GOA STATE POLLUTION CONTROL BOARD

FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART A

(i) Name and address of the owner/ occupier of the industry operation or process : N KRISHNAN

(ii) Industry category Primary-(STC Code) Secondary-(STC Code) : RED, Distillery (molasses / grain / yeast based)

(iii) Production capacity : Mili Liter

Production Name	Production Capacity	Production Unit
MALT SPIRIT	5	Kilo Liters/Day
IMFL	50000	Numbers/Month
Wine	2500	Numbers/Month

(iv) Year of establishment : 1999

(v) Date of the last environment statement submitted : 26/09/2022

PART B

1. Water consumption m3/ d

Process : 60

Cooling : 20

Domestic : 13

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Malt Spirit	8.5	8.5
IMFL	1	1
Wine	0.5	0.5

2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
Malted Barley	Malt Spirit	1.98	1.98
Neutral Spirit	IMFL	0.45	0.45

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

PART C

Pollution discharged to environment/ unit of output.

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water			
Air			

Name of Pollutants : .

PART D
Hazardous Wastes

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

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	0	0
(b) From pollution control facilities	0	0

PART E
Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	Spent Grain-3331790 Kg, Grape Skin-0 Kg, Fly Ash-171468 Kg, ETP Sludge-7120 Kg.	Spent Grain-2200170 Kg, Grape Skin-0 Kg, Fly Ash-118565 Kg, ETP Sludge-4010 Kg.
(b) From pollution control facility	Nil	Nil
(c)(1) Quantity recycled or re-utilised within the unit	Nil	Nil
(2) Sold	Nil	Nil
(3) Disposed	Nil	Nil

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes a) Used Oil & Grease (Cat 5.1) - The quantity of waste oil generated by Diesel Generator Sets, Gear Boxes,
Vacuum pumps and Air compressors stored in barrels which has been Stored at Hazardous Waste storage area and once the quantity of waste oil reaches around 100-150 Ltrs / Kgs, same has been sold to the GSPCB authorized recycler.

(II) The Solid wastes generated in the unit are characterized in the following manner.

Sr. No.	SOLID WASTE	MODE DISPOSAL
1	From Process	
A	Spent Grain	Many Local and Outside Vendors buying it for cattle feed.
B	Grape Skin	Directly lifting by one of local vendor for using as manure for his coconut plantation.
C	Packing Material, Damaged Glass	Packing Material, Waste plastic and gunny bags, Damaged Glass sent to local scrap dealers for re-cycling.
2	From Boiler	
A	Fine Ash	Vendor Lifting Boiler Fine Ash from our factory site for making solid or Hollow Blocks.
3	From ETP	
A	Sludge	Using for Gardening after Composting.

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PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production 1) Our plant is equipped with the state of the art Effluent Treatment Plant which is Having USAB Digester, Anaerobic Tank, Bio Tower, Settling Tank, Tertiary Treatment Plant, Reverse Osmosis (RO) Plant, etc designed to control BOD, COD, Grease and Oil, Suspended solids of the effluent as pert GSPCB norms.

2) The non hazardous wastes generated in the unit like wood, metals, etc are being sent For Reusing or recycling through local vendors, which contributes to the savings of natural Resources.

3) The treated waste water generated at the unit is reused for irrigation and as Boiler Feed water. The process is saving around 16-18 M3 per Day of fresh water translating in to Cost savings of Rs. 20 Lakhs/annum

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PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution 1) In Process system interlocked through PLC and drives to avoid the ideal running of the Equipments.

2) Installed of Reactor controlled heavy duty Power capacitors in the main electricity incomer and load centre for improving the Power factor and to neutralize harmonics..

3) Plantation surrounding of factory premises by using ETP treated water.

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PART I

Any other particulars for improving the quality of the environment a) Water sprinkling on the unpaved surface for dust suppression.

b) Paving has been done by using Pavers in front, besides and back sides of plant Resulting in effective control on air born fugitive dust due to Vehicular movement.
c) Filling Fly Ash of Boiler in plastic bags to avoid spreading of dust in ambient.

Continuous Air Ambient Monitor has been connected to the CPCB and GSPCB server.

B) WATER

(I) Multi parameter Forbes Marshal make online effluent monitor installed and online data connected to CPCB & GSPCB server.
(II) Green Belt Development : Total green belt area is 3480 Sq. Mtr.
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Remarks : .