



September 15, 2015

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 2014- 15

Please find enclosed herewith the “Environmental Statement” for the year 2014-15 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 LTD, ZUARINAGAR, GOA

FORM - V

Environmental Statement for the financial year ending 31st March, 2015

PART – A

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

Mr. Kapil Mehan
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 2014-15, MT
1	Ammonia *	220000	211120
2	Urea	376200	363408
3	Complex Grades in NPK-A plant	150000	287995.6
4	Complex Grades in NPK-B plant	150000	353335.65
5	Liquid Argon	2.2 Million SM3	NIL

(* 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**

August 6, 2014

PART – B

Water and Raw Material Consumption

(i) Water Consumption	M³ / Day (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 M³ / Day)

Name of Products	Process water consumption per unit of product output	
	During the previous financial year 2013-14	During the current financial year 2014-15
Urea	8.72 M ³ / MT	8.46 M ³ / MT
Complex Grades in NPK-A plant	0.074 M ³ / MT	0.0719 M ³ / MT
Complex Grades in NPK-B plant	0.070 M ³ / MT	0.0541M ³ / 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 2013-14	During the current financial year 2014-15
Naphtha (includes Fuel Naphtha also)	Ammonia (Intermediate product for captive consumption)	0.075 [#]	—
Natural Gas [#]		0.664	0.710
Ammonia	Urea	0.58	0.58
CO ₂		0.752	0.755

Name of Raw Material *	Name of Products	Consumption of Raw Material per unit of Output (MT/MT)	
		During the previous financial year 2013-14	During the current financial year 2014-15
Ammonia P ₂ O ₅ H ₂ SO ₄ Filler	18:46:00 grade (Samrat)	0.224 0.462 0.062 0.074	0.1990 0.4157 0.0555 0.041
Ammonia P ₂ O ₅ Potash H ₂ SO ₄ Filler	10:26:26 grade (Samarth)	0.126 0.260 0.485 0.009 0.055	0.1223 0.2602 0.444 0.0042 0.060
Ammonia P ₂ O ₅ Potash H ₂ SO ₄ Filler	12:32:16 grade (Sampatti)	0.150 0.321 0.276 0.022 0.074	0.1480 0.3209 0.2790 0.0064 0.083
Ammonia P ₂ O ₅ Potash H ₂ SO ₄ Filler Urea	19:19:19 grade (Sampoorna)	0.088 0.190 0.333 0.032 0.024 0.275	0.0681 0.1901 0.3330 0.0335 0.005 0.2913

(* 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)

(# Plant started running totally on Natural Gas from October 2013. During the period from June 2013 to September 2013, both Natural Gas as well as Naphtha was used as feed and fuel and hence the ratio does not become comparable)

