BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI

Original Application No. 177 of 2017

Ashwini Kumar & Anr. Vs. Central Pollution Control Board & Ors.

CORAM: HON'BLE MR. JUSTICE SWATANTER KUMAR, CHAIRPERSON

HON'BLE MR. JUSTICE RAGHUVENDRA S. RATHORE, JUDICIAL MEMBER

HON'BLE MR. BIKRAM SINGH SAJWAN, EXPERT MEMBER HON'BLE DR. AJAY A DESHPANDE, EXPERT MEMBER

Present:

Applicant: CPCB

Respondent No. 2&3:

Ms. Mansi Chahal, Adv.

Mr. Raj Kumar, Adv. with Mr. Bhupendra Kumar, LA Mr. Pradeep Misra and Mr. Daleep Kr Dhyani

Date and Remarks	Orders of the Tribunal
Remarks Item No. 09 April 26, 2017	Learned Counsel appearing for Central Pollution Control Board submits that the inspection report is ready and would be filed within one week positively, with copies to all the Counsel by placing the same on the Website of the Board, to which the party may respond within two weeks, thereafter. List this matter on 23rd May, 2017. (Swatanter Kumar) (Raghuvendra S. Rathore) (Bikram Singh Sajwan)
	(Dr. Ajay A Deshpande)



JOINT INSPECTION REPORT BY CPCB & UPPCB Of

M/s Triveni Engineering Industries Ltd.

NGT wide its order dated 15.12.2016 directed CPCB to inspect the industry along with UPPCB (O.A No.317 of 2014) to check the compliance of observation No-4 & 13 of the joint inspection report dated 20.10.2016 and the complaint by applicant (O.A. No-177 of 2017) with respect to bypass of untreated effluent on 20.02.2017 to the nearby Bhandura drain by the industry. The joint inspection team comprising the following officials of CPCB & UPPCB carried out inspection of the unit on Dated 12.04.2017

- I. S.K. Arora, Scientist 'E', CPCB, Delhi
- 2. A.K. Tiwari, RO, UPPCB, Muzaffarnagar
- 3. R.K. Singh, AEE, UPPCB, Muzaffarnagar
- 4. Vinod Kumar, JE, UPPCB, Muzaffarnagar
- 4. Ratnesh Kumar, Scientist 'B' CPCB Delhi

The detail inspection report along with the observations and recommendations are given below:

A: General Information:

	General Information:	1.4/ m : 1.0	0.7.1.1.1	1.00				
1.	Name of the unit and Address		ngg.& Industries Ltd					
0		road, Muzaffanagar, Uttar Pradesh 29°25'46.1" N, 77046'38.8" E 29°429460 N, 77.777452 E						
2.	Spatial Co-ordinates	29°25'46.1" N, 77o46'38.8" E						
	(Lat& long)							
3,.,	Name of the Contact person -	1		neral Manager(ETP)				
	Designation	Mob7895789999						
	Contact No. & e-mail		venigroup.com					
4.	Year of Commissioning.	2007						
5.	Sector	Distillery						
6.	Manufacturing process	Fed-Batch Fermentation						
7_{H}	Production capacity	Excise certificate attached as Annexure-I						
	 Installed Prod. Cap. 	160.KBL/Day						
	Present Production	160 KBL/Day						
	Products Manufactured (KLA)	2014-15	2015-16	2015-17				
	Rectified Spirit	3915.7517	1776.0899	932.1489				
	ENA	17822.1214	7284.4443	10193.3905				
	Absolute Alcohol	18258.5308	32153.9329	28616.7751				
	Raw materials requirement	2014-15	2015-16	2015-17				
	Molasses(in Qtls)	1704440	1811840	1762920				
8.	Actual no. of operating days in a year	269	264	261				

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9. Process details						
(attach material baland diagram):	ce & f	low Attached as	Annexure-II			
10. Status of conse		& Air Consent:	01.01.2017 to 31.12.2018			
Authorization (validity/a	applied)	Water Conse	ent: 01.01.2017 to 31.12.2018			
			zation: Not Applied			
B: Water Pollution and its C	ontrol:					
11. Water Supply Source		Bore well				
No. of bore wells		04 Nos.				
Water Consumption (KL	.D)	Fresh water-2400 KLD(Avg.)				
(with details of water r	neters					
installed)						
Logbook maintained: (Y/	N)	Yes				
CGWA Permission Obta	ained:		The state of the s			
12. Waste Water Generation		ino, Applied vide	e application dated 11.04.2017			
Stream/section						
		ntity(m3/day)	Disposal/utilisation			
Spent Wash	1520		Processed in RO plant			
Spent lees		rculated in the sy				
Fermenter washing	80		Processed in RO Plant			
Floor washing	***		. ne			
Process Condensate	14		Being used in Boiler			
Cooling tower blow	50		Used in Fire Fighting, Sprinkling on			
down			Roads etc			
Boiler blow down	2		Same as above			
Others	/		==			
Total	1600					
3. Details of ETP		ETP Details: S	pent wash - Primary Settling Tank-			
> ETP Description with	flow	Anaerobic Bio d	ligester –RO Plant – Lagoon – MEE –			
diagram		Bio-Compost Ya	ird			
			ent (if any): Bio-methanation			
		Bio digester Outle	et sent to Lagoon and RO			

Offer 2 here a) John R. U.

14.	Details of R.O plant	Details of pre-treatment: Primary Settling Tamk RO Feed rate:80m³/hr Permeate generation:40m³/hr Reject generation: 40 m³/hr Whether R.O achieving design efficiency; Yes Whether R.O operated continuously: Yes						
15.	Details of MEE plant	condensate.	6 sp. Gr. 1.0. eration :35 encentrate	m ³ /hr :17.5m ³ /hr MEE feed, (m ³ /h r Concentrate and			
		Sample Location	рН	TSS (mg/l)	TIDS (mg/l)			
		MEE feed	8.14	4780	44 240			
		Concentrate	10.12	20912	162500			
		Condensate	9.66	08	144			
		Whether MEE as Whether MEE of	chieving d	esign efficiency	y; Yes			
16.	Utilisation of R.O permeate & MEE condensate	Utilization of R. Utilization of R. Utilization of MI Utilization of MI	O Reject: 1 EE concen	MEE Feed trates: Bio-com	npost			
17.	Incincration Boiler Detail (if available)	Not applicable						
18.	Details of online Flow measuring device installed for spent wash and MEE concentrate	Online flow met Flow meter insta whether operatin	lled at Spe	ent wash and M	EPCB installed at EE concentrate			
19.	Details of reduction in water consumption due to utilisation of R.O permeate and MEE condensate & treatment given, if any		ilcohol ap	prox. on a nor	duction of up to mative basis, all ng the same.			

on her on

C: Information regarding Bio-composting:

C	: Information regarding Bio-comp	osting:
20	Active area for bio compos	st 20 Acres
-	preparation	
21	The storage	5 Acres
22	to to to the bost storage	6.6 Acres, Not Covered (Under constructions)
23	The state of the s	Y Yes
24	. Spent wash storage capacity	Lagoonsatbio-compost site: 3000m ³
		Raw S.W: 24000 m ³
		B.M S.W: 24000 m ³
		(As informed 11000m3 spent wash was stored in both
		the lagoons put together)
		R.O feed: 1600 m ³ : R.O rejects: 800 m ³
		MEE feed: 800 m ³ : MEE concentrate: 325 rm ³ .
25.	or press mad &	Press mudfrom its our
	Quantity stored	Khatauli Dachand ata A 10
		quantity stored as on 12.04.2017 was 22000MT
-		Approx.
26.	The state of the day's role office	60days
-	cycle & total cycles/year	4cvcles/vear
27.	Utilisation of S.W/Conc. S.W in	Avg. no. of days of spraying S.W in a cycle: 45days
20	bio composting	Avg. S.W quantity sprayed in a day :325 m3
28.	Ratio of filler material to spent	1:2(after installation of MEE)
	wash	
29.	Details of windrows (Number,	Length: 100-140 m, Width: 3m, Height: 1.5 m
	length, height, width of stacking,	Number: 45, Space between rows: 3 m
	space between two windrows)	Quintals of press mud used in one windrow: 0.235 MT
	and equipment's	No. of aero tillers used:2 No
2.0		No. of JCB used: 2No, Tractor -8No, Loaders- 3 Nos
30.	Details of registration from	Applied vide letter dated 04.04.2017
	Agriculture department, as per	
	new notification of compost	
31.	quality	
31.	Arrangement for rainy season	Closure in rainy season and certificate enclosed as
	and details regarding closure of	Annexure-III
	operations for 03 months during monsoon	
32.		DOM:
J Z .	Details of PTZ cameras provided	PTZ 360 Cameras provided at:
	and its connectivity	Lagoon Area: 114.134.21.71
		2Bio-compost: 114.134.21.70
		User id & PW: admin / admin
		whether operating satisfactorily: No

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D: Air Pollution and its Control:

33.	Sources of Air Pollution	Boiler : one capacity-32TPH				
34.	Type of Fuel/s used with	Details	Boiler			
	consumption and Stack details	Fuel used	Biogas+ Bio fuel			
	with APCD	Fuel consumption	Bio Gas: 86000NM3 /d-ay			
	Most of the time 85% bio Gas	,	Baggase:60MT/day(app rox.)			
	and 15% Bio-fuel is used	Stack height	45M Height			
	(Bagasse or Woodchips)	&Diameter	2.78 M Dia Meter			
		APCD attached	Wet Scrubber			
35.	Details of online P.M meter	P.M reading:<100 r	mg//m3			
	(opacity) available &	URL/I.P of opacity meter: 192.168.101.205				
	connectivity	User id & PW:TEII	L/TEIL			
		whether operating s	satisfactorily: Yes			

36,	Type & Quantity	of Waste	Fermenter sludge: 150 Tons per month.						
	Generated		Bottom sludge (molasses)NA						
			Boiler ash: 0.6 7	ΓPD (used in bio α	compost)				
			Others						
37.	Facility of Storage/ Dis	sposal		ge: Used for Bio-c					
					٩				
			Boiler ash: Used for Bio-composting and land filling						
38.	Hazardous wastegeneration & disposal status:								
			A sales desard						
	HW Generated	Category	Authorized Quantity	Quantity Generated	Hw Disposal				
	Used Oil	5.1	-	Lower than	As informed, Used				
				320lit/annum	for lubrication of				
					lowgrade				
					machines				
	Wastes containing oil	5.2	NIL	Car'	· ·				
		((A)						

F: Observations & recommendations:

39.	Any By-pass / discharge?	un	authorized	Rece by th 2017	ie industi	iplaint of bypass or ry on 20 th Feb, 20	of untreated effluent D17 (O.A No.177 of
40.	Treatment/disposal effluent	of	domestic	Facil	ities avai	lable: Septic Tanl	k/Soak Pit
	*		Off.	S AEE	J. W	Staden	Q.19.

 The unit has provided treatment system for spent wash (1600 KLD) generated during the production of Rectified Spirit (RS) (160 KL). The treatment system consists of Settling Tank, Digesters, Lagoons, Reverse Osmosis (RO), and Multi Effect Evaporator (MEE), Bio Composting. The spent wash from digester is sent to RO plant (1600KL/Day) designed in module of 800 KL/Day each. The RO reject (50% of feed) is then sent to Multi effect Evaporator (MEE) where the solid concentration of spent wash is enhanced through 6 stages. As informed by the unit for pumping of rejects from MEE having high solid concentration is pumped by higher capacity motor to comply the observations no-4 of joint inspection dated 22.10.2016. The RO permeate (800 KLD) and condensate from MEE (400KLD) is reused in fermentation. The unit has provided two PTZ cameras one at Bio-compost field and another at lagoon both the cameras are not connected to CPCB server as per CPCB guidelines. Camera which was installed at Lagoon is not covering all the three 	41.	Route of reaching effluent to River No discharge, Zero Liquid Discharge:
 As per order of Hon'ble NGT, the Joint Inspection Team conducted complete surve of all anti - pollution control devices installed on 12.04.2017. The unit has provided treatment system for spent wash (1600 KLD) generated durin, the production of Rectified Spirit (RS) (160 KL). The treatment system consists of Settling Tank, Digesters, Lagoons, Reverse Osmosis (RO), and Multi Effect Evaporator (MEE), Bio Composting. The spent wash from digester is sent to RO plant (1600KL/Day) designed in modula of 800 KL/Day each. The RO reject (50% of feed) is then sent to Multi effect Evaporator (MEE) where the solid concentration of spent wash is enhanced through 6 stages. As informed by the unit for pumping of rejects from MEE having high solid concentration is pumped by higher capacity motor to comply the observations no-4 of joint inspection dated 22.10.2016. The RO permeate (800 KLD) and condensate from MEE (400KLD) is reused in fermentation. The unit has provided two PTZ cameras one at Bio-compost field and another at lagoon both the cameras are not connected to CPCB server as per CPCB guidelines. Camera which was installed at Lagoon is not covering all the three lagoons. Unit has provided online emission monitoring system at the stack connected to the boiler. Flow meters were installed at Raw spent wash and MEE concentrate & are connected to CPCB server. Ground water samples were collected from five Hand pump and one bore well (common head) & analysis results indicate that the ground water quality meet the norms for drinking water (IS 10500: 2012) & complying the observation no-13 of previous inspection. Hand pumpno-3 atbio-compost area has been closed & new hand pump is installed at the entry of Bio-compost yard. Joint inspection team visited the Bhandura drain& surrounding area to examine the complaint of bypass of untreated effluent by the industry on 20th Feb, 2017 (O.A No.177 of 2017). I	42.	
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		14. Joint inspection team observed that allegations by the applicant in OA

Of REE ON STORM RIKE

43. Recommendations:

- 1. The industry has provided treatment and management system for sperit wash & following Zero liquid Discharge.
- 2. The industry is complying with the observations no 4 and 13 made during the last inspection dated 20.10.2016(as per NGT order dated 15.12.2016). Detail given in the table given below:

Point No of the report	Observation	Observation made during inspection dated 12.04.2017	Status
4	Rejects from MEE having high concentration of solid is mixed with permeate which ispumped for Bio compost	High capacity motor is used to pump the MEE reject only	comply
13.	Ground water from Hand pump no 3 at Bio compost yard was coloured	Hand pump no 3 is closed and a new hand pump is installed at the gate of Bio Compost which is meeting the drinking water standard	comply

3. The industry should install the sufficient no of CCTV camera toward drain side and maintain record of DVR

44.	Date of Inspection	12.04.2017
45.	Name & designation of inspecting officer(s)	Signature
	1. S.K. Arora, Scientist 'E', CPCB, Delhi	Soan
	2. A.K. Tiwari, RO, UPPCB, Muzaffarnagar	80
	3. R.K. Singh, AEE, UPPCB, Muzaffarnagar	Big-
	4. Vinod Kumar, J.E., UPPCB, Muzaffarnagar	Quarter
	5. Ratnesh Kumar, Scientist 'B' CPCB Delhi	Q.V.

Analysis report of Ground water sample

S. No.	Sampling Point	pH	COD	Colour	Sulphate	TDS	No3-	Chloride	Fluorade	Phosphate-I
1	HP No-1 near Lagoon	7.2	BDL	<10	0.7		N			_
)	HP No-2 at the entrance of Bio Compost site	7.2			07	245	8	18	0.1	BDL
7	tro at a contrare of bio Compost site	7.2	BDL	<10	10	192	19.7	08	0.1	
3.	IIP No-3 near Bio Compost site	7.2	BDL	<10	BDL	198			UI	BDL
4	HP No-4 near Gain Gate(inside)	7.2	BDL			-	BDL	04	0.1	BDL.
7	HP No-1 near Main Gate(outside)	1:2	BUL	<10	BDL	232	BDL.	07	0.1	BDL
		7 3	BDL	<10	BDL.	226	BDL	06		The state of the s
3	Bore well sample(continon head)	73	BDL	<10				-00	0.2	BDL
	Standard	1 / /	וטטו	~10	08	235	6.2	17	101	BDL
	Date of the second seco	6.5-8.5		1.5	400	2000	45	1000	1.5	13171

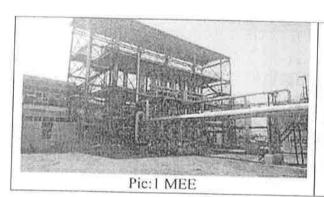
All values are in mg/l except pH and Colour in Hazen unit

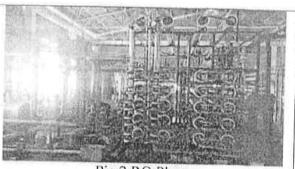
Analysis report of Bhandura Drain

SI Location No	Date of Sample collection	Parameters			
		рН	TSS	COD	BOD
1. Drain U/S	12.04.2017	6.98	3260	2283	650
2. Drain D/S	12.04.2017	6.93	1543	1865	660

All values are in mg/l except pH

Photograph Indicating Locations: M/s Triveni Engg. Industries Ltd. Bilaspur, Jolly road, Muzaffanagar, Uttar Pradesh



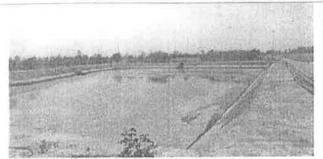


Pic:2 RO Plant

DO AETE

Se au

Solv



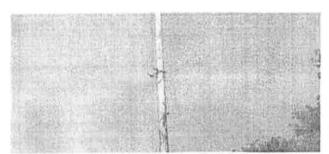
Pic:3 Lagoon



Pic:4 Hand pump near Bio-composting Yard



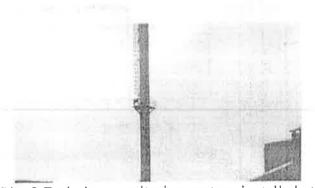
Pic:5 Bio-composting Yard



Pic:6 Webcam installed at Lagoon



Pic:7 Webcam installed at Bio-composting yard

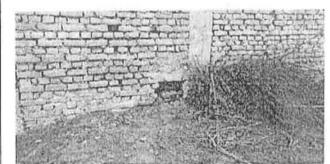


Pic: 8 Emission monitoring system installed at Stack

Photograph showing opening in the Boundary wall &nearby drain



Pic: 9 Bandura drain



Pic: 10 Opening in the wall Closed during inspection

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Annexure - I

M/s Triveni Distillery , Muzaffarnagar

(Figurs are Finacial year)

Production

Year	Rectified Spirit	ENA	Absolute Alcohol
2014-15	3915751.7	17822121.4	18258530.8
2015-16	1776089.9	7284444.3	1020000,0
2016-17	932148.9	10193390.5	

Finacial Year wise Molasses Recept and Consumption

Year	Receipt	Consumption	
2014-15	1836714.5	1704440	
2015-16	1728734.1	1811840	
2016-17	1737402.3	1762920	

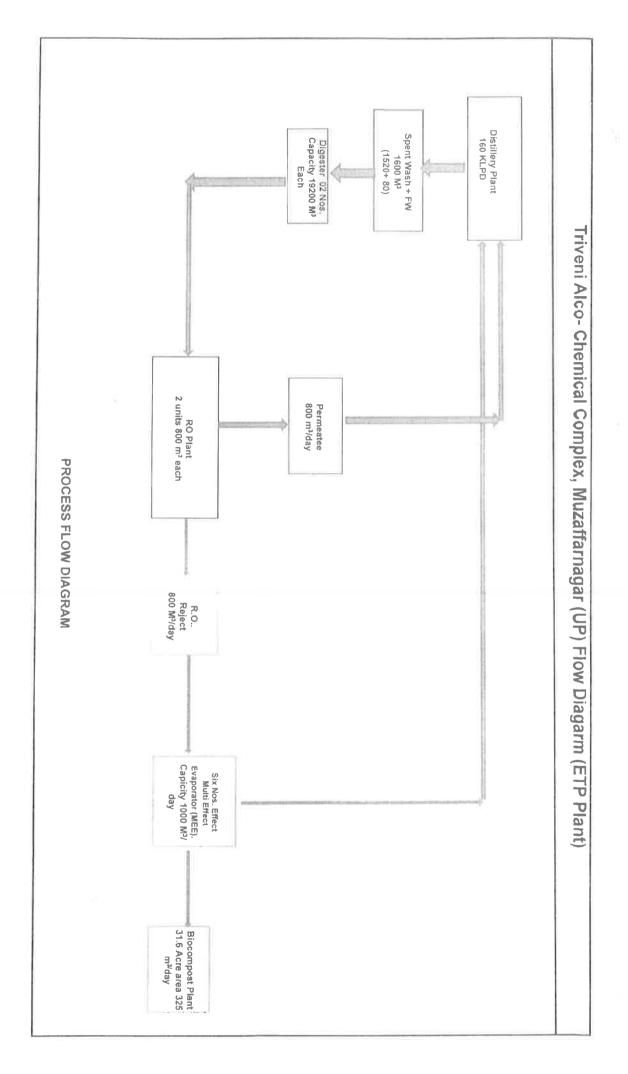
Operating Days

Year	Oprating Days	
2014-15	269	
2015-16	264	
2016-17	261	

Plant Capacity

432 Lac per annum 1.60 Lac Par Day

> एमारी आबकारी निरीक्षक िल्ली आसवानी मुजफ्फरनगर



जिस किसी से सम्बन्धित हो

प्रमाणित किया जाता हे कि मैसर्स त्रिवेणी आसवनी, मुजफ्फरनगर द्वारा वर्षाऋतु 01 जुलाई 2016 से 23 सितम्बर 2016 तक किसी भी प्रकार का आसवन का कार्य नहीं किया गया।

> प्रभारी आवकारी निरीक्षक त्रिवेणी आसवनी मुजफ्फरनगर।

13.9.1)

प्रमारी आबकारी निरीक्षक विवेणी आसवानी मुजफ्फरांनगर