<u>Inspection Report Format for computerized allocation of inspections</u>

1.	A. Name of the Industry	M/s Crux Biotech India Private Ltd.,
	B. Address of the Industry	S.Nos.529 (p), 530, 531 (p), 532 (p), 536 (p), 557 (p), 560 (p), 654 (p), Peddavaram (V), Nandigama Mandal, Krishna District
	C. E-mail	rajiv.pal@cruxbiotech.com
	D. Mobile	7729996123
	E. Telephone	
2.	Date of Inspection	12.06.2020
3.	Name and Designation of the person contacted	Sri Rajiv Pal, DGM
4.	Line of Activity	Distillery
5.	Status of Operation	Industry not in operation from 29.05.2020 due to excess stock of ENA.
6.	Status of consent under the Water & Air Acts & HW Authorization	CFO order issued vide order dated: 25.02.2016 valid up to 31.01.2021 (for 60 KLPD capacity). CFO order issued vide order dated: 29.01.2018 valid up to 31.01.2021 (For expansion of 15 KLPD).
7.	a. Name of the Product (S) and by- products manufactured with quantity	

Sl. No	Product	Quantity
1	Rectified Spirit /ENA/Ethanol using grain as raw material	75 KLPD
2	Electricity	2.0 MW
3	Carbon Dioxide	45.6 TPD

The production details for the last six months is submitted below:

Month	ENA Production Qty in Kl		
Dec-19	1841.005		
Jan-20	2052.967		
Feb-20	1129.112		
Mar-20	2056.735		
Apr-20	0		
May-20	695.598		
Consented	2250		

	b. Comments on whether the products are permitted products and production is within the permitted capacity	The industry is manufacturing consented products within consented capacities.				
			As per the CFO order, the water consumption details are as follows:			
		S No.	Purpose	Quantity (KLD)		
		1.	Process water	43		
		2.	Cooling water make up	85		
		3.	DM Water for boiler make up and for ENA dilution	333		
		4.	Waste water from Water	169		

			Treatmen	t Plant (WTP)		
		5.	Make up v	water for CO2	!	2	
		6.	Domestic	piane		10	\neg
			Total			642	\neg
			ater consun	nption details	s for the l		 nths
			nitted belov				
		I —		Month	Quant	ity(KL)	
		l —		Dec-19		16983.58	
			2.	Jan-20		19429.81	
		l —		Feb-20		10499.51	
	h.	l —		Mar-20		18157.54	
				Apr-20		0	
				May-20		6678.55	
			Consented	l Quantity	19	260	
10.	a. Details of effluent generation and flow meter readings.	As per		om Krishna. order, the w	vaste wa	ter generat	tion
		Out let No.	Source	Max Daily Discharge After Expansion as per CFE order dated 01.12.2017	Point	of Disposal	
		1.	Process (Spent wash — Thin slop)	260	slop after dec be evapo Condens recycled liquefact Concentr drier	foion rate to DDC maintain zer	all oe or
		2.	Boiler blow down	90	shall be	atment in_ET e utilized fo vater make u	or
		3.	Cooling tower blow down	90 (recycled)	ash supp for on gardenin within th	ression and land for good premises to	or
		4.	Effluent from water treatment plant (Raw water treatment rejects)			greenbelt.	
		5	Blow down from CO2 recovery plant	2 (recycled)			
		6	Domestic	8	Septic ta soak pit.	nk followed b	у
				437			

	b. Flow meter readings	The wastewater generation details for the last six months is submitted below:					
			Month	ETP Kl	MEE Kl		
		1.	Dec-19	2694	6515.901		
		2.	Jan-20	2976	7292.8		
		3.	Feb-20	2202	3589.19		
		4.	Mar-20	2761	6320.98		
		5.	Apr-20	0	0		
		6.	May-20	1027	2516.7		
11.	 a. Details of effluent Treatment Systems and disposal. b. Compliance with standards stipulated based on Board data /online monitoring systems: 	Decanter, Multiple Effect Evaporator and Drier. Biological ETP consists of Neuralisation tanks, anaerobic digestion, moving bed bio reactor (MBBR), Tube settler, Dual media filter, Ultra filtration & Two stage RO system. The industry is not in operation.					
12.	a. Details of sources of air pollution and control equipment	S. No.	Description o	f chimney	Control equipment provided		
	and systems	1.	Attached to 1	X 25 TPH	Bag Filter &		
			coal fired Boi	ler	Cyclomax		
		2.	Attached to 1 X 1250 KVA	DG Set	Silencer		
	b. Compliance with standards stipulated based on Board data / Monitoring systems.	The in	ndustry is not i	n operation			
13.	Details of solid and hazardous waste generation, storage and disposal.						

Non-Hazardous Solid Waste details:

S. No.	Name of the waste	Quantity	Disposal Option		
1.	DDGS from MEE (with 90% solids)	58 TPD	To be sold out as cattle / poultry / fish feed		
2.	Boiler ash	100% biomass) or	To brick manufacturers when biomass is used as fuel. To brick manufacturers / cement plants when coal is used as fuel.		

The industry is disposing Distillery Dried Grains Solids (DDGS) as cattle/fish feed and boiler ash disposed to brick manufacturers.

15.	Furnish details of any deviation / Non - Compliance observed from consent /		The industry was not in operation from 29.03.2020 to 17.05.2020 due to lock down.
	authorization / directions.	2.	Again the industry is not in operation from 29.05.2020 due to excess stock of ENA and likely to start production after 20.06.2020.

16.	Other relevant information regarding the industry, including complaints.	
17.	Recommendations.	The compliance status may be verified while the industry is in operation.

Date: 15.06.2020

Name & Designation of P. Ravindra Nadh

Inspecting Officer :

SEE, ZO, Visakhapatnam

Place: Visakhapatnam

Signature of Inspecting Officers

Inspection ID: 1052-278-202006