

September 28, 2017

Member Secretary  
Goa State Pollution Control Board  
Dempo Tower, I Floor  
EDC Complex, Patto Plaza  
Panaji - 403001, Goa

Dear Sir,

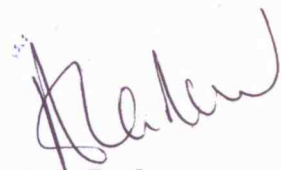
**Subject: Environmental Statement for the year 2016-17**

Please find enclosed herewith the "Environmental Statement" for the year 2016-17 in Form - V in compliance with Rule-14 of the Environment (Protection) Rules, 1986.

Hope the information provided meets your requirement.

Thanking you,

Yours truly,  
For **Zuari Agro Chemicals Ltd.**



**A.A. Pacheco**  
**General Manger-Manufacturing**

Enclosed: as above



**ZUARI AGRO CHEMICALS LIMITED**

(Formerly known as Zuari Holdings Limited)

CIN No.: L65910GA2009PLC006177

Registered Office: Jaikisaan Bhawan, Zuarinagar, Goa - 403726, India

Tel: +0832 259 2180, 259 2181 Fax: +0832 255 5279

www.zuari.in

**ZUARI AGRO CHEMICALS LTD, ZUARINAGAR, GOA**

**FORM - V**

**Environmental Statement for the financial year ending 31<sup>st</sup> March, 2017**

**PART - A**

(i) **Name and Address of the Owner / Occupier of the Industry, Operation or Process**

Mr. Sunil Sethy  
Managing Director  
Zuari Agro Chemicals Ltd.  
(Fertilizer Division)  
Jaikisaan Bhawan  
Zuarinagar – 403 726  
Goa

(ii) **Industry Category** ----- Primary – (STC Code) / Secondary – (SIC Code)

Chemical Fertilizer Industry (Nitrogenous and Complex Grades)

(ii) **Production Capacity – Units**

Sr. No.	Product	Installed Production Capacity MT/ Year	Actual Production for 2016-17, MT
1	Ammonia *	346500	291113
2	Urea	495000	465132
3	Complex Grades in NPK-A plant	500000	265513.95
4	Complex Grades in NPK-B plant	500000	318479.45

(\* Intermediate Product used for captive consumption)

(iv) **Year of Establishment**

1967 ( Actual commercial production started in 1973 )

(v) **Date of the last Environmental Statement submitted**

September 14, 2016

**PART – B**

**Water and Raw Material Consumption**

<b>(i) Water Consumption</b>	<b>M<sup>3</sup> / Day</b> (Based on typical water balance) at Avg. plant loads)
Process	3470 *
Cooling	5630
Domestic	470
Total	9570 **

(\* includes Boiler feed water make up, Treated water etc.)

\*\*excludes Avg. colony water supply of about 400 M<sup>3</sup> / Day)

Name of Products	Process water consumption per unit of product output	
	During the previous financial year 2015-16	During the current financial year 2016-17
Urea	7.90 M <sup>3</sup> / MT	7.16 M <sup>3</sup> / MT
Complex Grades in NPK-A plant	0.1016 M <sup>3</sup> / MT	0.3746 M <sup>3</sup> / MT
Complex Grades in NPK-B plant	0.3895 M <sup>3</sup> / MT	0.3701 M <sup>3</sup> / MT

(\* Process water consumption requirement of NPK-A and NPK-B plants is met by recycling the effluent/ waste water from Effluent Treatment Plant)

**(i) Raw Material Consumption**

Name of Raw Material *	Name of Products	Consumption of Raw Material per unit of Output ( MT/MT )	
		During the previous financial year 2015-16	During the current financial year 2016-17
Natural Gas	Ammonia (Intermediate product for captive consumption)	0.560	0.565
Ammonia	Urea	0.58	0.58
CO <sub>2</sub>		0.740	0.748

Name of Raw Material *	Name of Products	Consumption of Raw Material per unit of Output ( MT/MT )	
		During the previous financial year 2015-16	During the current financial year 2016-17
Ammonia P <sub>2</sub> O <sub>5</sub> H <sub>2</sub> SO <sub>4</sub> Filler	18:46:00 grade (Samrat)	0.1931 0.4629 0.0486 0.0388	0.2152 0.4680 0.0353 0.0491
Ammonia P <sub>2</sub> O <sub>5</sub> Potash H <sub>2</sub> SO <sub>4</sub> Filler	10:26:26 grade (Samarth)	0.1215 0.2609 0.4444 0.0344 0.0455	0.1250 0.2655 0.4495 0.0083 0.0404
Ammonia P <sub>2</sub> O <sub>5</sub> Potash H <sub>2</sub> SO <sub>4</sub> Filler	12:32:16 grade (Sampatti)	0.1458 0.3204 0.2790 0.0208 0.0730	0.1488 0.3209 0.2793 0.0147 0.0562
Ammonia P <sub>2</sub> O <sub>5</sub> Potash H <sub>2</sub> SO <sub>4</sub> Filler Urea	19:19:19 grade (Sampoorna)	0.0841 0.1907 0.3344 0.0124 0.0168 0.2626	0.0794 0.1977 0.3340 0.0130 0.0149 0.2829

(\* Industry may use codes if disclosing the details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used)

