

BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 96/2022/EZ

BETWEEN

ALL INDIA ANTI CORRUPTION ORGANISATION
..... APPLICANT(S)

VERSUS

GOVERNMENT OF WEST BENGAL & ORS.

..... RESPONDENT(S)

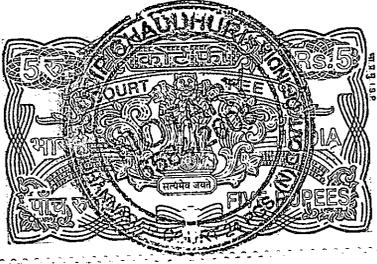
AFFIDAVIT ON BEHALF OF THE RESPONDENT NO. 02, THE
WEST BENGAL POLLUTION CONTROL BOARD.

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Filed by

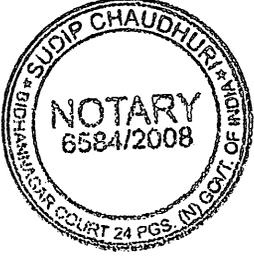
PRITHWISH KUMAR BASU
ADVOCATE
WBPCB



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EASTERN ZONE BENCH, KOLKATA

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**AFFIDAVIT ON BEHALF OF THE RESPONDENT NO. 02, THE
WEST BENGAL POLLUTION CONTROL BOARD.**

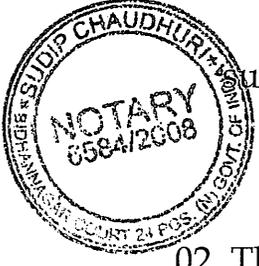
Most Respectfully Sheweth

I, Sri Subrata Ghosh, son of Shri Biswanath Ghosh, aged about 59 years, by Religion - Hindu, by Occupation- Service, residing at Narkelbagan, Gorosthan, Chinsurah, District-Hooghly, do hereby solemnly declare and say as follows:-

01. That, I am the Chief Engineer, West Bengal Pollution Control Board (hereinafter will be referred to as the 'State Board') and look after this case and as such I am well acquainted with the facts and

14 OCT 2022

circumstances of the case. I have been duly authorized by the Respondent No. 02 to affirm this Affidavit on its behalf and as such, I am competent to do so.



02. That, this affidavit is being affirmed in pursuance to the solemn order dated 13.09.2022 passed by the Hon'ble National Green Tribunal.

03. That, in compliance to the order of the Hon'ble Tribunal, the Committee inspected M/s. Globus Spirits Limited having its Distillery Unit at plot No. B-7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Dist. - Purba Bardhaman, Pin. - 713148.

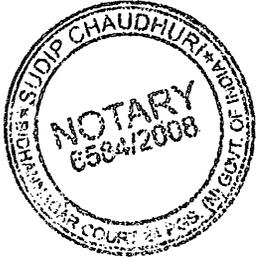
Copy of the Inspection Report of the State Board is annexed herewith and marked with the letter "R".

04. That, the inspection report reveals as follows :-

- i) The unit originally obtained Environmental Clearance (EC) from Ministry of Environment Forest and Climate Change for setting up a grain based distillery (120 KLPD) along with the cogeneration power plant (3.5 MW) at Panagarh Industrial Park.
- ii) During inspection, the unit was found to be in full-fledged

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iii) Inspecting Officers found leakage from collection tank of ETP- 2 (new) was observed and said leakage effluent was seen to find its way to storm water drain.



iv) The discharged untreated waste water find its way to sewerage channels/canals namely De Morol and MC-3. From the state of MC-3 canal specially, which had the characteristic odour of distillery waste water, it was quite evident that the distillery unit under scrutiny discharges its waste water on a regular basis, thus violating the condition of ZLD (Zero liquid discharge) as given in the EC and NOC.

v) The samples were also collected and analyzed from the Effluent Treatment Plant as well as the drains and canals.

05. That, the Inspecting officers have made the following remarks :-

- a) The unit M/s Globus Spirits Limited is grossly violating norms/consent order given by West Bengal Pollution Control Board. The unit may shut down immediately.
- b) The industry shall strictly abide by the ZLD concept as per the conditions of EC and NOC.
- c) The industry shall ensure that no process effluent gets into storm water drain.

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06. That, be it mentioned that, in earlier occasion on 04.11.2019, the unit was found discharging effluent outside through boundary wall violating ZLD condition as per EC and NOC. The regulatory action was taken by the State Board against the unit through imposition of closure order the said closure order was subsequently suspended with direction to operate the unit in compliance with environmental norms.



07. That, considering the report of the Committee, the State Board is going to issue necessary directions against the violation of the unit.

08. It is therefore respectfully prayed that Hon'ble Tribunal may pass such order/orders as it deems fit and proper in the interest of justice.


DEPONENT

14 OCT 2022

5
SL. NO. 931 20 22

BEFORE THE NOTARY PUBLIC VERIFICATION
AT BIDHANNAGAR
DIST.-NORTH 24 PARGANAS

I, Sri Subrata Ghosh, son of Shri Biswanath Ghosh, aged about 59 years, by Religion - Hindu, by Occupation- Service, residing at Narkelbagan, Gorosthan, Chinsurah, District-Hooghly, do hereby solemnly declare and say as follows:-

1. That, I am the Chief Engineer, West Bengal Pollution Control Board and I am well acquainted with the facts and circumstances of the instant Original Application.
2. That, the statements made in paragraph 1 of this affidavit is true to my knowledge and belief.
3. That, the statements made in paragraphs 2 to of this affidavit are my information derived from the records available in the office of the State Board which I verily believe to be true and the rest are my respectful submission before this Hon'ble Tribunal.



Sri Subrata Ghosh
DEPONENT

Settled & drafted

Identified by me

Priyanku Kumar Basu

Advocate

S. Chaudhuri
ATTESTED
S. CHAUDHURI
* NOTARY *
GOVT. OF INDIA
Regd. No.-6584/08
Bidhannagar Court
Dist.-North 24 Pgs.

14 OCT 2022



Report of the Joint Committee constituted as per the Order of Hon'ble NGT, EZ Bench, Kolkata dated 27/7/2022 in the matter of All India Anti-Corruption Organization versus Govt. of West Bengal & Ors. in OA no. 96/2022/EZ.

Background:

M/s. Globus Spirits Ltd., having its distillery unit at Plot no.-B7, Panagarh Industrial Park, P.O.- Kota, P.S.- Bud Bud, Dist.- Purba Bardhaman, Pin- 713148, is discharging its waste water to outside water bodies, as alleged by the applicant.

M/s. Globus Spirits Ltd. originally obtained Environmental Clearance (EC) from the MoEF&CC, Govt. of India, vide no. J-11011/337/2013-IA-II(I) dated 15/5/2015 for setting up of a grain-based distillery (120 KLPD) alongwith co-generation power plant (3.5 MW) at Panagarh Industrial Park in erstwhile Burdwan district (now Purba Bardhaman), W.B. with the salient specific conditions: -

- (i) Distillery unit shall be grain-based only and no molasses-based distillery unit shall be operated. The unit will use bagasse, if available.
- (ii) ESP along with stack of adequate height shall be provided to husk/coal-fired boiler to control particulate emission within 50 mg/Nm³. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (iii) In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of materials, multi-cyclone separator and water sprinkling system. Dust suppression system, including water sprinkling system shall be provided at loading & unloading areas to control dust emissions.
- (iv) Level of PM_{2.5}, PM₁₀, SO₂, NO_x, CO & HC (Methane) in ambient air shall be monitored & displayed at a convenient location near the main gate of the company and at important public places.
- (v) Water consumption shall be reduced by adopting 3 R's (reduce, reuse & recycle) concept in the process.
- (vi) Spent lees & condensate will be treated in UASBR followed by aerobic treatment and sand filtration/charcoal filtration. Treated effluent will be used as cooling tower make-up water and water



quality of treated effluent shall meet the norms prescribed by CPCB/WBPCB and recycle/reuse. Online water monitoring system shall be installed for important parameters.

(vii) No effluent from distillery and co-generation power plant shall be discharged outside the factory premises and Zero Liquid Discharge (ZLD) concept shall be adopted.

(vii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

(viii) Coal storage shall be done in such a way that it does not get air-borne. Fly-ash shall be stored separately as per CPCB guidelines so that it shall not affect the air quality adversely.

Following the EC, the unit obtained NOC from WBPCB vide certificate NO124933 dated 02/9/2015 for producing Industrial Alcohol/Rectified Spirit (RS)/Extra Neutral Alcohol (ENA)- 120 KLPD, Distiller's Dried Grain Solubles (DDGS)- 75 TPD, Carbon di-oxide gas- 60 TPD. Subsequently, the unit obtained the first *Consent to Operate* from WBPCB for 5 years vide certificate CO107510 dated 08/02/2017 which was valid upto 31/7/2021 (date of commissioning of the unit was mentioned in application as August, 2016).

At a later stage, the unit obtained another EC from the MoEF&CC, GoI vide no. J-11011/337/2013-IA-II(I) dated 22/3/2021 and subsequent NOC from WBPCB vide certificate NO164586 dated 13/9/2021 for an expansion project involving 120 KLPD grain-based distillery & a co-generation power plant of 4.5 MW i.e., total capacity post expansion is 240 KLPD distillery & 8 MW co-generation power plant. The condition of ZLD was maintained in both EC & NOC. Presently, the unit possesses *Consent to Operate* of WBPCB for whole of the plant valid upto 31/7/2026 through two certificates viz. CO123360 dated 30/7/2021 (renewal) and CO132147 dated 11/4/2022 (expansion).

Observation:

The members of the Joint Committee (officials of CPCB & WBPCB) constituted by the Hon'ble NGT inspected the unit on 07/9/2022 & 08/9/2022 in compliance with the order of Hon'ble NGT dated 27/07/2022.



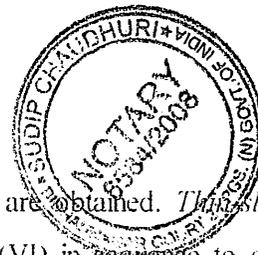
The unit was found to be in full-fledged operation with the two distillery sections (120 KLPD each, one produces RS/ENA and the other Ethyl Alcohol) and the two co-generation power plants (3.5 MW & 4.5 MW) running. The 3.5 MW co-generation power plant possesses a coal/husk fired 35 TPH boiler provided with an APC system comprising of an ESP & stack-60m from ground level. The 4.5 MW co-generation power plant possesses a coal/husk fired 40 TPH boiler provided with a similar APC system comprising of an ESP & stack-60m from ground level. Both the stacks were monitored. The stacks are provided with online stack monitoring system, but the display unit of such systems showed unchanging values over considerable period of time which indicates that the online system is not operating properly. However, the unit has been able to meet the stack emission standard for both boilers in PM but failed in SO₂ and NO_x monitored on 07/9/2022 (Reports are attached as Annexure 1 & 2).

The coal-crusher section was seen to have no dust suppression arrangement. Also, fugitive emission from fly-ash silos was seen to be quite frequent. Two Ambient Air Quality Monitoring Stations, one at the front gate of the unit (Northern side) and other near the rear entrance of the unit (South-Western side), were installed to assess the ambient air quality. Analysis report reveals that the values of parameter PM₁₀ is marginally higher than the standard in both the location (Reports are attached as Annexure 3 & 4). No such station was installed in the nearby village (falling on the Eastern side of the unit) as the air environment of the village is influenced by other units of the industrial park (Panagarh Industrial Park).

It was informed by the unit personnel [Sri J. B. Paul, DGM (Admin.) & Sri Pushendra Singh, GM (Plant)] that fly-ash is regularly disposed through arrangement with the vendors, but no documentation regarding generation & disposed quantity of fly ash could be produced by the unit.

Both distillery sections are grain-based (mainly broken rice) having the same basic process involving the following steps:-

Liquefaction (when starch is converted to fermentable sugar with the help of enzymes) → *Saccharification & Fermentation* (done with the help of enzymes, nutrients, antibiotics, Red Ethanol yeast & fermentation boosters) → *Distillation* (which gives Ethanol, Spent lees & Spent wash).



Spent wash is subjected to decantation process when *Wet-cake & Thin-slop* are obtained. *Thin-slop* is subjected to flash tank, multi-effect evaporator (MEE) & Vapour Integration (VI) in sequence to obtain thick *Syrup*. The *Syrup* is mixed with *Wet-cake* to obtain *Distiller's Wet Grain Solubles (DWGS)* which is dried to obtain DDGS. The CO₂ generated from the fermentation process is bottled/converted to dry-ice in the CO₂ plant within the unit premises.

Spent lees is used in slurry preparation and excess amount is sent to ETP for treatment along with process condensate and wash waters. Both the distillation sections have dedicated ETP of 600 KLD each i.e. total waste water treatment capacity is 1200 KLD. Both ETPs are similar in operation and have the following unit operations in sequence: -

Equalization tank → Buffer tank → Up-flow Anaerobic Sludge Blanket (UASB) digester → Aeration tank → Secondary clarifier → Flocculation tank → Tube settler → Multi-Grade Filter → Activated Carbon Filter → Treated Water Tank → Softener → Reuse in cooking process and cooling tower make-up.

Methane generated in UASB is subjected to flaring. Sludge generated from Secondary Clarifier & Tube Settler is stored in sludge drying bed and used in land filling /as manure in gardening.

During inspection, leakage from collection tank of ETP-2(new) was observed and such leakage effluent was seen to find its way to storm water drain. Also, wash water from production sections was seen to get into storm water drains. The unit has kept arrangement of pump & flexible pipes to return such water to collection tank of ETP, but such mixing of industrial waste water with storm water is totally undesirable. In reality, such waste water was seen to be discharged outside through an outlet in the southern boundary wall. The discharged untreated waste water finds its way to sewerage channels/canals namely De Morol & MC-3. From the state of MC-3 canal specially, which had the characteristic odour of distillery waste water, it was quite evident that the distillery unit under scrutiny discharges its waste water on a regular basis, thus violating the condition of ZLD as given in EC & NOC. Water samples from different points were collected.



- Water Quality status of the samples collected from New, Old ETPs and Effluent Outlet drain near CO₂ plant shows in Table - 1.

Table -1: ETP and Outlet Drain Status inside Plant Premises

Location Details	pH	TSS	COD	BOD	Color
		mg/l	mg/l	mg/l	CU
New ETP Inlet (1 st day)	3.5	12	6299	4137	10
Effluent outlet drain near CO ₂ plant(1 st day)	5.4	744	22047	19148	30
ETP Inlet New(2 nd day)	3.5	28	5709	4037	10
ETP Outlet New after softner (2 nd day)	8.7	16	122	28	625
Old ETP Inlet (2 nd day)	3.8	9	4685	2537	10
Old ETP Outlet after softner (2 nd day)	7	74	1063	497	10

- Analysis results of the effluent outlet drain near CO₂ plant shows that pH value was 5.4, TSS- 744 mg/l, COD- 22047 mg/l, BOD-19148mg/l which clearly indicates that the unit is discharging untreated waste water to outside of the plant premises.
- Old ETP outlet data shows that COD concentration is 1063 mg/l and BOD value 497 mg/l which revealed that ETP is not functioning well.
- Analysis result of the samples collected during visit from various drains/canal are mentioned below (Table-2):

Table-2: Water Quality Data of drain & Canals

Details	pH	TSS	COD	BOD	Color
		mg/l	mg/l	mg/l	CU
Effluent discharge after plant boundary wall	5.4	132	10827	8874	40
De moral canal gate no 97/C/E	4.8	196	1969	1395	15
MC-3 Canal	5.7	210	1181	657	15



- Analysis results of samples (Table-2) collected from the outside plant boundary wall of Moral Canal & MC-3 canal which indicate pH of effluent water is acidic in nature and observed at the range of 4.8 -5.7. BOD concentration was observed in the range of 657mg/l to 8874mg/l which indicates the effluent from distillery unit. The unit M/s. Globus Spirit Ltd. discharging untreated waste to the outside premises which finally flows down to the above-mentioned canals. Above analytical data revealed that due to non- functioning of ETP, the unit has chosen illegal route to discharged waste water.
- Analysis result of the samples collected from Khari River upstream and downstream are mentioned below (Table-3):

Table:3 Water Quality Data of Khari River upstream & downstream

Location	pH	TSS	TDS	COD	BOD	Cond.	NO ₂ -N	NO ₃ -N
		mg/l	mg/l	mg/l	mg/l	µs/cm	mg/l	mg/l
Khari River Origin U/s	6.8	58	106	28	4	219	0.03	0.04
Khari River D/s Budbud	7.1	188	192	27	4	307	0.05	0.35

Location	SO ₄	NH ₃ -N	Na	K	Alk	Cl	Hard	Ca	Mg
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Khari River Origin U/s	14	1.04	12.5	2.9	68	20	68	16	4
Khari River D/s Budbud	34	0.95	17	4.3	80	24	102	26	9

Analytical result of upstream & downstream Khari River, no any significant impact of distillery water was found in downstream, it may be due to ongoing monsoon season or mixing of some other canal water into Khari River.

Other relevant information:

It may be mentioned in this context that in an earlier occasion (on 04/11/2019) the unit was found discharging trade effluent outside through its boundary wall violating the ZLD condition as per EC & NOC obtained by the unit. A sample of such effluent collected on the day (04/11/2019) failed to meet the discharge standard. Regulatory action was taken by the State Board against the unit through imposition of closure order vide memo no. 609_dr_co_r/16/0122 dated 06/01/2020. The said closure

order was subsequently suspended by the State Board vide memo no. 700_dr_co_r/16/0122 dated 15/01/2020 with a direction to operate the unit in compliance with environmental norms and always operate the ETP and maintained ZLD.

Remarks/Recommendation:

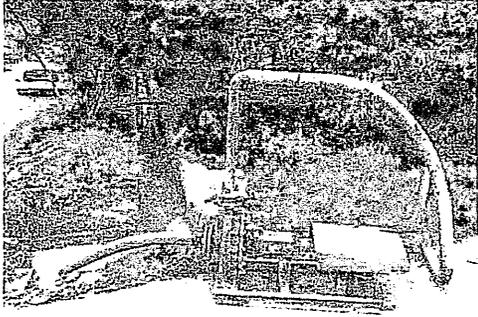
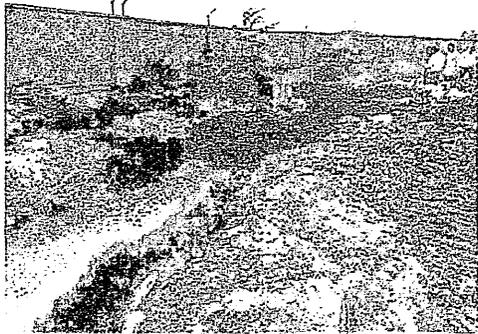
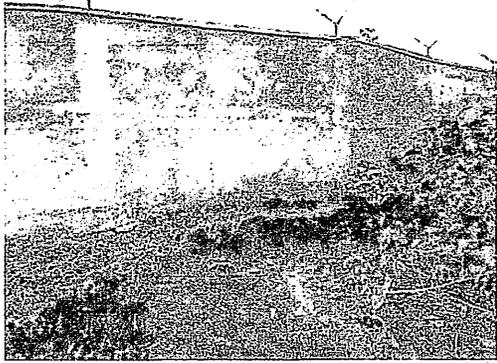
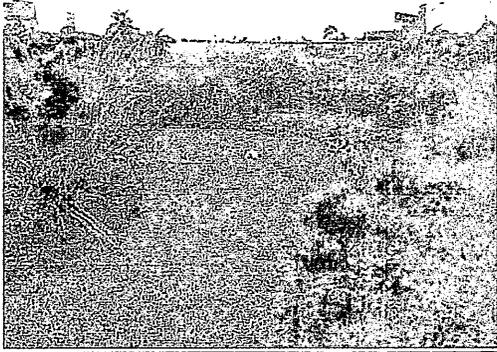
1. The unit M/S Globus Sprit Ltd is grossly violating norms/consent order given by WBPCB. The unit may shut down immediately.
2. The industry shall strictly abide by the ZLD concept as per the conditions of EC, NOC and consent to operate obtained.
3. The industry shall ensure that no process effluent gets into storm water drain.

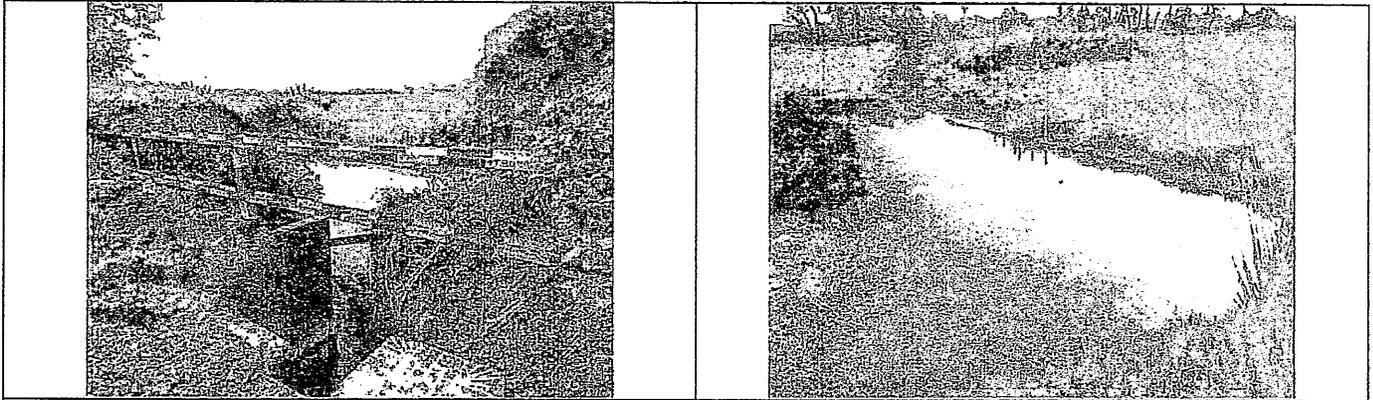

11/10/2022
Arup Kumar Dey
Environmental Engineer
WBPCB


19/10/22
Susmita Ekka
Scientist 'D'
CPCB

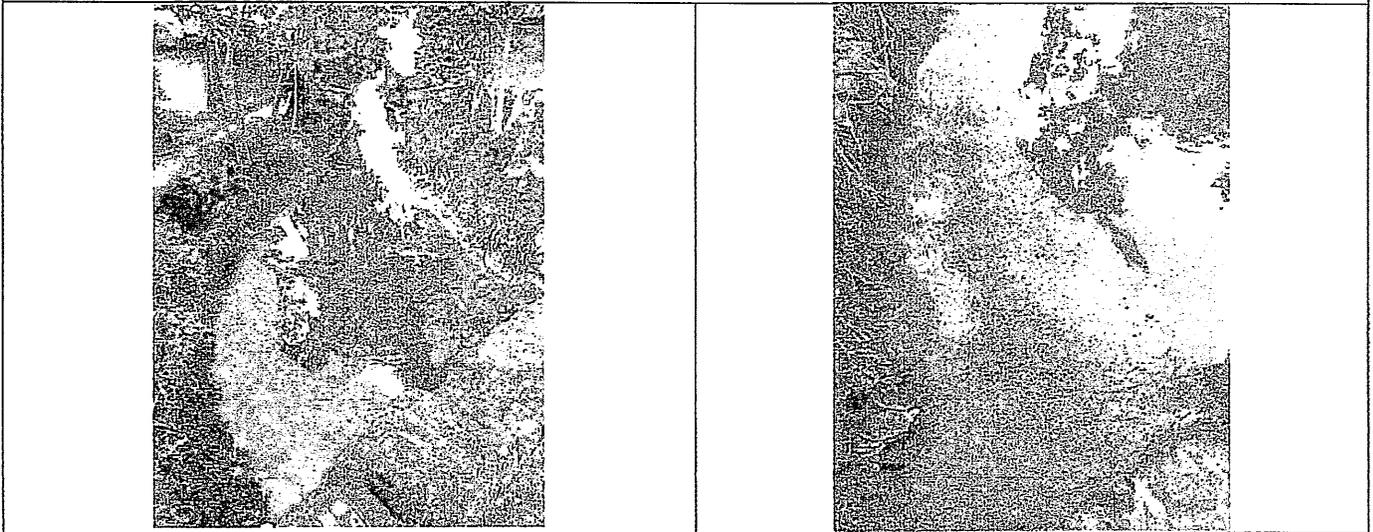


Photographs of Globus Spirits Ltd. taken on 07/9/2022

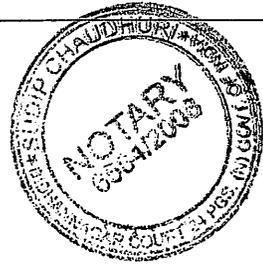
	
<p>Leakage of waste water from equalization tank of ETP-2(new)</p>	<p>Waste water finding its way to storm water drain</p>
	
<p>Pump-flexible pipe arrangement for lifting the mixed waste water from drain to collection tank of ETP</p>	<p>Drain near Southern boundary wall having waste water. Part of the drain covered with ash & mud to obscure the outlet.</p>
	
<p>Outlet visible outside the Southern boundary wall</p>	<p>Discharged waste water outside the unit. Scum, characteristic of distillery, formed on water surface.</p>



De Morol canal, upstream of railway track with the unit in the back ground (left) & downstream of railway track (right)



MC-3 canal with scum of unit's waste water deposited on the sides



Analysis Reports of Gaseous Emission

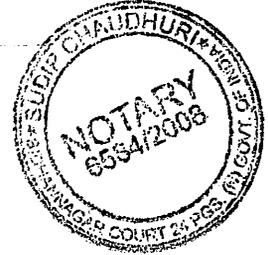
Identification Code: 070920228610



WEST BENGAL POLLUTION CONTROL BOARD
Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

Analysis done at:

1. Name of Industry		M/s. Globus Spirits Ltd.	
2. Address		Plot No.- B7, Panagarh Industrial Park, P.O: Kota P.S: Bud Bud, Purba Bardhaman-713148 Red; Distillery (grain based)	
3. Category & Type		07.09.2022	
4. Sampling Date		36 min.	
5. Duration of Sampling		M/s. Envirocheck	
6. Name of Laboratory		60.0	
7. Height of Stack from ground (m)		7.065	
8. Cross section of Stack at sampling point (m ²)		Boiler of CPP-1 (35 TPH)	
9. Stack connected to		Combustion of Coal	
10. SO ₂ Emission due to (Furnace / Boiler)		720 hrs/month	
11. Average operational hours of boiler/furnace (per month)		ESP	
12. APC System (if any)		31 MT/hr.	
13. Working load of source (MT/hr)		Coal	
14. Fuel used		6000 kg/hr.	
15. Rated Fuel consumption (Kg or l/hr)		5850 kg/hr.	
16. Working Fuel consumption (Kg or l/hr)		AFBC Boiler	
17. Nature of furnace/boiler		90.7	
18. Flue Gas Temp (°C)		20. Volume of Flue gas drawn in lit (m ³)	1.008
19. Flue gas velocity (m/s)	7.14	22. Percentage of CO ₂ & O ₂	CO ₂ =10.4% O ₂ = 7.2%
21. Corrected flue gas volume (Nm ³)	0.9214		
23. To be compensated at (% if required)		6% O ₂	
24. Initial wt of thimble (gm)	1.4741	25. Final wt of thimble (gm)	1.5029
26. Wt. of PM (mg)	28.80	27. Particulate matter (mg/Nm ³)	34.00 at 6% O ₂
28. Barometric Pressure Head (mm of Hg)	751	29. Diameter of the nozzle	9.52 mm
30. Others SO ₂ & SO _x		31. Thimble Number	4112
32. Sampled by		Mr. A.K.Dey, EE, Mr. C. Dawn, AEE & Mr. S. Sardar, JEE with CPCB Team	



14/09/2022

Date of Reporting

P. Chandhuri

Junior Scientist, DRL

14/09/2022

Scientist, DRL

Copy to:

1. Chief Engineer - Operation & Execution, WBPCB
2. Chief Scientist, WBPCB
3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
4. Industry



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



Annexure - 1 (page-2)



TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Globus Spirits Ltd.	Type of Industry	: Grain Based Distillery
Address	: Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	: 07.09.2022
		Period of Analysis	: 09.09.2022 - 09.09.2022
		Date of Issue	: 10.09.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/47/Sep./A/1	Report No.	: ENV/47/Sep./TR(A)/1/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

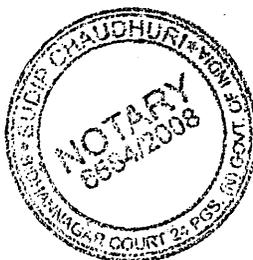
Stack Attached to	: Boiler (35 TPH) (CPP - 1)
Shape of Stack	: Circular
Materials of Construction	: Concrete
Capacity	: Rated - 35 TPH [Running - 31 TPH]
Emission Due to	: Combustion of Coal
Fuel Used	: Coal
Working Fuel Consumption	: 5.85 Ton/hr.
Pollution Control Device	: E.S.P

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Average Flue Gas Temperature	°C	IS : 11255 (Part 1)	90.7
2.	Barometric Pressure	mm of Hg.	--	751.0
3.	Average Velocity of Gas flow	m/s	IS : 11255 (Part 3)	7.14
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	142121.89
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	991.09
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec. 11 (Vol. 11.07) : 2011	310.86
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	10.4
8.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	<1.0
9.	a) Concentration of Particulate Matter	mg/Nm ³	--	To be given by WBPCB
	b) Concentration of Particulate Matter (at 6% O ₂)		--	To be given by WBPCB

Remarks :

Reviewed By:



Approved By:

Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

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ISO 17025:2017

TEST REPORT

FORMAT NO: ENV/FM/3B

Name of the Industry	: Globus Spirits Ltd.	Type of Industry	: Grain Based Distillery		
Address	: Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	: 07.09.2022		
		Period of Analysis	: 09.09.2022 - 09.09.2022		
		Date of Issue	: 10.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/47/Sep./A/1	Report No.	: ENV/47/Sep./TR(A)/1/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Boiler (35 TPH) (CPP - 1)	Height of Stack (mtr.) (from G. L.)	: 60.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 3.0
Materials of Construction	: Concrete	Height of sampling port (mtr.) (from G.L.)	: 30.0
Capacity	: Rated - 35 TPH [Running - 31 TPH]		
Emission Due to	: Combustion of Coal	Permanent Platform & Ladder	: Yes
Fuel Used	: Coal		
Working Fuel Consumption	: 5.85 Ton/hr.		
Pollution Control Device	: E.S.P		

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	7.2

Remarks :

Reviewed By :

Approved By :



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Analysis Reports of Gaseous Emission

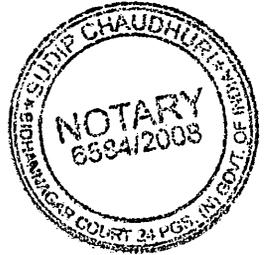
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WEST BENGAL POLLUTION CONTROL BOARD
Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

Analysis done at:

1. Name of Industry		M/s. Globus Spirits Ltd.	
2. Address		Plot No.- B7, Panagarh Industrial Park, P.O: Kota P.S: Bud Bud, Purba Bardhaman-713148 Red; Distillery (grain based)	
3. Category & Type		07.09.2022	
4. Sampling Date		32 min.	
5. Duration of Sampling		M/s. Envirocheck	
6. Name of Laboratory		60.0	
7. Height of Stack from ground (m)		7.065	
8. Cross section of Stack at sampling point (m ²)		Boiler of CPP-2 (40 TPH)	
9. Stack connected to		Combustion of Coal	
10. Emission due to (Furnace / Boiler)		720 hrs/month.	
11. Average operational hours of boiler/furnace (per month)		ESP	
12. APC System (if any)		34 MT/hr.	
13. Working load of source (MT/hr)		Coal	
14. Fuel used		7000 kg/hr.	
15. Rated Fuel consumption (Kg or l/hr)		6500 kg/hr.	
16. Working Fuel consumption (Kg or l/hr)		AFBC Boiler	
17. Nature of furnace/boiler		94.6	
18. Flue Gas Temp (°C)		20. Volume of Flue gas drawn in lit (m ³)	1.024
19. Flue gas velocity (m/s)	8.53	22. Percentage of CO ₂ & O ₂	CO ₂ =10.8% O ₂ = 7.0%
21. Corrected flue gas volume (Nm ³)	0.9655	23. To be compensated at (% if required)	6% O ₂
24. Initial wt of thimble (gm)	1.4037	25. Final wt of thimble (gm)	1.4186
26. Wt. of PM (mg)	14.90	27. Particulate matter (mg/Nm ³)	16.54 at 6% O ₂
28. Barometric Pressure Head (mm of Hg)	751	29. Diameter of the nozzle	9.52 mm
30. Others SO ₂ & SO _x		31. Thimble Number	4113
32. Sampled by		Mr. A.K.Dey, EE & Mr. C. Dawn. AEE. Mr. S. Sardar, JEE with CPCB Team	

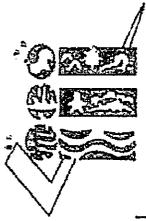


1A/09/2022
Date of Reporting

[Signature]
Junior Scientist, DRL

[Signature] 1A/09/2022
Scientist. DRL

- Copy to:
1. Chief Engineer - Operation & Execution. WBPCB
 2. Chief Scientist, WBPCB
 3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
 4. Industry



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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



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TEST REPORT

FORMAT NO.: ENV/FM/3B

Name of the Industry	: Globus Spirits Ltd.	Type of Industry	: Grain Based Distillery
Address	: Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	: 07.09.2022
		Period of Analysis	: 09.09.2022 - 09.09.2022
		Date of Issue	: 10.09.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/47/Sep./A/II	Report No.	: ENV/47/Sep./TR(A)/II/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

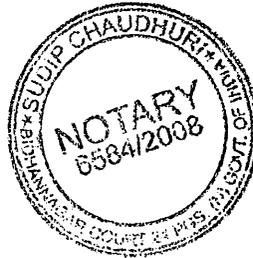
Stack Attached to	: Boiler (40 TPH) (CPP - 2)
Shape of Stack	: Circular
Materials of Construction	: Concrete
Capacity	: Rated - 40 TPH [Running - 34 TPH]
Emission Due to	: Combustion of Coal
Fuel Used	: Coal
Working Fuel Consumption	: 6.5 Ton/hr.
Pollution Control Device	: E.S.P
Height of Stack (mtr.) (from G. L.)	: 60.0
Stack I.D. at sampling point (mtr.)	: 3.0
Height of sampling port (mtr.) (from G.L.)	: 30.0
Permanent Platform & Ladder	: Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Average Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 94.6
2.	Barometric Pressure	mm of Hg.	--	: 751.0
3.	Average Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.53
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 167837.21
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 1179.78
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec. 11 (Vol. 11.07) : 2011	: 341.84
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 10.8
8.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	: <1.0
9.	a) Concentration of Particulate Matter	mg/Nm ³	--	: To be given by WBPCB
	b) Concentration of Particulate Matter (at 6% O ₂)		--	: To be given by WBPCB

Remarks :

Reviewed By :



Approved By :

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Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WPCB & ISPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

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ISO 45001:2018

TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Globus Spirits Ltd.	Type of Industry	: Grain Based Distillery		
Address	: Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	: 07.09.2022		
		Period of Analysis	: 09.09.2022 - 09.09.2022		
		Date of Issue	: 10.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/47/Sep./A/II	Report No.	: ENV/47/Sep./TR(A)/II/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Boiler (40 TPH) (CPP - 2)	Height of Stack (mtr.) (from G. L.)	: 60.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 3.0
Materials of Construction	: Concrete	Height of sampling port (mtr.) (from G.L.)	: 30.0
Capacity	: Rated - 40 TPH [Running - 34 TPH]		
Emission Due to	: Combustion of Coal		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 6.5 Ton/hr.		
Pollution Control Device	: E.S.P		

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	7.0

Remarks :

Reviewed By:

Approved By:



H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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 Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

ILAC-MRA



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	Globus Spirits Ltd.	Type of Industry	Grain Based Distillery
Address	Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	07.09.2022 - 08.09.2022
		Period of Analysis	09.09.2022 - 09.09.2022
		Date of Issue	10.09.2022
Sampling Plan & Procedure	ENV/SOP/01 Deviation from the Sampling Method and Plan	No	Type of Sample : Ambient Air
Sample ID No.	ENV/47/Sep./A/IV	Report No.	ENV/47/Sep./TR(A)/IV/22-23

A) GENERAL INFORMATION

1. Location of Sampling : Main Gate
2. Duration of Sampling : 24 hrs. (17:30 hrs. - 17:50 hrs.) (08 Hourly Basis)

B) RESULTS:

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS						
				17:30 hrs. - 01:30 hrs.		01:40 hrs. - 09:40 hrs.		09:50 hrs. - 17:50 hrs.		Average
				Shift - I	Shift - II	Shift - III	Shift - III	Shift - III		
1	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23): 2006	91.50	96.15	142.81			110.15	
2	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) 2011	8.44	9.64	10.85	7.23	14.47	12.05	10.45
3	Concentration of NO _x	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07): 2011	30.20	31.63	32.11	29.72	34.51	32.59	31.79
Remarks	1 st Shift from 17:30 hrs. (07.09.2022) to 01:30 hrs. (08.09.2022). 2 nd Shift from 01:40 hrs. (08.09.2022) to 09:40 hrs. (08.09.2022). 3 rd Shift from 09:50 hrs. (08.09.2022) to 17:50 hrs. (08.09.2022).									

Reviewed By :

Dr. AJOY PAUL
Quality Manager

Approved By :

Dr. SUMIT CHOWDHURY
Technical Manager





ENVIROCHECK

ILAC-MRA



TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Globas Spirits Ltd.	Type of Industry	: Grain Based Distillery
Address	Plot No. - B7, Panagarh Industrial Park, P.O. - Kota, P.S. - Bud Bud, Purba Bardhaman - 713148	Sampling Date	: 07.09.2022 - 08.09.2022
		Period of Analysis	: 09.09.2022 - 09.09.2022
		Date of Issue	: 10.09.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/47/Sep./A/III	Report No.	: ENV/47/Sep./TR(A)/III/22-23

A) GENERAL INFORMATION

1. Location of Sampling : At Back Gate
2. Duration of Sampling : 24 hrs. (19:50 hrs. - 20:10 hrs.) (08 Hourly Basis)

B) RESULTS:

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS						
				19:50 hrs. - 03:50 hrs. Shift - I		04:00 hrs. - 12:00 hrs. Shift - II		12:10 hrs. - 20:10 hrs. Shift - III		Average
1.	Concentration of PM ₁₀	ug/m ³	IS 5182 (PART 23) : 2006	110.48		92.89		211.40		
2.	Concentration of SO ₂	ug/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07): 2011	14.46	12.05	8.44	7.23	16.88	14.47	12.25
3.	Concentration of NO _x	ug/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07): 2011	32.11	30.20	28.76	26.36	36.43	30.20	30.68
Remarks	1 st Shift from 19:50 hrs. (07.09.2022) to 03:50 hrs. (08.09.2022). 2 nd Shift from 04:00 hrs. (08.09.2022) to 12:00 hrs. (08.09.2022). 3 rd Shift from 12:10 hrs. (08.09.2022) to 20:10 hrs. (08.09.2022).									

Reviewed By :

Dr. AJOY PAUL
Quality Manager

Approved By :

Dr. SUMIT CHOWDHURY
Technical Manager



**BEFORE THE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 96/2022/EZ**

BETWEEN

**ALL INDIA ANTI CORRUPTION ORGANISATION
..... APPLICANT(S)**

VERSUS

GOVERNMENT OF WEST BENGAL & ORS.

..... RESPONDENT(S)

**AFFIDAVIT ON BEHALF OF THE RESPONDENT NO. 02, THE
WEST BENGAL POLLUTION CONTROL BOARD.**

Filed by

**PRITHWISH KUMAR BASU
ADVOCATE
WBPCB**