 Weak Nitric Acid Plant (NOx- Kg/MT of WNA)	0.00014	-	0	3 Kg/MT of WNA	NA
32. 780 Weak Nitric Acid Plant(NH3 Kg/Hr)	0.68	17.4	0	3 Kg/Hr	NA
33. 600 TPD LDAN Prilling Tower (TPM)	50.2	26.2	0	100 mg/NM3	NA
		10.7	0	E0 nnm	NA
33. 600 TPD LDAN Prilling Tower (NOX)	87.4	18.7	0	50 ppm	
33. 600 TPD LDAN Prilling Tower (NOX)33. 600 TPD LDAN Prilling Tower (NH3)	87.4 28.1	21.1	0	50 ppm	NA
 33. 600 TPD LDAN Prilling Tower (NOX) 33. 600 TPD LDAN Prilling Tower (NH3) 34. 300 TPD HDAN Scrubber (TPM) 	87.4 28.1 20.2	18.7 21.1 12.3	0	50 ppm 50 ppm 100 mg/ Nm3	NA NA
 33. 600 TPD LDAN Prilling Tower (NOX) 33. 600 TPD LDAN Prilling Tower (NH3) 34. 300 TPD HDAN Scrubber (TPM) 34. 300 TPD HDAN Scrubber (NOX) 	87.4 28.1 20.2 49.2	18.7 21.1 12.3 16	0 0 0	50 ppm 50 ppm 100 mg/ Nm3 50 ppm	NA NA NA
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NA

HAZARDOUS WASTES				
<u>1) From Process</u> Hazardous Waste Type		Total During Previous Financial vear		UOM
5.1 Used or spent oil		84.8	45.55	KL/A MT/A MT/A Nos./Y MT/A
5.2 Wastes or residues containing	oil	0.208	0.07	
18.1 Spent catalyst		13.77	32.67	
33.1 Empty barrels/containers/line /wastes	ers contaminated with hazardous chemicals	54	30	
35.3 Chemical sludge from waste	water treatment	308.32	382.85	
5.2 Wastes or residues containing oil		0	44	Nos./Y
2) From Pollution Control FacilityHazardous Waste TypeT00	lities otal During Previous Financial year	Total Durir 0	ng Current Financial year	UOM MT/A
SOLID WASTES 1) From Process Non Hazardous Waste Type Ash due to coal and lime treatment	Total During Previous Financial year nt 3624.81	. Total Du 3431.65	uring Current Financial year	UOM MT/A
2) From Pollution Control Faci Non Hazardous Waste Type	lities Total During Previous Financial v	vear Total	During Current Financial vear	UOM
NA	0	0	· · · · · · · · · · · · · · · · · · ·	MT/A
<i>3) Quantity Recycled or Re-utiunit</i>	ilized within the			
Waste Type	Total During Previo vear	ous Financial	Total During Current Financial vear	UOM
	<i>y</i> ====			

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	45.55	KL/A	NA
5.2 Wastes or residues containing oil	0.07	MT/A	NA
18.1 Spent catalyst	32.67	MT/A	NA
33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	30	Nos./Y	NA
35.3 Chemical sludge from waste water treatment	382.85	MT/A	NA
5.2 Wastes or residues containing oil	44	Nos./Y	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Ash due to coal and lime treatment	3431.65	MT/A	NA

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)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
RO plant	600	NA	NA	NA	1300	NA

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental Statement Detail of measures for Environmental Protection **Environmental Protection Measures** Capital Investment (Lacks) Plantation of 41770 Saplings for Green Belt Development on MIDC Tree Plantation 20.68 road, inside plant and degraded forest land AMC for Online Emission & Effluent Quality Monitoring System **Operating AMC Cost for Continuous** 3.90 Monitoring of Emission & Effluent Quality Parameters. Online real time monitoring system up gradation Online monitoring of pollutants 1300 Positive Discharge of treated effluent from ETP to MIDC chamber. 100 Prevention of groundwater pollution [B] Investment Proposed for next Year **Detail of measures for Environmental Protection Environmental Protection Measures** Capital Investment (Lacks) Plantation of 1200 Saplings in the premises & MIDC **Tree Plantation** 9.0 Pilot plant trial of AN recovery using heat pump technology. Recovery of polluting chemical at source. 11 Provision of cartridge filter at ETP. Improve quality of treated effluent. 2

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

Particulars

NA

Name & Designation

Deepak Pande - Senior General Manager (EHS)