

Ref. :S&E/E.8-I/17
Date: 28th June,2017

The Member Secretary
Tamilnadu Pollution Control Board
76, Anna Salai
Guindy
Chennai – 600 032.

Dear Sir,

**Sub: Environmental Statement for the year 2016 – 17 for SPIC
Fertilizer Plant**

We are pleased to submit the Environmental Statement in Form-V (in duplicate) pertaining to our SPIC Fertilizer plants at Tuticorin for the year ending 31st March 2017.

Thanking you,

For "Southern Petrochemical Industries Corporation Limited",

*Balu-F
28/06/2017*
E.Balu
Plant Head

cc.: 1.The District Environmental Engineer
Tamilnadu Pollution Control Board
C7 & C9, SIPCOT Industrial Complex
Meelavittan
TUTICORIN – 628 008

2. The Joint Chief Environmental Engineer
Tamilnadu Pollution Control Board
Kappalur
Madurai – 625 008



Southern Petrochemical Industries Corporation Limited

(CIN: L11101TN1969PLC005778)

Factory: SPIC Nagar, Muthiahpuram Post, Tuticorin 628 005 Tamilnadu, India

Phone : +91 (0461) 2244111 / 2355401 | Fax: +91 (461) 2355588 | Email: spiccorp@spic.co.in | www.spic.in

SPIC

ENVIRONMENT (PROTECTION) ACT 1986

ENVIRONMENT (PROTECTION) SECOND AMENDMENT RULES,
1992FORM-V

(See Rule 14)

Environmental statement for the financial year
ending 31st March, 2017PART-A

- i) Name and address of the owner / occupier of the industry, operation or process : Mr. S.R.Ramakrishnan.
SPIC Limited
88, Mount Road, Chennai – 600 032.
M/s Southern Petrochemical Industries Corporation Limited,
SPIC Nagar, Tuticorin 628 005.
- ii) Industry Category : Primary SIC No.2800
(Chemicals and allied products)

Secondary SIC No.2873 & 2874
(Nitrogenous & Phosphatic Fertilizers)
- iii) Production Capacity (Reassessed capacity by MoEF)
a) Urea : 6,20,400 MT/annum
- iv) Year of establishment : 1969
- v) Date of the last environmental report submitted : 29.06.16

PART – B**Water and Raw Material Consumption**

| | | | |
|----|-------------------|---|--------------------------------------|
| i) | Water consumption | : | Average M ³ /Day (Actual) |
| | Cooling | : | 11164.7 |
| | Process | : | 241.6 |
| | Domestic | : | 178.7 |

| Sl. No. | Name of Products | Water Consumption per unit of products (M ³ /te) | |
|---------|------------------|-------------------------------------------------------------|-------------------------------------------|
| | | During the previous Financial year 2015-16 | During the current Financial year 2016-17 |
| 1. | Urea | 7.94 | 6.71 |

ii) Raw Material consumption

| Sl. No. | Name of the Raw Material | Name of the Product | Consumption of raw material per unit of output | |
|---------|--------------------------|---------------------|------------------------------------------------|-------------------------------------------|
| | | | During the previous Financial year 2015-16 | During the current Financial year 2016-17 |
| 1. | Naphtha | Ammonia | 0.724 | 0.708 |

PART – C**Pollution Generated**

(Parameters as specified in the consent issued) whom so ever

| Sl. No. | Pollutants | Quantity of Pollutants discharged mass/day | Concentration of pollutants discharged in mass/volume | Percentage of variation from prescribed standards with reasons |
|---------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|
| I | <u>WATER:</u> pH AN TKN | -- 4.99 Kg 4.99 Kg | 7.6- 8.5 31.00 mg/l 31.00 mg/l | All parameters are well within the standards stipulated by MINAS |
| II | <u>AIR:</u> | | | |
| 1) | Urea Prilling Tower: Particulate Matter | 574.45 Kg/day | 40.7 mg/ Nm ³ | No deviation from prescribed standards |

Effluent disposal to sea 161.07 M3/ Day (18 days only during the year)

PART – D
(Hazardous Wastes)

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

| Sl. No. | Hazardous Wastes | Total Quantity (MT) | | | |
|---------|------------------------------------------------------------------------------|------------------------------------|------------------------------------|--------------------------------|-------------------------------------------------------------------------------|
| | | Quantity generated during 2015- 16 | Quantity generated during 2016- 17 | Characteristics | Closing Stock & Mode of collection/ Treatment & Disposal |
| 1) | Solid Spent Catalyst : (Nitrogenous Fertilizer Plant) | | | | |
| a) | HW Category 18.1 Primary, Secondary Reformer & Methanator catalyst | Not generated | Not generated | Nickel 10 to 20% | 0.885 MT |
| b) | HW Category 18.1 Cobalt and Molybdenum Catalyst | Not generated | Not generated | Nil | 0.350 MT |
| c) | HW Category 18.1 Zinc Catalyst | Not generated | Not generated | Zinc 7% w/w | NIL |
| d) | HW Category 18.1 Zinc and copper catalyst | Not generated | Not generated | Zinc 35% w/w Copper 29% w/w | NIL |
| e) | HW Category 18.1 Iron catalyst from High Temperature Shift Conversion vessel | Not generated | 45.800 MT | Fe 86%w/w | 63.360 MT of Spent catalyst collected in drums, sealed and kept for disposal. |
| 2. | Liquid Used Oil: | | | | |
| | HW Category 5.1 Used Oil | 13.924KL | 20.076 | Oil | Stock as on 31.03.2017 16.450 KL |

PART - E**BY PRODUCT**

| Sl. No. | BY PRODUCT | Total Quantity (MT) | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| | | Generated During the previous financial year (2015-16) | Generated During the current financial year (2016-17) |
| 1) | NIL | NIL | NIL |
| <u>SOLID WASTES</u> | | | |
| 1) | <u>From Pollution Control Facilities:</u> Calcium carbonate sludge generated from effluent treatment plant | 12 | Nil |
| | <u>Quantity recycled or reutilized within the unit</u> Calcium Carbonate | 12 | Nil |

