

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION
New Delhi, the 22nd April, 1993
{PART II, SECTION 3, SUB-SECTION (1)}

FORM – V
(See Rule 14)

Environmental Statement for the Financial Year Ending 31st March, 2026

PART – A

i)	Name and address of the Owner / Occupier of the Industry operation or process.	:	Shri. Krishnamoorthy Krishnan (R) 503 Jai Hari Kunj CHS Ltd., 12/13A, Shree Nagar Estate, Goregaon – West, Mumbai 400 062
ii)	Industry Category		
	Primary (STC Code)	:	-
	Secondary (STC Code)	:	RED
iii)	Production Capacity – Units	:	Please refer Annexure I
iv)	Year of Establishment	:	1959 / 2007 November Membrane cell plant
v)	Date of the last environmental statement submitted.	:	17/09/2025

PART – B

Water and Raw Material Consumption

i)	Water Consumption m ³ /day		
	Process	:	3000 m ³ /d
	Cooling	:	300 m ³ /d
	Domestic	:	40 m ³ /d

Sl. No.	Name of the Products	Process water consumption per unit of product output (M ³ /T)	
		During the previous financial year 2024 – 2025	During the current financial year 2025 – 2026
		(1)	(2)
1.	CAUSTIC SODA	5.06	4.99
2.	HYDROCHLORIC ACID	2.78	2.84
3.	LIQUID CHLORINE	Nil	Nil
4.	TRICHLOROETHYLENE	29.57	27.55
5.	BENEFICIATED ILMENITE	8.66	8.08

(Please refer Annexure I A)

ii) Raw Material Consumption

ii) Raw Material Consumption

*Name of raw materials	Name of Products	Consumption of raw material per unit of product out put	
		During the previous financial year 2024 – 2025	During the current financial year 2025 – 2026
Please refer Annexure II			

- Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials.

PART – C

Pollution discharged to environment / unit out put
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (Mass / day)	Concentrations of pollutants in discharges (Mass / Volume)	Percentage of variation from prescribed standards with reasons
a) Water	Please Refer Annexure II A		
b) Air	For breakup details, please Refer Annexure II B Stack analysis report and Ambient Air Quality analysis reports furnished by Tamil Nadu Pollution Control Board are attached herewith – Please refer Annexure II C.		

PART - D**HAZARDOUS WASTES**

(As specified under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016)

Hazardous Wastes	Total Quantity (in MTs)	
	During the previous financial year(2024-2025)	During the current financial year (2025-2026)
a) From Process	Nil	Nil
b) From Pollution Control facilities	770.496 (ETP Sludge)	605.664 (ETP Sludge)
c) Used Oil	0.520	0.55
d) Waste Containing Oil	Nil	Nil

*Used Oil is sold to authorized agency. Refer Annexure – VII.

PART – E**SOLID WASTES**

Non-Hazardous Wastes	Total Quantity	
	During the previous financial year 2024 – 2025	During the current financial year 2025 – 2026
a) From Process – CALCIUM HYDROXIDE CALCIUM CHLORIDE	2668 MT 2218 MT	3874.6 MT 3955.5 MT
From Membrane cell Caustic Soda Plant BRINE SLUDGE	2607.0168 MT	2109.11 MT
b) From Pollution Control Facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the Unit.	Calcium Hydroxide 1939 MT	Calcium Hydroxide 2816.6 MT
2) Sold	Calcium Chloride 2218 MT Calcium Hydroxide 729 MT	Calcium Chloride 3955.5 MT Calcium Hydroxide 1058 MT
3) Disposed	Brine Sludge 2607.0168 MT	Brine Sludge 2109.11 MT

For the details of solid waste generation from the process and from Pollution Control facility, please refer Annexure III-A and B

PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Please refer Annexure IV

PART – G

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

Please refer Annexure V

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PART - H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Please refer Annexure VI

PART - I

Any other particulars for improving the quality of the environment.

Please refer Annexure VI

Signature:

Name & Address of the person submitting the:
Environmental Statement

S. Suresh
VICE PRESIDENT (Manufacturing)
DCW LIMITED
SAHUPURAM PO 628229
THOOTHUKUDI DIST.

On behalf of Name and Address of the Unit :

DCW LIMITED
(CS DIVISION)
SAHUPURAM 628 229
THOOTHUKUDI DIST

DCW Limited, Sahupuram.

DETAILS OF PRODUCTS MANUFACTURED

Sl. No.	Name of the Products	Consented Quantity in MT per month	Actual Quantity in MT per month (Avg.)
1.	CAUSTIC SODA	8,490	7212
2.	HYDROCHLORIC ACID	7,500	4582
3.	LIQUID CHLORINE	3,000	2541
4.	TRICHLOROETHYLENE	600	389
5.	BENEFICIATED ILMENITE (UGI)	6,000	3632
BY-PRODUCT			
1.	CALCIUM HYDROXIDE	450	319.9
2.	SODIUM HYPOCHLORITE (RECOVERED FROM CHLORINE EMISSION CONTROL)	450	420.0
3.	FERRIC CHLORIDE (RECOVERED FROM EFFLUENT)	1,000	348

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(See Rule 14)

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PART – A

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ii)	Industry Category Primary (STC Code) Secondary (STC Code)	: : :	Orange -									
iii)	Production Capacity – Units	:	<table><tr><td></td><td>Consented (TPA)</td><td>Actual (TPA)</td></tr><tr><td>PVC</td><td>– 140000</td><td>99923</td></tr><tr><td>CPVC</td><td>– 51500</td><td>35736</td></tr></table>		Consented (TPA)	Actual (TPA)	PVC	– 140000	99923	CPVC	– 51500	35736
	Consented (TPA)	Actual (TPA)										
PVC	– 140000	99923										
CPVC	– 51500	35736										
iv)	Year of Establishment	:	1983 (Revamped) – Expanded capacity CTO obtained during 09.05.2025.									
v)	Date of the last environmental statement submitted.	:	17/09/2025									

PART – B

Water and Raw Material Consumption

i)	Water Consumption m ³ / Day			
			PVC	CPVC
	Process	:	995 m ³	510 m ³
	Cooling	:	1091 m ³	110 m ³
	Domestic	:	6 m ³	

Sl. No.	Name of the Products	Process water consumption per unit of product out put	
		During the current financial year 2024 – 2025	During the current financial year 2025 – 2026
		(1)	(2)
1.	Poly Vinyl Chloride	3.341 m3	3.633 m3
2.	Chlorinated Poly Vinyl Chloride	5.030 m3	5.00 m3

*Water Consumption includes recycled water.

Contd..2

ii) Raw Material Consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of product out put	
		During the previous financial year 2024 - 2025	During the current financial year 2025 – 2026
1) VINYL CHLORIDE MONOMER	PVC RESIN	1.016	1.018
2) PVC Resin	Chlorinated Poly Vinyl Chloride	0.784	0.788
3) Chlorine	Chlorinated Poly Vinyl Chloride	0.545	0.530

PART – C

Pollution discharged to environment / unit out put
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (Mass / day)	Concentrations of pollutants in discharges (Mass / Volume)	Percentage of variation from prescribed standards with reasons
a) Effluent Water	230 m ³ /day (Avg.) from PVC ETP RO Reject and used in ilmenite plant for product washing.	pH: 7.5-8.35 TSS: 2 mg/l TDS: 618- 2548 mg/l Chloride: 230-690 mg/l Sulphate: 25 - 61 mg/l BOD: 2.1 – 3.4 mg/l COD: 64 – 120 mg/l	Discharge meets standards
b) Sewage	8.0 KLD	pH: 7.44 – 8.05 TSS: 2 mg/l BOD: 2.6 – 4.6 mg/l Fecal Coliform – 23.4 – 152.9 MPN/100 ml	Discharge meets standards
c) Air			
Particulate Matter	PVC – 10.51 kg/day CPVC Dryer 1 – 7.18 kg/day Common CPVC & CPE Dryer 2 – 9.40 kg/day	PVC-29.2 mg/Nm ³ CPVC Dryer 1 – 25.4 mg/Nm ³ CPVC Dryer 2 – 29.45 mg/Nm ³ Hypo Vent – 0.385 mg/Nm ³	- 80.5%(PVC) - 83.0%(CPVC Dryer 1) -80.3%(CPVC Dryer 2)

PART - D
HAZARDOUS WASTES

As specified under Hazardous & Other Waste (Management & Transboundary Movement)
Rules, 2016

Hazardous Wastes	Total Quantity	
	During the previous financial year (2024-2025)	During the current financial year (2025-2026)
a) From Process Used Oil*	1.20 MT	1.50 MT
b) From Pollution Control Facilities.	No hazardous waste from PVC Unit.	

*Used Oil Sold to authorized agency.

PART – E
SOLID WASTES

Solid Wastes	Total Quantity (MT)	
	During the previous financial year 2024 - 2025	During the current financial year 2025– 2026
a) From Process – Off Grade resin	55.0	32.6
b) From Pollution Control Facilities	Nil	Nil
c) 1) Quantity recycled or re-utilized within the Unit.	Nil	Nil
2) Sold (as Off grade Resin)	55.0	32.6
3) Disposed	Nil	Nil

PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

S. No	Type of waste	Characterization	Mode of disposal
1	Hazardous waste Used oil	<u>Used Oil composition:</u> 1) Cadmium + Chromium + nickel (NI): 35.8 ppm 2) Arsenic : BDL (DL: <0.1 ppm) 3) Lead (as PB) : 6.2 ppm 4) Polychlorinated biphenyl (PCBs): BDL (DL:<1.0 mg/Kg)	Sold to authorized vendors
2	Solid waste Off grade resins	-	The generated quantity is sold.

Used oil of 1.50 MT fall under Category 5.1 is sold to authorized agency. Refer Annexure – 1.

PART – G

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

- We have already installed On-line system for VCM emission monitoring at ten vantage locations of the plant process, handling and storage areas, with an investment of around Rs.10 lakhs.
- The critical air quality parameter (VCM) is monitored continuously and the same is hooked up to Care Air Centre at the TNPCB CEMS at Chennai.
- All dryers are provided with cyclone separators to control particulate matter emission and operated effectively.
- As water conservation efforts, we have carried out recycling and reuse of treated rejects for the product washing in the Ilmenite plant of our unit. The UF/RO system is provided for the effluent generated from the superdecantor and the permeate is completely reused in DM Plant.

PART - H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- We have already installed On-line system for VCM emission monitoring at ten vantage locations of the plant process, handling and storage areas, with an investment of around Rs.10 lakhs.
- The critical air quality parameter(VCM)is monitored continuously and the same is hooked up to Care Air Centre at the TNPCB HQ at Chennai.
- We have introduced advanced stripping tower system for the recovery of residual VCM from PVC slurry with an investment of about Rs.14 crores.
- Scrubbing system provided in the Fluidized Bed Dryer for effective dust control in the dryer vent.
- We have installed Continuous ambient air quality monitoring station to monitor PM10, PM2.5, VCM, SO2, NOx, CL2 & Ammonia) in Ambient surrounding the unit and the same has been connected to Care Air Centre, TNPCB from 28.07.2022 onwards.
- We have installed Continuous Emission monitoring station to monitor SPM & VCM in CPVC Dryer Vents and the same has been connected to Care Air Centre, TNPCB from 28.07.2022 onwards.

PART - I

The CSR activities carried out during the period 2025-26 by the management to improve the environment, ensure environmental sustainability and rural developments are:

Sustainability and Water Resource Management:

- ❖ Supervision and support for the construction of a bridge across the Kadamba Surplus Channel in Kayalpatnam North Village to improve connectivity and facilitate unobstructed water flow, benefiting farmers, salt manufacturers, and local workers.
- ❖ Desilting of the estuaries at Kayalpatnam and Punnakkayal to improve rainwater drainage into the sea and facilitate fishing activities, thereby supporting the livelihoods of farming and fishing communities.
- ❖ Desilting works undertaken in Moolakarai Village, Arumuganeri Kulam, Kadamba Surplus Channel near Thanneerpandal Village, and agricultural supply and drainage channels in Nallur, Puthunagar, Thalaivanvadali, and Sernthamangalam villages.
- ❖ Arrangement of earth excavation works for emergency sea-bar opening at Kayalpatnam to improve drainage and mitigate flood-related risks.
- ❖ Removal of bushes and thorny vegetation along the Thoothukudi–Tiruchendur Highway and near Mukkani Bridge to improve environmental hygiene and public safety.

Rural Development and Infrastructure:

- ❖ Construction of a pedestrian shelter on the Thoothukudi–Tiruchendur Highway in front of the church at Kayalpatnam North Village for the convenience of commuters and local residents.
- ❖ Dismantling and reconstruction of the office building for the Keelpahuthi Farmers Association, strengthening local agricultural institutions and community infrastructure.

Healthcare and Sanitation:

- ❖ Deputation of sanitary workers to Government Hospital, Tiruchendur, throughout the year to support sanitation and public health services.
- ❖ Donation of medical kits to the Tamil Nadu Government Mobile Hospital, Kayamozhi.
- ❖ Provision of water purifiers to the Blood Donation Centre at Government Hospital, Tiruchendur, and to the Government Primary Health Centre, Authoor, including repair of existing purification facilities.

- ❖ Donation of a refrigerator to the Urban Health and Wellness Centre, Kayalpatnam.
- ❖ Organization of a multi-specialty medical camp in association with Apollo Hospitals, The Eye Foundation Eye Hospital, and Authoor Sutru Vattaara Nadar Uravinmurai Sangam.
- ❖ Supply of bleaching powder for sanitation and disinfection during the Tiruchendur Temple Consecration Ceremony.

Education and Community Development:

- ❖ Distribution of school bags to students of Singhithurai Village.
- ❖ Donation of six computers to Government Higher Secondary School, Theevu Street, Kayalpatnam, for the establishment of smart classrooms.

Signature:

Name & Address of the person submitting the:
Environmental Statement

S.SURESH
VICE PRESIDENT (Manufacturing)
DCW LIMITED
SAHUPURAM PO 628229
THOOTHUKUDI DIST.

On behalf of Name and Address of the Unit :

DCW LIMITED
(PVC DIVISION)
SAHUPURAM 628 229
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PART – A

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(R) 503 Jai Hari Kunj CHS Ltd.,
12/13A, Shree Nagar Estate,
Goregaon – West,
Mumbai 400 062.
- ii) Industry Category
Primary (STC Code) : RED
Secondary (STC Code) : -
- iii) Production Capacity - Units : Consented – 58.27 MW (2 x 25 + 8.27)
Actual Generation for 25-26 – 30.79 MW
- iv) Year of Establishment : June 2008 & Nov 2010
- v) Date of the last environmental statement submitted. : 17/09/2025

PART – B

Water and Raw Material Consumption

i) Water Consumption m³/day

Process	: 380 m ³ /d
Cooling	: 1922 m ³ /d
Domestic	: 10 m ³ /d

Sl. No.	Name of the Products	Process water consumption per unit of product out put	
		During the previous financial year 2024 – 2025	During the current financial year 2025 – 2026
		(1)	(2)
1.	For Steam Generation	3.051 m ³ /Hr/MW	3.128 m ³ /Hr/MW

ii) Raw Material Consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of product out put	
		During the previous financial year 2024 – 2025	During the current financial year 2025 – 2026
Coal	Power Generation	0.974 T/MW	1.034 T/MW

PART – C

Pollution discharged to environment / unit out put
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (Mass / day)	Concentrations of pollutants in discharges (Mass / Volume)	Percentage of variation from prescribed standards with reasons
a) Water	The average effluent generated in the plant is about 730 m³/day - RO permeate of about 438 m³/day is recycled for Cooling tower makeup - RO reject of about 292 m³/day is used for ilmenite product washing, dust suppression and ash conditioning.	pH: 7.43 – 8.26 TSS: 2 mg/L TDS: 1350– 1902 mg/L Chloride: 560– 820 mg/L Sulphate: 30 – 125 mg/L BOD: 2.2 – 3.6 mg/L COD: 72-104 mg/L	-
b) Sewage	4.0 KLD - Treated in the Industrial STP and Treated sewage used for Milk of lime Preparation and meets the standard.	pH: 7.44 – 8.05 TSS: 2 mg/l BOD: 2.6 – 4.6 mg/l Fecal Coliform – 23.4 – 152.9 MPN/100 ml	-
c) Air			
Particulate Matter	93.39 kg/d	35.65 mg / m ³	-28.70 %
Sulphur Dioxide	376.83 kg/d	146.50 mg / m ³	-75.58 %
Oxides of Nitrogen	200.88 kg /d	77.85 mg / m ³	-82.70 %

Contd.. 3

PART - D**HAZARDOUS WASTES**

As specified under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016

Hazardous Wastes	Total Quantity	
	During the previous financial year 2024-2025	During the current financial year 2025-2026
a) From Process – Used Oil	0.840 MT	0.720 MT
b) From Pollution Control Facilities.	Nil	Nil

PART – E**SOLID WASTES**

Solid Wastes	Total Quantity (MT)	
	During the previous financial year 2024– 2025	During the current financial year 2025– 2026
a) From Process Bed Ash Fly Ash	1684.98 16068.31	1336.66 14080.146
b) From Pollution Control Facilities		
c) 1) Quantity recycled or re-utilized within the Unit. (Bed Ash)	1684.98	1336.66
2) Sold Fly Ash	16068.31	14080.146
3) Disposed Bed Ash	Nil	Nil

PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

In Cogen Plant, used oil is generated from Turbine bearing lubrication and sold to authorized agency. Refer Annexure – 1.

The total ash quantity is maintained less than the consented quantity of 2500 T/month.

S. No	Type of waste	Characterization	Mode of disposal
1	<u>Hazardous waste</u> Used oil:	<u>Used Oil composition:</u> 1) Cadmium + Chromium + nickel (NI): 35.8 ppm 2) Arsenic : BDL (DL: <0.1 ppm) 3) Lead (as PB) : 6.2 ppm 4) Polychlorinated biphenyl (PCBs): BDL (DL:<1.0 mg/Kg)	Used Oil is collected separately and sold to authorized parties
2	<u>Solid waste</u> Bed Ash Fly Ash	-	Fly ash is sold to Brick Manufacturers on daily basis. The Bed Ash generated is used for in-house purpose viz. bund strengthening, road formation inside premises.

PART – G

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

The boilers are attached with advanced Electrostatic precipitator with three field arrangements for effective containment of suspended particulate matter.

The net effluent generated from the cooling tower bleed off, DM water treatment RO system and mixed bed regenerating are collected in equalization tank, treated in a dedicated effluent treatment plant exclusively provided with RO system. The permeate is recycled for cooling tower makeup and the reject is used for Ilmenite product washing dust suppression, and ash conditioning in such a way that the net effluent generated is fully utilized within the plant.

The secondary water treatment for the effluent generated from the system conserves resource saving of about 980 m³ / day of river water.

PART - H

Additional measures / investment are proposed for environmental protection including abatement of pollution, prevention of pollution.

- Additional measures are taken for development of green belt by planting tree saplings with systematic and sustained efforts.
- The coal is stored in stacks not more than 5m height in closed storage yards of capacity 10000 MT.

- The coal from storage yards are transferred to the plant through closed conveyor systems.
- Manual as well as automatic water sprinkler systems are provided as dust suppression systems.
- The unit has an Online Continuous Emission/Effluent Monitoring System for Core Parameters Viz. SO₂, NO_x & PM furnaces for Emission and pH, TSS & Temperature for Effluent parameters and the same is continuously being uploaded to TNPCB & CPCB CEMS server.

PART - I

Any other particulars for improving the quality of the environment.

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Signature:

Name & Address of the person submitting the:
Environmental Statement

S.SURESH
VICE PRESIDENT (Manufacturing)
DCW LIMITED
SAHUPURAM PO 628229
THOOTHUKUDI DIST.

On behalf of Name and Address of the Unit :

DCW LIMITED
(COGEN POWER PLANT
DIVISION)
SAHUPURAM 628 229
THOOTHUKUDI DIST