

IIPL/HAL/ENV/23-24/MOEF- ERO -01 Date: 21.11.2023

To,

The Director
Govt of India
MOEF&CC,
Integrated Regional Office, Kolkata, 1B-198,
Salt Lake City, Sector III, Kolkata-700106

Subject: Half-yearly Compliance Report for compliance status of stipulated conditions of Environmental Clearance No. J-11011/136/2007-IA .II (I) as on Period April 23 —Sept 23

Dear Sir,

We are submitting herewith half yearly compliance report as per the stipulated conditions of the Environmental clearance granted for the replacement of furnace oil based hot air generator by fluidized bed biomass gasifier in the DAP-1 Plant of Indorama India Pvt Ltd. at Haldia, West Bengal.

Hope you will find this in order.

We are also uploading the EC compliance report in our company website in the following link.

https://ircagro.com/compliance-report/

Thanking You

Yours Sincerely

For Indorama India Pvt Ltd.

Chandra Shekhar Prasad Chief Operating Officer

Enclosures: Compliance status report

CC :-

1.The Scientist 'D' & In-charge, Central Pollution Control Board, Zonal Office, Kolkata Southernd Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata -700107

2.The Senior Environmental Engineer, EIM cell, West Bengal poliution Control Board, 10 A, Block-LA, Sector – III, Salt Lake City, Kolkota - 700106

3. Incharge & Environmental Engineer, Haldia Regional office.

INDORAM



HALF-YEARLY COMPLIANCE

Report of the Conditions of the Environmental Clearance of the replacement of furnace oil based hot air generator by fluidized bed biomass/Coal gasifier DAP-1 plant

Period- April 2023 – September 2023



Indorama India Pvt Ltd PO:-Durgachak, Haldia, Dist :Purba Medinipur,

West Bengal: 721602 T: +91(03224)660600



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Name of the Project:- Replacement of Furnace oil based Hot air generator (HAG) by fluidized Bed Biomass Gasifier in the DAP1 plant of Indorama India Pvt. Ltd.

<u>Clearance Letter no:-</u> J-11011/136/2007-IA II (I) dated 20-07-2007

Period of compliance reports: 1st April 2023 to 30th September 2023

Sr. No.	Conditions stipulated in Environmental Clearance	Compliance Status
Al Spe	cific Conditions	
	The gaseous and particulate matter	The gaseous and particulate matter emissions
1.	emissions from various units shall	from various units (Sulphuric acid plant (SAP1 &
	conform to the standards prescribed	SAP2), Di-ammonium phosphate plant (DAP1 &
	by the W. B. State Pollution Control	DAP2), Single superphosphate plant (SSP) are
	Board (WBPCB). All emissions including	within the permissible limit as per Consent to
	SPM, RPM, SO2, and NOx should be	Operate.
	within permissible limits. At no time,	
	particulate emissions from the unit	
	shall exceed 100 mg/Nm3 and all the	Continuous online analyzers are installed for
	necessary air pollution control system	Particulate matter (PM) in DAP plant (Di
	shall be installed.	ammonium phosphate Plant), SSP plant (single
		superphosphate Plant). Further NH3, HF
	Continuous on-line monitors for	analyzers in DAP plants and HF analyzer in SSP
	particulate emissions shall be installed	plant are installed and connected to CPCB
	in stacks. Interlocking facility shall be	server as per CPCB guidelines of CEMS system
	provided in the pollution control	of fertilizer industry. Interlocking facility provided
	equipment so that in the event of the	with the pollution control equipment in the
	pollution control equipment not	plant such as interlocking facility provided with
	working, the respective unit (s) is shut	scrubber pumps. In DAP 1, DAP2 and SSP Plant.
	down automatically.	Monitoring reports of stack emission are
		provided in annexure-1 .
		Full compliance.



2. gaseous emission shall be maintained within 100 mg/NM3

The Company shall install Adequate Dust collection and extraction system at all dust collection and extraction system material transfer points and cyclone with bag at appropriate place to control filter is installed in DAP plant for capturing dust fugitive dust emissions. Cyclone and particle & send back to the process. High Scrubbers shall be provided to control efficiency bag filter is installed in SSP ball mill gaseous emissions from the stacks and grinding section by replacing the earlier one.

> Scrubbers have been installed for controlling gaseous emissions from the stack and maintaining emission level below the emission limit of 100 mg/nm3 for particulate matter. Online PM analyzers are also installed in all the stacks of the plant.

Full compliance.

3. **WBPCB**

the State authorities.

Monitoring of ambient air quality and attached for reference. shall be carried out regularly in regularly

Ambient air quality monitoring stations | We are monitoring ambient air quality of all the shall be set up as per statutory parameters as per National ambient air quality requirement in consultation with the standards in two locations outside our factory premises and in two location inside our premises Ambient air quality including ambient monthly twice in consultation with WBPCB. noise levels shall not exceed the Compliance reports are also being sent to standards stipulated under EPA or by WBPCB. Ambient air quality reports are attached in annexure-2. Monitoring reports are

consultation with WBPCB and data Ambient noise being measured periodically in 4 submitted to the CPCB and WBPCB locations. Reports attached in annexure-3 for the month of Apr'23-Sep'23.

The instruments used for ambient air Calibration of the instruments measuring



	quality monitoring shall be calibrated time to time.	ambient air quality done by third party. Full compliance.
	No additional water shall be used. Recycle and reuse of water through recirculation shall be ensured	Water consumption is as per CTO standard and no additional water is being used.
4.	Efforts shall be made to adopt 'zero' discharge	The DAP-1/DAP2 plant & SSP plant is zero liquid effluent discharge plant.
		In Sept 22, an effluent recycling plant of 40m3/Hr has been installed. Major components of effluent recycling plants are: HRSCC (High rate solid contact clarifier), Multigrade filter, UF and RO system. The permeate water from RO is used in DM plant and cooling tower make up and reject water is used in DAP & SSP plant. This project has reduced the effluent discharge towards zero and fresh water consumption has also been reduced due to this. Total effluent recycled during this period: 1,42,752 m3. ETP reports are attached in annexure-4 Pictures of Effluent recycling plant is also attached in annexure -4.
5.	waste shall be disposed off outside the premises. Fly ash generated due to burning of biomass /coal shall be used	(Hazardous waste) which generates from sulfuric acid plant is disposed to West Bengal Waste management (Ramky). Sulphur



		(Hazardous waste) generates from maintenance activity is sold to WBPCB approved recycler. ETP sludge generated from effluent treatment plant operations also disposed to West Bengal Waste Management. Total 10.9 MT of spent catalyst, 21.22 MT of ETP sludge, 3.62 MT of used oil, 23.6 MT of Sulphur sludge generated during this period. Fly ash (Solid waste) generated due to burning of coal/biomass is used as a filler in DAP manufacturing process. Total 244.47MT of metal scrap generated during the period, which was sold to scrap dealer.
6.	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB for fertilizer plants shall be implemented	



7.	Rainwater harvesting measures shall	As per Ground water authority SWID, we are not
	be adopted. The company shall	allowed to recharge ground water. Currently to
	harvest the rainwater from the roof	conserve fresh water we are having small rain
	tops and storm water drains to	water sumps in various plants to collect and use
	recharge the ground water and use	rain water in process. Apart from that we have
	the same water for the various	a 2500 m3 of HDPE lined pond for storing of rain
	activities of the project to conserve	water from where we use the rain water in SSP
	the fresh water	Plant process. We have constructed additional
		2000 & 2700 m3 of HDPE lined concrete pond
		for rain water harvesting (storage and
		utilization) and improvement in storm water
		management. To strengthen the storm water
		collection system, we have roof top water
		collection system. Rain water is used in SSP plant
		process.
		Full compliance.
	Necessary other statutory clearances	Complied. No objection certificate obtained
	Necessary other statutory clearances from other concerned Departments	
8.		
8.	from other concerned Departments	
8.	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained	from WBPCB.
8. 9.	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of	from WBPCB. Full compliance.
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is attached in annexure -6.
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant shall be	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is attached in annexure -6.
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant shall be assessed and a compliance report	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is attached in annexure -6.
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant shall be assessed and a compliance report shall be submitted to the Ministry's	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is attached in annexure -6.
	from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant shall be assessed and a compliance report shall be submitted to the Ministry's Regional Office at the Bhuvaneshwar, Orissa, CPCB and WBPCB	from WBPCB. Full compliance. Pollution load calculations due to replacement of HAG for the period Apr'23–Sep'23 is attached in annexure -6.



	community welfare measures in the project area	Full compliance.
B] Ge	neral Conditions	
1.	The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government	
2.	· ·	We ensure that no further expansion or modification of the plant shall be carried out without prior approval. EC letter is attached in annexure - 8 Full compliance.
3.	the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	compliance. They are within permissible limits We are also measuring the ambient noise, which is conforming to the standards prescribed under Environmental Protection act, 1986. Diesel generator rooms have acoustic enclosures.



4.	Proper housekeeping and adequate	We are maintaining proper housekeeping in
	occupational health programs shall be	our plant. Our senior management is also very
	taken up	focused to improve the GHK of the plant.
		We have occupational health center in our
		plant. We carry out periodic medical checkup
		for all regular employees, which includes clinic
		examination of relevant pathological tests
		(CBC, FBS, Liver function tests, lipid profile,
		Pulmonary function tests etc. From April 23-
		Sept 23, total 739 nos. of employees medical
		checkup was planned and 733 nos.
		completed i:e completion% is 99.18%
		Full compliance.
	A separate environmental	A separate environment department is formed
	management cell to carry out various	with qualified team headed by COO (Chief
5.	management and monitoring	Operating Officer). The reporting hierarchy
	functions shall be set up under the	along with qualification details is mentioned in
	control of Senior Executive	annexure-9.
		Full compliance.
	Adequate funds shall be earmarked	Yearly budgets are raised and approved by
6.	towards environmental pollution	management for various functions including
	control measures and used judiciously	Environment Management. Apart from
	to implement the conditions stipulated	budgets, environmental performance
	by the Ministry of Environment and	improvement related capital projects are
	Forests as well as the State	approved every year. Details are in annexure -
	Government. The funds so provided	10.
	shall not be diverted for any other	Full compliance.
	purpose	



7.

8

them regularly.

The Regional Office of this Ministry at We are regularly submitting half yearly Bhuvaneshwar / CPCB / SPCB shall Compliance reports. An earlier half-yearly monitor the stipulated conditions. A six Compliance report has been submitted monthly compliance report and the through letter No IIPL/HAL/ENV/23-24/MOEFmonitored data along with statistical ERO -02 dated 08.05.23 (Hard copy and soft interpretation shall be submitted to Copy) to MOEF&CC Integrated regional office and zonal office of CPCB and SPCB.

Full compliance.

public that the project has been publishing Committee and may also be seen at Website of the Ministry of Environment Full compliance. and Forests at http://envfor. nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneshwar

The Project Proponent shall inform the A public notice has been given to all through the news accord accorded environmental clearance Environmental clearances. Advertisement was by the Ministry and copies of the published in local newspaper Bartaman clearance letter are available with the (Bengali) and Statesman (English), which was W. B. Pollution Control Board / sent to MOEF&CC, Bhubaneshwar office.



<u>Annexure - 1</u> Stack monitoring results

		DAP -1			DAP -2	
Month	PM (mg/NM3)	Fluoride as HF(mg/NM3)*	NH3 (mg/NM3)	PM (mg/NM3)	Fluoride as HF(mg/NM3)*	NH3 (mg/NM3)
Limit as per CTO (Jan2019-Dec 2023)	150	10	300	150	10	300
April	24	0.181	86.8	17	0.438	78.9
May	96.8	1.12	281.2	86.5	1.09	234
June	61	0.89	163	74	0.98	137
July	N/A	N/A	N/A	N/A	N/A	N/A
August	33	0.47	60.4	74	0.58	68.7
September	45	1.04	76.9	36	0.43	63.2

	SSP (Mo	ain scrubber)	SSP (Ball Mill)		
Month	PM (mg/NM3)	Fluoride as HF (mg/NM3)*	PM (mg/NM3)		
Limit as per CTO (Jan2019-Dec 2023)	125	20	125		
April	79	0.7	42		
May	21.8	2.62	52		
June	44	1.08	56		
July	29.5	2.30	52		
August	37	0.45	NA		
September	41	1.30	NA		

	SAP	- 1	SAP – 2				
Month	SO2 (mg/NM3)	Acid Mist (mg/NM3)	\$O2 (mg/NM3)	Acid Mist (mg/NM3)			
Limit as per CTO (Jan2019-Dec 2023	1 1750		1250	70			
April	88	32	79.7	16.3			
May	184.7	32.6	117	37			
June	108	38	75	12.8			
July	221.2	35	105	42			
August	74.3	14.2	71	13.6			
September	NA	NA	91	27.9			

Note:- *This is also measured in online analyzer installed in stack and connected to CPCB server NA indicates plant was not available for stack monitoring for shutdown or any other reason.



Annexure-2

Ambient air monitoring results :-

SI no	Location	Parameters
01	Priyangbada	
02	Durgachak	PM10, PM2.5, SO2, NO2,NH3,SO3+Acid mist, F,
03	Sanjana (Ammonia terminal facility)	CO,Pb,Ni,As,Benzopyrene,Benzene,O3 (24 hour)
04	Near Main Gate Inside Plant	

Parameters	Limit as per CPCB notificati on, 18th Nov,2009	Locat	tion 1 (Priyam	bada)	Loca	tion 2 (Durgac	:hak)	Location 3 (ATO-1)				Location 4 (Near Main Gate Inside Plant)			
Mon	th	Septe	mber	Aug	gust	Septe	mber	Aug	gust	Septe	mber	Aug	ust	Septe	mber	Aug	ust
PM10 (μg/m3)	100	31.1	36.8	48.4	56.7	42.1	39.6	41.1	40.7	34.4	48.2	62	68.7	44	45.3	66.6	48.5
PM2.5 (μg/m3)	60	22.5	24.2	28.7	34.6	28.3	25.8	25.4	29.6	23.3	29.6	35.8	38.8	28.7	28.3	37.9	30.4
SO2 (μg/m3)	80	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.1	<4.0	<4.0	<4.0	4.6	4.2
NO2 (μg/m3)	80	17.5	17	19.3	19.9	18.4	18.8	21.0	20	17.5	21.2	23.5	22.6	21.8	21	22.6	19.9
NH3 (μg/m3)	400	12.1	13.1	13.1	11.3	14.3	14.2	16.1	14.1	12.5	10	10.8	9.4	11.8	9.8	10.5	9
SO3+Acid Mist (µg/m3)	_	15.4	15.4	11.4	15.6	18.3	18.3	14.6	16.1	39.6	39.6	36.3	35.4	27	27	23.8	21.4
F(μg/m3)	_	10.1	10.1	8.2	9.4	8.6	8.6	7	8.8	14.8	14.8	12.7	10.9	12.4	12.4	10.8	7.6
CO (mg/m3)	2	0.77	0.74	0.75	0.76	0.78	0.83	0.78	0.94	0.89	0.92	0.96	0.93	0.90	0.84	0.94	0.97
Pb (μg/m3)	1	0.08 5	0.10 5	0.04 4	0.04 1	0.11	0.09 1	0.03	0.04 9	0.05 4	0.08 1	0.06 7	0.04	0.05 3	0.09 0	0.054	0.03 4
Ni (ng/m3)	20	5.20	5.90	8.10	<5	<5.0	5.80	7.30	<5.0	<5.0	6.10	6.20	<5.0	6	3	6.10	<5.0
As(ng/m3)	6	<0.2 5	<0.2 5	0.38	0.36	<0.2 5	<0.2 5	0.37	<0.2 5	0.47	0.24	<0.25	<0.2 5	0.35	0.25	<0.25	0.36
Benzo pyrene (ng/m3)	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene (μg/m3)	5	<1.0	<1.0	<1.0	1.41	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.34	<1.0	<1.0	<1.0	1.35
O3 (μg/m3)	100	14.1	13.5	15.4	13.8	13.3	14.9	16.1	16.3	14.5	13.9	14.7	15.5	13.2	15.6	16.5	14.3



Parameter s	Limit as per CPCB notificati on, 18th Nov,200 9	i Location 1 (Privambada)			Location 2 (Durgachak) Loca			Location 3 (ATO-1)		-1)		tion 4 (
Mor	nth	Ju	ıly	Ju	ne	Ju	ly	Ju	ne	Ju	ıly	Ju	ne	Ju	ıly	Ju	ne
PM10 (μg/m3)	100	47.6	62.7	57	69.6	53.4	68.9	67.9	61.3	44.1	82.4	87.7	83.7	89.1	77.8	68.2	69.2
PM2.5 (μg/m3)	60	32.5	39.6	35.8	47.1	35.8	42.9	40.8	42.1	28.3	50.4	51.7	46.7	50.8	46.3	47.1	43.3
SO2 (μg/m3)	80	<4.0	<4.0	4.5	4.4	<4.0	<4.0	5.4	4.9	<4.0	<4.0	4	5.5	4.4	4.2	5.1	4.6
NO2 (μg/m3)	80	18.7	20.8	22.5	20.1	20.7	21.1	25	22.5	19.5	23.8	24	24	22.2	22.2	24.7	21
NH3 (μg/m3)	400	14.2	14.8	14.8	12.1	16.6	13.4	15.8	11.4	14.3	12	13.4	10.3	13.9	14.4	13.9	9.2
SO3+Acid Mist (µg/m3)	_	12.5	10.4	10	11.3	18.8	13.9	13.3	18.1	37.6	20.8	23.3	22.7	25	17.4	20	15.9
F(µg/m3)	_	6.3	12.5	8.3	13.9	10.4	8.3	12.5	19.4	14.6	25	25	25	12.5	16.7	16.7	15.3
CO (mg/m3)	2	0.56	0.81	0.77	0.93	0.94	0.97	0.86	0.85	1.05	1.09	0.91	0.92	1.16	1.01	0.96	0.92
Pb (μg/m3)	1	0.02 1	0.05 4	0.06 9	0.07 1	0.04 0	0.06 0	0.07 5	0.07 1	0.04 5	0.07 4	0.07 6	0.06 1	0.03 5	0.06 3	0.04 7	0.04 5
Ni (ng/m3)	20	<5.0	7.80	<5.0	<5.0	<5.0	10.2 0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.70	8.70	<5.0	<5.0
As(ng/m3)	6	<0.2 5	<0.25	<0.2 5	<0.25	<0.2 5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.2 5	<0.25	<0.25	0.25
Benzo pyrene (ng/m3)	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene (μg/m3)	5	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1.0	<1.0	<1.0
O3 (μg/m3)	100	18.5	18.4	19.2	17.9	18.2	17.4	18.3	17.6	18.5	17.7	18	18.2	15.9	16.1	17.5	17.5



Parameters	Limit as per CPCB notificati on, 18th Nov,2009	per CPCB notificati Locat on, 18th (Priyam			Location 1 (Priyambada)			Location 2 (Durgachak) Location 3 (ATO-1)			Location 3 (ATO-1)				ion 4 (I		ain
Mon	ith	M	ay	Ap	ril	М	ay	Ap	ril	М	ay	Ap	oril	М	ay	Ap	ril
PM10 (μg/m3)	100	56.9	67.7	61.1	56.4	58.5	53.7	59.1	63.2	61.3	69.3	75.9	61.1	85.4	73	88.1	75.1
PM2.5 (μg/m3)	60	31.7	41.7	36.7	33.3	35.4	36.3	38.7	38.3	32.5	42.5	46.7	36.2	52.1	45	48.7	47.5
SO2 (μg/m3)	80	4.5	5.0	4.5	4.1	5	5.2	5.3	5	4.9	5.2	4.7	4.3	5.1	5.1	5.1	5.3
NO2 (μg/m3)	80	23.6	21.8	21.8	20.8	23.2	20.7	23.2	23.3	25.3	23.2	23.2	23.6	24.2	24.4	27.4	26.5
NH3 (μg/m3)	400	11.6	12.7	12.3	12.9	13.2	14.2	14	13.6	13.5	11.6	12.4	12.7	12.2	11.2	11.8	11.9
SO3+Acid Mist (μg/m3)	-	6.8	13.6	10.2	10.2	10.2	20.4	15.3	17	27.2	30.6	27.2	23.8	20.4	23.8	18.7	20.4
F(μg/m3)	_	12.5	12.5	14.6	10.4	16.7	16.7	18.8	14.6	31.3	29.2	27.1	22.9	25	18.8	25	18.8
CO (mg/m3)	2	0.87	0.77	0.87	0.83	0.82	0.81	0.80	0.82	0.90	0.84	0.99	0.91	1.01	0.98	1.00	0.96
Pb (μg/m3)	1	0.09	0.05	0.03 7	0.04	0.06	0.04	0.03 7	0.06	0.07 8	0.05 3	0.05 8	0.05 7	0.08 5	0.07 3	0.06	0.04 9
Ni (ng/m3)	20	7.40	9.40	7.40	<5.0	6.40	8.40	5.30	7.60	8.70	6.60	<5.0	6.60	8.60	5.70	<5.0	7.20
As(ng/m3)	6	<0.25	<0.25	<0.25	<0.25	0.51	<0.25	<0.25	0.25	0.50	<0.25	0.89	<0.25	0.38	<0.25	0.89	<0.25
Benzo pyrene (ng/m3)	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene (μg/m3)	5	1.34	<1.0	<1.0	0.48	1.01	<1.0	<1.0	0.70	1.29	1.15	1.18	0.24	1.50	<1.0	1.34	1.13
O3 (μg/m3)	100	16.3	15.2	17.2	16.6	17.3	18.6	16.8	18	17.6	18.5	16.9	17.5	15.9	15.9	16.9	16.9

Note- The ambient air monitoring station (Location 1 & 2) are outside of the factory and surrounded by other industries and high traffic roads.



Annexure-3

Ambient Noise Monitoring results

Location	Back Side Of DG room	Near Parking Gate	Near Main Gate	Near DAP Gate				
	Monitoring Date (23.05.2023- 27.05.2023)							
Results in Leq dB(A) Day Time	59.6	55.1	56	62.3				
Results in Leq dB(A) Night Time	53.7	49.9	53	53.8				
Location	Back Side Of DG room	Near Parking Gate	Near Main Gate	Near DAP Gate				
	Monitoring D (31.07.2023-04.0							
Results in Leq dB(A) Day Time	53.1	55.4	56.5	62.1				
Results in Leq dB(A) Night Time	50.8	50.9	51.8	53				

Annexure - 4

ETP discharge results:-

				ETP W	ater Outle	t Form Find	al Outlet I	Drain		
Month	pH (mg/l)	BOD (mg/ I)	COD (mg/l)	(TSS) (mg/l)	Fluoride (F) (mg/l)	Phosph ate (as P) (mg/l)	Oil & Greas e (mg/l)	Ammon iacal nitroge n as N (mg/l)	Kjeldahl Nitrogen as N (mg/l)	Free ammoni cal nitrogen as N (mg/l)
Limit as per CTO(Jan2019 -Dec 2023)	6.5- 8.5	30	250	100	10	5	10	50	75	4
April	7.83	8.7	32	10	0.68	0.29	<5.0	<0.1	<0.3	<0.1
May	7.14	<2.0	8.0	8.4	0.4	0.34	<5.0	<0.1	<0.3	<0.1
June	8.15	2.3	10	6.4	0.3	0.38	<5.0	<0.1	<0.3	<0.1
July	7.40	4.4	16	5.9	0.65	0.26	<5.0	3.1	4.4	2.4
August	7.53	3.2	12	12	0.89	1.8	<5.0	2.2	3.4	0.72
September	7.90	6.6	24	12	0.46	<0.05	<5.0	3.6	6.4	1.3

Effluent Recycling Plant:







Annexure-5

<u>Details information on compliance of CREP</u>

SI no	Conditions of CREP	Compliance status
1.	Efforts will be made for conservation of	We don't have an ammonia, urea
	water, particularly with a target to have	plant. So this point is not applicable to
	consumption less than 8.12 and 15 m3 tons	Us.
	of urea produced for plant based on gas,	
	naphtha and fuel oil, respectively. In case of	
	plants using Naphtha and Gas both as	
	feedstocks, water consumption target of	
	less than 10m3/tonne will be achieved.	
2.	Use of arsenic for CO2 absorption in	Chromate and arsenic based
	ammonia plants and chromate based	chemicals are not used in our industry.
	chemicals for cooling system, which is still	Zinc and phosphate based chemicals is
	continuing in some	used in cooling water treatment.
	Industries, will be phased out and replaced	
	with non- arsenic and non- chromate	
	systems.	
3.	Adequate treatment for removal of oil,	We don't use any chromate based
	chromium (till non- chromate based	cooling system in our industry. No
	cooling system is in place) and fluoride will	effluent is generated from SSP plant and
	be provided to meet the prescribed	DAP/NPK plant. Effluent is generated
	standards at the source (end respective	from RO plant reject, DM plant
	process unit) itself.	regeneration and cooling tower
		blowdown. Fluoride level in the effluent
		generated from SAP(Sulfuric acid plant)
		& DM /RO plant remains within the
		permissible limit.



4.	Proper and complete nitrification and de-	For industrial effluent treatment plant
	nitrification will be ensured wherever such	this is not applicable. For sewage
	process used for effluent treatment	treatment plant we are ensuring this.
5.	Ground water monitoring around the	We are conducting ground water
	storage facilities and beyond the factory	monitoring by third party Lab once in a
	premises will be carried out at regular	quarter. Reports are attached herewith
	intervals Particularly for pH.	in annexure -11 .
		Full compliance.
6.	No effluent arising from process plants and	No effluent is discharged into storm
	associated facilities will be discharged to	water drain. Effluent drain and storm
	the storm water drain. The quality of storm	water drains are separate. The quality
	water will be regularly monitored by all the	of storm water is regularly monitored.
	industries.	Full compliance.
7.	The industries, where waste water/ effluent	Wastewater / effluent is not being
	flows through the storm water drains even	discharged into storm water drain.
	during the dry season will install continuous	Storm water drains are separate from
	Systems for monitoring the storm water	effluent drain.
	quality for pH, ammonia and fluoride. If	Full compliance.
	required, storm water will be routed through	
	effluent treatment plant before discharging	
8.	The sulphuric acid plants having SCSA	We have two sulfuric acid plants and
	system will switch over to DCDA system by	both are DCDA process. Emission of SO2
	March 2004 to meet the emission standard	is maintained as per CTO and it is less
	for SO2 as 2kg/ton of H2SO4 produced	than 2kg/Ton of H2SO4.
		Full compliance.
9.	Sulphuric acid plants having DCDA system	In both the sulphuric acid plants
	will improve the Conversion and absorption	conversion is more than 99 %. In SAP1
	efficiencies of the system as well as	plant & SAP2 plant SO2 emission /MT of
	scrubbers to achieve SO2 emission of 2kg	sulphuric acid is much less than
	tonne of acid produced in case of plants	2Kg/Ton of acid produced.
	having capacity above 300 tpd and 2.5 kg	Full compliance.



	tonne in case of plants having capacity upto 300tpd	
10.	Stack height for sulphuric acid plants will be	Stack height for SAP1 & SAP2 plant is
10.	provided as per the guidelines.	40 meter which follows the Sulphuric
	provided as per me goldelines.	acid plant emission guidelines.
		,
		Full compliance.
	An action plan for providing proper dust	We have installed bag filter in rock
11.	control systems rock Phosphate grinding unit	grinding section in SSP plant and
	in phosphoric acid plants/ single	particulate emission from grinding unit
	superphosphate plants, so as to achieve	stack is well below the permissible limit
	particulate emission of 150 mg/Nm3 will be	as per CTO. Stack analysis data is
	submitted by September 2003 and	tabulated in annexure-1 . Online
	complied with by March 2004.	analysers for particulate matter also
		being installed in the SSP plant grinding
		unit stacks (ball mill) and connected to
		CPCB server.
		Full compliance.
	Particulate as well as gaseous fluoride will be	We are monitoring both gaseous and
12.	monitored and adequate control systems	particulate fluoride and fluorine
	will be installed by June 2004 to achieve the	scrubbers are installed in SSP and DAP
	norms on total fluoride emissions (25	plants to keep the emission within
	mg/Nm3).	prescribed limits.
		Full compliance.
13.	Continuous SO2 emission monitoring systems	We have online continuous SO2
	will be installed in sulphuric acid plants (emission monitoring system in both
	having capacity 200 tpd and above) by	sulfuric acid plants and connected to
	March	CPCB server. SO2 analyzer has remote
	2004.	calibration facility.
		Full compliance.
14.	Regular monitoring of ambient air quality	Ambient air monitoring of SO2, NOX,
	with regard to SO2 NOx, PM, SO3, fluoride	PM, SO3, Fluoride, Acid mist being



	and acid mist will be carried out	monitored twice in month outside
		factory premises and inside factory
		premises.
		Full compliance.
	Gypsum will be effectively managed by	We don't have any gypsum storage.
15.	providing proper lining, dykes with	This is not applicable for us.
	approach roads and monitoring of	
	groundwater quality around storage	
	facilities. Accumulated gypsum will be	
	properly capped.	
16.	An action plan for proper handling, storage	Spent V2O5 catalyst is being generated
	and disposal of spent catalyst having toxic	from Sulfuric acid plant during annual
	metals will be submitted by June 2003 and	shut down. Spent V2O5 catalyst is being
	Implemented by September 2003. The	disposed to West Bengal Waste
	industry will also explore recovery/buy-back	Management Pvt. Ltd
	of spent catalyst by September 2003.	(Ramky) as per Hazardous Waste
		Authorization & CTO.
		Full compliance.
17.	Carbon slurry, sulphurmuck and chalk will be	Sulphur sludge/ muck is disposed to
	properly managed and disposed of in	WBWML as per CTO & Hazardous waste
	properly designed landfill either within	authorization.
	premises or in common facility	Full compliance.



Annexure- 6

Emission load of DAP-1 plant after scrubber for Biomass/Coal based HAG

Month	RH	Production	Gas flow (Nm3/Hr)	Particulate matter (mg/Nm3)	Pollution load (SPM) (kg)	Specific Emission (kg SPM/MT of Production)
Apr-23	274.50	10819.93	167921	24	1106.26	0.102
May-23	665.75	26961.15	192700	96.8	12418.47	0.461
Jun-23	613.75	22842.80	181711	61	6803.03	0.298
Jul-23	613	22965.22	181379	96.6	10740.50	0.468
Aug-23	540	21382.98	174870	33	3116.18	0.146
Sep-23	625	24975.11	179149	45	5038.57	0.202
	555.33	129947.19	179621.67	59.40	39223.02	0.30
	Ave	rage specific emis	sion kg particulat	e matter/MT of p	roduction 0.30	

Note:-Apr'23-Sep'23 particulate matter (PM) values are sampled and analyzed by third party (NABL) accredited lab.

Annexure-7

Annexure-7 Eco sustainability measures (Oct'22 – Mar'23)

CSR Report (April'23 – September'23)

We believe in creating synergy between business and the society at large by working closely with the local communities for the purpose of improving the quality of life of the communities we serve through long term stakeholder value creation. We believe in positively impacting the environment and supporting the communities we operate in, focusing on sustainability of our programs and empowerment of our communities.

Livelihood

• Beautician & Tailoring training



Empowering women from underprivileged community and create opportunity for employment through tailoring and beautician training. 77 underprivileged women from marginalized communities of South Kolkata have completed beautician & tailoring training with the collaboration of Hope Kolkata Foundation. After completion of the training each trainee have receive the certificate and start-up kit.



> Different species of trees planted inside factory as a part of Eco Sustainability measures:





500 saplings were distributed to local residents in collaboration with 'Paschim Banga Bigyan Mancha', one of the largest people science organizations in West Bengal in the occasion of Environment Day.





300 nos. of Foxtail palm tree planted outside the factory boundary wall





500 trees planted inside plant in July'23



550 no of trees planted in factory and Township in June 23, during environment day celebration.

> Installation of Solar Power :

Solar panel of $500 \, \mathrm{kWp}$ installed to increase the use of renewable energy as a part of Eco Sustainability measures.







Annexure-8

Copy of Environmental Clearance

F. No. J-11011/136/2017-IA-II(I)

Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan Jal Wing, 3rd Floor, Jor Bag Road, New Delhi -110003

Dated: 6th January, 2021

To,

M/s Indorama India Private Limited, P.S. Srijan Tech Park, Dn-52, Unit No. A & B, 14th Floor, Sector-V, Salt Lake, Kolkata

Sub: Replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised Bed Biomass Gassifier in the DAP-1 Plant of Tata Chemicals Ltd. at Haldia, West Bengal by M/s Tata Chemicals Ltd. - Transfer of Environment Clearance regarding.

Sir,

This has reference to your online proposal No. IA/WB/IND2/162727/2020 dated 06th November, 2020 regarding transfer of environmental clearance to the above project, from M/s Tata Chemicals Limited to M/s Indorama India Private Limited.

- Ministry of Environment, Forests and Climate Change vide letter No. 3-11011/136/2007-IA II (I) dated 20th July, 2007 was granted environmental clearance to Tata Chemicals Limited for replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised Bed Biomass Gassifier in the DAP-1 Plant of Tata Chemicals Ltd., at Haldia, West Bengal.
- 3. Now, M/s Indorama India Private Limited has informed that the Name of the company has been changed from M/s Tata Chemicals Limited to IRC Agrochemicals Private Limited in June, 2018. Again the name of company has been changed from M/s IRC Agrochemicals Private Limited to M/s Indorama India Private Limited in 18th February, 2020 without change of ownership or management of company. In this regard, a copy of Certificate of Incorporation registered with the Registrar of Companies, Kolkata (West Bengal) with CIN:U74999WB2017FTC222920 is also submitted.
- 4. M/s Indorama India Private Limited has also submitted a copy of NOC given by Shri Rajiv Chandan, Company Secretary of M/s Tata Chemicals Limited to transfer the above EC in the name of new company and a copy of undertaking as an affidavit signed by Shri Chandra Shekhar Prasad, Factory Manager of M/s Indorama India Private Limited to abide by the terms and conditions prescribed in the environmental clearance dated 20th July, 2007.
- 5. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance to the project for replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised Bed Biomass Gassifler in the DAP-1 Plant of Tata Chemicals Ltd. at Haldia, West Bengal granted by this Ministry



vide letter of even No. dated 20th July, 2007 is hereby transferred **from** M/s Tata Chemicals Limited **to** Indorama India Private Limited, on the same terms and conditions under which prior environmental clearance was initially granted.

This issues with approval of the competent authority.

(Ashok Kr. Pateshwary)

Copy to:-

- The Addi. Principal Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar-751023
- The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan 10A, Block-LA, Sector-III Bidhannagar, Kolkata-700 106
- The Member Secretary, CPCB, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 32
- Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi.
- 5. Guard File/Monitoring File/ Parivesh Portal/Record File

(Ashok Kr. Pateshwary) Director



F. No. J-11011/136/2007- IA II (I) Government of India Ministry of Environment and Forests (I.A. Division)

Paryavaran Bhawan CGO Complex, Lodhi Road New Delhi – 110 003

> E-mail: pb.rastogi@nic.in Telefax: 011: 2436 7668 Dated 20th July, 2007

To.

M/s Tata Chemicals Ltd. P.O. Durgachak, Haldia, East Midnapore – 721 602 West Bengal

E-mail : ?? ; Fax No. : 03224-252220/252223

Sub: Replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised Bed Biomass Gassifier in the DAP-1 Plant of Tata Chemicals Ltd. at Haldia, West Bengal by M/s Tata Chemicals Ltd.

Sir.

Kindly refer your letter no. nil dated 29th December, 2006 alongwith duly filled Form I regarding above mentioned project.

- 2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for the replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant of Tata Chemicals Ltd. at Haldia, West Bengal. Total cost of the project is Rs. 1,73 Crores.
- 3.0 During the operating stage, hot air generated will be passed through a cyclone separator and existing scrubber for removal of dust particles. Scrubbed gases will be discharged through the stack of existing DAP plant. Hot air generated will be passed through cyclone separator and the scrubber for removal of dust particles before discharge. Emissions will be within the permissible limit. No extra water will be required for the proposed facility. Due to burning of biomass/coal, fly ash (108 TPM) will be generated which will be used as filter in DAP manufacturing process.
- 4.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions:

A. Specific Conditions:

i. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the W. B. State Pollution Control Board (WBPCB). All emissions including SPM, RPM, SO₂, and NO_x should be within permissible limits. At no time, particulate emissions from the unit shall exceed 100 mg/Nm³ and all the necessary air pollution control system shall be installed. Continuous on-line monitors for particulate emissions shall be installed in stacks. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.





- The company shall install adequate dust collection and extraction system at appropriate places to control fugitive dust emissions. Cyclone and scrubbers shall be provided to control gaseous emissions from the stacks and gaseous emissions shall be maintained within 100 mg/NM³.
- iii. Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- iv. No additional water shall be used. Recycle and reuse of water through re-circulation shall be ensured. Effort shall be made to adopt 'Zero' discharge.
- v. Solid / hazardous waste shall be properly disposed off and no solid waste shall be disposed off outside the premises. Fly ash generated due to burning of biomass/coal shall be used as filter in DAP manufacturing process.
- vi. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB for fertilizer plants shall be implemented.
- vii. Rainwater harvesting measures shall be adopted. The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- viii. Necessary other statutory clearances from other concerned Departments including 'No Objection Certificate' from the WBPCB shall be obtained.
- ix. Pollution load due to replacement of Furnace Oil based Hot Air Generator (HAG) by fluidised bed bio-mass gassifier in the DAP-1 Plant shall be assessed and a compliance report shall be submitted to the Ministry's Regional Office at the Bhuvaneshwar, Orissa, CPCB and WBPCB.
- The company shall undertake eco-development measures including community welfare measures in the project area.

B. General Conditions:

- The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.
- No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- iv. Proper house keeping and adequate occupational health programmes shall be taken up.
- v. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.

- vi. Adequate funds shall be earmarked towards environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- vii. The Regional Office of this Ministry at Bhuvaneshwar / CPCB / SPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- viii. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the W. B. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhuvaneshwar.
- 5.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhuvaneshwar.
- 6.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.
- 7.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.
- 8.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(Dr. P. B. Rastogi) Additional Director

Copy to :-

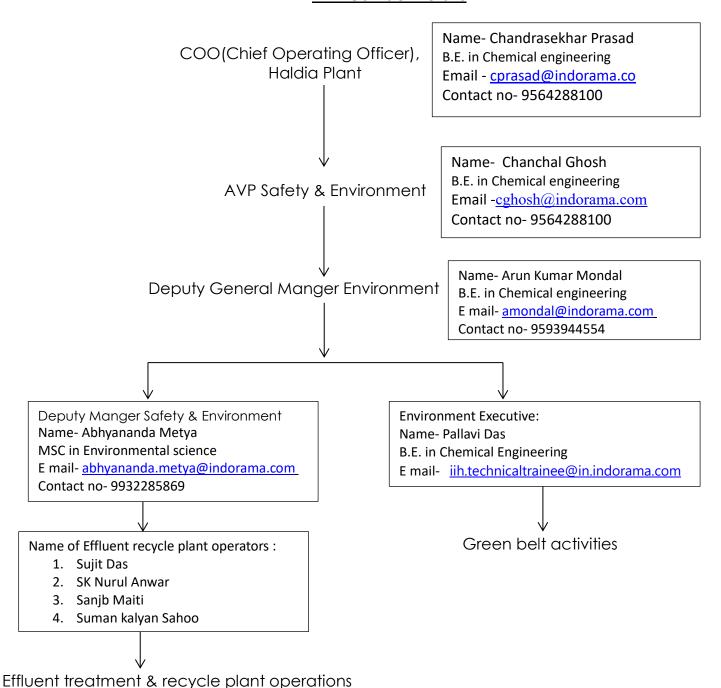
- The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA Sector-III, Salt Lake, Calcutta- 700091.
- The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3 Chandrashekharpur, Bhubaneshwar – 751 023
- 4. The Secretary, State Department of Environment, Govt. of West Bengal, Kolkata.
- JS(CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- 7. Guard File.
- 8. Monitoring File.
- 9. Record File.

(Dr. P. B. Rastogi) Additional Director



Annexure-9

Environment Management Cell structure with Contact Details



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Annexure-10

Cost for Environmental pollution control measures (Apr'23- Sep'23) are as follows:-

SI No	Item wise expenditure under Environmental Control Measures	Total Amount in Lakhs (Approx.)
01	Stack and Effluent, Ambient air analysis cost	17.6
02	Effluent treatment and effluent recycling plant operational cost	29
03.	Manpower charges for operation of Effluent treatment plant and effluent recycling plant	27.3
04	Land development, tree planation (cost of saplings/trees) & Manpower charges for green belt development	20
05	Hazardous and biomedical waste management, EPR services under plastic waste rule	25
06	Stack and effluent analyzers maintenance cost	9
07	Capex project for Environmental measure	12.3
_	Total Expenditure	140.20

Major Capex to improve Environmental performance in (April'23- Sept'23):-

- Installation of web camera at ETP discharge final outlet drain. Total Cost: 5 Lakhs
- Replacement of PM analyzer at DAP 1 plant. Total cost: 4.5 Lakhs
- Installation of Ammonia, HF analyzer web logger. Total cost: 2.8 Lakhs.

Total Cost: 12.30 Lakhs

ANNEXURE - 1

Monitoring Report



TEST REPORT

Name & Address of the Customer: 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1023 Date : 12.06.2023

Sample Description : Stack Monitoring

Sample Mark: SAP-2

Date & Time of Sampling :26.05.2023

at 10.20 AM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

Α.	General information about stack :		
1.	Stack connected to : SAP-2		
2.	Emission due to : Process To	ail Gas	
3.	Material of construction of Stack : MS		
4.	Shape of Stack : Circular		
5.	Whether stack is provided with permanent platform & ladder: \	Yes	
6.	capacity : Wi	orking Load - 10 TPF	1
В.	Physical characteristics of stack :		
1.	Height of the stack from ground level : 40 m		
2.	Diameter of the stack at sampling point : 1.2 m		
3,	Height of the Sampling Point from Ground level : 25.0 m		
4.	Area of Stack :		
C.	Analysis/Characteristic of stack:		
1.	Fuel used :	2. Fuel Consumpt	ion :
D.	Result of sampling & analysis of gaseous emission	Result	Method
1.	Temperature of emission (°C)	36	IS 11255 (Part III),2008RA 2018
2.	Barometric pressure (mm of Hg)	754	Lab Method
3.	Velocity of gas (m/sec.)	5.56	IS 11255 (Part III),2008RA 2018
4.	Quantity of Gas Flow (Nm³/hr)	21069.0	IS 11255 (Part III),2008RA 2018
5.	Concentration of Sulphur dioxide (mg/Nm³)	117.0	IS 11255 (Part II)-1985, RA:2014
6.	Acid Mist (mg/Nm³)	37.0	USEPA Part 8 - 29/10/1996
Ε.	Pollution control device Details of pollution control devices attached with the stace	: Continuous All	kaline Scrubber
F.	Remarks Nii	- I A CONTRACTOR AND A	NAMES OF THE PARTY

Report Prepared By

For Mitra S. K. Private Limited

A Second

The results relate only to the item(s) tested.

This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR 9. BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/335 Date: June 20, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : P.O.: Durgachak, Haldia, Dist: Purba Mednipour, Pin: 721602 Your Ref. P.O. No. : 4700017754, dtd. 27.10.2022 Equipment used: Sample Description : Stack Gas / Flue Gas ID No.: RVB/SMIC/05 (Cal. Validity: 16/07/23) Date & time of sampling : 17.06.2023 (11:00 A.M. to 11:42 A.M.) Parameters Tested Sampling Plan & Method : RVB/FM/44 & IS: 11255 (Part-1,2 & 3) Physical : Temp., Velocity, Gas flow, CO. Analysis Completed on : 20.06.2023 CO2, SO2, PM & Acid Mist General information about stack : L Stack connected to : SAP-2 2. Emission due to Process of Tail Gas Material of construction of stack : M.S. 3. Shape of stack : Circular. Whether stack is provided with permanent platform & ladder : Yes. 4 Physical characteristics of stack : 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.2 M 4. No. of Traverse point : 12 Nos. Analysis / Characteristic of stack Gas / Flue Gas : C. Fuel used : Tail gas 2. Fuel consumption : ---3.Load : --D. Environmental conditions: Barometric pressure: 750 mmHg 1. 2. Temperature: 35 °C Results of Physical & General Parameters of Flue Gas: E SI No Test Parameters Test Method Unit Results 1: Temperature of emission IS 11255 : Part 3 : 2008 38 2. Velocity of gas in duct IS 11255 : Part 3 : 2008 m/sec 5.34 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM'/hr 19910 4. Sulphur dioxide IS 11255 : Part 2: 1985 mg/Nm3 75 5 . Carbon monoxide IS 13270 (By Orsat): 1992 % v/v < 0.2 6. Carbon dioxide IS 13270 (By Orsat): 1992 % v/v 0.2 7. Particulate Matters IS 11255 : (Part 1): 1985 mg/Nm3 12 SOP No.: RVB/SOP/01/20 Issue No. 04, Issue 8. Acid Mist mg/Nm3 12:8 Date: 10.01.2018: 2018 F. Pollution control device Details of pollution control devices attached with the stack: Continuous Alkaline scrubber.

< END OF TEST REPORT :-

S. Mondal Report Verified by

S. Mondal

(Dr. R. KARIM)

Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

55



TEST REPORT

Name & Address of the Customer : 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin- 721602

Report No.: WB/ED -1363 Date : 31.07.2023

Sample Description : Stack Monitoring

Sample Mark: SAP-2

Date & Time of Sampling :25.07.2023

at 10.00 AM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

A	. General information about stack :					
1.		; SAP-2				
2	Emission due to					
3		: Process Tail Gas				
4		: MS				
5	and the control of	: Circular				
6.	Whether stack is provided with permanent platform capacity	n & ladder: Yes				
100	Gapacity		ond - 9 TPH			
В.	Transmit Characteristics of Stack :					
1.	and their ground level	: 40 m				
2.	Diameter of the stack at sampling point	:1.2 m				
3.	Height of the Country by the	25.0 m				
4.	Area of Stack	25.0 H				
C.	Analysis/Characteristic of stack:					
10	100000000000000000000000000000000000000	2. Fuel Const	imption :			
D.	Result of sampling & analysis of gaseous emission	Result	Method			
1.	Temperature of emission (°C)	35	The state of the s			
2.	Barometric pressure (mm of Hg)	754	IS 11255 (Part III), 2008RA 2013			
3.	Velocity of gas (m/sec.)	5,57	Lab Method			
4.	Quantity of Gas Flow (Nm3/hr)	21137,30	IS 11255 (Part III),2008RA 2018			
5.	Concentration of Sulphur dioxide (mg/Nm³)	117700	IS 11255 (Part III), 2008RA 2018			
3.	Acid Mist (mg/Nm³)	105	IS 11255 (Part II)-1985, RA:2014			
	Pollution control device	42	USEPA Part 8 - 29/10/1996			
	Details of pollution control devices attached with Remarks : Nil	the class	25 19 1000			
	Remarks Nil	the stack : Cont	linuous Alkaline Scrubber			

Report Prepared By Schatterfie

for Mitra S. K. Private Limited A.seal

Authorised Signatory

The results relate only to the item(s) texted

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ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP	-FG/23-24/679	Date: August 30, 2023		Page 1 of		
Issued to		: M/S. INDORAMA INDIA PRIVATE LIMITED				
Address		: P.O.: Durgachak, Haldia, Dist: Purba Mednipour, Pin: 721602				
Your Re	ef. P.O. No.	: 4700017754, dtd. 27.10.2022	Equi	pment used:		
Sample	Description	: Stack Gas / Flue Gas		6 (Cal. Validity: 01/08/24)		
	time of sampling	: 29.08.2023 (11:20 A.M. to 11:40 A.M.)	THE RESERVE TO SERVE	meters Tested		
	ng Plan & Method	: RVB/FM/45 & IS: 11255 (Part-1,2 & 3)		., Velocity, Gas flow, CO 2, PM & Acid Mist		
	s Completed on	: 30.08.2023		e, l'ill de vielle (vies)		
	General information abou					
	Stack connected to	: SAP-2				
	Emission due to	: Process of Tail Gas				
	Material of construction of	stack : M.S. : Circular.				
3,	Shape of stack	4.0000000000000000000000000000000000000				
		with permanent platform & ladder : Yes.				
В.	Physical characteristics	round level : 40.0 M				
1.	Height of the stack from gr Diameter of the stack at sa					
	No. of Traverse point	: 12 Nos.				
4. C.	Analysis / Characteristic	of stack Gas / Flue Gas :				
1.	Fuel used : Tail gas	2. Fuel consumption :	3.Lc	ad: 12 TPH		
D.	Environmental condition	The state of the s				
1.	Barometric pressure : 753		2. Temperature	36 °C		
E.	Desulte of Physical & Ge	neral Parameters of Flue Gas :				
SI No		Test Method	Unit	Results		
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	36		
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec	4.58		
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr	17256		
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm ³	71		
5.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	< 0.2		
6.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2		
7.	Particulate Matters	1S 11255 ; (Part 1) : 1985	mg/Nm3	13		
(F) (C)	(Astronous desirences)	SOP No.: RVB/SOP/01/20 Issue No. 04, Issue	mg/Nm ³	13.6		
8.	Acid Mist	Date: 10.01.2018; 2018	mg/mi	1000		

.: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM) Technical Manager

Authorised Signatory

For R. V. BRIGGS & CO. (P) LTD.

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Results relate only to the parameters tested.



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9. BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbrigas.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/792	Date: September 18, 20	23 Page 1 of	
Issued to	: M/S. INDORAMA INDIA PRIVATE		
Address : P.O.: Durgachak, Haldia, Dist: Purba Mednipour, Pin: 721602			
Your Ref. P.O. No. Sample Description	: 4700017754, dtd. 27.10.2022 : Stack Gas / Flue Gas	Equipment used: ID No.: RVB/SMK/06 (Cal. Validity: 81/08/24)	
Date & time of sampling Sampling Plan & Method Analysis Completed on	: 11.09.2023 (04:30 P.M. to 05:00 P.M.) : RVB/FM/45 & IS: 11255 (Part-1,2 & 3) : 18.09.2023	Parameters Tested Physical: Temp., Velocity, Gas flow, CO, CO2, SO2, PM & Acid Mist	

Stack connected to : SAP-2

2. Emission due to : Process of Tail Gas

Material of construction of stack : M.S.

3. Shape of stack : Circular.

Whether stack is provided with permanent platform & ladder: Yes.

B. Physical characteristics of stack :

Height of the stack from ground level : 40.0 M
 Diameter of the stack at sampling point : 1.2 M
 No. of Traverse point : 12 Nos.

C. Analysis / Characteristic of stack Gas / Flue Gas :

Fuel used: Tail gas
 Fuel consumption: — 3.Load: 12 TPH

D. Environmental conditions :

Barometric pressure : 752 mmHg
 Temperature : 32 °C

E. Results of Physical & General Parameters of Flue Gas :

SI No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	35
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec	4.41
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr	16634
4.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm3	91
5 .	Carbon monoxide	1S 13270 (By Orsat): 1992	% v/v	<0.2
6.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2
7.	Particulate Matters	IS 11255 : (Part 1) : 1985	mg/Nm3	8
8.	Acid Mist	SOP No.: RVB/SOP/01/20 Issue No. 04, Issue Date: 10.01.2018; 2018	mg/Nm ³	27,9

F. Pollution control device

Details of pollution control devices attached with the stack : Continuous Alkaline scrubber,

-: END OF TEST REPORT :-

Report Verified by

S. Mondal

(J. MUKHERJEE)

Quality Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

30

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Name & Address of the Customer : 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -239 Date : 28.04.2023

Sample Description: Stack Monitoring

Sample Mark: SAP-1

Date & Time of Sampling :06.04.2023

at 11.50 AM

Reference No.& Date: 4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

Α.	General information about stack :			4
1.	Stack connected to			
2.		: SAP-1		- TOTAL
3.	Material of construction of Stack	Process to	ail gas	V 4
4.	Shape of Stack	: MS		
5.		: Circular	100	- 6
6.	Whether stack is provided with permanent platfor capacity	rm & ladder:	Yes	
В.	1 apocity	-	Working Load-	18 TPH
-	Physical characteristics of stack:		W 1	
2,	Height of the stack from ground level	: 40.0 m		1
1000	Diameter of the stack at sampling point	: 0.95 m	6	
3.	Height of the Sampling Point from Ground level	:21.0 m	-	The second second
4.	Area of Stack	: 0.71 m ²	-	
C.	Analysis/Characteristic of stack: Fuel used	- 0,71 111	1	
D.	Result of sampling & analysis of gaseous		2. Fuel Consump	tion :
1.	Temperature of emission (°C)	emission	Result	Method
2.	Barometric pressure (mm of Hg)	7000	38	IS 11255 (Part III),2008RA 2018
3.	Velocity of gas (m/sec.)	0 0	756	Lab Method
4.	Quantity of Gas Flow (Nm3/hr)	A 10	1132	IS 11255 (Part III),2008RA 2018
5.	Concentration of Sulphur Dioxide (mg/Nm ³)	130	26762.04	IS 11255 (Part III),2008RA 2018
6.	Acid Mist (mg/Nm³)	- 10	88	IS 11255 (Part II)-1985, RA:2014
	Pollution control device		32	IS 11255 (Part 6) -1999; Rffm: 200;
F.	Details of pollution control devices attached wi Remarks : Nil	th the stack	: Continuous Alk	aline Scrubber

Report Proposed In (CA)

Nor Miles S. R. Private Limited

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1106 Date : 17.06.2023

Sample No.: MSKGL/ED/2023-24/06/00078 Sample Description: Stack Monitoring

Sample Mark: SAP-1

Date & Time of Sampling :31.05.2023

at 10.13 AM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

Stack connected to : SAP-1			
Emission due to :Process tai	il gas		
Material of construction of Stack : MS	1111		
Shape of Stack : Circular			
Whether stack is provided with permanent platform & ladder :	Ves		
		0 TPH	
Physical characteristics of stack :	The straig treats is		
Height of the stack from ground level : 40.0 m			
Diameter of the stack at sampling point : 0.95 m			
Height of the Sampling Point from Ground level ; 21.0 m			
The state of the s			
C. Analysis/Characteristic of stack: 1. Fuel used : 2. Fuel Consumption :			
Result of sampling & analysis of gaseous emission	Result	Method	
Temperature of emission (°C)	49	IS 11255 (Part III),2008RA 2018	
Barometric pressure (mm of Hg)	753	Lab Method	
Velocity of gas (m/sec.)	8.6	IS 11255 (Part III),2008RA 2018	
Quantity of Gas Flow (Nm ³ /hr)	19766	IS 11255 (Part III),2008RA 2018	
Concentration of Carbonmonoxide(% v/v)	<0,2	IS 13270 : 1992	
Concentration of Carbondioxide (% v/v)	1.4	IS 13270 : 1992	
Concentration of Sulphur Dioxide (mg/Nm³)	184.7	IS 11255 (Part II)-1985, RA:2014	
Concentration of Particulate Matters (mg/Nm³)	8.7	IS: 11255 (Part I): 1985	
Provide the company of the company o	1.75	IS: 11255 (Part 3): 2008	
And the state of t	32.6	IS 11255 (Part 6) -1999; Rffm: 2003	
	Correct III	men or min	
	: Continuous All	kaline Scrubber	
	Material of construction of Stack : MS Shape of Stack : Circular Whether stack is provided with permanent platform & ladder: capacity : Physical characteristics of stack: Height of the stack from ground level : 40.0 m Diameter of the stack at sampling point : 0.95 m Height of the Sampling Point from Ground level : 21.0 m Area of Stack : 0.71 m² Analysis/Characteristic of stack: Fuel used : Result of sampling & analysis of gaseous emission Temperature of emission (°C) Barometric pressure (mm of Hg) Velocity of gas (m/sec.) Quantity of Gas Flow (Nm³/hr) Concentration of Carbonmonoxide(% v/v) Concentration of Sulphur Dioxide (mg/Nm³) Concentration of Particulate Matters (mg/Nm³) Moisture content (%) Acid Mist as H ₂ SO ₄ (mg/Nm³) Pollution control device	Material of construction of Stack : MS Shape of Stack : Circular Whether stack is provided with permanent platform & ladder : Yes capacity :	

Report Prepared By

for Mitra S. K. Private Limited

Authorised Signatory

Asecul

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED - 1205 Date : 30.06.2023

Sample Description: Stack Monitoring

Sample Mark: SAP-1

Date & Time of Sampling :26.06.2023

at 10.10 AM

Reference No.& Date: 4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

A.	General information about stack :		
1.	Stack connected to : SAP-1		
2.	Emission due to Process ta	il gas	
3.	Material of construction of Stack : MS		
4.	Shape of Stack : Circular		
5.	Whether stack is provided with permanent platform & ladder:	Vac	
6.	capacity	Working Load- 1	4 TPM
B.	Physical characteristics of stack :	working Load- 1	4 1PH
1.	Height of the stack from ground level : 40.0 m		
2.	Diameter of the stack at sampling point : 0.95 m		
3.	Height of the Sampling Point from Ground level : 21.0 m		
4.	Area of Stack : 0.71 m ²		
C. 1.	Analysis/Characteristic of stack: Fuel used	2. Fuel Consump	tion .
D.	Result of sampling & analysis of gaseous emission	Result	The state of the s
1.	Temperature of emission (°C)	35	Method
2.	Barometric pressure (mm of Hg)	754	IS 11255 (Part III),2008RA 2018 Lab Method
3.	Velocity of gas (m/sec.)	9.62	IS 11255 (Part III),2008RA 2018
4.	Quantity of Gas Flow (Nm³/hr)	22910.38	IS 11255 (Part III),2008RA 2018
5.	Concentration of Sulphur Dioxide (mg/Nm³)	108.0	
6.	Acid Mist (mg/Nm³)	38.0	IS 11255 (Part II)-1985, RA:2014
E.	Pollution control device		IS 11255 (Part 6) -1999; Rffm: 2003
1. F.	Details of pollution control devices attached with the stack Remarks : Nil	: Continuous Alk	caline Scrubber

Report Prepared By

for Mitra S. K. Private Limited

Authorised Signatory

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : CRTGL/ED/2023-24/08/00038

Date : 17.08.2023

Sample No.: MSKGL/ED/2023-24/08/00036 Sample Description: Stack Monitoring

Sample Mark : SAP-1

Date & Time of Sampling :28.07.2023

at 09.53 AM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

Α.	General information about stack :		
1.	Stack connected to : SAP-1		The state of the s
2.	Emission due to :Process tail	gas	
3.	Material of construction of Stack : MS		- 101
4	Shape of Stack : Circular	1	
5.	Whether stack is provided with permanent platform & ladder : Y	'gs	
6.	capacity	Working Load-19	TPH
В.	Physical characteristics of stack :		
1.	Height of the stack from ground level : 40.0 m		
2.	Diameter of the stack at sampling point : 0.95 m		
3.	Height of the Sampling Point from Ground level +21.0 m	1	
4	Area of Stack : 0.71 m ³	La Carta	
C.	Analysis/Characteristic of stack:	2. Fuel Consump	tion :
D.	Result of sampling & analysis of gaseous emission	Result	Method
	Temperature of emission (°C)	48	IS 11255 (Part III),2008RA 2018
1.	Barometric pressure (mm of Hg)	754	Lab Method
3.	Velocity of gas (m/sec.)	9.0	IS 11255 (Part III),2008RA 2018
4.	Quantity of Gas Flow (Nm³/hr)	19365	IS 11255 (Part III),2008RA 2018
5.	Concentration of Carbonmonoxide(% v/v)	< 0.2	IS 13270 : 1992
6.	Concentration of Carbondioxide (% v/v)	1.0	[S 13270 : 1992
7.	Concentration of Sulphur Dioxide (mg/Nm³)	221.2	1S 11255 (Part II)-1985, RA:2014
8.	Concentration of Particulate Matters (mg/Nm³)	6.8	IS: 11255 (Part I): 1985
9.	Mosture content (%)	2.5	IS: 11255 (Part 3): 2008
10.	Acid Mist as H ₂ SO ₄ (mg/Nm ³)	35.0	IS 11255 (Part 6) -1999; Rffm: 200
E.		k : Continuous A	Ikaline Scrubber
F.	Remarks : Nil		

Report Proposed By

for Minru S. R. Private Limited

Cad

Authorised Signatury

The results relate only to the item(s) tested,

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP	-FG/23-24/678	Date: August 30, 2023		Page 1 of		
ssued	to	: M/S. INDORAMA INDIA PRIVATE LIMITED				
Addres	S	: P.O.: Durgachak, Haldia, Dist: Purba Mednipo	our, Pin: 721602			
Your R	ef. P.O. No.	: 4700017754, dtd. 27.10.2022		pment used:		
Sample	Description	: Stack Gas / Flue Gas		6 (Cal. Validity: 01/08/24)		
	time of sampling	; 29.08.2023 (12:30 P.M. to 12:50 P.M.)	PERSONAL PROPERTY.	meters Tested		
	ng Plan & Method	; RVB/FM/45 & IS: 11255 (Part-1,2 & 3)		, Velocity, Gas flow, CO,		
	s Completed on	: 30.08.2023	CO2, SO2, PM & Acid Mist			
	General information about	The second secon				
1.7.7.	Stack connected to	; SAP-1				
	Emission due to	; Process of Tail Gas				
	Material of construction of					
Shape of stack		: Circular.				
		with permanent platform & ladder : Yes.				
	Physical characteristics of					
	Height of the stack from gr					
	Diameter of the stack at sar					
	No. of Traverse point	: 12 Nos.				
C.	Analysis / Characteristic	The state of the s				
1.	Fuel used : Tail gas	2. Fuel consumption :	3.Lo	ad: 18 TPH		
D.	Environmental conditions	The state of the s				
1.	Barometric pressure: 753		2. Temperature:	36 °C		
E.	Results of Physical & Ge	neral Parameters of Flue Gas :				
SI No	Test Parameters	Test Method	Unit	Results		
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	38		
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec	11.43		
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM³/hr	26812		
14.	Sulphur dioxide	IS 11255 : Part 2 : 1985	mg/Nm ³	74.3		
5.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	< 0.2		
6.	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2		
7.	Particulate Matters	IS 11255 : (Part 1) : 1985	mg/Nm3	10		
8.	Acid Mist	SOP No.: RVB/SOP/01/20 Issue No. 04, Issue Date: 10.01.2018: 2018	mg/Nm³	14.2		

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS (AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/067	Date: April	26, 2023		Page 1 of 1			
ssued to	: M/S. INDORAMA INDIA PE	RIVATE LIMITED					
Address	: P.O.: Durgachak, Haldla, Dist: Pu	: P.O.: Durgachak, Haldia, Dist: Purba Mednipour, Pin: 721602					
our Ref. P.O. No.	1 4700017754, dtd. 27.10.2022	E	Equipment used:				
lample Description	: Stack Gas / Flue Gas	ID No.s RAVB/SM		the state of the s			
Date & time of sampling	: 25.04.2023 (02:47 P.M. to 03:39	5 (0.1.0.9)	rameters Te	The second secon			
Sampling Plan & Method	: RVB/FM/44 & IS: 11255 (Part-1		elocity, Gas Sow,	CO, CO2, F			
Analysia Completed on	: 26.04.2023	Chemical: PM					
A. General information							
 Stack connected to 	: SSP Scrubber						
Emission due to	: Process Activity						
 Material of constructi 							
 Shape of stack 	: Circular.						
	ided with permanent platform & ladder:	Yes.					
 B. Physical characteris 							
1. Height of the stack fr							
2. Diameter of the stack							
4. No. of Traverse point				T.			
Height of the sampling	g point from GL : 25.0 M						
	istic of stack Gas / Flue Gas :						
1. Fuel used : Electric		option: 25 TPH 3	Load:				
 Environmental cond 	Itions:						
 Barometric pressure 		2. Temperatu	ire: 33 °C				
E. Results of Physical	& General Parameters of Flue Gas :						
Sl No Test Parameters	Test Method	i Unit	R	esults			
1. Temperature of emis	sion IS 11255 : Part 3 : 200			70			
2. Velocity of gas in de	ct IS 11255 : Part 3 : 200			3.22			
3. Quantity of gas flow	IS 11255 : Part 3 : 208	534 D3579725		5272			
4 . Carbon monoxide	IS 13270 (By Orsat) : 19	92 % v/v		<0.2			
5. Carbon dioxide	1\$ 13270 (By Desert): 10	02 % v/v		0.2			
6. Gasous Fluoride	IS 11255 (Part 5): 199	0 mg/Nm ³		0.7			
F. Results of gaseous	emission:		500 10	Mary Mary			
Si No Test Parameters	According to the Control of the Cont	d Unit	Results	Norms as pe CPCB			
1. Particulate Matters	IS 11255 : Part 1 : 198	5 mg/Nm ³	79	150 max.			
G. Pollution control d	rvice						
Danile of activities	control devices attached with the stock : 4	Grane Water Scrubber	110				

S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

* Results relate only to the parameters tested.

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1105 Date : 17.06.2023

Sample No.: MSKGL/ED/2023-24/06/00077

Sample Description: Stack Monitoring Sample Mark: SSP Fluoride Scrubber Date & Time of Sampling: 30.05.2023

at 02.58 PM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

Α.	General information about stack :			
1.	Stack connected to	Pen m		
2.	Emission due to	The second secon	ride Scrubber	
3	Material of construction of Stack		ide Scrubber	
4	Shape of Stack	: MS		
5		: Circular		
6.	Whether stack is provided with permanent platfor capacity	m & ladder : Y	'es	
B.	capacity	- Comme	The same of the sa	pad- 20 TPH
	Physical characteristics of stack :		-	20 1111
2.	Height of the stack from ground level	: 40 m		
	Diameter of the stack at sampling point	: 1.5 m		
3.	Height of the Sampling Point from Ground level	: 25.0 m		
4.	A run of Canal-	: 1.766 m ²		
C.	Analysis/Characteristic of stack:	- 11700 111	_	
1.	Fuel used		2 Evel Com	Kinggara
0.	Result of sampling & analysis of gaseous e	emission	2. Fuel Consumpt	300 :
1.	Temperature of emmission (° C)	A CONTRACTOR	Result	Method
2.	Barometric pressure (mm of Hg)		63	IS 11255 (Part III),2008RA 2018
3,	Velocity of gas (m/s)		755	IS 11255 (Part III),2008RA 2018
4.	Quantity of gas flow (Nm3/hr)		2.99	IS 11255 (Part III),2008RA 2018
5.	Concentration of Carbonmonoxide (% v/v)		14061	IS 11255 (Part III),2008RA 2018
5.	Concentration of Oxygen (% v/v)		<0.2	IS 13270:1992, Rffm 2009
	Concentration of Carbondioxide (% v/v)		18.6	IS:13270:1992 Reaff,2014
3.	Concentration of Particulate Matters (mg/Nm3)		1.0	IS:13270 :1992 Reaff,2014
).	Moisture content (%)		21.8	IS 11255 (Part I):1985.RA 2014
0.	Concentration of Gaseous Fluoride (mg/Nm3)		16.0	IS 11255 (Part III),2008RA 2018
	Pollution control device		2.62	USEPA-13B - 20/08/1996
	Details of pollution control devices attached with		TOTAL STATE	
	Details of pollution control devices attached wit Remarks : Nil	in the stack	4 Stage Fluorid	e Scrubber

Report Prepared By

for Mitra STRi Private Limited

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TAHER MANSION, 1ST FLOOR

9. BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail : rvbriggs.kolkata@gmail.com, Websile : www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

Date: June 20, 2023 No. AP-FG/23-24/336 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : P.O.: Durgachak, Haldia, Dist: Purba Mednipour, Pin: 721602 Your Ref. P.O. No. : 4700017754, dtd. 27.10.2022 Equipment used: ID No.: RVB/SMK/05 (Cal. Validity: 16/07/23) Sample Description : Stack Gas / Flue Gas Date & time of sampling : 16.06.2023 (04:15 P.M. to 05:01 P.M.) Parameters Tested : RVB/FM/44 & IS: 11255 (Part-1,2 & 3) Sampling Plan & Method Physical: Temp., Velocity, Gus flow, CO, CO2, F Analysis Completed on Chemical: PM : 20.06.2023 General information about stack : : SSP Scrubber 1. Stack connected to Emission due to : Process Activity 2. Material of construction of stack 3. : M.S. : Circular. 4. Shape of stack Whether stack is provided with permanent platform & ladder : Yes. B. Physical characteristics of stack: Height of the stack from ground level : 40.0 M L Diameter of the stack at sampling point : 1.5 M 2 No. of Traverse point : 20 Nos. 4. Height of the sampling point from GL : 25.0 M 5. Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 3.Load: 30 TPH 2. Fuel consumption : ---D. Environmental conditions: 1. Barometric pressure: 752 mmHg 2. Temperature: 35 °C Results of Physical & General Parameters of Flue Gas : E. Results Test Method SI No Test Parameters Unit Temperature of emission IS 11255 : Part 3 : 2008 C 68 2. IS 11255 : Part 3 : 2008 3,44 Velocity of gas in duct m/sec IS 11255 : Part 3 : 2008 NM3/hr 16321 Quantity of gas flow 3. Carbon monoxide IS 13270 (By Orsat): 1992 % V/V < 0.2 4 . 0.2 IS 13270 (By Orsat): 1992 % v/v Carbon dioxide 5. 1.08 Gasous Fluoride IS 11255 (Part 5): 1990 mg/Nm3 Results of gaseous emission: Test Parameters Test Method Unit Results Norms as per SI No CPCB IS 11255 : Part 1 : 1985 44 150 max. Particulate Matters mg/Nm3 1 : G. Pollution control device

Report Verified by

-: END OF TEST REPORT :-

Details of pollution control devices attached with the stack : 4 Stage Water Scrubber.

(Dr. R. KARIM)

Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

S. Mondal

56



Name & Address of the Customer : 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : CRTGL/ED/2023-24/08/00035

Date : 17.08.2023

Sample No.: MSKGL/ED/2023-24/08/00035 Sample Description: Stack Monitoring Sample Mark: SSP Fluoride Scrubber Date & Time of Sampling: 28.07.2023 at D2.36 PM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

Α.	General information about stack :		A 3
1,	Stack connected to . : SSP F	luoride Scrubber	E 10
2.	The state of the s	uoride Scrubber	7 7 77
3.	Material of construction of Stack : MS	morrage (Actional)	-
4.	Shape of Stack : Circul-	ar.	
5.	Whether stack is provided with permanent platform & ladde		
6.	capacity	Working Lo	41 20 TBH
В.	Physical characteristics of stack :	working Lo	da-20 IPH
1_	Height of the stack from ground level : 40 m		ABEL
2.	Diameter of the stack at sampling point : 1.5 m		
3.	Height of the Sampling Point from Ground level : 25.0 m		78
4.	Area of Stack : 1.766 m		
C. 1.	Analysis/Characteristic of stack: Fuel used		
D.	Result of sampling & analysis of gaseous emission	2. Fuel Consumpt Result	11 (50)
1.	Temperature of emmission (⁶ C)	71	Method
2.	Barometric pressure (mm of Hg)	754	IS 11255 (Part III),2008RA 2018
3.	Velocity of gas (m/s)	3.1	IS 11255 (Part III),2008RA 2018
4.	Quantity of gas flow (Nm3/hr)	14383	IS 11255 (Part III),2008RA 2018 IS 11255 (Part III),2008RA 2018
5.	Concentration of Carbonmonoxide (% v/v)	<0.2	IS 13270:1992, Rffm 2009
5.	Concentration of Oxygen (% v/v)	18,4	IS:13270:1992 Reaff,2014
7.	Concentration of Carbondioxide (% v/v)	1.0	IS:13270 :1992 Reaff,2014
8.	Concentration of Particulate Matters (mg/Nm3)	29.5	IS 11255 (Part I) 1985,RA 2014
9.	Moisture content (%)	13.7	IS 11255 (Part III),2008RA 2018
0.	Concentration of Gaseous Fluoride (mg/Nm3)	2,30	USEPA-13B - 20/08/1996
1	Pollution control device Details of pollution control devices attached with the sta		
F.	Remarks NI	- 4 Stage Fillono	ie Strubber

Seport Prepared Br

for Minu S. & Street Limited

Head Office: Shrachi Centre (5th floor), 74B, A.J.C. Bose Road, Kolkala - 700 016. West Bengal, India. Tel. : 91 33 40143000 / 22650006 / 22650007 Fax : 91 33 22650008 Email : infe@mitrask.com. Website: www.mitrask.com

Page 1 of 1

The results relate only to the new(x) tested.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

ssued to	Date: August 30, 20	23		Dans 4
Address	: M/S. INDORAMA INDIA PRIVATE	LIMITED		Page 1
Your Ref. P.O. No.	- Durgachak Haldia Diet Description	ioour Pin- 7	21500	
Sample Description		7 111. 7	21002	
Date & time of sampling	Stack Gas / Flue Gos	ID No. R	Equipme	nt used:
ampling Plan & Method	: 29.08.2023 (03:30 P.M. to 04:12 P.M.)	15,000.25	Planting (Ca	£ Validity: 01/08/24
analysis Completed on	18: 11255 (Part 1 2 8 2)	Physical / T	Paramete	rs Tested
A. General information about	: 30.08.2023	Chemical	DA.	s flow, CO, CO2, F
Stack connected to		T-session.	F-00	
2. Emission due to	: SSP Scrubber			
3. Material of construction of	Process Activity			
 Snape of stack 				
5. Whether stack is provided a	: Circular, vith permanent platform & ladder : Yes.			
B. Physical characteristics o	f etask : Yes.			
1. Height of the stack from ero	Jacob .			
Diameter of the stack at sam				
4. No. of Traverse point				
 Height of the sampling poles 	: 20 Nos,			
C. Analysis / Characteristic of	from GL : 25.0 M			
Environmental conditions :	2. Fuel consumption :		3.Load: 30	Time
. Barometric pressure : 752 mi	W.L.		5.120au - 30	TPH
Results of Physical & Gone	ang	2. Temper	iture:35°C	
No Test Parameters	ral Parameters of Flue Gas :	a. semper	uure : 35 °C	
. Temperature of emission	Test Method	Unit		
Velocity of gas in duct	IS 11255 : Part 3 : 2008	°C		Results
Quantity of gas flow	IS 11255 : Part 3 : 2008	m/sec		70
Carbon monoxide	IS 11255: Part 3: 2008	NM ³ /hr	W	3.92
Carbon dioxide	IS 13270 (By Orsat); 1992	% v/v	1	18918
Gasous Fluoride	IS 13270 (By Orsat): 1992	% v/v	[]	< 0.2
Results of gaseous omission	167 1 10 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100000000000000000000000000000000000000		0.2
Results of gaseous emission o Test Parameters	1;	mg/Nm ³		0.45
- Test Parameters	Test Method	**		
		Unit	Results	Norms as per
Particulate Matters	IS 11255 Part 1 : 1985			CPCB
Pollution control device		mg/Nm ²	3.7	150 max.
The state of the s	ices attached with the stack : 4 Stage Water Sc			4 - O HRAN
Details of pollution control dev	inex arrached			

S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory For R. V. BRIGGS & CO. (P) LTD.



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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

1. Barometric pressure : 753 mmHg 2. Temperature : 33	_	AP-FG/23-24/876	Date: September 29, 2023 Page 1 of					
P.O.: Durgachak, Haldia, Dist. Purba Mednipour, Pin: 721602	Address Your Ref. P.O. No.		: M/S. INDORAMA INDIA PRIVATE LIMITED					
Sample Description : Stack Gas / Flue Gas Date & time of sampling : 25.09.2023 (03:50 P.M. to 04:39 P.M.) Sampling Plan & Method : RVB/FM/45 & IS: 11255 (Part-1,2 & 3) Analysis Completed on : 29.09.2023 A. General information about stack : 1. Stack connected to : SSP Scrubber : Process Activity 3. Material of construction of stack : M.S. 4. Shape of stack : Circular. 5. Whether stack is provided with permanent platform & ladder ; Yes. B. Physical characteristics of stack : 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : Invironmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : 81 No Test Parameters			P.O.: Durgachak, Haldia, Dist. Purha Madninour, Din. 721602					
Sample Description : Stack Gas / Flue Gas Date & time of sampling : 25.09.2023 (03:50 P.M. to 04:39 P.M.) Sampling Plan & Method : RVB/FM/45 & IS: 11255 (Part-1,2 & 3) Analysis Completed on : 29.09.2023 A General information about stack : 1. Stack connected to : SSP Scrubber 2. Ethission due to : Process Activity 3. Material of construction of stack : M.S. 4. Shape of stack : Circular. 5. Whether stack is provided with permanent platform & ladder : Yes. B. Physical characteristics of stack : 1. Height of the stack from ground level : 40.0 M Diameter of the stack at sampling point : 1.5 M No. of Traverse point : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity : 2. Fuel consumption : 3.Load Environmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : Si No Test Parameters			: 4700017754, dtd. 27.10.2022	10001, 1111, 121				
Sampling Plan & Method : RVB/FM/45 & IS: 11255 (Part-1, 2 & 3) Analysis Completed on : 29,09,2023 A. General information about stack : 1. Stack connected to : SSP Scrubber 2. Emission due to : Process Activity 3. Material of construction of stack : Circular. 4. Shape of stack : M.S. 4. Whether stack is provided with permanent platform & ladder ; Yes. B. Physical characteristics of stack : 1. Height of the stack from ground level : 40,0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25,0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3. Load Environmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : SINO Test Parameters Test Method Unit 1. Temperature of emission IS 11255 Part 3 : 2008 °C Velocity of gas in duct IS 11255 Part 3 : 2008 NM³/hr 3. Quantity of gas flow IS 13270 (By Orsat) : 1992 % v/v 4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13255 (Part 5) : 1990 mg/Nm³ F. Results of gaseous emission : I No Test Parameters Test Method Unit Results of gaseous emission :	Samp	le Description	: Stack Gas / Flue Gas	ID No. RVB	/SMK/05/Cd	Validate 17 of 2 of		
Analysis Completed on : 29.09.2023 A. General information about stack: 1. Stack connected to : SSP Scrubber 2. Emission due to : Process Activity 3. Material of construction of stack : M.S. 4. Shape of stack : Circular. 5. Whether stack is provided with permanent platform & ladder ; Yes. B. Physical characteristics of stack: 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3.Load Environmental conditions: 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : I. Temperature of emission	Date	& time of sampling	: 25.09.2023 (03:50 P.M. to 04:39 P.M.)		THE RESERVE AND ADDRESS OF THE PARTY OF THE			
A. General information about stack: Stack connected to : SSP Scrubber Emission due to : Process Activity Material of construction of stack : Circular. Whether stack is provided with permanent platform & ladder ; Yes. Physical characteristics of stack: Height of the stack from ground level : 40.0 M Diameter of the stack at sampling point : 1.5 M No. of Traverse point : 20 Nos. Height of the sampling point from GL : 25.0 M Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 2. Fuel consumption : Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : No Test Parameters Test Method Unit Temperature of emission IS 11255 : Part 3 : 2008 NM²/hr J. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v G. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v G. Gasous Fluoride Test Method Unit Results of Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm² F. Results of gaseous emission :	Samp	ling Plan & Method	: RVB/FM/45 & IS: 11255 (Part-1.2 & 3)	Physical Terr				
1. Stack connected to : SSP Scrubber 2. Emission due to : Process Activity 3. Material of construction of stack : M.S. 4. Shape of stack : Circular. 5. Whether stack is provided with permanent platform & ladder : Yes. B. Physical characteristics of stack: 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions: 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas: Si No Test Parameters Test Method Unit 1. Temperature of emission IS 11255 : Part 3 : 2008 °C m/sec 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM³/hr 4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm³ F. Results of gaseous emission : I No Test Parameters Test Method Unit Results of gaseous emission :		sis Completed on	: 29.09.2023	Chemical : P	M	NW. CO. CO., F		
2. Emission due to : Process Activity 3. Material of construction of stack : M.S. 4. Shape of stack : Circular. 5. Whether stack is provided with permanent platform & ladder ; Yes. 8. Physical characteristics of stack : 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3.Load Environmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : 3 No Test Parameters Test Method Unit Temperature of emission IS 11255 : Part 3 : 2008 °C 2. Velocity of gas in duct IS 11255 : Part 3 : 2008 °C 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM²/hr 4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm² F. Results of gaseous emission : Test Method Unit Results of Gaseous emission :	1000	General information abo	ut stack :	Tooling 1	199.			
Material of construction of stack : M.S. Shape of stack : Circular. Whether stack is provided with permanent platform & ladder ; Yes. Physical characteristics of stack: Height of the stack from ground level : 40.0 M. Diameter of the stack at sampling point : 1.5 M. No. of Traverse point : 20 Nos. Height of the sampling point from GL : 25.0 M. C. Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 2. Fuel consumption : 3.Load Environmental conditions: Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : No Test Parameters Test Method Unit Temperature of emission IS 11255 : Part 3 : 2008 "C Velocity of gas in duct IS 11255 : Part 3 : 2008 "C Quantity of gas flow IS 11255 : Part 3 : 2008 NMf //hr Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v Gasous Fluoride IS 13270 (By Orsat) : 1992 % v/v F. Results of gaseous emission : No Test Parameters Test Method Unit Results of gaseous emission :			: SSP Scrubber					
Shape of stack : M.S. Whether stack is provided with permanent platform & ladder ; Yes. Physical characteristics of stack : Height of the stack from ground level : 40.0 M Diameter of the stack at sampling point : 1.5 M No. of Traverse point : 20 Nos. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 2. Fuel consumption : 3.Load Environmental conditions : Barometric pressure : 753 mmHg 2. Temperature : 33 E. Results of Physical & General Parameters of Flue Gas : No Test Parameters Test Method Unit Temperature of emission IS 11255 Part 3 : 2008 °C velocity of gas in duct IS 11255 Part 3 : 2008 m/sec NM²/hr Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v Gasous Fluoride IS 13270 (By Orsat) : 1992 % v/v Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm² F. Results of gaseous emission :	2770		: Process Activity					
S. Whether stack is provided with permanent platform & ladder; Yes. B. Physical characteristics of stack: 1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas; 1. Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions: 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas: 1. Temperature of emission			f stack : M.S.					
1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions : 1. Barometric pressure : 753 mmHg 2. Temperature : 33 E. Results of Physical & General Parameters of Flue Gas : 1. Temperature of emission 15 11255 : Part 3 : 2008 °C 2. Velocity of gas in duct 15 11255 : Part 3 : 2008 °C 3. Quantity of gas flow 15 11255 : Part 3 : 2008 NM³/hr 4. Carbon monoxide 15 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide 15 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride 15 11255 (Part 5) : 1990 mg/Nm³ F. Results of gaseous emission : No Test Parameters Test Method Unit Resu			: Circular.					
1. Height of the stack from ground level : 40.0 M 2. Diameter of the stack at sampling point : 1.5 M 4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : 1. Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions : 1. Barometric pressure : 753 mmHg 2. Temperature : 33 E. Results of Physical & General Parameters of Flue Gas : 1 No Test Parameters Test Method Unit Temperature of emission IS 11255 : Part 3 : 2008 °C velocity of gas in duct IS 11255 : Part 3 : 2008 m/see Quantity of gas flow IS 11255 : Part 3 : 2008 NM³/hr (Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v (Gasous Fluoride IS 13270 (By Orsat) : 1992 % v/v (Gasous Fluoride IS 13255 (Part 5) : 1990 mg/Nm³ F. Results of gaseous emission :	_	Whether stack is provided	with permanent platform & ladder : Yes.					
Diameter of the stack at sampling point : 1.5 M No. of Traverse point : 20 Nos. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions : Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : No Test Parameters Test Method Unit Temperature of emission IS 11255 : Part 3 : 2008 °C Velocity of gas in duct IS 11255 : Part 3 : 2008 m/see Quantity of gas flow IS 11255 : Part 3 : 2008 NM²/hr Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v Gasous Fluoride IS 13270 (By Orsat) : 1992 % v/v F. Results of gaseous emission : No Test Parameters Test Method Unit Results of Gasous emission :		rilysical characteristics	of stack :					
4. No. of Traverse point : 20 Nos. 5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas ; Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : 1. Temperature of emission		Dismeter Select from g	######################################					
5. Height of the sampling point from GL : 25.0 M C. Analysis / Characteristic of stack Gas / Flue Gas : Fuel used : Electricity 2. Fuel consumption : 3.Load D. Environmental conditions : 1. Barometric pressure : 753 mmHg E. Results of Physical & General Parameters of Flue Gas : I No Test Parameters Test Method Unit 1. Temperature of emission IS 11255 : Part 3 : 2008 °C 2. Velocity of gas in duct IS 11255 : Part 3 : 2008 m/sec 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM³/hr 4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride IS 13270 (By Orsat) : 1990 mg/Nm³ F. Results of gaseous emission :		Diameter of the stack at sa	CONTRACTOR OF CO					
C. Analysis / Characteristic of stack Gas / Flue Gas: 1. Fuel used: Electricity 2. Fuel consumption: 1. Barometric pressure: 753 mmHg E. Results of Physical & General Parameters of Flue Gas: 1. Test Parameters 1. Test Method 1. Temperature of emission 2. Velocity of gas in duct 3. Load 1. Temperature of emission 3. Quantity of gas flow 4. Carbon monoxide 5. Carbon dioxide 6. Gasous Fluoride 7. Results of gaseous emission: 1. Test Parameters 1. Test Method 2. Temperature: 33 2. Temperature: 33 2. Temperature: 33 2. Temperature: 33 3. Load 4. Unit 4. Carbon dioxide 5. Carbon dioxide 6. Gasous Fluoride 7. Carbon dioxide 7. Carb	1000	No. of Traverse point						
D. Environmental conditions	_	Analysis / Characteristic	nt from GL : 25.0 M					
D. Environmental conditions: 1. Barometric pressure: 753 mmHg E. Results of Physical & General Parameters of Flue Gas: SI No Test Parameters 1. Temperature of emission 1. Temperature of emission 2. Velocity of gas in duct 3. Quantity of gas flow 4. Carbon monoxide 5. Carbon dioxide 6. Gasous Fluoride 7. Results of gaseous emission: 1. Test Method 1. Unit 1. Temperature of emission 1. S 11255: Part 3: 2008 2. Velocity of gas in duct 1. S 11255: Part 3: 2008 3. Quantity of gas flow 4. Carbon monoxide 1. S 13270 (By Orsat): 1992 3. NM³/hr 4. Carbon dioxide 1. S 13270 (By Orsat): 1992 3. Velocity of gaseous emission: 4. Carbon dioxide 1. S 13270 (By Orsat): 1992 3. Nm³/hr 4. Carbon dioxide 4. Carbon dioxide 5. Carbon dioxide 6. Gasous Fluoride 7. Results of gaseous emission: 1. No Test Parameters 1. Test Method 1. Unit Results of gaseous emission:		Fuel used - Electricity						
1. Barometric pressure : 753 mmHg 2. Temperature : 33 E. Results of Physical & General Parameters of Flue Gas : I No Test Parameters Test Method Unit 1. Temperature of emission IS 11255 : Part 3 : 2008 °C 2. Velocity of gas in duct IS 11255 : Part 3 : 2008 m/sec 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM³/hr 4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm³ 7. Results of gaseous emission : 1. Test Parameters Test Method Unit Results Test Parameters Test Method Unit Parameters	_	Environmental condition	2. Fuel consumption ;		3.Load: 30	TPH		
E. Results of Physical & General Parameters of Flue Gas : Si No Test Parameters Test Method Unit								
Test Parameters Test Method Unit	-	Barometric pressure : 753 i	mmHg	2. Temperat	ture : 33 °C			
Temperature of emission		Results of Physical & Ge	neral Parameters of Flue Gas :					
1. Temperature of emission 18 11255 Part 3 : 2008 °C Velocity of gas in duet 18 11255 Part 3 : 2008 m/sec 3. Quantity of gas flow 18 11255 Part 3 : 2008 NM³/hr 4. Carbon monoxide 18 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide 18 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride 18 11255 (Part 5) : 1990 mg/Nm³ 7. Results of gaseous emission : Test Method Unit Results 1. Test Parameters Test Method Unit Test Parameters Test Method Unit Test Parameters Test Method Unit Test Parameters	_	The state of the s	Test Method	Unit		Results		
3		1 emperature of emission				65		
4. Carbon monoxide IS 13270 (By Orsat) : 1992 % v/v 5. Carbon dioxide IS 13270 (By Orsat) : 1992 % v/v 6. Gasous Fluoride IS 11255 (Part 5) : 1990 mg/Nm ³ F. Results of gaseous emission : I No Test Parameters Test Method Unit Results of the carbon o		Oughtity of gas thous	IS 11255 : Part 3 : 2008			3.10		
5 . Carbon dioxide				NM ³ /hr		15613		
6. Gasous Fluoride IS 13270 (By Orsat): 1992 % v/v F. Results of gaseous emission : I No Test Parameters Test Method Unit Results R		The Control of the Co		% v/v		< 0.2		
F. Results of gaseous emission : I No Test Parameters Test Method Unit Resu	9	A STATE OF THE PARTY OF THE PAR		% v/v		< 0.2		
INo Test Parameters Test Method Unit Resu	_	Manager Company of the Company of th	IS 11255 (Part 5): 1990)	mg/Nm ³		1.308		
Test Method Unit Resu	of the same		ion ;			11200		
1 Buch to be			153-1550/2019 (2000)	Unit	Results	Norms as pe		
1 - Particulate Matters IS 11255 : Part 1 : 1985 mg/Nm³ 41 G - Pollution control device 41			IS 11255 : Part 1 : 1985	mg/Nm3	41	150 max.		

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.: END OF TEST REPORT :-

S. Mondal

(J. MUKHERJEE) Quality Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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Name & Address of the Customer : 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -240 Date : 28.04.2023

Sample Description : Stack Monitoring

Sample Mark: SSP-Ball Mill.

Date & Time of Sampling:05,04.2023

at 02.20 pm

Reference No.& Date: 4700017438 , Dtd: 13.09.2022

ANALYSIS RESULT

Α.	General information about stack :			4
1.	Stack connected to :	SSP - Bal	Mill	67
2.	Emission due to	Milling Op	eration	
3.	Material of construction of Stack :	: MS		
4	Shape of Stack :	: Circular		
5	Whether stack is provided with permanent platform &	ladder: Y	(es	
6.	and the second s		Working Load -	12 TPH
В.	Physical characteristics of stack :		W 400	6
1.	Height of the stack from ground level : 34	.5 m	1	100
2.	Diameter of the stack at sampling point : 0.7	7 m		Marie Control
3.	Height of the Sampling Point from Ground level : 31	.5 m		The state of the s
4.	Area of Stack 10.	39 m	100	- 1
C.	Analysis/Characteristic of stack:	- 19		10
1.	Fuel used :		2. Fuel Consumption	00 1
0.	Result of sampling & analysis of gaseous emi	ssion	Result	Method
1.	Temperature of emission (°C)	1	50	IS 11255 (Part III),2008RA 2013
2.	Barometric pressure (mm of Hg)	W	753	Lab Method
3.	Velocity of gas (m/sec.)	- 10	8,46	IS 11255 (Part III),2008RA 2018
4.	Quantity of Gas Flow (Nm³/hr)	1	10443.57	IS 11255 (Part III),2008RA 2018
5,	Concentration of Particulate Matter (mg/Nm3)	YEL.	42.0	USEPA-13B - 20/08/1996
1. F.	Pollution control device Details of pollution control devices attached with Remarks: Nil	the stack	: Cyclone Bag Filt	er

Report Proposed Str. (1965)

For Milita S. W. SYcustin Lariettest God Nulliuminest Signatury

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1022 Date : 12.06.2023

Sample Description: Stack Monitoring

Sample Mark: SSP-Ball Mill

Date & Time of Sampling :25.05.2023

at 02.20 pm

Reference No.& Date:4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

Α.	General information about stack :		
1.	Stack approved 4.6	Ball Mill	
2.	Printerion due to		
3,	Material of construction of Cr. 1	g Operation	
4.	Shape of Stook		
5.	Whether stack is provided with permanent platform & ladde	ar	
6.	Capacity		
В.	Physical characteristics of stack :	Working Load	- 15 TPH
1.	Delete out		
2.	Diameter of the state of the st		
3.	Height of the Court of the Court of		
4.	Appa of Stack		
C.	: 0.39 m		
1.	Analysis/Characteristic of stack: Fuel used	The state of the s	
D.	Result of sampling & analysis of gaseous emission	2. Fuel Consumpti	on ;
1.	Temperature of emission (°C)	Result	Method
2.	Barometric pressure (mm of Hg)	49	IS 11255 (Part III),2008RA 2018
3.	Velocity of gas (m/sec.)	755	Lab Method
4.	Quantity of Gas Flow (Nm³/hr)	8.39	IS 11255 (Part III),2008RA 2018
5.	Concentration of Particulate Matter (mg/Nm³)	10414.95	IS 11255 (Part III),2008RA 2018
Ε.	Pollution control device	52.0	USEPA-13B - 20/08/1996
1.	Details of pollution control devices attached with the sta	ak O	
F.	Remarks : Nil	ck : Cyclone Bag Filt	er

Report Prepared By



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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED - 1204 Date : 30.06.2023

Sample Description : Stack Monitoring

Sample Mark: SSP-Ball Mill

Date & Time of Sampling :21.06.2023

at 02.30 pm

Reference No.& Date:4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

A.	General information about stack :			
1.	Stack connected to	nee		
2.	Emission due to	: SSP - Ba		
3.	Material of construction of Stack	:Milling O	peration	
4.	Shape of Stack	: MS		
5.		: Circular		
-	Whether stack is provided with permanent platfor	m & ladder:	Ves	
6.	Cupercity	1	The second secon	1.4 (1994)
В.	Physical characteristics of stack :		Working Load	- 14 TPH
1.	Height of the stack from ground level	: 34.5 m		
2.	Diameter of the stock or 1	: 0.7 m		
3.	Height of the County Date 5			
4.	Area of Stack	: 31.5 m		
C.	Analysis/Characteristic of stack:	: 0.39 m		
1.	Fuel used			
).			2. Fuel Consumpti	ion :
1.	Result of sampling & analysis of gaseous of	emission	Result	
2.	Temperature of emission (°C)		48	Method
3.	Barometric pressure (mm of Hg) Velocity of gas (m/sec.)		755	IS 11255 (Part III),2008RA 2018
	Ougstity of Car St.		8.64	Lab Method
	Quantity of Gas Flow (Nm³/hr)		10747.31	IS 11255 (Part III),2008RA 2018
	Concentration of Particulate Matter (mg/Nm³)	11	56.0	IS 11255 (Part III),2008RA 2018
	Pollution control device			USEPA-13B - 20/08/1996
	Details of pollution control devices attached wit Remarks : Nil	th the stack	Cyclone and Pag	n Filher
	remarks Nil		of cione and Bar	y Filter

Report Prepared By

for Mitra S. K. Private Limited

Authorised Signatory

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Name & Address of the Customer : 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin- 721602

Report No. : WB/ED -1362 Date : 31.07.2023

Sample Description: Stack Monitoring

Sample Mark: SSP-Ball Mill

Date & Time of Sampling :18.07.2023

at 02.50 pm

Reference No.& Date:4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

Α.	General information about stack :				
1.	Stack connected to	. 0	SP - Ball Mill		
2.	Emission due to				
3.	Material of construction of Stack	:Milling Operation			
4	Shape of Stack	: MS			
5.	Whether stack is provided with permanent plan	;Cir	cular		
6.	capacity provided with permanent plan	Section 1988			
В.	Physical characteristics of stack :	Working Load - 10 TPH			
1.	Height of the stack from ground level				
2.	Diameter of the stack at sampling point	: 34.4 m			
3.		; 0,7 m			
	Height of the Sampling Point from Ground leve	level :31.5 m			
4.	Area of Stack	: 0.39 m			
C.	Analysis/Characteristic of stack: Fuel used		2 F-1C		
D.	Result of sampling & analysis of gaseou	-	2. Fuel Consu	inplion :	
	emission	13	Result	Method	
1.	Temperature of emission (°C)		47		
2.	Barometric pressure (mm of Hg)		755	IS 11255 (Part III),2008R A 2013 Lab Method	
3.	Velocity of gas (m/sec.)		7.66	The state of the s	
4.	Quantity of Gas Flow (Nm ³ /hr)		9568.19	IS 11255 (Part III),2008R A 2015	
5.	Concentration of Particulate Matter (mg/Nn	m ³)	52.0	IS 11255 (Part III),2008RA 2018	
	Pollution control device			USEPA-13B - 20/08/1996	
1. F.	Details of pollution control devices attached Remarks : Nil	with the	stack : Cy	clone and Bag Filter	

Report Prepared By Schottesfee

Authorised Signatory

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1103 Date : 17.06.2023

Sample No.: MSKGL/ED/2023-24/06/00075 Sample Description: Stack Monitoring

Sample Mark: DAP-1

Date & Time of Sampling: 30.05.2023

at 11.44 AM

Reference No.& Date: 4700013395 ,Dtd: 02.08.2021

ANALYSIS RESULT

A.	General information about stack :					
1.	Stack connected to : DAP-1					
2.	Product poly of the control of the c	eneration from pro-	secondarion Committee P			
	Emission due to : Vapour Generation from process reaction ; Granulation, Screening Milling & Drying operation					
3.	Material of construction of Stack : MS					
4.	Shape of Stack : Circular					
5.	Whether stack is provided with permanent platform & ladder:	Vac				
6.	capacity		Load - 40 TPH			
В.	Physical characteristics of stack :	Working.	LONG - 40 1711			
1.	Height of the stack from ground level : 42 m					
2	Diameter of the stack at sampling point : 2.5 m					
3.	Height of the Sampling Point from Ground level :40 m					
4.	Area of Stack :4.91 m ²					
C.	Analysis/Characteristic of stack:					
1.	Fuel used :	2. Fuel Consump	adam .			
D.	Result of sampling & analysis of gaseous emission	Result				
1.	Temperature of emmission (° c)	56	Method			
2.	Barometric pressure (mm of Hg)	755	IS 11255 (Part III),2008RA 2018			
3.	Velocity of gas (m/s)	13.95	IS 11255 (Part III),2008RA 2018			
4.	Quantity of gas flow (Nm3/hr)	192700	IS 11255 (Part III),2008RA 2018			
5.	Concentration of Carbon monoxide (% v/v)	<0.2	IS 11255 (Part III),2008RA 2018 IS 13270:1992, Rffm 2009			
6.	Concentration of Oxygen (% v/v)	18.6	IS:13270:1992. Rffff 2014			
7.	Concentration of Carbondioxide (% v/v)	1.2	IS:13270:1992 Reaff,2014			
8.	Concentration of Particulate Matters (mg/Nm³)	96.8	IS 11255 (Part I): 1985,RA 2014			
9.	Moisture content (%)	13.2	IS 11255 (Part III), 2008RA 2018			
10.	Concentration of Gaseous Fluoride (mg/Nm3)	1.12				
11.	Concentration of Amonia (mg/Nm³)	281.2	US EPA part 13 A_(O)			
E.	Pollution control device	201.2	IS 11255 (Part 6) -1999; Rffm: 2003			
1.	Details of pollution control devices attached with the stack	: 5 Stage Scrub	hor			
F.	Remarks : Nil	. J Stage Scrub	luei .			

Report Prepared By

for Mitra S. K. Private Limited

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ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail:rvbriggs.kolkata@gmail.com, Website:www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/333 Issued to	: M/S. INDORAMA INDIA PRIVATE	LIMITED Page 1 o
Address Your Ref. P.O. No.	P.O.: Durgachak, Haldia, Dist Purha Medo	ipour, Pin: 721602
Sample Description Date & time of sampling	: Stack Gas / Flue Gas	Equipment used: ID No.: RVB/SMK/03 (Cal. Validity: 16/07/23)
Sampling Plan & Method Analysis Completed on A. General information a	: 16.06.2023 (12:00 P.M. to 12:46 P.M.) : RVB/FM/44 & IS: 11255 (Part-1,2 & 3) : 20.06.2023	Parameters Tested Physical: Temp., Velocity, Gai flow, CO, COZ, F, NH3 Chemical: PM

: Vapours Generated from Process Reaction, Granulation Screening.

Milling & Drying Operation

Material of construction of stack : M.S. Shape of stack : Circular.

Whether stack is provided with permanent platform & ladder: Yes.

Physical characteristics of stack : B.

Height of the stack from ground level 1. : 42.0 M 2.

Diameter of the stack at sampling point : 2.5 M 4. No. of Traverse point

: 32 Nos. Height of the sampling point from GL : 40.0 M

Analysis / Characteristic of stack Gas / Flue Gas : C.

Fuel used :---2. Fuel consumption : ---D. Environmental conditions: 3.Load: 40 TPH

Barometric pressure: 752 mmHg 1. 2. Temperature: 37 °C E.

Results of Physical & General Parameters of Flue Gas ;

Test Parameters	Test Method	11.1.	
Temperature of emission Velocity of gas in duct Quantity of gas flow Carbon monoxide Carbon dioxide Gasous Fluoride Ammonia as NH ₃ Results of gaseous emission	IS 11255: Part 3: 2008 IS 11255: Part 3: 2008 IS 11255: Part 3: 2008 IS 13270 (By Orsat): 1992 IS 13270 (By Orsat): 1992 IS 11255 (Part 5): 1990 Methods of Air Sampling & Analysis, 3rd Ed.	"C" m/sec NM³/hr % v/v % v/v mg/Nm³ mg/Nm³	54 12.94 181711 <0.2 0.2 0.89 163

Results of gaseous emission:

88

St No	Test Parameters	Test Method			
		rest Method	Unit	Results	Norms as pe
1,	Particulate Matters	IS 11255 ; Part 1 : 1985	-	70.000	CPCB
G.	Pollution control device	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/Nm ³	61	150 max.

Details of pollution control devices attached with the stack : NH2 Scrubber, Gas Scrubber & Fluoride Scrubber. 5. mandow

Report Verified by

-: END OF TEST REPORT :-

S. Mondal

& Xar (Dr. R. KARIM)

Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. Al	P-FG/23-24/676	Date: August 30, 2023			Page 1 of	
ssued	to	: M/S. INDORAMA INDIA PRIVATE L	IMITED			
Addres	SS	; P.O.; Durgachak, Haldia, Dist; Purba Mednipour, Pin: 721602				
Your R	tef. P.O. No.	: 4700017754, dtd. 27.10.2022	Inches de la constitución	Equipment (
Sample	Description	: Stack Gas / Flue Gas	ID No.: RVB/S	MK/06 (Cal. Va	lidity: 01/08/24)	
	time of sampling	: 28.08.2023 (01:20 P.M. to 02:08 P.M.)	<u>F</u>	arameters 7	ested	
	ng Plan & Method	; RVB/FM/45 & IS: 11255 (Part-1,2 & 3)			, CO, CO3, F, NH3	
	is Completed on	: 30.08.2023	Chemical: PM			
Α.	General information abou					
110	Stack connected to	: DAP - 1				
2.	Emission due to	: Vapours Generated from P Milling & Drying Operatio		n, Granulation	Screening,	
3.	Material of construction of	stack : M.S.				
4.	Shape of stack	: Circular,				
5.	Whether stack is provided with permanent platform & ladder : Yes.					
В.	Physical characteristics of stack :					
1.	Height of the stack from gr					
2,	Diameter of the stack at sar	# / TIM :				
4.	No. of Traverse point	: 32 Nos.				
5.	Height of the sampling poi	The state of the s				
C.	Analysis / Characteristic					
1.	Fuel used :	2. Fuel consumption :		3.Load: 38 T	PH	
D.	Environmental conditions	The second secon				
J.	Barometric pressure : 752		2. Temperati	ure:35°C		
E.		neral Parameters of Flue Gas :				
SI No		Test Method	Unit	R	esults	
1 -	Temperature of emission	IS 11255 : Part 3 : 2008	"C		54	
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec		12.49	
3	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr	(7/5)(0)(0)		
4.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v		<0.2	
5.	Carbon dioxide	IS 13270 (By Orsar): 1992	% v/v	0.2		
6.	Gasous Fluoride	1S 11255 (Part 5): 1990	mg/Nm ³		0.47	
7.	Ammonia as NH ₃	Methods of Air Sampling & Analysis, 3rd Ed. (Indophenol Method), Method 401	mg/Nm ³		60.4	
F.	Results of gaseous emis-					
SI No	Test Parameters	Test Method	Unit	Results	Norms as pe	

SI No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm ³	33	150 max.

G. Pollution control device

Details of pollution control devices attached with the stack : NH3 Scrubber, Gas Scrubber & Fluoride Scrubber.

Report Verified by

-: END OF TEST REPORT :-

S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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TAHER MANSION, 1ST FLOOR

9. BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382/3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/790	Date: September 18, 20	D23 Page 1 of
Issued to	: M/S. INDORAMA INDIA PRIVATE	
Address	: P.O.: Durgachak, Haldia, Dist: Purba Medni	ipour, Pin: 721602
Your Ref. P.O. No.	: 4700017754, dtd. 27.10.2022	Equipment used:
Sample Description	: Stack Gas / Flue Gas	ID No.: RVB/SMK/06 (Cal. Validity: 01/08/24)
Date & time of sampling	: 11.09.2023 (12:45 P.M. to 01:33 P.M.)	Parameters Tested
Sampling Plan & Method	: RVB/FM/45 & IS: 11255 (Part-1,2 & 3)	Physical Temp., Velocity, Gos flow, CO, CO2, F, NH3
Analysis Completed on	: 18.09.2023	Chemical: PM
 A. General information a 	bout stack :	
 Stack connected to 	: DAP - 1	
Emission due to	: Vapours Generated from I Milling & Drying Operation	Process Reaction, Granulation Screening, on
Material of construction	n of stack : M.S.	
 Shape of stack 	: Circular.	

Whether stack is provided with permanent platform & ladder: Yes.

Physical characteristics of stack :

1. Height of the stack from ground level : 42.0 M 2. Diameter of the stack at sampling point : 2.5 M 4. No. of Traverse point : 32 Nos. Height of the sampling point from GL : 40.0 M

Analysis / Characteristic of stack Gas / Flue Gas :

Fuel used : ---2. Fuel consumption : ---3.Lead: 40 TPH

Environmental conditions:

Barometric pressure: 752 mmHg 2. Temperature: 35 °C

Results of Physical & General Parameters of Flue Gas :

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	55
2.	Velocity of gas in duct	IS 11255: Part 3: 2008	m/sec	12.89
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr	179149
4.	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v	< 0.2
5.	Carbon dioxide	1S 13270 (By Orsat): 1992	% v/v	0.2
6.	Gasous Fluoride	IS 11255 (Part 5): 1990	mg/Nm ³	1.04
7.	Ammonia as NH ₃	Methods of Air Sampling & Analysis, 3rd Ed. (Indophenol Method), Method 401	mg/Nm ³	76.9

Results of gaseous emission:

SI No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm ³	45	150 max.

Pollution control device

Details of pollution control devices attached with the stack : NH3 Scrubber, Gas Scrubber & Fluoride Scrubber.

Report Verified by

-: END OF TEST REPORT :-

S. Mondal

Quality Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. : WB/ED -1104 Date : 17.06.2023

Sample No.: MSKGL/ED/2023-24/06/00076

Sample Description: Stack Monitoring

Sample Mark: DAP-2

Date & Time of Sampling: 30.05.2023

at 04.08 PM

Reference No.& Date: 4700017438 ,Dtd: 13.09.2022

ANALYSIS RESULT

Α.	General information about stack :		
1.	Stack connected to : DAP-2		
2.	The state of the s		The state of the s
	& Dryine	operation from proce operation	ess reaction; Granulation, Screening Mill
3.	Material of construction of Stack : MS	operation	
4.	Shape of Stack : Circular		
5.	Whether stack is provided with permanent platform & ladder:	Nr.	
6.	ICADACITY	77704	
В.	Physical characteristics of stack :	Wor	king Load - 70 TPH
1	Height of the stack from ground level : 42 m		
2.	Diameter of the stack at sampling point 2.5 m		
3.	Height of the Sampling Point from Ground level : 40.0 m		
4.	Accorded to the state of the st		
2.	Analysis/Characteristic of stack: 4.91 m ³		
1.	Fuel used		
).	Result of sampling & analysis of gaseous emission	2. Fuel Consumpt	tion:
1.	Temperature of emmission (°c)	Result	Method
	Barometric pressure (mm of Hg)	58	IS 11255 (Part III),2008RA 2018
	Velocity of gas (m/s)	755	IS 11255 (Part III),2008RA 201
	Quantity of gas flow (Nm3/hr)	14.16	IS 11255 (Part III),2008RA 201
	Concentration of Carbon Monoxide (% v/v)	14021	IS 11255 (Part III),2008RA 2018
	Concentration of Oxygen (% v/v)	<0.2	IS 13270 : 1992
	Concentration of Carbon Dioxide (% v/v)	18.0	IS 13270 : 1992
	Concentration of Particulate Matters (mg/Nm³)	1,2	IS 13270 . 1992
	Moisture content (%)	86.5	IS 11255 (Part I):1985,RA 2014
).	Concentration of Gaseous Fluoride (mg/Nm³)	11.03	IS: 11255 (Part 3): 2008
	Concentration of Amonia (mg/Nm³)	1.09	US EPA part 13 A_(O)
	Pollution control device	234.0	IS 11255 (Part 6): 1999
	Details of pollution control devices attached with the stack	5 Stage Scrubb	ers (NH3, Scrubber, Gas Scrubber,
_	Remarks : Nil		ber & Fluoride Scrubber)

Report Prepared By

for Mitra S. K. Private Limited

The results relate only to the item(s) tested.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

	P-FG/23-24/334	Date: June 20, 2023			Page 1 c	
Issued to Address		: M/S. INDORAMA INDIA PRIVATE I	LIMITED		ragere	
		: P.O.: Durgachak, Haldia, Dist: Purba Medni		600		
	ef. P.O. No.	: 4700017754, dtd. 27.10.2022	001,111.721	Equipment	mande	
	Description	: Stack Gas / Flue Gas	ID No.: RVB	SMK/05/Cal 3	/alidity: 16/07/23)	
Date & time of sampling		: 16.06.2023 (02:23 P.M. to 03:08 P.M.)		Parameters	the state of the s	
	ng Plan & Method	: RVB/FM/44 & IS: 11255 (Part-1,2 & 3)	Physical Terro		ow, CO, CO2, F, NHI	
Analysi	is Completed on	: 20.06.2023	Chemical P	M.	se, eo, coz, r, mi	
A.	General information about	ut stack :				
	Stack connected to	: DAP - 2				
	Emission due to	: Vapours Generated from P Milling & Drying Operatio	rocess Reaction	on, Granulați	on Screening,	
	Material of construction of	stack : M.S.				
	Shape of stack : Circular					
5.	Whether stack is provided	with permanent platform & ladder ; Yes.				
В.	Physical characteristics	of stack :				
1.	Height of the stack from ground level : 42.0 M					
2. 1	Diameter of the stack at sampling point ± 2.5 M					
	No. of Traverse point : 32 Nov.					
5. 1	att to M					
C.	The day of the day in					
	Fuel used :	2. Fuel consumption :		3.Load: 70	TPH	
	Environmental conditions					
	Barometric pressure: 752 r		2. Temperat	nme : 36 °C		
E. F	Results of Physical & Ger	neral Parameters of Flue Gas :		mr. 20 C		
SI No	Test Parameters	Test Method	Unit	-	Results	
	Temperature of emission	IS 11255 : Part 3 : 2008	°C	-	58	
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec		13.62	
	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr		90971	
327 8	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v		<0.2	
3 . (Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v		0.2	
6. (Gasous Fluoride	IS 11255 (Part 5): 1990	mg/Nm ³		0.98	
42 P25 - 4 15	Ammonia as NH ₃	Methods of Air Sampling & Analysis, 3rd Ed.	mg/Nm ³		137	
F. R	Results of gaseous emiss	on:				
I No	Test Parameters	Test Method	Unit	Results	Norms as pe	
1. I	Particulate Matters	IS 11255 : Part I : 1985	mg/Nm ³	74	CPCB 150 max.	
G. P	ollution control device		mgrun	7.9	130 max.	
D	etails of pollution control of entury Scrubber & Fluorid	devices attached with the stack : 5 Stage NH3 S	crubber, 2 No	s. Gas Scrub	ber,	
	winds serubber & riubrid	: END OF TEST REPORT		200		

Report Verified by
S. Mondal

-: END OF TEST REPORT :-

(Dr. R. KARIM) Technical Manager

Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. A	P-FG/23-24/677	Date: August 30, 2023			Page 1 of
ssued	ito	: M/S. INDORAMA INDIA PRIVATE L	IMITED		
Addres	55	: P.O.: Durgachak, Haldia, Dist: Purba Mednip	our. Pin: 7216	02	
our R	Ref. P.O. No.	: 4700017754, dtd. 27.10.2022	The second live in the second li	Equipment (ised:
Sample	e Description	: Stack Gas / Flue Gas			lidity: 01/08/24)
Date & time of sampling		: 28.08.2023 (03:30 P.M. to 04:18 P.M.)	1	arameters '	Tested
	ing Plan & Method	: RVB/FM/45 & IS: 11255 (Part-1,2 & 3)	Physical Temp.	Velocity, Gas flor	*, CO, CO2, F, NH3
	is Completed on	: 30.08.2023	Chemical : PM		
A.	General information about	N. C.			
1.	Stack connected to	: DAP - 2			
2.	Emission due to	: Vapours Generated from P		n, Granulatio	n Screening,
3.	Material of construction of	Milling & Drying Operatio	n		
4.	Shape of stack	stack : M.S. : Circular			
5.					
В.	Physical characteristics o	vith permanent platform & ladder : Yes.			
1.	Height of the stack from gre				
2.	Diameter of the stack at san				
4.	No. of Traverse point : 32 Nos.				
5,					
C.	Analysis / Characteristic o				
1.	Fuel used :	2. Fuel consumption :		3.Load: 40 T	PH
D.	Environmental conditions				
1.	Barometric pressure: 752 n	nmHg	2. Temperati	ure: 35 "C	
E.	Results of Physical & Gen	eral Parameters of Flue Gas :			
SI No	Test Parameters	Test Method	Unit	R	esults
1.	Temperature of emission	IS 11255 : Part 3 : 2008	⁰ C		59
2.	Velocity of gas in duct	TS 11255 : Part 3 : 2008	m/sec		13.05
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	NM ³ /hr	1	83924
4	Carbon monoxide	IS 13270 (By Orsat): 1992	% v/v		<0.2
5	Carbon dioxide	IS 13270 (By Orsat): 1992	% v/v	0.2	
6.	Gasous Fluoride	IS 11255 (Part 5): 1990	mg/Nm ³		0.58
7.	Ammonia as NH ₂	THE RESERVE OF THE PROPERTY OF		68.7	
F.	Results of gaseous emiss	ion :			
SI No	Test Parameters	Test Method	Unit	Results	Norms as pe CPCB
1.	Particulate Matters	IS 11255 : Part 1 : 1985	mg/Nm ³	74	150 max.
	Pollution control device		1000000	200	3135037650

Report Verified by S. Mondal

112

Ventury Scrubber & Fluoride Scrubber.

-: END OF TEST REPORT :-

(Dr. R. KARIM)

Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-FG/23-24/791	Date: September 18, 20	023 Page 1 of 1
Issued to Address	: M/S. INDORAMA INDIA PRIVATE	LIMITED
Your Ref. P.O. No. Sample Description	: P.O.: Durgachak, Haldia, Dist: Purba Medri : 4700017754, dtd. 27.10.2022 : Stack: Gas / Flue Gas	Equipment used: ID No.: RVB/SMK/06 (Cal. Validity: 01/08/24)
Date & time of sampling Sampling Plan & Method Analysis Completed on	: 11.09.2023 (03:13 P.M. to 04:01 P.M.) : RVB/FM/45 & IS: 11255 (Part-1,2 & 3) : 18.09.2023	Parameters Tested Physical : Temp., Velocity, Gas flow, CO, CO2, F, 8013 Chemical : PM

General information about stack:

Stack connected to : DAP - 2

Emission due to : Vapours Generated from Process Reaction, Granulation Screening,

Milling & Drying Operation

3. Material of construction of stack : M.S. 4. Shape of stack : Circular.

Whether stack is provided with permanent platform & ladder: Yes.

Physical characteristics of stack :

1. Height of the stack from ground level : 42.0 M 2. Diameter of the stack at sampling point : 2.5 M 4. No. of Traverse point : 32 Nos.

Height of the sampling point from GL : 40.0 M C. Analysis / Characteristic of stack Gas / Flue Gas :

Fuel used :---2. Fuel consumption : ---3.Load: 70 TPH

D. Environmental conditions:

1. Barometric pressure: 752 mmHg 2. Temperature: 36 °C E.

Results of Physical & General Parameters of Flue Gas: Test Parameters SI No Test Method Unit Results 1. Temperature of emission IS 11255: Part 3: 2008 61 2. Velocity of gas in duct IS 11255: Part 3: 2008 m/sec 13.60 3. Quantity of gas flow IS 11255 : Part 3 : 2008 NM3/hr 189416 4. Carbon monoxide IS 13270 (By Orsat): 1992 % v/v < 0.2 5. Carbon dioxide IS 13270 (By Orsat): 1992 % V/V 0.2 6. Gasous Fluoride IS 11255 (Part 5): 1990 mg/Nm3 0.43 Methods of Air Sampling & Analysis, 3rd Ed. 7. Ammonia as NH2 mg/Nm3 63.2 (Indephenol Method), Method 401

Results of gaseous emission:

SI No Test	Parameters	Test Method	Unit	Results	Norms as per CPCB
1. Particu	late Matters	IS 11255 : Part 1 : 1985	mg/Nm ³	36	150 max.

Pollution control device

Details of pollution control devices attached with the stack : 5 Stage NH3 Scrubber, 2 Nos. Gas Scrubber,

Ventury Scrubber & Fluoride Scrubber.

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(J. MUKHERJEE) Quality Manager

Authorised Signatory For R.V.BRIGGS & CO. (P) LTD.

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ANNEXURE - 2 Ambient Air Monitoring Report



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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/06 Date: May 08, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 Sampling Location : Durgachak E Block ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23 Latitude- N 22.07007, Longitude- E 88.13681 Environmental conditions Date & Time of sampling : 24.04.2023 (09:10 A.M.)-25.04.2023 (09:10 A.M.) Temperature: Max: 40.0°C & Min: 28.0°C Sampling Plan: : RVB/FM/44 Barometric Presure : 755 mmHg Duration of Sampling : 24Hrs Parameters Tested: PM25, PM10, SO2, NO2, O3, NH5, CO, Pb, Ni, As, C₆H₆, BaP Analysis Completed on : 08.05.2023

TEST	FIN	D	NG	S:-	

SI.	Parameters	Test Method	Unit	Results	Norms as NAAQ,2009
No.				(Time Weighted Avg.)	
1.	PM _{2,5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	38.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	59.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5,3	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	16.8	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.0	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.80	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.037	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SCP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	5.30	20
10.	Arsenic as As	SOP No.: RVB/SCP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(s)Pyrene: 0.5 ng/m5

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. Al	P-AAQ/23-24/IIPL/	6 Date: May : M/S. INDORAMA INDIA PRIVATE	Company Compan	Page 2 of		
Addre		: PO : Durgachak, Haldia, District : P		602		
1		: 4700019752, dtd. 08.05.2023		pment used:		
Sample	e Description	: Ambient Air	V 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11, Cal. Valid upto: 30.08.23		
		: Durgachak E Block	ID No.: RVB/RDS/APM460	0/BL/04, Cal. Valid upto: 03.11.23		
Latitud		Latitude- N 22.07007, Longitude- E 88.136	81 Environn	nental conditions		
decrease and a manufacture (17)		: 24.04.2023 (09:10 A.M.)-25.04.2023 (09:10	(A.M.) Temperature : M	ax: 40.0°C & Min: 28.0°C		
Sampling Plan:		ing Plan: : RVB/FM/44		Presure: 755 mmHg		
Duration of Sampling		n of Sampling : 24Hrs.		Parameters Tested:		
Analysis Completed on : 08.05.2023		: 08.05.2023	Fluoride	& SO ₃ + Acid mist		
TEST	FINDINGS:-					
SL No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)		
1.	Fluoride	IS: 5182 (Part - 13): 1	991 µg/m³	18.8		
2.	SO ₃ + Acid mi	st Titrimetric	µg/m³	15.3		

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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No. AD-AA0/22 24/IIDI (07

R. V. BRIGGS & CO. PRIVATE LTD.

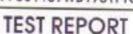
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CIN: U51109WB1931PTC007007





NO. AP-AAG/23-24/IIPL	707 Date: May 08, 202	Page 1 of 1
Issued to Address	: M/S. INDORAMA INDIA PRIVATE LIMITI : PO : Durgachak, Haldia, District : Purba N	ED
P.O. No.	: 4700019752, dtd. 08.05.2023	Equipment used:
Sample Description	: Ambient Air	ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23
Sampling Location	: ATO #1	ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23
	Latitude- N 22.05775, Longitude- E 88.13720	Environmental conditions
Date & Time of sampling	: 25.04.2023 (10:10 A.M.)-26.04.2023 (10:10 A.M.)	Temperature : Max: 40.0°C & Min: 28.0°C
Sampling Plan :	: RVB/FM/44	Barometric Presure : 754 mmHg
Duration of Sampling	: 24Hrs.	Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3
Analysis Completed on	: 08.05.2023	CO, Pb, Ni, As, C ₆ H ₆ , BaP

TEST FINDINGS:-

SI. No.		Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	46.7	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	75.9	100 (24 Hourly.)
3	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.7	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.2	80 (24 Hourly.)
5	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	16.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	12.4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	0.99	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.058	1.0 (24 Hourly.)
9,	Nickel as Ni	SOP No.: RVB/SCP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SCP/01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m³	0.89	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.18	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit. Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. Marva V

S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	-AAQ/23-24/IIPL/		23	Page 2 of	
Issued to Address		: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba Mic			
Samplin	Description og Location	: 4700019752, dtd. 08.05.2023 : Ambient Air : ATO # 1 Latitude- N 22.05775, Longitude- E 88.13720	Equ ID No.: RVB/AFDS/PM2.5 ID No.: RVB/RDS/APM46	ipment used: 5/11, Cal. Valid upto: 30,08.23 0/BL/04, Cal. Valid upto: 03.11,2: mental conditions	
Date & Time of sampling Sampling Plan: Duration of Sampling Analysis Completed on TEST FINDINGS:-		District Control of the Control of t		Max: 40.0°C & Min: 28.0°C C Presure : 754 mmHg	
		24Hrs. : 08.05.2023	Parameters Tested: Fluoride & SO ₃ + Acid mist		
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	27.1	
2.	SO ₃ + Acid ml	st Titrimetric	µg/m³	27.2	

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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No AP AAO/22 24/IIDL ING

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

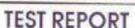
(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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CIN: U51109WB1931PTC007007





NO. AP-AAQ/23-24/IIPL	708 Date: May 08, 202	23		Page 1 of	
Issued to	: M/S. INDORAMA INDIA PRIVATE LIMITI	ED			
Address	: PO : Durgachak, Haldia, District : Purba M	lidnapore, W	est Bengal 721	602	
P.O. No.	: 4700019752, dtd. 08.05.2023	T	Equipme		
Sample Description	: Ambient Air	ID No: RVB/	and the second s	al. Valid upto: 30.08.23	
Sampling Location	: Near Main Gate	ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: I		71, Cal. Valid upto: 03.11.23	
	Latitude- N 22.06012, Longitude- E 88.13828		Environmental conditions		
Date & Time of sampling	25.04.2023 (09:50 A.M.)-26.04.2023 (09:50 A.M.)	Temperature : Max: 40.0°C & Min: 28.0°C			
Sampling Plan :	: RVB/FM/44		Barometric Presi	ure: 754 mmHg	
Duration of Sampling	24Hrs.			PM ₁₀ , SO ₂ , NO ₂ , O ₃ , NH ₅ ,	
Analysis Completed on	: 08.05.2023		As, C ₈ H ₆ , BaP		
TEST FINDINGS:-					
Si. Parameters	Test Method	Hoit	Possilte	Name to NAAO 200	

SI. No.		Test Method	Unit	Results	Norms as NAAQ,2009
				(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	48.7	60 (24 Hourly.)

 PM₁₀ (Size ≤ 10µm) IS 5182 (Part - 23): 2006 µg/m^a 88.1 100 (24 Hourly.) Sulphur Dioxide as SO₂ IS 5182 (Part - 2): 2001 µg/m³ 5.1 80 (24 Hourly.) Nitrogen Dioxide as NO₂ 4 IS 5182 (Part - 6): 2006 µg/m³ 27.4 80 (24 Hourly) Ozone as Oa 5. IS 5182 (Part - 9): 1974 16.9 µg/m^a 180 (1 Hourly.) SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue: 6. Ammonia as NH₂ µg/m³ 11.8 400 (24 Hourly.) No. 04, Issue Date: 10.01.2018 IS: 5182 (Part - 10), 1999 Non Dispersive infra-Red 7 Carbon Monoxide as CO mg/m³ 1.00 04 (1 Hourly.) (NOIR) spectroscopy Lead as Pb IS 5182 (Part - 22): 2004 µg/m³ 0.068 1.0 (24 Hourly.) SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04. Nickel as Ni ng/m3 <5.0 20 Issue Date: 10:01.2018 SOP No.: RVB/SOPI01/16 (AAS Method) Issue No. 04. 10. Arsenic as As ng/m3 0.89 6.0 Issue Date: 10.01.2018 11. Benzene as CeHs IS 5182 (Part - 11): 2006. µg/m³ 1.34 5.0 12. Benzo (a) Pyrene

Minimum detection Limit: Nickei: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

IS 5182 (Part - 12): 2004,

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory

1.0

< 0.5

ng/m3

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	2/23-24/IIPL/08	Date: May 08, 202	3	Page 2 of
Issued to Address		/S. INDORAMA INDIA PRIVATE LIMITED O: Durgachak, Haldia, District: Purba Mid		
P.O. No. : 4700 Sample Description : Amb Sampling Location : Near Latitue Date & Time of sampling : 25.04 Sampling Plan : : RVB Duration of Sampling : 24Hr		700019752, dtd. 08.05.2023 mbient Air ear Main Gate	Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.2	
		6tude- N 22.06012, Longitude- E 88.13828 04.2023 (09:50 A.M.)-26.04.2023 (09:50 A.M.) VB/FM/44	Environi Temperature : N	mental conditions Max: 40.0°C & Min: 28.0°C : Presure : 754 mmHg
		Hrs. 3.05.2023	Parameters Tested: Fluoride & SO ₃ + Acid mist	
	Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS : 5182 (Part - 13) : 1991	hā _l m ₃	25.0
2. SC	0 ₃ + Acid mist	Titrimetric	µg/m³	18.7

-: END OF TEST REPORT :-

S. morded Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/09 Date: May 25, 2023 Page 1 of 1 Issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Priyambada Housing Complex

Latitude- N 22.40235, Longitude- E 88.48512

Date & Time of sampling : 09.05.2023 (08:40 A.M.)-10.05.2023 (08:40 A.M.) Sampling Plan:

: RVB/FM/44 Duration of Sampling : 24Hrs.

TEST FINDINGS:-

Lead as Pb

Nickel as Ni

Arsenic as As

12 Benzo (a) Pyrene

Benzene as CeHe

9.

10.

11

Analysis Completed on 25.05.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23

ID No.; RVB/ROS/APM460/BL/01, Cel. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 40.0°C & Min: 28.0°C

Barometric Presure: 753 mmHg

Parameters Tested: PM25, PM15, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

µg/m³

ng/m²

ng/m²

µg/m²

ng/m°

0.053

9.40

< 0.25

<1.0

< 0.5

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
_	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	41.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	67.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.0	80 (24 Hourty.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	21.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	15.2	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indopheno Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	12.7	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part + 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.77	04 (1 Hourly.)

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

IS 5182 (Part - 22): 2004

SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04,

Issue Date: 10.01.2018 SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04.

Issue Date: 10.01.2018

IS 5182 (Part - 11): 2006,

IS 5182 (Part - 12): 2004.

-: END OF TEST REPORT :-

9. Mondal Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

1.0 (24 Hourly.)

20

6.0

5.0

1.0

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued Addre		: M/S. INDORAMA INDIA PRIVATE LIMITE	D	Page 2 c		
P.O. No. : 470 Sample Description : Am Sampling Location : Priy Latit Date & Time of sampling : 09.0 Sampling Plan : RVI Duration of Sampling : 24H		: PO : Durgachak, Haldia, District : Purba Mil : 4700019752, dtd. 08.05,2023 : Ambient Air : Priyambada Housing Complex	ID No.: RVB/AFDS/PM2.5	Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30:08.23 ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03:11		
		Latitude- N 22.40235, Longitude- E 88.48512 : 09.05.2023 (08:40 A.M.)-10.05.2023 (08:40 A.M.) : RVB/FM/44	Environmental conditions			
		: 24Hrs. : 25.05.2023		eters Tested: & SO ₃ + Acid mist		
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.		
1.	Fluoride	IS : 5182 (Part - 13) : 1991	hð _l m ₃	12.5		
2.	SO ₃ + Acid mis	st Titrimetric	hd/w ₃	13.6		

-: END OF TEST REPORT :-

S. monda (Report Verified by S. Mondal

(Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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E-mail: rvbriggs.kolkala@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/10 Date: May 25, 2023 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Durgachak E Block

Latitude- N 22.07027, Longitude- E 88.13679

Date & Time of sampling : 09.05.2023 (09:20 A.M.)-10.05.2023 (09:20 A.M.)

Sampling Plan: : RVB/FM/44

Duration of Sampling : 24Hrs.

Analysis Completed on 25.05.2023 Equipment used:

Page 1 of 1

ID No.: RVB/AFDS/PM2:5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 40.0°C & Min: 28.0°C

Barometric Presure: 755 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C₆H₆, BaP

	TEST	FIND	NGS:-
--	------	------	-------

		Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
M _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	36.3	60 (24 Hourly.)
M ₁₀ (Size ≤ 10μm)	IS 5182 (Part - 23): 2006	µg/m³	53.7	100 (24 Hourly.)
ulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.2	80 (24 Hourly.)
itrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	20.7	80 (24 Hourly.)
zone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	18.6	180 (1 Hourly.)
mmonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue No. 04, Issue Date: 10:01:2018	µg/m³	14.2	400 (24 Hourly.)
arbon Monoxide as CO	IS : 5182 (Part + 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.81	04 (1 Hourly.)
ead as Pb	IS 5182 (Part - 22); 2004	µg/m³	0.042	1.0 (24 Hourly.)
ickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	8.40	20
rsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
enzene as C _s H _s	IS 5182 (Part - 11): 2006,	µg/m ³	<1.0	5.0
anto (n) Purces	IS 5182 (Part - 12): 2004,		1000	1.0
a k	arbon Monoxide as CO ad as Pb ckel as Ni senic as As	No. 04, Issue Date: 10.01.2018	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue μg/m ³ IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red mg/m ³ IS: 5182 (Part - 22): 2004 μg/m ³ IS: 5182 (Part - 22): 2004 μg/m ³ IS: 5182 (Part - 22): 2004 μg/m ³ IS: 5182 (Part - 21): 2004 μg/m ³ IS: 5182 (Part - 21): 2004 μg/m ³ IS: 5182 (Part - 21): 2006 ng/m ³ IS: 5182 (Part - 11): 2006 μg/m ³	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue µg/m³ 14.2 µg/m³ 14.2 µg/m³ µg/m³ 14.2 µg/m³ µg/m³ µg/m³ 0.81 µg/m³ 0.81 µg/m³ 0.81 µg/m³ 0.81 µg/m³ 0.81 µg/m³ 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042 0.042

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

s.mona Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	AAQ/23-24/IIPL/1	2010. 1110) 20, 2021		Page 2 of
Issued Addres		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midi		602
P.O. No. : 47000 Sample Description : Ambie Sampling Location : Durga Latitude Date & Time of sampling : 09.05.20 Sampling Plan : RVB/F Duration of Sampling : 24Hrs. Analysis Completed on : 25.05		4700019752, dtd. 08.05.2023 Ambient Air Durgachak E Block	i.2023 Equipment used; ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.2 Ide- E 88.13679 Environmental conditions	
		Latitude- N 22.07027, Longitude- E 88.13679 09.05.2023 (09:20 A.M.)-10.05.2023 (09:20 A.M.) RVB/FM/44		
		24Hrs. 25.05.2023		
SI. No.	INDINGS:- Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	16.7
2.	SO ₃ + Acid mis	Titrimetric	µg/m³	20.4

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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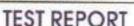
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CIN: U51109WB1931PTC007007



Date: May 25, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. 4700019752, dtd. 08.05.2023.

Sample Description : Ambient Air

Sampling Location : ATO # 1

No. AP-AAQ/23-24/IIPL/11

Latitude- N 22.05507, Longitude- E 88.14636

Date & Time of sampling : 10.05.2023 (10:20 A.M.)-11.05.2023 (10:20 A.M.)

Sampling Plan : RVB/FM/44

Duration of Sampling : 24Hrs.

Analysis Completed on 25.05.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature : Max: 40.0°C & Min: 28.0°C

Barometric Presure: 754 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3

CO, Pb, Ni, As, C,He, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	42.5	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	69.3	100 (24 Hourly.)
3	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.2	80 (24 Haurly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	18.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	11.6	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.84	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.053	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	6.60	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.15	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued t Address		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midna	pore. West Bengal 721	Page 2 o		
P.O. No. : 4 Sample Description : A Sampling Location : A La Date & Time of sampling : 10 Sampling Plan : : R Duration of Sampling : 2		. No. : 4700019752, dtd. 08.05.2023 nple Description : Ambient Air npling Location : ATO # 1 Latitude- N 22.06507, Longitude- E 88.14636 a & Time of sampling : 10.05.2023 (10:20 A.M.)-11.05.2023 (10:20 A.M.) npling Plan : RVB/FM/44		Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BU/04, Cal. Valid upto: 03.11.23 Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 754 mmHg		
		SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	29.2		
2.	SO ₃ + Acid mi	st Titrimetric	ha/w ₃	30.6		

.: END OF TEST REPORT :-

Report Verified by S. Mondal

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No. AP-AAQ/23-24/IIPL/12

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

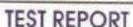
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CIN: U51109WB1931PTC007007



Date: May 25, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Near Main Gate

sampling Location : Near Main Gate

Latitude- N 22.06187, Longitude- E 88.14293

Date & Time of sampling : 10.05.2023 (10:00 A.M.)-11.05.2023 (10:00 A.M.)

Sampling Plan : RVB/FM/44

Duration of Sampling : 24Hrs.

Analysis Completed on : 25.05.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 40.0°C & Min: 28.0°C

Barometric Presure: 754 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1,	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	45.0	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10μm)	IS 5182 (Part - 23): 2006	µg/m³	73	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2); 2001	µg/m³	5.1	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	24.4	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	15,9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10:01:2018	µg/m³	11.2	400 (24 Hourly.)
7,	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.98	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.073	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	5.70	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m², Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benze(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

Date. May 20, 202	23	Page 2 c		
: M/S. INDORAMA INDIA PRIVATE LIMITEI	D			
O. No. : 4700019752, dtd. 08.05.2023 mple Description : Ambient Air mpling Location : Near Main Gate		Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23. ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.		
: 10.05.2023 (10:00 A.M.)-11.05.2023 (10:00 A.M.) : RVB/FM/44	Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 754 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist			
25.05.2023				
Test Method	Unit	Results (Time Weighted Avg.		
IS: 5182 (Part - 13): 1991	µg/m³	18.8		
st Titrimetric	μg/m ³	23.8		
	: M/S. INDORAMA INDIA PRIVATE LIMITE: PO : Durgachak, Haldia, District : Purba Mid: 4700019752, dtd. 08.05.2023 : Ambient Air: Near Main Gate Lathude- N 22.06187, Longitude- E 88.14293 : 10.05.2023 (10:00 A.M.)-11.05.2023 (10:00 A.M.) : RVB/FM/44 : 24Hrs. : 25.05.2023 Test Method IS: 5182 (Part - 13): 1991	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 : 4700019752, dtd. 08.05.2023 : Ambient Air : Near Main Gate Latitude- N 22.06187, Longitude- E 88.14293 : RVB/FM/44 : 24Hrs. : 25.05.2023 Test Method IS: 5182 (Part - 13) : 1991 Lig/m³ IS: 5182 (Part - 13) : 1991 Lig/m³		

.: END OF TEST REPORT :-

S. Morda Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

01 Date: April 12, 202	3 Page 1 of
: M/S. INDORAMA INDIA PRIVATE LIMITE	D
: PO : Durgachak, Haldia, District : Purba Mi	dnapore, West Bengal 721 602
: 4700019752, dtd. 08.05.2023	Equipment used:
: Ambient Air	ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23
: Priyambada Housing Complex	ID No.: RV8/RDS/APM480/BL/01, Cal. Valid upto: 03.11.23.
Latitude- N 22°4'47.577*, Longitude- E 88°5'25.126*	Environmental conditions
05.04.2023 (09.00 A.M.)-06.04.2023 (09:00 A.M.)	Temperature: Max: 40.0°C & Min: 28.0°C
: RVB/FM/44	Barometric Presure : 756 mmHg
: 24Hrs.	Parameters Tested: PM25, PM40, SO2, NO2, O3, NH4,
12.04.2023	CO, Pb, Ni, As, C ₆ H ₆ , BaP
	: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba Mi : 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex Latitude- N 22°4'47.577*, Longitude- E 88°5'25.126° 05.04.2023 (09:00 A.M.)-06.04.2023 (09:00 A.M.) : RVB/FM/44 : 24Hrs.

TECT	E IN	IDINGS:
112531	F-ID	41 JUNE

SL	Parameters	Test Method	Unit	Results	Norman and NAAO 2000
No.	C-01031031904903.W.;	rest metrou	Onic	(Time Weighted	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	33.3	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	56.4	100 (24 Hourly.)
3	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.1	80 (24 Hourty.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	20.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	16.6	180 (1 Hourly.)
6	Ammonia as NH _a	SOP No.: RVB/SOP/01/10 (Indephend Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	12.9	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.83	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.044	1.0 (24 Hourly.)
9	Nickel as Ni	SOP No.: RVB/SCP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01,2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SCP/01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11,	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	0.48	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	< 0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³. Arsenic: 0.25 ng/m³. Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued		: M/S. INDORAMA INDIA F	ate: April 12, 2023 RIVATE LIMITED	Page 2 o			
Addres	ss	: PO : Durgachak, Haldia, D	: Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No. Sample Description Sampling Location Date & Time of sampling Tampling Plan: Duration of Sampling Analysis Completed on		No. : 4700019752, dtd. 08.05.2023		Equipment used: FDS/PM2.5/10, Cal. Valid upto: 30.08.23			
		: Priyambada Housing Com	plex ID No.: RVB/R	CS/APM460/BL/01, Cal. Valid upto: 03.11.2			
		Latitude- N 2204'47 577", Longitude- E 8805'25 126" : 05.04.2023 (09:00 A.M.)-06.04.2023 (09:00 A.M.) : RVB/FM/44		Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 756 mmHg			
		: 24Hrs. : 12.04.2023		Parameters Tested: Fluoride & SO ₃ + Acid mist			
SI. No.	Parameters	Test M	Method U	nit Results (Time Weighted Avg.)			
1.	Fluoride	IS: 5182 (Pa	rt - 13) : 1991 µg	y/m ³ 10.4			
2.	SO ₃ + Acid m	st Titrin	netric µg	p/m ³ 10.2			

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP-AAQ/23-24/IIPL/02 Date: April 12, 2023 Page 1 of 1 Issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description : Ambient Air

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 Sampling Location : Durgachak E Block

ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03:11.23 Latitude- N 22.07011, Longitude- E 88.13694

Environmental conditions Date & Time of sampling : 05.04.2023 (09:30 A.M.)-06.04.2023 (09:30 A.M.)

Temperature : Max: 40.0°C & Min: 28.0°C

Sampling Plan : : RVB/FM/44 Barometric Presure: 755 mmHg

Duration of Sampling : 24Hrs. Parameters Tested: PM2.5, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP Analysis Completed on : 12.04.2023

-	ST FINDINGS:-				
SI. No.	5 (00 t) 4 (10 t) 5 (10 t)	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	38.3	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	63.2	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part + 2): 2001	µg/m³	5.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.3	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	18.0	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01,2018	µg/m³	13.6	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.82	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.062	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	7.60	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m³	0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	0.70	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12); 2004,	ng/m ³	0.17	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. Mandal Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued to Address		Date: April 12, 202 IDORAMA INDIA PRIVATE LIMITED urgachak, Haldia, District : Purba Mid		Page 2 of		
P.O. No. : 470 Sample Description : Am Sampling Location : Dur Latt Date & Time of sampling : 05.0 'ampling Plan : : RV		Description : Ambient Air Ing Location : Durgachak E Block Latitude- N 22.07011, Longitude- E 88.13694 Time of sampling : 05.04.2023 (09:30 A.M.)-06.04.2023 (09:30 A.M.) Ing Plan : RVB/FM/44		Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23 Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 755 mmHg		
	Parameters	Test Method	Unit	Results (Time Weighted Avg.)		
1.	Fluoride	IS: 5182 (Part - 13): 1991	pg/m³	14.6		
2. SC	0 ₃ + Acid mist	Titrimetric	hð _l m ₃	17.0		

-: END OF TEST REPORT :-

Report Verified by S. Mondal



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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/03 Date: April 12, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 Sampling Location : ATO # 1 ID No.: RVB/RDS/APM460/BL/01, Cell Valid upto: 03 11.23 Lalitude- N 22.06177, Longitude- E 88.14724 Environmental conditions Date & Time of sampling : 06 04 2023 (10:00 A.M.)-07.04.2023 (10:00 A.M.) Temperature: Max: 40.0°C & Min: 28.0°C Sampling Plan: : RVB/FM/44 Barometric Presure: 753 mmHg Duration of Sampling : 24Hrs. Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C₆H₈, BaP

Analysis Completed on

: 12.04.2023

SI.	ST FINDINGS:-				
No.	101000100000000000000000000000000000000	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	36.2	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	61.1	100 (24 Hourly.)
3,	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4,3	80 (24 Hourty.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.6	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) issue No. 04, issue Date: 10.01.2018	µg/m³	12.7	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.91	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.057	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	6.60	20
10.	Arsenic as As	SCP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	0.24	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	< 0.5	1.0

Minimum detection Limit: Nicket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. morras Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	AAQ/23-24/IIPL	NOTE THE PERSON NAMED IN COLUMN 1	Date: April 12, 202		Page 2 o	
Issued t			RAMA INDIA PRIVATE LIMITED	50		
Address	5	: PO : Durga	chak, Haldia, District : Purba Midi	napore, West Bengal 721	602	
Sample Description : An Sampling Location : AT Lati Date & Time of sampling : 06.0		: 470001975	2, dtd. 08.05.2023	Equ	ipment used:	
		: Ambient Air	*	ID No.: RVB/AFDS/PM2.5	V10, Cal. Valid upto: 30.08.23	
		: ATO # 1		ID No.: RVB/RDS/APM46	0/BL/01, Cal. Valid upto: 03.11.2	
		PERSONAL CONTRACTOR OF THE STREET		Environr	mental conditions	
				Temperature : N	fax: 40.0°C & Min: 28.0°C	
				Barometric Presure: 753 mmHg		
Duration of Sampling :		: 24Hrs.		Parameters Tested:		
Analysis Completed on : 1:		: 12.04.2023		Fluoride & SO ₃ + Acid mist		
TEST FIN	NDINGS:-					
SI.	Parameters		Test Method	Unit	Results	
No.					(Time Weighted Avg.)	
-					(Time Weighbu Arg.	
1.	Fluoride		IS: 5182 (Part - 13): 1991	3	22.0	
			10.0102 (1 01.10) . 1001	µg/m³	22.9	
2.	SO ₃ + Acid m	et	Titologia			
2.	ooj - Aud III	131	Titrimetric	hg/m²	23.8	

-: END OF TEST REPORT :-

Report Verified by

S. Mondai

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/04 Date: April 12, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location Near Main Gate

Latitude- N 22.06332, Longitude- E 88.14293

Date & Time of sampling : 06.04.2023 (10:30 A.M.)-07.04.2023 (10:30 A.M.)

Sampling Plan: : RVB/FM/44

Duration of Sampling 24Hrs. Analysis Completed on

: 12 04 2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/04, Cai. Valid upto: 03.11.23

Environmental conditions

Temperature : Max: 40.0°C & Min: 28.0°C

Barometric Presure : 753 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO Ph NI As CH Pap

TEST FINDINGS:-			CO, Pb, Ni, As, C ₆ H ₆ , BaP		
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2005
1.	25,	USEPA 1997a,4D CFR Part 50, Appendix L	µg/m³	47.5	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10μm)	IS 5182 (Part - 23): 2006	µg/m³	75.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.3	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	26.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	16.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SCP No.: RVB/SCP/01/10 (indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	11.9	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.96	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.049	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	7.20	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, issue Date: 10.01.2018	ng/m ³	<0.25	6.0
-	Benzene as C ₈ H ₆	IS 5182 (Part - 11): 2006,	μg/m³	1.13	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nicket 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 ug/m³ & Benzo(a)Pyrene: 0.5 ng/m³ -: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/II Issued to Address	: M/S. INDORAMA INDIA PRIVATE LIMIT	ED	Page 2 of	
P.O. No. Sample Description Sampling Location	nple Description : Ambient Air : Near Main Gate Latitude- N 22.06332, Longitude- E 88.14293 : 06.04.2023 (10:30 A.M.) - o7.04.2023 (10:30 A.M.) : RVB/FM/44		1 602 uipment used; .5/11, Cal. Valid upto: 30.08.23 60/BL/04, Cal. Valid upto: 03.11.23	
Date & Time of sampling Sampling Plan : Duration of Sampling			mental conditions Max: 40.0°C & Min: 28.0°C c Presure : 753 mmHg	
Analysis Completed on TEST FINDINGS:-	: 12.04.2023	Parameters Tested: Fluoride & SO ₂ + Acid mist		
SI. Parameter No.	s Test Method	Unit	Results (Time Weighted Avg.)	
1. Fluoride	IS: 5182 (Part - 13): 1991	hð/w ₃	18.8	
SO ₃ + Acid n	nist Titrimetric	µg/m³	20.4	

-: END OF TEST REPORT :-

8. mordel Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/24 Date: July 06, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : A.T.O # 1

Latitude- 22.347722, Longitude- 88.14661

Date & Time of sampling : 29.06.2023 (02:00 P.M.)-30.06.2023 (02:00 P.M.)

Sampling Plan: RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 06.07.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 37.0°C & Min: 25.0°C

Barometric Presure: 753 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C₆H₆, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2,5} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	51.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	87.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	24.0	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	18.0	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP(01/10 (Indephene) Method) issue No. 04, Issue Date: 10:01.2018	µg/m³	13.4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.91	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.076	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) issue No. 04, issue Date: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m2 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

Report Verified by

S. Mondal

(Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	P-AAQ/23-24/IIPL/		Date: July 06, 202		Page 2 of		
Address			M/S. INDORAMA INDIA PRIVATE LIMITED PO: Durgachak, Haldia, District: Purba Midnapore, West Bengal 721 602				
P.O. No. Sample Description Sampling Location		: 4700019752, dtd. 08.05.2023 escription : Ambient Air		Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11,2			
진짜 없이 하게 하게 되었다. 사이는 120 PHD (407H) -		Latitude- 22.347722, Longitude- 88.14661 : 29.06.2023 (02:00 P.M.)-30.06.2023 (02:00 P.M.) : RVB/FM/45		Environmental conditions Temperature ; Max: 37.0°C & Min: 25.0°C Barometric Presure ; 753 mmHg			
		: 24Hrs. : 06.07.2023		Parameters Tested: Fluoride & SO ₃ + Acid mist			
SI.	FINDINGS:-						
No.	Parameters		Test Method	Unit	Results (Time Weighted Avg.)		
1.	Fluoride		IS: 5182 (Part - 13): 1991	µg/m³	25.0		
2.	SO ₃ + Acid mi	ist	Titrimetric	μg/m³	23.3		

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

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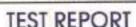
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No. AP-AAQ/23-24/IIPL/25 Date: July 06, 2023 Page 1 of 1

Issued to : M/S, INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: D1.08.23

Sampling Location : Near Main Gate ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.23

Latitude- 22.06499, Longitude- 88.14639 Environmental conditions

Date & Time of sampling : 29.06.2023 (02:30 P.M.)-30.06.2023 (02:30 P.M.) Temperature : Max: 37.0°C & Min: 25.0°C

Sampling Plan : : RVB/FM/45 Barometric Presure : 753 mmHg

Duration of Sampling : 24Hrs. Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

Analysis Completed on : 06.07.2023 CO, Pb, Ni, As, C₆H₆, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	47.1	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	68.2	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	μg/m ³	5.1	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	24.7	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.9	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.96	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.047	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVEISOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10	Arsenic as As	SCP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager

Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIP	J25 Date: July 06	, 2023	Page 2 of			
Issued to	: M/S. INDORAMA INDIA PRIVATE LIN		***			
Address	: PO : Durgachak, Haldia, District : Purb	: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No.	4700019752, dtd. 08.05.2023	Equi	pment used:			
Sample Description	: Ambient Air	ID No.: RVB/AFDS/PM2.5	/13, Cal. Valid upto: 01.08.23			
Sampling Location	Near Main Gate	ID No.: RVB/RDS/APM460	VNL/04, Cal. Valid upto: 16.07.23			
The control of the co	Latitude- 22.06499, Longitude- 88.14639	Environn	nental conditions			
Date & Time of sampling	: 29.06.2023 (02:30 P.M.)-30.06.2023 (02:30 P.I	M.) Temperature : M	lax: 37.0°C & Min: 25.0°C			
Sampling Plan :	: RVB/FM/45	Barometric	Presure: 753 mmHg			
Duration of Sampling	: 24Hrs.	Paran	Parameters Tested:			
Analysis Completed on	: 06.07.2023	Fluoride	& SO ₃ + Acid mist			
TEST FINDINGS:-						
SI. Paramete No.	rs Test Method	Unit	Results (Time Weighted Avg.)			
1. Fluoride	IS:5182 (Part - 13):199	1 µg/m³	16.7			

-: END OF TEST REPORT :-

Titrimetric

Report Verified by S. Mondal

SO₃ + Acid mist

2.

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

µg/m³

20.0

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TEST REPORT

No. AP-AAQ/23-24/IIPL/18 Date: June 22, 2023 Page 1 of 1 : M/S. INDORAMA INDIA PRIVATE LIMITED Issued to Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 : 4700019752, dtd. 08.05.2023 P.O. No. Equipment used: : Ambient Air ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23 Sample Description ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23 : Priyambada Housing Complex Sampling Location Environmental conditions Latitude- N 22°4'47.577", Longitude- E 88°5'25.126" : 14.06.2023 (11:40 A.M.)-15.06.2023 (11:40 A.M.) Temperature: Max: 39.0°C & Min: 27.0°C Date & Time of sampling Barometric Presure: 755 mmHg Sampling Plan: : RVB/FM/44 Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3, 24Hrs. Duration of Sampling CO, Pb, Ni, As, CeHe, BaP Analysis Completed on : 22.06.2023

SI.	Parameters	Parameters Test Method	Unit	Results	Norms as NAAQ,2009
No.				(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	47.1	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	69.6	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m ³	4.4	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	20.1	80 (24 Hourly.)
5	Ozone as O ₂	IS 5182 (Part - 9) : 1974	µg/m³	17.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenel Method) Issue No. 04, Issue Date: 10.01,2018	µg/m³	12.1	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.93	04 (1 Hourly.)
В.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.071	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 94, Issue Date: 10.01.2018	ng/m³	<5.0	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006.	µg/m ³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit, Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. Mondal Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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TEST REPORT

No. AP	-AAQ/23-24/IIPL/	Date. Dalle LE, LOZO		Page 2 o		
Issued Addres		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midn	apore, West Bengal 721			
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling Analysis Completed on TEST FINDINGS;-		: 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex	Equipment used: ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23 ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.2			
				Environmental conditions Temperature: Max: 39.0°C & Min: 27.0°C Barometric Presure: 755 mmHg		
		: 24Hrs. : 22.08.2023	Parameters Tested: Fluoride & SO ₂ + Acid mist			
SL No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.		
1.	Fluoride	IS: 5182 (Part - 13): 1991	hā/w _a	13.9		
2.	SO ₃ + Acid mi	st Tanmetric	hð/w ₃	11.3		

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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TEST REPORT

No. AP-AAQ/23-24/IIPL/19 Date: June 22, 2023 Page 1 of 1

: M/S. INDORAMA INDIA PRIVATE LIMITED Issued to

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

: Durgachak E Block

Sampling Location

Latitude- N 22.07011, Longitude- E 88.13694

Date & Time of sampling : 14.06.2023 (11:25 A.M.)-15.06.2023 (11:25 A.M.)

Sampling Plan: RVB/FM/44

Duration of Sampling 24Hrs

Analysis Completed on 22.06.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.23

Environmental conditions

Temperature: Max: 38.0°C & Min: 28.0°C

Barometric Presure: 755 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1,	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	42,1	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	61.3	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.9	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	22.5	80 (24 Hourly.)
5	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.6	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOPi01/10 (indophetol Method) Issue No. 04, Issue Date: 10:01:2018	μg/m ³	11,4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.85	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.071	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOPI01/15 (AAS Method) Issue No. 04, Issue Date: 10:01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued Addres		9 Date: June 22, 2 : M/S. INDORAMA INDIA PRIVATE LIMIT : PO : Durgachak, Haldia, District : Purba N	ED	Page 2 o		
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan : Duration of Sampling Analysis Completed on TEST FINDINGS:-				pment used: 11, Cal. Valid upto: 30:08.23		
		: Durgachak E Block Latitude- N 22.07011, Longitude- E 88.13694 : 14.08.2023 (11:25 A.M.)-15.06.2023 (11:25 A.M.) : RVB/FM/44	Environn Temperature : M	ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16:07.2 Environmental conditions Temperature: Max: 38.0°C & Min: 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₂ + Acid mist		
		: 24Hrs. : 22.06.2023	Paran			
SL No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)		
1.	Fluoride	IS : 5182 (Part - 13) : 1991	µg/m³	19.4		
2.	SO ₃ + Acid mis	st Titrimetric	µg/m³	18.1		

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/20 Date: June 22, 2023 Page 1 of 1 : M/S, INDORAMA INDIA PRIVATE LIMITED Issued to Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23 Sampling Location : ATO #1 ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23. Latitude- N 22.06177, Longitude- E 88,14724 Environmental conditions Date & Time of sampling : 13.06.2023 (11:25 A.M.)-14.06.2023 (11:25 A.M.) Temperature: Max: 38.0°C & Min: 28.0°C Sampling Plan: : RVB/FM/44 Barometric Presure: 755 mmHg Duration of Sampling : 24Hrs. Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3, CO, Pb, Ni, As, CeHe, BaP Analysis Completed on 22.06.2023

TEST FINDINGS:-

SI. No.		Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	46.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	83.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	μg/m ³	5.5	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	24.0	80 (24 Hourly.)
5.	Ozone as O ₂	IS 5182 (Part - 9) : 1974	µg/m³	18.2	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	10.3	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.92	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.061	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RV8/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

Report Verified by

& mordal

S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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Results relate only to the parameters tested.



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TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-A	AAQ/23-24/IIPL/	20	Date: June 22, 202	3	Page 2 of	
Issued to Address			A INDIA PRIVATE LIMITED , Haldia, District : Purba Midi			
P.O. No.		: 4700019752, dt	d. 08.05.2023	-	pment used: (13, Cal. Valid upto: 01.08.23	
Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling Analysis Completed on TEST FINDINGS:-		: ATO # 1			0/BL/15, Cal. Valid upto: 03.11.2	
		Latitude- N 22.06177, Longitude- E 88.14724 : 13.06.2023 (11:25 A.M.)-14,06.2023 (11:25 A.M.) : RVB/FM/44 : 24Hrs. : 22.06.2023		Environmental conditions Temperature: Max: 38.0°C & Min: 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist		
1.	Fluoride	15	3 : 5182 (Part - 13) : 1991	µg/m³	25.0	
2.	SO ₃ + Acid m	ist	Titrimetric	µg/m³	22.7	

-: END OF TEST REPORT :-

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No. AP-AAQ/23-24/IIPL/21

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

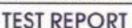
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TAHER MANSION, 1ST FLOOR

9. BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mall: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



Date: June 22, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Near Main Gate

Latitude- N 22.06332, Longitude- E 88.14293

Date & Time of sampling : 13.06.2023 (11:00 A.M.)-14.06.2023 (11:00 A.M.)

Sampling Plan: : RVB/FM/44

Duration of Sampling : 24Hrs.

Analysis Completed on : 22.06.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.23

Environmental conditions

Temperature: Max: 38.0°C & Min: 28.0°C

Barometric Presure: 755 mmHg

Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

CO, Pb, Ni, As, C,Hc, BaP

TEST EINDINGS.

SI. No.	5.0000000000000000000000000000000000000	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2,5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	43.3	60 (24 Hourty.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	69.2	100 (24 Hourty.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.6	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	21.0	80 (24 Hourly.)
5	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOR/01/10 (Indophenal Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	9.2	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.92	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.045	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, issue Date: 10.01.2018	ng/m³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	0.25	6.0
11.	Benzene as C ₆ H ₆	IS-5182 (Part - 11): 2006,	µg/m ³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit. Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. Mondal Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

PL/21 Date: Jur	ne 22, 2023	Page 2 o		
: M/S. INDORAMA INDIA PRIVATE	ELIMITED			
No. : 4700019752, dtd. 08.05.2023 ple Description : Ambient Air pling Location : Near Main Gate		Equipment used: ID No:: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No:: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.		
: 13.06.2023 (11:00 A.M.)-14.06.2023 (11:0 : RVB/FM/44	293 Environ 10 A.M.) Temperature : N	Environmental conditions Temperature: Max: 38.0°C & Min: 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist		
: 24Hrs. : 22.06.2023				
	10:10:10:10:10:10:10:10:10:10:10:10:10:1			
Test Method	Unit	Results (Time Weighted Avg.)		
IS: 5182 (Part - 13) :	1991 µg/m³	15.3		
mist Titrimetric	µg/m³	15.9		
	: M/S. INDORAMA INDIA PRIVATI : PO : Durgachak, Haldia, District : II : 4700019752, dtd. 08.05.2023 : Ambient Air : Near Main Gate Latitude- N 22.06332, Longitude- E 88.142 9 : 13.06.2023 (11:00 A.M.)-14.06.2023 (11:01 RVB/FM/44 : 24Hrs. : 22.06.2023 Prs Test Method	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 : 4700019752, dtd. 08.05.2023		

END OF TEST REPORT :-

L - Mondal

Report Verified by

S. Mondal



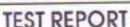
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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



Page 1 of 1 Date: June 08, 2023 No. AP-AAQ/23-24/IIPL/13

: M/S. INDORAMA INDIA PRIVATE LIMITED Issued to

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address

Equipment used: : 4700019752, dtd. 08.05.2023 P.O. No.

ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 : Ambient Air

Sample Description ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.23 : Priyambada Housing Complex Sampling Location

Latitude- N 22 40142, Longitude- E 88 50125

: 24.05.2023 (09:30 A.M.) 25.05.2023 (09:30 A.M.) Date & Time of sampling

: RVB/FM/44 Sampling Plan: : 24Hrs.

Duration of Sampling : 08.06.2023 Analysis Completed on

Environmental conditions

Temperature: Max: 40.0°C & Min: 28.0°C

Barometric Presure: 753 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

ES	T FINDINGS:-	T	Unit	Results	Norms as NAAQ,2009
SI. No.	Parameters	Test Method	Omt	(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	31.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	56.9	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.5	80 (24 Hourly.)
4	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.6	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	16.3	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SCP/01/10 (Indophenol Method) issue No. 04, Issue Date: 10.01.2018	µg/m³	11.6	400 (24 Hourly.)
7	Carbon Monoxide as CO	IS:: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.87	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.093	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SCP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	7.40	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11	Benzene as C ₈ H ₆	IS 5182 (Part - 11): 2006,	µg/m ³	1.34	5.0
-	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

S. mond-(Report Verified by S. Mondal

Dr. R. KARIM Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

-	-AAQ/23-24/IIPL/		1,000	Page 2 o			
ssued		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 802					
Addres	33						
P.O. No		: 4700019752, dtd. 08.05.2023	Equi	pment used:			
Sample	Description	: Ambient Air	ID No.: RVB/AFDS/PM2.5/	10, Cal. Valid upto: 30.08.23			
Samplin	ng Location	: Priyambada Housing Complex	ID No.: RVB/RDS/APM460	VBL/01, Cal. Valid upto: 03.11.2			
		Latitude- N 22.40142, Longitude- E 88.50125	Environn	nental conditions			
Date &	Time of sampling	: 24.05.2023 (09:30 A.M.)-25.05.2023 (09:30 A.M.	(.) Temperature : M	Temperature : Max: 40.0°C & Min: 28.0°C			
amplin	ng Plan ;	: RVB/FM/44	Barometric	Presure: 753 mmHg			
Duration	n of Sampling	: 24Hrs.	Param	Parameters Tested:			
Analysis	s Completed on	: 08.06.2023	Fluoride (Fluoride & SO ₃ + Acid mist			
TESTF	INDINGS:-)				
SI.	Parameters	Test Method	Unit	Results			
No.				(Time Weighted Avg			
1.	Fluoride	IS : 5182 (Part - 13) : 1991	µg/m³	12.5			
2.	SO ₃ + Acid m	st Titrimetric	pg/m³	6.8			

.: END OF TEST REPORT :-

Report Verified by S. Mondal



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9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/14 Date: June 08, 2023 Page 1 of 1 issued to : M/S, INDORAMA INDIA PRIVATE LIMITED

Address

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Durgachak E Block

Latitude- N 22 07025, Longitude- E 88.13685

Date & Time of sampling ; 24.05.2023 (08:50 A.M.)-25.05.2023 (08:50 A.M.)

Sampling Plan: : RVB/FM/44

Duration of Sampling : 24Hrs.

Analysis Completed on 08.06.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23.

D No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 40.0°C & Min: 28.0°C

Barometric Presure: 755 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

SI	Parameters	T			
No	1 41411101010	Test Method	Unit	Results	Norms as NAAQ,200
	5200 mm m m			(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a;40 CFR Part 50, Appendix L.	µg/m³	35.4	60 (24 Hourly.)
2	PM₁s (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	58.5	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.0	80 (24 Hourly.)
4	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.3	180 (1 Hourly.)
6.	Ammonia as NH ₃	SCP No.: RVB/SOP/01/10 (Indophend Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.2	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.82	04 (1 Hourly.)
8,	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.060	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01, 2018	ng/m³	6.40	20
	Arsenic as As	SOP No.: RVBISCPI01/16 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m ³	0.51	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.01	5.0
12.	Benzo (a) Pyrene	IS 5182 { Part - 12 }: 2004,	ng/m³	<0.5	1.0
Books	many data stick block between		111	100000	C-1.V.

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benze(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

4/IIPL/14	Date: June 08, 20:	23	Page 2 o	
Address : PO : Durgachak, Haldia, Distric		ED		
P.O. No. : 4700019752, dtd. 08.05.2023 Sample Description : Ambient Air Sampling Location : Durgachak E Block Latitude- N 22.07025, Longitude- E 88.13685 Date & Time of sampling : 24.05.2023 (08:50 A.M.)-25.05.2023 (08:50 A.M.) Sampling Plan : RVB/FM/44 Duration of Sampling : 24Hrs. Analysis Completed on : 08.06.2023		ID No.: RVB/AFDS/PM2.	ipment used: 5/11, Cal. Valid upto: 30.08.23 30/8L/04, Cal. Valid upto: 03.11.2	
		Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist		
ide	IS: 5182 (Part - 13): 1991	hā/w ₃	16.7	
id mist	Titrimetric	µg/m³	10.2	
	: M/S. I : PO : E : 47000 : Ambie : Durga Latitude : 24.05.20 : RVB/F	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Mid : 4700019752, dtd. 08.05.2023 : Ambient Air : Durgachak E Block	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 72° : 4700019752, dtd. 08.05.2023 : Ambient Air : Durgachak E Block	

END OF TEST REPORT :-

S. mordo-1 Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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No. AP-AAQ/23-24/IIPL/17

R. V. BRIGGS & CO. PRIVATE LTD.

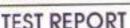
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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CIN: U51109WB1931PTC007007



Date: June 08, 2023 Page 1 of 1

TC-7815

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description Ambient Air ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

Sampling Location : Near DG Room ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03 11.23

Latitude- N 22.06514, Longitude- E 88.14646 Environmental conditions

Date & Time of sampling 28.05.2023 (12:30 P.M.) 27.05.2023 (12:30 P.M.)

Temperature : Max: 40.0°C & Min: 28.0°C

Sampling Plan : RVB/FM/44 Barometric Presure : 755 mmHg

Duration of Sampling : 24Hrs. PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

Analysis Completed on : 08.06.2023 CO, Pb, Ni, As, C₆H₆, BaP

TEST	FINDINGS:-	
15050	I HADNIGOT	

Si. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	42.1	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	79.7	100 (24 Hourly.)
	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.7	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	26.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	5.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SQP No.: RVB/SQP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	15.2	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	1.05	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.041	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04. Issue Date: 10:01.2018	ng/m³	7,00	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04; Issue Date: 10.01.2018	ng/m³	0.38	6,0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.50	5.0
_	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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9, BENTINCK STREET, KOLKATA - 700 001 Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447

E-mail: rvbriggs.kolkala@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP	-AAQ/23-24/IIPL/	17	Date: June 08, 202		Page 2 of		
ssued Addres			: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No. : 47 Sample Description : Ar Sampling Location : N La Date & Time of sampling : 26 Sampling Plan : : R Duration of Sampling : 2		o. : 4700019752, dtd. 08.05.2023 e Description : Ambient Air ing Location : Near DG Room		ID No.: RVB/AFDS/PM2.5/	ment used: 11, Cal. Valid upto: 30.08.23 (BL/15, Cal. Valid upto: 93.11.23		
				Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist			
							TEST F
1.	Fluoride		IS: 5182 (Part - 13): 1991	µg/m³	20.8		
2.	SO ₃ + Acid n	nist	Titrimetric	µg/m³	17.0		

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

<u>Technical Manager</u>

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fox: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/16 Date: June 08, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 Sampling Location Near Main Gate ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.23 Latitude- N 22.05187, Longitude- E 88.14293 Environmental conditions Date & Time of sampling : 25.05.2023 (09:40 A.M.)-26.05.2023 (09:40 A.M.) Temperature : Max: 40.0°C & Min: 28.0°C Sampling Plan: : RVB/FM/44 Barometric Presure: 755 mmHg Duration of Sampling : 24Hrs Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3, Analysis Completed on : 08.06.2023 CO, Pb, Ni, As, CaHa, BaP TEST FINDINGS:-**Parameters** Test Method Unit Results Norms as NAAQ, 2009 No. (Time Weighted Avg.) USEPA 1997a 40 CFR PM_{2.5} | Size ≤ 2.5µm) ha/w₃ 52.1 60 (24 Hourly.) Part 50, Appendix I 2 PM₁₀ (Size ≤ 10µm) IS 5182 (Part - 23): 2006 µg/m³ 85.4 100 (24 Hourly.) 3 Sulphur Dioxide as SOs IS 5182 (Part - 2): 2001 µg/m³ 5.1 80 (24 Hourly.)

µg/m³

hd/m_g

ma/m₃

mg/m3

µg/m³

ng/m3

ng/m

242

15.9

12.2

1.01

0.085

8.60

< 0.5

80 (24 Hourly.)

180 (1 Hourly.)

400 (24 Hourly.)

04 (1 Hourly.)

1.0 (24 Haurly.)

20

1.0

SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04. ng/m3 0.38Issue Date: 10.01.2018 6.0 Benzene as C₆H₆ IS 5182 (Part - 11): 2006, µg/m² 1.50 5.0 12. Benzo (a) Pyrene IS 5182 (Part - 12): 2004,

IS 5182 (Part - 6): 2006

IS 5182 (Part - 9): 1974

SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue

No. 04, Issue Date: 10.01,2018

\$: 5182 (Part - 10), 1999 Non Dispersive Infra-Red

(NDIR) spectroscopy

IS 5182 (Part - 22): 2004

SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04,

Issue Date: 10.01.2018

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene; 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³ -: END OF TEST REPORT :-

Report Verified by

Nitrogen Dioxide as NO₂

Carbon Monoxide as CO

Ozone as O.

Lead as Ph

Nickel as Ni

10. Arsenic as As

Ammonia as NH2

4.

5

6.

8

11.

S. Mondal

Technical Manager

Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

WW. 1.100 1.100 1.100 1.100	/23-24/IIPL/16	Date: June 08, 2023		Page 2 of		
ssued to Address	20.7	M/S. INDORAMA INDIA PRIVATE LIMITED O: Durgachak, Haldia, District: Purba Midn				
P.O. No. : 47000 Sample Description : Ambi Sampling Location : Near Latitud Date & Time of sampling : 25.05		700019752, dtd. 08.05.2023 Imblent Air Jear Main Gate	Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.3			
		atitude- N 22.06187, Longitude- E 88,14293 5.05.2023 (09:40 A.M.)-26.05.2023 (09:40 A.M.) RVB/FM/44	Environmental conditions Temperature: Max: 40.0°C & Min: 28 Barometric Presure: 755 mmHg			
Duration of Sampling Analysis Completed on		24Hrs. 08.06.2023	Parameters Tested: Fluoride & SO ₂ + Acid mist			
TEST FINDIN St. No.	IGS:• Parameters	Test Method	Unit	Results (Time Weighted Avg.)		
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	25.0		
2. Se	O ₃ + Acid mist	Titrimetric	ha/w ₃	20.4		

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) <u>Technical Manager</u> Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.



No. AP-AAQ/23-24/IIPL/15

TEST FINDINGS:-

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

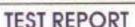
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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail:rvbriggs.kolkata@gmail.com, Website:www.rvbriggs.com

CIN: U51109WB1931PTC007007



Page 1 of 1 Date: June 08, 2023

Environmental conditions

: M/S. INDORAMA INDIA PRIVATE LIMITED Issued to

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address

Equipment used: P.O. No. : 4700019752, dtd. 08.05.2023

ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 Sample Description : Ambient Air

ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03 11 23 : ATO # 1 Sampling Location

Latitude- N 22.06499, Longitude- E 88.14235

Temperature: Max: 40.0°C & Min: 28.0°C : 25.05.2023 (10:30 A.M.)-26.05.2023 (10:30 A.M.)

Date & Time of sampling

Barometric Presure: 755 mmHg : RVB/FM/44 Sampling Plan:

Parameters Tested: PM25, PM16, SO2, NO2, O3, NH3, : 24Hrs. **Duration of Sampling**

CO, Pb, Ni, As, CeHe, BaP : 08.06.2023 Analysis Completed on

SI.	Parameters	Test Method	Unit	Results	Norms as NAAQ,2009
No.				(Time Weighted Avg.)	
. 0	M (Size < 2.5um)	USEPA 1997a,40 CFR	un/m ³	32.5	60 (24 Hourly.)

				4.0	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	32.5	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	61.3	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4,9	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	25.3	80 (24 Hourly.)
5.	Ozone as O ₃	(S 5182 (Part - 9) : 1974	µg/m³	17.6	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenal Method) Issue No. 04, Issue Date: 10.01.2018	ha _l w ₃	13.5	400 (24 Hourly)
7,	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.90	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.078	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. ()4, Issue Date: 10.01.2018	ng/m ³	8,70	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Cate: 10.01.2018	ng/m ²	0.50	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1,29	5.0
_			The second secon		

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

IS 5182 (Part - 12): 2004,

.: END OF TEST REPORT :-

(monday Report Verified by S. Mondal

12. Benzo (a) Pyrene

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

< 0.5

ng/m

1.0

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CIN: U51109WB1931PTC007007

TEST REPORT

23-24/IIPL/1	Date, Julie up. 2023		Poor 7
	: M/S. INDORAMA INDIA PRIVATE LIMITED		
tion	: 4700019752, dtd. 08.05.2023 : Ambient Air : ATO # 1	Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM480/8L/01, Cal. Valid upto: 03.11.2 Environmental conditions Temperature: Max: 40.0°C & Min. 28.0°C Barometric Presure: 755 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist	
	: 25.05.2023 (10:30 A.M.)-26.05.2023 (10:30 A.M.) : RVB/FM/44		
eted on			
rameters	Test Method	Unit	Results (Time Weighted Avg.)
luoride	IS: 5182 (Part - 13): 1991	nā _j m ₃	31.3
Acid mist	Titrimetric	µg/m³	27.2
	tion ion sampling pling sted on S:- rameters	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnal : 4700019752, dtd. 08.05.2023 filon : Ambient Air ion : ATO # 1	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 72: : 4700019752, ctd. 08.05.2023

-: END OF TEST REPORT :-

S. Mondal

Report Verified by

S. Mondal

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website; www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/05 Date: May 08, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23 Sampling Location : Priyambada Housing Complex ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.23 Latitude- N 22.51202, Longitude- E 88.51512 Environmental conditions Date & Time of sampling 24.04.2023 (09:40 A.M.)-25.04.2023 (09:40 A.M.) Temperature: Max: 40.0°C & Min: 28.0°C Sampling Plan : RVB/FM/44 Barometric Presure: 756 mmHg Duration of Sampling : 24Hrs. Parameters Tested: PM23. PM10. SO2, NO2, O3, NH3. Analysis Completed on : 08.05.2023 CO, Pb, Ni, As, CeHe, BaP TEST FINDINGS:-SL Parameters Test Method Unit Results Norms as NAAQ,2009 No. (Time Weighted Avg.) USEPA 1997a.40 CFR PM_{2.5} (Size ≤ 2.5µm) µg/m³ 36.7 60 (24 Hourly.) Part 50, Appendix L PM₁₀ (Size ≤ 10µm) IS 5182 (Part - 23): 2006 ma/w₃ 61.1 100 (24 Hourly.) Sulphur Dioxide as SO2 IS 5182 (Part - 2): 2001 µg/m³ 4.5 80 (24 Hourly.) Nitrogen Dioxide as NO₂ IS 5182 (Part - 6): 2006 µg/m³ 21.8 80 (24 Hourly.) Ozone as O. 5. IS 5182 (Part - 9): 1974 17.2 µg/m³ 180 (1 Hourly.) SCP No.: RVB/SCP/01/10 (Indophenal Method) Issue Ammonia as NHa µg/m³ 12.3 400 (24 Hourly.) No. 04, Issue Date: 10.01.2018

ng/m³ Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 ug/m³ & Benzo(a)Pyrene: 0.5 ng/m³

IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red

(ND(R) spectroscopy

IS 5182 (Part - 22): 2004

SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04.

Issue Data: 10.01.2018 SOP No.: RVB/SOP/01/16 (AAS Method) issue No. 04.

Issue Data: 10.01.2018

IS 5182 (Part - 11): 2006.

IS 5182 (Part - 12): 2004,

.: END OF TEST REPORT :-

mg/m3

µg/m3

ng/m3

ng/m³

µg/m³

0.87

0.037

7.40

< 0.25

<1.0

< 0.5

3-monda Report Verified by S. Mondal

Carbon Monoxide as CO

Lead as Pb

Nickel as Ni

10. Arsenic as As

Benzene as C₆H₆

12. Benzo (a) Pyrene

8.

11

(Dr. R. KARIM Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

04 (1 Hourly.)

1.0 (24 Hourly.)

20

6.0

5.0

1.0

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued t Address		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midr	Page 2 o	
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling		: 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex Latitude- N 22.51202, Longitude- E 88.51512 : 24.04.2023 (09:40 A.M.)-25.04.2023 (09:40 A.M.) : RVB/FM/44 : 24Hrs.	Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 30.08.23: ID No.: RVB/RDS/APM460/BL/01, Cal. Valid upto: 03.11.2: Environmental conditions Temperature: Max: 40.0°C & Min: 28.0°C Barometric Presure: 756 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist	
		: 08.05,2023		
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	14.6
2.	SO ₃ + Acid mi	st Titrimetric	µg/m³	10.2

.: END OF TEST REPORT :-

S. Monday Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-2	24/IIPL/30	Date: August 04, 2000	
Inches Art		Date: August 04, 2023	Page 1 of 1
Issued to	· M/S INDO	PAMA INDIA DRIVATE LIMITED	Page 1 of 1

MA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Priyambada Housing Complex

Latitude- 22.40235, Longitude- 88.48513

Date & Time of sampling : 27.07.2023 (11:45 A.M.)-28.07.2023 (11:45 A.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 04.08.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23

ID No.: RVB/RDS/APM460/BL/03, Cal. Valid upto: 05.11.23

Environmental conditions

Temperature : Max: 36.0°C & Min: 25.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

CO, Pb. Ni, As. C.H., BaP.

_	ST FINDINGS:-				
SI. No.		Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	μg/m³	32.5	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	47.6	100 (24 Hourly.)
3,	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m ³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	18.7	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	18.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOPI01/10 (Indephenel Method) issue No. 04, Issue Date: 10.01.2018	µg/m³	14.2	400 (24 Hourly.)
7-	Carbon Monoxide as CO	IS::5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.56	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.021	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) issue No. 04, issue Date: 10.01.2018	ng/m ³	<5.0	20
	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	5.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
_	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

.: END OF TEST REPORT :-

S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/2	23-24/IIPL/3	Date: August 04, 2	2023	Page 2 of	
Issued to Address		: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba Mi	D		
P.O. No. : 4700019752, dtd. 08.05.2023 Sample Description : Ambient Air Sampling Location : Priyambada Housing Complex		Equipment used: ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23 ID No.: RVB/RDS/APM480/BL/03, Cal. Valid upto: 05.11.2.			
		Time of sampling : 27.07.2023 (11:45 A.M.)-28.07.2023 (11:45 A.M.) ing Plan : RVB/FM/45		Environmental conditions Temperature : Max: 36.0°C & Min: 25.0°C Barometric Presure : 750 mmHg	
			Parameters Tested: Fluoride & SO ₃ + Acid mist		
	rameters	Test Method	Unit	Results (Time Weighted Avg.)	
1. F	Fluoride	IS: 5182 (Part - 13): 1991	hð _{/m³}	6.3	

-: END OF TEST REPORT :-

Titrimetric

Report Verified by S. Mondal

SO₃ + Acid mist

2.

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

12.5

µg/m²



No. AP-AAQ/23-24/IIPL/31

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

9, BENTINCK STREET, KOLKATA - 700 001

Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN: U51109WB1931PTC007007



Date: August 04, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. 4700019752, dtd. 08.05.2023 Equipment

Sample Description : Ambient Air

Sampling Location Durgachak E Block

Latitude- 22.40185, Longitude- 88.48478

Date & Time of sampling : 27.07.2023 (11:30 A.M.)-28.07.2023 (11:30 A.M.)

Sampling Plan : : RVB/FM/45
Duration of Sampling : 24Hrs.

Analysis Completed on : 04.08.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/NL/01, Cal. Valid upto: 05.11.23

Environmental conditions

Temperature : Max: 36.0°C & Min: 25.0°C

Barometric Presure : 750 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CoHo, BaP

TE	ST FINDINGS:-		7 (44 - 41 45) ng. 241			
SI. No	The second of th	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009	
1.	PM _{2.5} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m ³	35.8	60 (24 Hourly.)	
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	53.4	100 (24 Hourly.)	
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)	
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m ³	20.7	80 (24 Hourly.)	
5.	Ozone as O ₃	IS 5182 (Part - 9): 1974	µg/m³	18.2	180 (1 Hourly.)	
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Induplienci Method) issue No. 04, Issue Date: 10,01,2018	µg/m³	16.6	400 (24 Hourly.)	
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.94	04 (1 Hourly.)	
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.040	1.0 (24 Hourly.)	
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2016	ng/m ³	<5.0	20	
	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0	
-	Benzene as C ₆ H ₈	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	1300	
-	Benzo (a) Pyrene	IS 5182 (Part + 12): 2004,	ng/m ³	<0.5	1.0	
amin	num detection Limit Michael & ante		- 2	27939	1.17	

Minimum detection Limit: Nicket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

.: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)
Technical Manager
Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

Address	: M/S : PO	Date: August 04, 20 INDORAMA INDIA PRIVATE LIMITED Durgachak, Haldia, Dietrict: Burba Med)	Page 2 of	
Sample Description : Amb Sampling Location : Durg Letitud Date & Time of sampling : 27.07. Sampling Plan : RVB/		Durgachak, Haldia, District : Purba Mid 0019752, dtd. 08.05.2023 ient Air lachak E Block	napore, West Bengal 721 602 Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/NL/01, Cal. Valid upto: 05.11.2		
		ig Plan : RVB/FM/45		mental conditions Max: 36.0°C & Min: 25.0°C C Presure: 750 mmHg	
Analysis Comple	led on : 04.08	3.2023	Parameters Tested: Fluoride & SO ₃ + Acid mist		
SI. Par	rameters	Test Method	Unit	Results (Time Weighted Avg.)	
1. FI	uoride	IS: 5182 (Part - 13): 1991	µg/m³	10.4	
SO ₃ + Acid mist		Titrimetric	µg/m³	18.8	

.: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/32 Date: August 04, 2023 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Page 1 of 1

Address

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No.

: 4700019752, dtd. 08.05.2023 Sample Description

: Ambient Air Sampling Location : A.T.O # 1

Lattude- 22.347722, Longitude- 88.14661

Date & Time of sampling : 26.07.2023 (11:20 A.M.)-27.07.2023 (11:20 A.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

TEST CINDINGS.

Analysis Completed on : 04.08.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23

ID No.: RVB/RDS/APM460/BL/03, Cal. Valid upto: 05.11,23

Environmental conditions

Temperature : Max: 35.0°C & Min: 26.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃

CO, Pb, Ni, As, C₆H₆, BaP

SI.	Parameters	7-2-10-20-22			
No.		Test Method	Unit	Results (Time Weighted	Norms as NAAQ,200
	PM / Size < 2.5	LISERA 1007a 40 OFF		Avg.)	
-	PM _{2.5} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	28.3	60 (24 Hourly.)
	PM ₁₀ (Size ≤ 10μm)	IS 5182 (Part - 23): 2006	µg/m³	44.1	100 (24 Hourly.)
_	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m ³	<4.0	
	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	19.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974			80 (24 Hourly.)
6.	Ammonia as NH ₃	SOP No: RVB/SOP/01/10 (Indophenol Method) has se	hg/m ₃	18.5	180 (1 Hourly.)
-		No. 04, Issue Date: 10.01,2018	µg/m³	14.3	400 (24 Hourly.)
-	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDR) spectroscopy	mg/m ³	1.05	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	. 3	2002MH====	acta diction catalog
9.	Nickel as Ni		hg/w ₃	0.045	1.0 (24 Hourly.)
-	MICKEL 93 INI	SOP No.: RVB/SCP/01/15 (AAS Method) issue No. 04, listue Date: 10.01.2018	ng/m ³	<5.0	20
-	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10:01.2018	ng/m³	<0.25	6.0
1.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,			0.0
2. E	Benzo (a) Pyrene		µg/m³	<1.0	5.0
_		IS 5182 (Part - 12): 2004.	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued to Address	: M/S. : PO:	Date: August 04, 2 INDORAMA INDIA PRIVATE LIMITE Durgachak, Haldia, District: Purba Mic	D	Page 2 of	
Sample Description : Ar Sampling Location : A.		019752, dtd. 08,05,2023 ent Air) # 1	Eq ID No.: RVB/AFDS/PM2	1 602 uipment used: .5/13, Cal. Valid upto: 01.08.23 60/BL/03, Cal. Valid upto: 05.11.23	
Date & Time of samp Sampling Plan : Duration of Sampling	: RVB/FM/45		Environ Temperature :	mental conditions Max: 35.0°C & Min: 26.0°C c Presure : 750 mmHg	
Analysis Completed of	(i) 10.0000 D1000		Parameters Tested: Fluoride & SO ₃ + Acid mist		
SI. Parame	eters	Test Method	Unit	Results (Time Weighted Avg.)	
1. Fluori	ide	IS: 5182 (Part - 13); 1991	µg/m³	14.6	
2. SO ₃ + Aci	d mist	Titrimetric	µg/m³	37.6	

.: END OF TEST REPORT :-

Report Verified by S. Mondal

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No. AP-AAQ/23-24/IIPL/33

R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

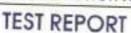
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Date: August 04, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air
Sampling Location : Near Main Gate

Latitude- 22.06499, Longitude- 88.14639

Date & Time of sampling : 26.07.2023 (11:00 A.M.)-27.07.2023 (11:00 A.M.)

Sampling Plan : : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 04.08.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/NL/01, Cal. Valid upto: 05.11.23

Environmental conditions

Temperature : Max: 35.0°C & Min: 27.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CeHe, BaP

SI.	ST FINDINGS:-				
No.	The second secon	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a.40 CFR Part 50, Appendix L.	µg/m³	50.8	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	89.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.4	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 5): 2006	µg/m³	22.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	15.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephene) Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.9	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	1.16	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.035	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOPI01/15 (AAS Method) tissue No. 04, leave Date: 10.01.2018	ng/m ³	8.70	20
223	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nicket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007

TEST REPORT

Addre:		: M/S. INDORAMA INDIA PRIVATE LIMIT	ED	Page 2 of
	Description g Location	: PO : Durgachak, Haldia, District : Purba M : 4700019752, dtd. 08.05.2023 : Ambient Air : Near Main Gate	ID No.: RVB/AFDS/PM2	1 602 sulpment used: .5/11, Cal. Valid upto: 30.08.23 60/NL/01, Cal. Valid upto: 05.11.23
Duration - 10		Latitude- 22.06499, Longitude- 88.14639 : 26.07.2023 (11:00 A.M.)-27.07.2023 (11:00 A.M.) : RVB/FM/45 : 24Hrs.	Temperature :	mental conditions Max: 35.0°C & Min: 27.0°C c Presure : 750 mmHg
	Completed on NDINGS:-	: 04.08.2023	Para	meters Tested: & SO ₃ + Acid mist
SI. Io.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)
I.	Fluoride	IS: 5182 (Part - 13): 1991	hg/m³	12.5
	SO ₃ + Acid mis	. Titrimetric	hō/w ₃	25.0

END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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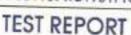
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CIN: U51109WB1931PTC007007





No. AP-AAQ/23-24/IIPL/26

Date: July 25, 2023

Page 1 of 1

issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No.

: 4700019752, dtd. 08.05.2023

Equipment used:

Sample Description

: Ambient Air

ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.23

Sampling Location

Priyambada Housing Complex

ID No.: RVB/RDS/APM460/NL/03, Cal. Valid upto: 05.11.23

Latitude- 22,40235, Longitude- 88,48513.

Environmental conditions

Date & Time of sampling Sampling Plan:

: 14.07.2023 (10.40 A.M.)-15.07.2023 (10:40 A.M.)

Temperature : Max: 34.0°C & Min: 27.0°C

Duration of Sampling

: RVB/FM/45

Barometric Presure: 754 mmHg

: 24Hrs. Analysis Completed on

: 25.07.2023

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C,H,, BaP

		_	
TECT	CIL	III DO	NGS .
(Eat	F 10	41.20	MILES .

SI. No.		Test Method	Unit	Results	Norms as NAAQ,200
-				(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	39.6	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	62.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2005	µg/m³	20.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	18.4	180 (1 Hourly.)
6.	Ammonia as NH ₃	SCP No.: RV8/SCP/01/10 (Indephenal Method) Issue No. 04, Issue Date: 10.01.2018	µg/m ³	14.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.81	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.054	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RV9/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	7.80	20
0.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01,2018	ng/m ³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11); 2006,	µg/m³	<1.0	
-	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	5.0 1.0
inin	num detection Limit: Nicket 5 no/m	America 0.06 and 1.0		0.0	1,0

num detection Limit: Nicket: 5 ng/m³, Arsenic. 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager

Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

PL/26 Date: July 25, 202	3	D	
: M/S. INDORAMA INDIA PRIVATE LIMITED)	Page 2	
: 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex	Equ ID No.: RVB/AFDS/PM2.	ulpment used: 5/12, Cal. Valid upto: 01.08.23 60/NL/03, Cal. Valid upto: 05.11.2	
: 14.07.2023 (10:40 A.M.)-15.07.2023 (10:40 A.M.) : RVB/FM/45	Environmental conditions Temperature: Max: 34.0°C & Min: 27.0°C Barometric Presure: 754 mmHg Parameters Tested: Fluoride & SO ₃ + Acld mist		
25.07.2023			
s Test Method	Unit	Results (Time Weighted Avg.)	
IS : 5182 (Part - 13) : 1991	µg/m³	12.5	
nist Titrimetric	µg/m³	10.4	
	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Mid : 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex Latitude- 22.40235, Longitude- 88.48513 : 14.07.2023 (10:40 A.M.)-15.07.2023 (10:40 A.M.) : RVB/FM/45 : 24Hrs. : 25.07.2023 Test Method	: MVS. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 72: : 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex Latitude- 22.40235, Longitude- 88.48513 : 14.07.2023 (10:40 A.M.)-15.07.2023 (10:40 A.M.) : RVB/FM/45 : 24Hrs. : 25.07.2023 Test Method Unit IS : 5182 (Part - 13) : 1991 Upg/m³	

.: END OF TEST REPORT :-

Smondal Report Verified by S. Mondal



No. AP-AAQ/23-24/IIPL/27

R. V. BRIGGS & CO. PRIVATE LTD.

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CIN: U51109WB1931PTC007007



Date: July 25, 2023

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Durgachak E Block

Latitude- 22.40185, Longitude- 88.48478

Date & Time of sampling : 14.07.2023 (10.20 A.M.)-15.07.2023 (10.20 A.M.)

: 24Hrs.

Sampling Plan: RVB/FM/45 Duration of Sampling

Analysis Completed on 25.07.2023 Equipment used:

Page 1 of 1

ID No.: RVB/AFDS/PM2:5/11, Cal. Valid upto: 30:08.23

ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature : Max: 34.0°C & Min: 27.0°C

Barometric Presure: 754 mmHa

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO. Pb. Ni, As, CaHa, BaP

TEST FINDINGS:-				, no, ogrig, bar	
SI. No.	- Service Control of C	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	42.9	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	68.9	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6); 2006	µg/m³	21.1	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.4	180 (1 Hourly.)
6.	Ammonia as NH ₃	SCP No.: #VBISOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.97	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.060	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RV9/SOP/01/15 (AAS Method) Issue No. (4, leave Date: 10.01.2018	ng/m ³	10.20	20
	Arsenic as As	SOP No.: RVB/SOPI01/16 (AAS Method) Issue No. 04, Issue Date: 10:01.2018	ng/m³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2008,	μg/m³	<1.0	
_	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004.	ng/m ³	<0.5	5.0
inin	turn detection Limit: Nickel: 5 no/ex	Arsenic: 0.25 poim ³ Reserved 4 - 1.34 m	- igritt	-0.0	1.0

cket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

Issued to Address	: M/S. : PO :	Date: July 25, 202 INDORAMA INDIA PRIVATE LIMITEI Durgachak, Haldia, Dietrict: Durba Michael	1	Page 2 of
P.O. No. Sample Description Sampling Location	ample Description : Ambient Air ampling Location : Durgachak E Block Latitude- 22.40185, Longitude- 88.48478 ate & Time of sampling : 14.07.2023 (10:20 A.M.)-15.07.2023 (10:20 A.M.) ampling Plan : RVB/FM/45		Equipment used: ID No.: RVB/AFDS/PMZ.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.2	
Date & Time of sampli Sampling Plan : Duration of Sampling			Environmental conditions Temperature: Max: 34.0°C & Min: 27.0°C Barometric Presure: 754 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist	
Analysis Completed on : 25.07.2023				
SI. Paramet No.	ers	Test Method	Unit	Results (Time Weighted Avg.)
1. Fluorid	е	IS: 5182 (Part - 13): 1991	µg/m³	8.3
2. SO ₃ + Acid mist		Titrimetric	₽8/ш3	13.9

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/28 Date: July 25, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used: Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.23. Sampling Location : A.T.O#1 D No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23 Latitude- 22.347722, Longitude- 88.14661 Environmental conditions Date & Time of sampling : 13.07.2023 (09:50 A.M.)-14.07.2023 (09:50 A.M.) Temperature: Max: 34.0°C & Min: 27.0°C

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

TEST FINDINGS:-

Lead as Ph

Nickel as Ni

10. Arsenic as As

11. Benzene as C₈H₈

12. Benzo (a) Pyrene

Analysis Completed on : 25.07.2023 Barometric Presure: 753 mmHq.

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH1.

CO, Pb, Ni, As, CeHe, BaP

µg/m³

ng/m3

ng/m3

µg/m³

0.074

< 5.0

< 0.25

<1.0

< 0.5

SI. No.		Test Method	Unit	Results (Time Weighted	Norms as NAAQ,2009
-		1100001 1200		Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	50.4	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	82.4	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6); 2006	µg/m³	23.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	17.7	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenal Mathod) Issue No. 04, Issue Date: 10.01.2016	µg/m³	12.0	400 (24 Hourly.)
7.	Carbon Monoxide as CO	(S : 5162 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	1.09	04 (1 Hourly.)

ng/m3 Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

IS 5182 (Part - 22): 2004

SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04,

Issue Date: 10.01.2018 SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04,

Issue Date: 10.01.2018

IS 5182 (Part - 11): 2006.

IS 5182 (Part - 12): 2004.

-: END OF TEST REPORT :-

Imondal Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

1.0 (24 Hourly.)

20

6.0

5.0

1.0

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CIN: U51109WB1931PTC007007

TEST REPORT

24/IIPL/28	Date: July 25, 202	23	D 6		
: M/S. II : PO : D	NDORAMA INDIA PRIVATE LIMITE	D	Page 2 c		
### 2. No. : 4700019752, dtd. 08.05.2023 ##################################		Equ ID No.: RVB/AFDS/PM2.	Equipment used: ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.23 ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.2 Environmental conditions Temperature: Max: 34.0°C & Min: 27.0°C Barometric Presure: 753 mmHg		
		Environ Temperature : N			
on : 25.07.2	023	Parameters Tested: Fluoride & SO ₃ + Acid mist			
	Test Method	Unit	Results (Time Weighted Avg.)		
pride	IS: 5182 (Part - 13): 1991	μg/m³	25.0		
cid mist	Titrimetric	µg/m³	20.8		
	: M/S. I/ : PO : D : 470001 : Ambier : A.T.O : Latitude- ripling : 13.07.20 : RVB/FI	: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba Mid : 4700019752, dtd. 08.05.2023 : Ambient Air : A.T.O # 1 Latitude- 22.347722, Longitude- 88.14661 inpling : 13.07.2023 (09:50 A.M.)-14.07.2023 (09:50 A.M.) : RVB/FM/45 ig : 24Hrs. if on : 25.07.2023 meters	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 : 4700019752, dtd. 08.05.2023 : Ambient Air : A.T.O # 1 Latitude- 22.347722, Longitude- 88.14661 : RVB/RDS/APIM46 Inpling : 13.07.2023 (09:50 A.M.) - 14.07.2023 (09:50 A.M.) : RVB/FM/45 : Barometric : Parar fon : 25.07.2023 Test Method Unit		

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007



Equipment used:

Environmental conditions

Temperature: Max: 34.0°C & Min: 27.0°C

TEST REPORT

No. AP-AAQ/23-24/IIPL/29 Date: July 25, 2023 Page 1 of 1 Issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No.

: 4700019752, dtd. 08.05.2023 Sample Description : Ambient Air

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 Sampling Location Near Main Gate ID No.: RVB/RDS/APM460/NL/03, Cal. Valid upto: 05.11.23

Latitude- 22.06499, Longitude- 88.14639

Date & Time of sampling : 13.07.2023 (09:30 A.M.)-14.07.2023 (09:30 A.M.)

Sampling Plan: : RVB/FM/45

Analysis Completed on

Barometric Presure: 753 mmHg Duration of Sampling : 24Hrs. Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

: 25.07.2023 CO, Pb, Ni, As, CoHo, BaP

_	ST FINDINGS:-				
SI. No.	11 20 20 20 20 20 20 20	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	46.3	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	77.8	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.2	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 5): 2006	µg/m³	22.2	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	16.1	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephenol Method) Issue No. 04, base Date: 10.01.2018	μg/m ³	14.4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	1.01	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.063	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	8.70	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit. Nicket. 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m² & Benzo(a)Pyrene: 0.5 ng/m

-: END OF TEST REPORT :-

Smondal Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007

TEST REPORT

-AAQ/23-24/IIPL			P 2	
ss .	: M/S. INDORAMA INDIA PRIVATE LIMITED		Page 2 0	
2. No. : 4700019752, dtd. 08.05.2023 mple Description : Ambient Air mpling Location : Near Main Gate		Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23 ID No.: RVB/RDS/APM460/NL/03, Cal. Valid upto: 05.11.		
Time of sampling g Plan :	: 13.07.2023 (09:30 A.M.)-14.07.2023 (09:30 A.M.) : RVB/FM/45	Environmental conditions Temperature: Max: 34.0°C & Min: 27.0°C Barometric Presure: 753 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist		
Completed on	: 25.07.2023			
Parameters	Test Method	Unit	Results (Time Weighted Avg.)	
Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	16.7	
SO ₃ + Acid mis	t Titrimetric	hã/m³	17.4	
1 5	to is Description g Location Time of sampling g Plan : of Sampling Completed on NDINGS:- Parameters	to : M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midn. : 4700019752, dtd. 08.05.2023 Description : Ambient Air g Location : Near Main Gate	to : M/S. INDORAMA INDIA PRIVATE LIMITED S : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 72 : 4700019752, dtd. 08.05.2023 : Ambient Air g Location : Near Main Gate	

-: END OF TEST REPORT :-

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/22 Date: July 06, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Priyambada Housing Complex

Latitude- 22 40235, Longitude- 88 48513

Date & Time of sampling : 28.06.2023 (01:00 P.M.)-29.06.2023 (01:00 P.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 06.07.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23

ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.23

Environmental conditions

Temperature: Max: 33.0°C & Min: 27.0°C

Barometric Presure: 754 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CoHe, BaP

TEST FINDINGS:-

SI. No.		Test Method	Unit	Results (Time Weighted	Norms as NAAQ,2005
1.	PM _{2.6} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	Avg.) 35.8	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	57	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2); 2001	µg/m³	4.5	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m ³	22.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9): 1974	µg/m³	19.2	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.77	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.069	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, issue Cate: 10.01.2018	ng/m ³	<5.0	20
	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ Issued to Address	#23-24/IIPL	22 Date: July 06, 202 : M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midr)	Page 2 o		
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling Analysis Completed on TEST FINDINGS:-		lo. : 4700019752, dtd. 08.05.2023 le Description : Ambient Air ling Location : Priyambada Housing Complex Latitude- 22.40235, Longitude- 88.48513 la Time of sampling : 28.06.2023 (01:00 P.M.)-29.06.2023 (01:00 P.M.) ling Plan : RVB/FM/45		Equipment used: ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.23 ID No.: RVB/RDS/APM460/NL/04, Cal. Valid upto: 16.07.2 Environmental conditions Temperature: Max: 33.0°C & Min: 27.0°C Barometric Presure: 754 mmHg		
			Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	8.3		
2. SO ₃ + Acid mis		SO ₃ + Acid mist Titrimetric		10.0		

-: END OF TEST REPORT :-

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No. AP-AAQ/23-24/IIPL/23

R. V. BRIGGS & CO. PRIVATE LTD.

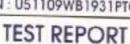
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CIN: U51109WB1931PTC007007



Date: July 06, 2023 : M/S. INDORAMA INDIA PRIVATE LIMITED

Issued to Address

: PO: Durgachak, Haldia, District: Purba Midnapore, West Bengal 721 602 P.O. No.

: 4700019752, dtd. 08.05.2023 Sample Description : Ambient Air

Sampling Location

; Durgachak E Block

Latitude- 22 40185, Longitude- 88 48478

Date & Time of sampling : 28.06.2023 (12:00 P.M.)-29.06.2023 (12:00 P.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 06.07.2023 Equipment used:

Page 1 of 1

ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 30.08.23

ID No.: RVB/RDS/APM460/BL/15, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 38.0°C & Min: 28.0°C

Barometric Presure: 754 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb. Ni, As, C₆H₆, BaP

TEST FINDINGS:-

SI, No.		Test Method	Unit	Results (Time Weighted	Norms as NAAQ,2005
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	Avg.) 40.8	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	67.9	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	5.4	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	25.0	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9): 1974	µg/m³	18.3	180 (1 Hourly.)
6.	Ammonia as NH ₃	SCP No.: RVB/SCP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	15.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	0.86	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.075	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) issue No. 04, issue Date: 10.01.2018	ng/m ³	<5.0	20 (24 Hourly.)
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	
-	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	5.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m²

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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Phone : (033) 4044-3380/3381/3382 / 3383, Fax : 33 2248-0447 E-mail : rvbriggs.kolkata@gmail.com, Website : www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/2	the state of the s	Date: July 06, 202		Page 2 o		
Issued to Address		: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No. Sample Description Sampling Location		Description : 4700019752, dtd. 08.05.2023 : Ambient Air		ipment used: 5/11, Cal. Valid upto: 30.08.23 0/BL/15, Cal. Valid upto: 03.11.23		
Sampling Plan:	Latitude- 22.40185, Longitude- 88.48478 § Time of sampling : 28.06.2023 (12:00 P.M.)-29.06.2023 (12:00 P.M.) Ing Plan : RVB/FM/45		Environmental conditions Temperature : Max: 38.0°C & Mh: 28.0°C Barometric Presure : 754 mmHg			
Duration of Samp Analysis Comple TEST FINDINGS	eted on : 0	4Hrs. 6.07.2023	Parameters Tested: Fluoride & SO ₃ + Acid mist			
	rameters	Test Method	Unit	Results (Time Weighted Avg.)		
1. F	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	12.5		
2. SO ₃ -	+ Acid mist	Titrimetric	µg/m³	13.3		

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/43 Date: September 18, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08 05 2023 Equipment used:

Sample Description : Ambient Air ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 01.08.24

Sampling Location : Durgachak E Block ID No.: RVB/RDS/APM460/04, Cal. Valid upto: 25.11.23

Latitude- 22.40185, Longitude- 88.48478

Date & Time of sampling : 12.09.2023 (10:00 A.M.)-13.09.2023 (10:00 A.M.) Temperature : Max: 32.0°C & Min: 27.0°C

Sampling Plan : RVB/FM/45 Barometric Presure : 750 mmHg

Duration of Sampling : 24Hrs. Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

Analysis Completed on : 18.09.2023 CO, Pb, Ni. As, CeHe, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2005
1,	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR. Part 50, Appendix L.	µg/m³	25.8	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	39.6	100 (24 Hourly.)
3	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	18.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) ; 1974	µg/m³	14.9	180 (1 Hourly.)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.2	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m³	0.83	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.091	1.0 (24 Hourly.)
9.	Nickel as Ni	SDP No.: RV8/SQP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	5.80	20
10.	Arsenic as As	SOP No.: RVB/SCP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11.	Benzene as C ₆ H ₈	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nicket: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

Report Verified by

S. mondal

S. Mondal

(Dr. R. KARIM)

Environmental conditions

Technical Manager
Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.



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CIN: U51109WB1931PTC007007

TEST REPORT

No. Al	P-AAQ/23-24/IIPL/ d to	43 Date: Septembe : M/S. INDORAMA INDIA PRIVATE LII	AND THE PROPERTY OF THE PROPER	Page 2 of
Addre	95	: PO : Durgachak, Haldia, District : Purb	a Midnapore, West Bengal 721	602
P.O. No.		: 4700019752, dtd. 08.05.2023	and the second s	pment used:
Sampling Location : Du Lati Date & Time of sampling : 12.0 Sampling Plan : : RV Duration of Sampling : 24		Durgachak E Block		711, Cal. Valid upto: 01.08.24 0/04, Cal. Valid upto: 25.11.23
		Latitude: 22.40185, Longitude: 88.48478 : 12.09.2023 (10:00 A.M.)-13.09.2023 (10:00 A.I : RVB/FM/45	M.) Temperature : M	nental conditions fax: 32.0°C & Min: 27.0°C Presure: 750 mmHg
		: 24Hrs. : 18.09.2023	30000000	Parameters Tested: Fluoride & SO ₃ + Acid mist
	FINDINGS:-			
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)
1.	Fluoride	IS : 5182 (Part - 13) : 199	1 µg/m³	8.6
2.	SO ₃ + Acid m	ist Titrimetric	µg/m³	18.3

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/41 Date: September 06, 2023

Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Near Main Gate

Latitude- 22.08499, Longitude- 88.14639

Date & Time of sampling : 29.08.2023 (10:20 A.M.)-30.08.2023 (10:20 A.M.)

ampling Plan : : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 06.09.2023

Equipment used:

D No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.24

D No.: RVB/RDS/APM460/BL/16, Cal. Valid upto: 03.11.23.

Environmental conditions

Temperature: Max: 34.0°C & Min: 28.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CaHa, BaP

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SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2005
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	37.9	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	66.6	100 (24 Hourly.)
3	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.6	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	22.6	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	16.5	180 (1 Hourly.)
3	Ammonia as NH ₃	SOP No.: RVB/SCP/01/10 (Indophenoi Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	10.5	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Rad (NDIR) spectroscopy	mg/m ³	0.94	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.054	1.0 (24 Hourly.)
9,	Nickel as Ni	SOP No.: RVB/SCP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	6.10	20
10	Arsenic as As	SOP No.: RVB/SCP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006.	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)
Technical Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP Issued	-AAQ/23-24/IIPL/	41 Date: September : M/S. INDORAMA INDIA PRIVATE LI		Page 2 o			
Addres	7770		PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No. : 4700 Sample Description : Amb Sampling Location : Nea Latitu Date & Time of sampling : 29.08 Sampling Plan : : RVB Duration of Sampling : 24H		Description : Ambient Air Ing Location : Near Main Gate Latitude- 22.06499, Longitude- 88.14639 Time of sampling : 29.08.2023 (10:20 A.M.)-30.08.2023 (10:20 A.M.)		Equipment used: ID No.: RVB/AFDS/PM2.5/13, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/BL/16, Cal. Valid upto: 03.11.2 Environmental conditions Temperature: Max: 34.0°C & Min: 28.0°C Barometric Presure: 750 mmHg			
							: 24Hrs. : 06.09.2023
		SI. No.	INDINGS:- Parameters	Test Method	Unit	Results (Time Weighted Avg.	
1.	Fluoride	IS : 5182 (Part - 13) : 199	1 µg/m³	10.8			
2.	SO ₃ + Acid m	ist Titrimetric	ha)w ₃	23.8			

-: END OF TEST REPORT :-

Report Verified by S. Mondal



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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/40 Date: September 06, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

24Hrs.

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

4700019752, dtd. 08.05.2023 P.O. No. Equipment used:

ID No.: RVB/AFDS/PM2.5/09, Cal. Valid upto: 17.06.24 Sample Description : Ambient Air

ATO#1 ID No.: RVB/RDS/APM460/BL/14, Cal. Valid upto: 03.11.23 Sampling Location

Latitude- 22.347722, Longitude- 88.14661

Temperature: Max: 34.0°C & Min: 28.0°C 29.08.2023 (10:40 A.M.)-30.08.2023 (10:40 A.M.) Date & Time of sampling

Barometric Presure: 750 mmHg Jampling Plan: RVB/FM/45 Parameters Tested: PM25, PM10, SO2, NO2, O3, NH5

Duration of Sampling CO, Pb, Ni, As, CeHe, BaP Analysis Completed on : 06.09.2023

TEST FINDINGS.

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1,	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	35.8	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23); 2006	µg/m³	62	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.1	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	23.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	14.7	180 (1 Hourly.)
3	Ammonia as NH ₃	SOP No.: RV6/SCP/01/10 (Indophenal Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	10.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Intra-Red (NDIR) spectroscopy	mg/m ³	0.96	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.067	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) issue No. 04, issue Date: 10.01.2018	ng/m ³	6.20	20
10,	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Data: 10.01.2018	ng/m ³	<0,25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

Report Verified by S. Mondal

Technical Manager

Environmental conditions

Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109W81931PTC007007

TEST REPORT

Issued Addres		: M/S. INDORAMA INDIA PRIVATE LIM : PO : Durgachak, Haldia, District : Purb	MITED	Page 2 of
Sample Description : Ami Sampling Location : A.T Latit Date & Time of sampling : 29.0		Description : Ambient Air g Location : A.T.O # 1		pment used: 09, Cal. Valid upto: 17.06.24 vBL/14, Cal. Valid upto: 03.11.23
				Environmental conditions Temperature: Max: 34.0°C & Min: 28.0°C Barometric Presure: 750 mmHg
Duration Analysis	of Sampling Completed on	: 24Hrs. : 06.09.2023		neters Tested: & SO ₃ + Acid mist
SI. No.	NDINGS:- Parameters	Test Method	Unit	Results (Time Weighted Avg.
1.	Fluoride	IS: 5182 (Part - 13): 199	1 µg/m³	12.7
2.	SO ₃ + Acid m	st Titrimetric	hā/w ₃	36.3

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

Technical Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

Date: September 06, 2023 Page 1 of 1 No. AP-AAQ/23-24/IIPL/39

: M/S. INDORAMA INDIA PRIVATE LIMITED Issued to

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address

4700019752, dtd. 08.05.2023 P.O. No.

: Ambient Air Sample Description

: Durgachak E Block Sampling Location

Latitude- 22.40185, Longitude- 88.48478

: 24.08.2023 (10:00 A.M.)-25.08.2023 (10:00 A.M.) Date & Time of sampling

: RVB/FM/45 sampling Plan:

Duration of Sampling : 24Hrs.

: 06.09.2023 Analysis Completed on

Equipment used:

ID No.: RVB/AFDS/PM2.5/08, Cal. Valid upto: 05.11.23

ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 32.0°C & Min: 28.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

CO, Pb, Ni, As, CeHe, BaP

TEST SIMPLANCE.

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	25.4	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m ³	41.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	μg/m ³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	21.0	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	16,1	180 (1 Hourly.)
3.	Ammonia as NH ₃	SOP No. RVB/SOP/01/10 (Indephene) Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.3	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.78	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.033	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 94, Issue Date: 10.01.2018	ng/m ³	7.30	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	0.37	6.0
11	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	na/m³	< 0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

5. Monde

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24	VIIPL/39	Date: September 06, 2	2023	Page 2 of	
Issued to Address	10 mm	ORAMA INDIA PRIVATE LIMITED pachak, Haldia, District : Purba Midr		602	
P.O. No. : 4700 Sample Description : Ambi Sampling Location : Durgs Latitud		752, dtd. 08.05.2023 Air ak E Block	Equipment used: ID No.: RVB/AFDS/PM2.5/08, Cal. Valid upto: 05.11.23 ID No.: RVB/RDS/APM460/BL/04, Cal. Valid upto: 03.11.23 Environmental conditions Temperature: Max: 32.0°C & Min: 28.0°C Barometric Presure: 750 mmHg		
		.40185, Longitude- 88.48478 (10:00 A.M.)-25.08.2023 (10:00 A.M.) 45			
Duration of Sampling Analysis Completed	; 24Hrs.		Parameters Tested: Fluoride & SO ₃ + Acid mist		
TEST FINDINGS:-					
SI. Paran No.	Parameters Test Method		Unit	Results (Time Weighted Avg.)	
	2000	HELEOGRAPHICA STORE CONTRACTOR STORE S	10.0004		

-: END OF TEST REPORT :-

IS: 5182 (Part - 13): 1991

Titrimetric

Report Verified by S. Mondal

Fluoride

SO₃ + Acid mist

1.

2

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

7.0

14.6

µg/m³

Lug/m³



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/38 Date: September 06, 2023 Page 1 of 1

Issued to : M/S, INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description : Ambient Air ID No.: RVB/AFDS/PM2:5/06, Cal. Valid upto: 01:08:24

Sampling Location Priyambada Housing Complex ID No.: RVB/RDS/APM460/BL/02, Cal. Valid upto: 05.11.23

Latitude- 22 40235, Longitude- 88 48513 Environmental conditions

Date & Time of sampling : 24.08.2023 (10:30 A.M.)-25.08.2023 (10:30 A.M.) Temperature : Max: 32.0°C & Min: 28.0°C

Sampling Plan : RVB/FM/45 Barometric Presure : 750 mmHg

Duration of Sampling : 24Hrs. Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

Analysis Completed on : 06.09.2023 CO, Pb, Ni, As, C₆H₆, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	28.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m ³	48.4	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	19.3	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	15.4	180 (1 Hourly.)
3.	Ammonia as NH ₃	SOP No.: RVB/SOPI01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.1	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5162 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.75	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.044	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.; RV9/SOP/01/15 (AAS Method) issue No. 04, issue Date: 10:01,2018	ng/m ³	8.10	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	0.38	6.0
11	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by

S. Mondal

(Dr. R. KARIM)

Technical Manager
Authorised Signatory
P.V. RPIGGS & CO. (P)

For R.V. BRIGGS & CO. (P) LTD.



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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CIN: U51109WB1931PTC007007

TEST REPORT

-	AAQ/23-24/IIPL/		Date: September 06, 2 DIA PRIVATE LIMITED	NOTE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	Page 2 of	
ssued to Address	100			napore, West Bengal 721 (502	
P.O. No. : 43 Sample Description : A		: 4700019752, dtd. 08.05.2023 : Ambient Air		Equipment used: ID No.: RVB/AFDS/PM2.5/06, Cal. Valid upto: 01.08.24		
					VBL/02, Cal. Valid upto: 05.11.23	
Date & Ti	ime of sampling	Latitude- 22.40235, Longit : 24.08.2023 (10:30 A.M.)-2 : RVB/FM/45		Temperature : M	nental conditions ax: 32.0°C & Min: 28.0°C Presure: 750 mmHg	
Duration of Sampling		; 24Hrs. ; 06.09,2023		Parameters Tested: Fluoride & SO ₃ + Acid mist		
TEST FIN	NDINGS:-				05	
SI. No.	Parameters	T	est Method	Unit	Results (Time Weighted Avg.	
1.	Fluoride	IS : 518	32 (Part - 13) : 1991	μg/m³	8.2	
2.	SO ₃ + Acid m	st	Titrimetric	µg/m³	11.4	

-: END OF TEST REPORT :-

Report Verified by S. Mondal



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/	37 Date: August 29, 20	23 Page 1 of 1
Issued to Address	: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba M	
P.O. No. Sample Description Sampling Location	: 4700019752, dtd. 08.05.2023 : Ambient Air : Near Main Gate	Equipment used: ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/BL/14, Cal. Valid upto: 03.11.23
Oate & Time of sampling	Latitude- 22.06499, Longitude- 88.14639 : 11.08.2023 (10:00 A.M.)-12.08.2023 (10:00 A.M.) : RVB/FM/45	Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 750 mmHg
Duration of Sampling Analysis Completed on	: 24Hrs. : 29.08.2023	$ \begin{array}{lll} \hline \textbf{Parameters Tested:} & PM_{2.5}, PM_{10}, SO_2, NO_2, O_3, NH_3, \\ CO.Pb.Ni.As.G_6H_6, BaP \end{array} $

TERT	21	ALC: U	ucc.
LEST.	₽ -11	NH HI	NGS:

SI. No.	T FINDINGS:- Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.6} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	30.4	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	48.5	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	4.2	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	(S 5182 (Part - 6): 2006	µg/m³	19.9	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9): 1974	µg/m³	14.3	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVBrSOP/01/10 (Indophenal Method) Issue No. 04, Issue Date: 10,01.2018	µg/m³	9.0	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDR) spectroscopy	mg/m ³	0.97	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.034	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2015	ng/m ³	0.36	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.35	5.0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m³	<0.5	1.0

Minimum detection Limit: Nickel: 5 rg/m³, Arsenic: 0.25 rg/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 rg/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM) Technical Manager

Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

no. AP Issued Addres	1879	: M/S. INDORAMA INDIA PRI	August 29, 2023 VATE LIMITED rict : Purba Midnapore, West Bengal 721	Page 2 of		
Sample Description : Sampling Location : Date & Time of sampling : Sampling Plan : Duration of Sampling : Analysis Completed on :		: 4700019752, dtd. 08.05.2023 : Ambient Air : Near Main Gate	ID No.: RVB/AFDS/PM2.5/	Equipment used: ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/BL/14, Cal. Valid upto: 03.11.23		
		Latitude- 22.06499, Longitude- 88.1 : 11.08,2023 (10:00 A.M.)-12.08.2023 : RVB/FM/45	3 (10:00 A.M.) Temperature : M	Environmental conditions Temperature: Max: 32.0°C & Min: 26.8°C Barometric Presure: 750 mmHg Parameters Tested: Fluoride & SO ₃ + Acid mist		
		: 24Hrs. : 29.08.2023	1000000			
SI. No.	Parameters	Test Med	thod Unit	Results (Time Weighted Avg.		
1.	Fluoride	IS : 5182 (Part-	- 13) : 1991	7.6		
2.	SO ₂ + Acid m	ist Titrime	rtric µg/m ³	21.4		

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

(Dr. R. KARIM)

Technical Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-AAQ/23-24/IIPL/36 Date: August 29, 2023 Page 1 of 1 Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 P.O. No. 4700019752, dtd, 08.05.2023 Equipment used: Sample Description Ambient Air ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 01.08.24 Sampling Location : A.T.O # 1 ID No.: RVB/RDS/APIM460/BL/16, Cal. Valid upto: 03.11.23 Latitude- 22.347722, Longitude- 88.14661 Environmental conditions Qate & Time of sampling : 11.08.2023 (10:30 A.M.)-12.08.2023 (10:30 A.M.) Temperature: Max: 32.0°C & Min: 26.0°C Sampling Plan: RVB/FM/45 Barometric Presure: 750 mmHg Duration of Sampling 24Hrs. Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3, CO, Pb, Ni, As, C₆H₆, BaP Analysis Completed on 29.08.2023

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2,9} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	38.8	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Pert - 23): 2006	µg/m³	68.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6); 2006	µg/m³	22.6	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	15.5	180 (1 Hourly.)
6	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenal Method) Issue No. 04, Issue Date: 10:01.2018	µg/m³	9.4	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.93	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.042	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RV8/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Oate: 10:01:2018	ng/m ³	<0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	1.34	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m3, Arsenic: 0.25 ng/m3, Benzene: 1 µg/m3 & Benzo(a)Pyrene: 0.5 ng/m3

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-	AAQ/23-24/IIPL/		Date: August 29, 20		Page 2 of	
ssued Addres	1,000		DRAMA INDIA PRIVATE LIMITED achak, Haldia, District : Purba Midr		502	
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling Analysis Completed on		: 4700019752, dtd. 08.05.2023 : Ambient Air : A.T.O # 1 Latitude- 22.347722, Longitude- 88.14661 : 11.08.2023 (10:30 A.M.)-12.08.2023 (10:30 A.M.) : RVB/FM/45 : 24Hrs. : 29.08.2023		Equipment used: ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/BL/16, Cal. Valid upto: 03.11.23 Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 750 mmHg		
				TEST F	INDINGS:-	
SI. No.	Parameters		Test Method	Unit	Results (Time Weighted Avg.	
1.	Fluoride		IS: 5182 (Part - 13): 1991	hā/w ₃	10.9	
2.	SO ₃ + Acid mist		Titrimetric	₽g/m³	35.4	

-: END OF TEST REPORT :-

Report Verified by S. Mondal



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CIN: U51109WB1931PTC007007



TEST REPORT

Page 1 of 1 Date: August 29, 2023 No. AP-AAQ/23-24/IIPL/35

: M/S. INDORAMA INDIA PRIVATE LIMITED Issued to

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address

Equipment used: 4700019752, dtd. 08.05.2023 P.O. No.

ID No.: RVB/AFDS/PM2.5/12, Cal. Valid upto: 01.08.24 Ambient Air

Sample Description ID No.: RVB/RDS/APM460/BL/16, Cal. Valid upto: 03.11.23 Durgachak E Block Sampling Location

Environmental conditions Latitude- 22.40185, Longitude- 88.48478

Temperature: Max: 33.0°C & Min: 26.0°C 12.08.2023 (09:50 A.M.)-13.08.2023 (09:50 A.M.) Date & Time of sampling Barometric Presure: 750 mmHg

: RVB/FM/45 Sampling Plan:

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3, : 24Hrs. Duration of Sampling

CO, Pb, Ni, As, C₆H₆, BaP : 29.08.2023 Analysis Completed on

TEST SIMBINGS.

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted	Norms as NAAQ,200
1.	PM _{2.5} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	Avg.) 29.6	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	40.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	20.0	80 (24 Hourly.)
5.	Chicopathon and Annual Control of the Control of th	IS 5182 (Part - 9) : 1974	µg/m³	16.3	180 (1 Hourly.)
-	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) issue No. 04, Issue Date: 10.01.2018	µg/m³	14.1	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5162 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.94	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.049	1.0 (24 Hourly.)
9.		SQP No.: RVB/SQP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<5.0	20
10	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m³	<0.25	6.0
11	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

9. MonAL Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	-AAQ/23-24/IIPL/		Date: August 29, 20: ORAMA INDIA PRIVATE LIMITED		Page 2 o	
Issued to Address		: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602				
P.O. No. Sample Description Sampling Location Date & Time of sampling sampling Plan : Duration of Sampling Analysis Completed on		: 4700019752, dtd. 08.05.2023 : Ambient Air : Durgachak E Block Latitude- 22.40185, Longitude- 88.48478 : 12.08.2023 (09:50 A.M.)-13.08.2023 (09:50 A.M.) : RVB/FM/45 : 24Hrs. : 29.08.2023		Equipment used: ID No.: RVB/AFDS/PM2 5/12, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/BL/16, Cal. Valid upto: 03.11.2 Environmental conditions Temperature: Max: 33.0°C & Min: 26.0°C Barometric Presure: 750 mmHg		
				SI. No.	FINDINGS:- Parameters	
1.	Fluoride		IS: 5182 (Part - 13): 1991	µg/m³	8.8	
2.	SO ₃ + Acid m	ist	Titrimetric	µg/m³	16.1	

-: END OF TEST REPORT :-

Report Verified by S. Mondal



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(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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CIN: U51109WB1931PTC007007



TEST REPORT

Page 1 of 1 Date: August 29, 2023 No. AP-AAQ/23-24/IIPL/34 : M/S. INDORAMA INDIA PRIVATE LIMITED issued to : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address Equipment used: 4700019752, dtd. 08.05.2023 P.O. No. ID No.: RVB/AFDS/PM2.5/11, Cal. Valid upto: 01.08.24 Sample Description : Ambient Air ID No.: RVB/RDS/APM460/BL/14, Cal. Valid upto: 03.11.23 : Priyambada Housing Complex Sampling Location Environmental conditions Latitude- 22.40235, Longitude- 88.48513 Temperature: Max: 32.0°C & Min: 26.0°C : 12 08 2023 (09:30 A.M.)-13 08 2023 (09:30 A.M.) Pate & Time of sampling Barometric Presure: 750 mmHg : RVB/FM/45 Sampling Plan: Parameters Tested: PM25, PM10, SO2, NO3, O3, NH3, Duration of Sampling : 24Hrs. CO, Pb, Ni, As, CeHe, BaP 29.08.2023 Analysis Completed on

				-
TEST	CII	MIDNI	N/C	C
1 1 2 1	-	MIL II	DMI -	

SL No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR. Part 50, Appendix L.	µg/m³	34.6	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	56.7	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	19.9	80 (24 Hourty.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	13.8	180 (1 Hourly.)
6,	Ammonia as NH ₃	SOP No.: RVB/SDPi01/10 (Indephenel Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	11.3	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.76	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.041	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Data: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RV9/SOP/01/16 (AAS Method) Issue No. 04, Issue Cate: 10.01/2015	ng/m³	0.36	6.0
11.	Benzene as C ₅ H ₅	IS 5182 (Part - 11): 2006,	µg/m³	1.41	5,0
12	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM) Technical Manager Authorised Signatory

Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP	-AAQ/23-24/IIPL/	34	Date: August 29, 20	23	Page 2 o	
ssued	l to	: M/S. IND	ORAMA INDIA PRIVATE LIMITED)		
Addres	55	: PO : Durg	jachak, Haldia, District : Purba Midi	napore, West Bengal 721	602	
P.O. No	0.	: 47000197	752, dtd. 08.05.2023	Equi	pment used;	
Sample	Description	: Ambient /	Air	ID No.: RVB/AFDS/PM2.5	11, Cal. Valid upto: 01.08.24	
Samplin	ng Location	: Priyamba	da Housing Complex	ID No.: RVB/RDS/APM460	VBL/14, Cal. Valid upto: 03.11.2	
		Latitude- 22	.40235, Longitude- 88.48513	Environn	nental conditions	
Date & Time of sampling		: 12.08.2023	(09:30 A.M.)-13.08.2023 (09:30 A.M.)	Temperature : M	lax: 32.0°C & Min: 26.0°C	
Sampling Plan :		mpling Plan : : RVB/FM/45		Barometric Presure : 750 mmHg		
Duration of Sampling		ation of Sampling : 24Hrs.		Parameters Tested:		
Analysi	Analysis Completed on 29.08.		3 Fluoride 8		& SO ₃ + Acid mist	
TEST F	INDINGS:-			30		
SI.	Parameters		Test Method	Unit	Results	
No.					(Time Weighted Avg.	
1.	Fluoride		IS: 5182 (Part - 13): 1991	µg/m³	9.4	
2.	SO ₃ + Acid m	int	Titrimetric	ug/m ³	15.6	

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/46 Date: October 10, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Priyambada Housing Complex

Latitude- 22.40235, Longitude- 88.48513

Date & Time of sampling : 28.09.2023 (11:00 A.M.)-29.09.2023 (11:00 A.M.)

|Sampling Plan : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on ; 10.10.2023

Equipment used:

ID No.: RVB/AFDS/PM2.5/15, Cal. Valid upto: 15.07.24

ID No.: RVB/RDS/APM460/08, Cal. Valid upto: 05.11.23

Environmental conditions

Temperature: Max: 32.0°C & Min: 26.0°C

Barometric Presure: 752 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C₆H₆, BaP

TEST FINDINGS:-

SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L	µg/m³	22.5	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m ³	31.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	17.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	14.1	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RV5/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	12:1	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.77	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.085	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Nethod) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	5.20	20
10.	Arsenic as As	SOP No.: RV8/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C ₈ H _e	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 rg/m³, Arsenic: 0.25 rg/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 rg/m³

-: END OF TEST REPORT :-

S. Mondal Report Verified by

S. Mondal

(Dr. R. KARIM)

Technical Manager
Authorised Signatory
For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL	46 Date: October 10, 20	023	Page 2 c	
Issued to Address	: M/S. INDORAMA INDIA PRIVATE LIMITED : PO : Durgachak, Haldia, District : Purba Mid)		
P.O. No. Sample Description Sampling Location	: 4700019752, dtd. 08.05.2023 : Ambient Air : Priyambada Housing Complex	Equipment used: ID No.: RVB/AFDS/PM2.5/15, Cal. Valid upto: 15.07.24 ID No.: RVB/RDS/APM460/08, Cal. Valid upto: 05.11.23 Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 752 mmHg		
Date & Time of sampling Sampling Plan :	Latitude- 22.40235, Longitude- 88.48513 : 28.09.2023 (11:00 A.M.)-29.09.2023 (11:00 A.M.) : RVB/FM/45			
Duration of Sampling Analysis Completed on	: 24Hrs. : 10.10.2023	(0.000)	neters Tested: & SO ₃ + Acid mist	
TEST FINDINGS:- SI. Parameters No.	Test Method	Unit	Results (Time Weighted Avg.	
1. Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	10.1	
2. SO ₃ + Acid m	st Titrimetric	µg/m³	15,4	

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/47 Date: October 10, 2023 Page 1 of 1 Issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description : Ambient Air

Sampling Location : Durgachak E Block

Latitude- 22.40185, Longitude- 88.48478 Date & Time of sampling

: 28.09.2023 (10:30 A.M.)-29.09.2023 (10:30 A.M.)

: 24Hrs.

Sampling Plan: : RVB/FM/45 Duration of Sampling

Analysis Completed on

: 10.10.2023 CO, Pb, Ni, As, CoHo, BaP

ID No.: RVB/RDS/APM460/06, Cal. Valid upto: 03.11.23 Environmental conditions

D No.: RVB/AFDS/PM2.5/14, Cal. Valid upto: 15.07.24

Temperature : Max: 32.0°C & Min: 26.0°C

Barometric Presure: 752 mmHg

Parameters Tested: PM25, PM10, SO2, NO2, O3, NH3,

TEST FINDINGS:-

SI. No.		Test Method	Unit	Results (Time Weighted	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5μm)	USEPA 1997a,40 CFR Part 50, Appendix L.	μg/m³	Avg.) 28.3	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	42.1	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	μg/m ³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	18.4	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	13.3	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indephend Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	14.3	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS : 5182 (Part - 10), 1999 Non Dispersive Intra-Red (NDIR) spectroscopy	mg/m ³	0.78	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.113	1.0 (24 Hourly.)
9.	Nickel as Ni	SDP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10:01.2018	ng/m³	<0.25	6.0
-	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

.: END OF TEST REPORT :-

Report Verified by

S. Mondal

Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/I	Date: October	10, 2023	Dans 2
Issued to Address	: M/S. INDORAMA INDIA PRIVATE LI : PO : Durgachak, Haldia, District : Purb	MITED	Page 2 c
P.O. No. Sample Description Sampling Location	ing Plan: 4700019752, dtd. 08.05.2023 E Description : Ambient Air Durgachak E Block Latitude-22.40185, Longitude-88.48478 Time of sampling : 28.09.2023 (10:30 A.M.)-29.09.2023 (10:30 A.M.) RVB/FM/45		ilpment used: 5/14, Cal. Valid upto: 15.07.24 6/05, Cal. Valid upto: 03.11.23
Date & Time of samplin Sampling Plan :			Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 752 mmHg
Duration of Sampling Analysis Completed on TEST FINDINGS:-	: 24Hrs. : 10.10.2023		neters Tested: & SO ₃ + Acid mist
SI. Paramet	ers Test Method	Unit	Results (Time Weighted Avg.
1. Fluorid	e IS: 5182 (Part - 13): 1991	µg/m³	8.6
2. SO ₃ + Acid	mist Titrimetric	µg/m³	18.3

-: END OF TEST REPORT :-

S. Mondal

Report Verified by

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/48 Date: October 10, 2023 Page 1 of 1 issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air Sampling Location : A.T.O # 1

Latitude- 22.347722, Longitude- 88.14661

Date & Time of sampling : 29.09.2023 (10:40 A.M.)-29.09.2023 (10:40 A.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 10.10.2023 Equipment used:

ID No.: RVB/AFDS/PM2.5/15, Cal. Valid upto: 15.07.24 ID No.: RVB/RDS/APM460/08, Cal. Vaild upto: 05.11.23

Environmental conditions

Temperature : Max: 32.0°C & Min: 26.0°C

Barometric Presure: 752 mmHg

Parameters Tested: PM25, PM35, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CaHa BaP

TEST FINDINGS.

SI. No.	- wiminotoro	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2005
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	μg/m ³	23.3	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10μm)	IS 5182 (Part - 23): 2006	µg/m³	34.4	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m ³	17.5	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) ; 1974	µg/m³	14.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP.01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	μg/m ³	12.5	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.89	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m ³	0.054	1.0 (24 Hourly.)
9,	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Cate: 10.01.2018	ng/m ³	<5.0	20
10.	Arsenic as As	SOP No.: RV8/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 16:01:2018	ng/m³	0.47	6.0
11,	Benzene as C ₈ H ₈	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

Report Verified by

S. Mondal

Dr. R. KARIM

Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

Issued Addres	17.0	: M/S. INDORAMA INDIA PRIVATE LIMITE	D	Page 2	
P.O. No. : 470 Sample Description : Ami Sampling Location : A.T. Latitu Date & Time of sampling : 29.09 Sampling Plan : : RVE Duration of Sampling : 24H		ample Description : Ambient Air ampling Location : A.T.O # 1 Latitude- 22.347722, Longitude- 88.14681 ate & Time of sampling : 29.09.2023 (10:40 A.M.)-29.09.2023 (10:40 A.M.) ampling Plan : : RVB/FM/45		Equipment used: ID No.: RVB/AFDS/PM2.5/15, Cal. Valid upto: 15.07.24 ID No.: RVB/RDS/APM460/08, Cal. Valid upto: 05.11.23 Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 752 mmHg	
		: 24Hrs. : 10.10.2023	Paran	Parameters Tested: Fluoride & SO ₃ + Acid mist	
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.	
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	14.8	
2.	SO ₃ + Acid mis	t Titrimetric	hā/m³	39.6	

-: END OF TEST REPORT :-

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/49 Date: October 10, 2023

ssued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air Sampling Location Near Main Gate

Lathude- 22.06499, Longitude- 88.14639

Date & Time of sampling : 29.09.2023 (10:20 A.M.)-29.09.2023 (10:20 A.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 10.10.2023 Equipment used:

Page 1 of 1

ID No.: RVB/AFDS/PM2.5/14, Cal. Valid upto: 15.07.24

ID No.: RVB/RDS/APM460/06, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 32.0°C & Min: 26.0°C

Barometric Presure: 752 mmHg

Parameters Tested: PM25, PM15, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, CoHg, BaP

TEST FINDINGS:

SI.		Test Method	Unit	Results	Norms as NAAQ,2005
No.		11		(Time Weighted	NOTITE AS NAAQ,2005
	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	28.7	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	μg/m³	44	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m ³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	21.8	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m ³	13.2	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	11.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDR) spectroscopy	mg/m ³	0.90	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.053	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) asset No. 04 Issue Date: 10.01.2018	ng/m ³	6.00	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	0.35	6.0
11.	Benzene as C ₈ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	572
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	5.0

Minimum detection Limit: Nickel: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m

-: END OF TEST REPORT :-

S. Mordo Report Verified by

S. Mondal

Technical Manager Authorised Signatory

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	P-AAQ/23-24/IIPL	Date. October 10, 2	023	Page 2
Issued Addres	2007	: M/S. INDORAMA INDIA PRIVATE LIMITES : PO : Durgachak, Haldia, District : Purba Mid		
P.O. No. Sample Description Sampling Location Date & Time of sampling Sampling Plan: Duration of Sampling		No. : 4700019752, dtd. 08.05.2023 Ambient Air Sing Location : Near Main Gate Latitude- 22.06499, Longitude- 88.14639 & Time of sampling : 29.09.2023 (10:20 A.M.)-29.09.2023 (10:20 A.M.) Sing Plan : RVB/FM/45		ipment used: 5/14, Cal. Valid upto: 15.07.24 0/06, Cal. Valid upto: 03.11.23
				Environmental conditions Temperature: Max: 32.0°C & Min: 26.0°C Barometric Presure: 752 mmHg
		: 24Hrs. : 10.10.2023	Parameters Tested: Fluoride & SO ₃ + Acid mist	
SI. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg
1.	Fluoride	IS: 5182 (Part - 13): 1991	µg/m³	12.4
2.	SO ₃ + Acid mi	at Titrimetric	µg/m³	27.0

-: END OF TEST REPORT :-

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/44 Date: September 18, 2023 Page 1 of 1 Issued to

: M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air Sampling Location : A.T.O#1

Latitude- 22.347722, Longitude- 88.14661

Date & Time of sampling : 13.09.2023 (11:20 A.M.)-14.09.2023 (11:20 A.M.)

Sampling Plan: : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on 18.09.2023 Equipment used:

D No.: RVB/AFDS/PM2.5/09, Cal. Valid upto: 17.06.24

D No.: RVB/RDS/APM460/BL/14, Cal. Valid upto: 03.11.23

Environmental conditions

Temperature: Max: 31.0°C & Min: 27.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM_{2.5}, PM₁₀, SO₂, NO₂, O₃, NH₃,

CO, Pb, Ni, As, C,Hc, BaP

ng/m3

µg/m³

0.24

<1.0

< 0.5

SI.	T. W. WILLIAM	Parameters Test Method	Unit	Results	Norms as NAAQ,2009
				(Time Weighted Avg.)	
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	29.6	60 (24 Hourly.)
2	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	48.2	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4,	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m ³	21.2	80 (24 Hourly.)
5,	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	13.9	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RV9/SOP/01/10 (Indophenol Method) Issue No. 04, Issue Date: 10.01.2013	µg/m³	10.0	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDR) spectroscopy	mg/m ³	0.92	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.081	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04. Issue Date: 10.01.2018	ng/m ³	6.10	20

ng/m3 Minimum detection Limit: Nickel: 5 ng/m², Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

SOP No.: RV9/SOP/01/16 (AAS Method) Issue No. 04.

Issue Date: 10.01.2018

IS 5182 (Part - 11): 2006.

IS 5182 (Part - 12): 2004.

Report Verified by S. Mondal

Arsenic as As

12. Benzo (a) Pyrene

Benzene as C₆H₆

10

(Dr. R. KARIM) Technical Manager Authorised Signatory

6.0

5.0

1.0

For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	AAQ/23-24/IIPL	Date. Depterment 10,	2023	Page 2 c		
Issued t Address		: M/S. INDORAMA INDIA PRIVATE LIMITE : PO : Durgachak, Haldia, District : Purba Mic				
	lo. : 4700019752, dtd. 08.05.2023 e Description : Ambient Air ing Location : A.T.O # 1		ID No.: RVB/AFDS/PM2.	vipment used: 5/09. Cal. Valid upto: 17.06.24 50/BL/14, Cal. Valid upto: 03.11.2		
Date & Time of sampling Sampling Plan :		The state of the s		Environmental conditions Temperature: Max: 31.0°C & Min: 27.0°C Barometric Presure: 750 mmHg		
Analysis (of Sampling Completed on	24Hrs. 18.09.2023		meters Tested: & SO ₃ + Acid mist		
SI.	DINGS:- Parameters	Test Method	Unit			
No.			Unit	Results (Time Weighted Avg.		
1.	Fluoride	IS: 5182 (Part - 13): 1991	hā/w ₃	14.8		
2.	SO ₃ + Acid mi	st Titrimetric	µg/m³	39.6		

-: END OF TEST REPORT :-

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CIN: U51109W81931PTC007007

TEST REPORT

No. AP-AAQ/23-24/IIPL/45 Date: September 18, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

: PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602 Address

P.O. No. : 4700019752, dtd. 08.05.2023 Equipment used:

Sample Description : Ambient Air

D No.: RVB/AFDS/PM2.5/09, Cal. Valid upto: 17,06.24 Sampling Location : Near Main Gate

D No.: RVB/RDS/APM460/BL/11, Cal. Valid upto: 05.11.23 Latitude- 22.06499, Longitude- 88.14639

Environmental conditions Date & Time of sampling : 13.09.2023 (11:00 A.M.)-14.09.2023 (11:00 A.M.)

Temperature : Max: 31.0°C & Min: 27.0°C Sampling Plan: : RVB/FM/45 Barometric Presure: 750 mmHg

Duration of Sampling : 24Hrs. Parameters Tested: PM25, PM15, SO2, NO2, O1, NH1.

Analysis Completed on CO, Pb, Ni, As, CoHo, BaP : 18.09.2023

TEST FINDINGS:-

SI. No.	1-700/-700/-700/-700	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	28.3	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	45.3	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	21.0	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	15.6	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOPi01/10 (Indephenol Method) Issue No. 04, Issue Date: 10.01,2018	µg/m³	9.8	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5162 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.84	04 (1 Hourly.)
8.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.090	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01,2018	ng/m ³	3.00	20
10.	Arsenic as As	SOP No.: RVB/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10:01.2018	ng/m ³	0.25	6.0
11.	Benzene as C ₆ H ₆	IS 5182 (Part - 11): 2006,	µg/m³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	< 0.5	1.0

Minimum detection Limit: Nicket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 µg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

mondal Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V. BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007

TEST REPORT

	45 Date: September 18,	2023	Page 2 o		
to ss	: M/S. INDORAMA INDIA PRIVATE LIMITED	0	Page 2 o		
No. : 4700019752, dtd. 08.05.2023 ile Description : Ambient Air ling Location : Near Main Gate		Equipment used: ID No.: RVB/AFDS/PM2.5/09, Call. Valid upto: 17.06.24 ID No.: RVB/RDS/APM460/BL/11, Call. Valid upto: 05.11			
Time of sampling g Plan :	Plan: : RVB/FM/45		Environmental conditions Temperature : Max: 31.0°C & Min: 27.0°C Barometric Presure : 750 mmHg		
Completed on	18.09.2023		meters Tested: & SO ₃ + Acid mist		
Parameters	Test Method	Unit	Results (Time Weighted Avg.)		
Fluoride	IS : 5182 (Part - 13) : 1991	hā/w ₃	12.4		
SO ₃ + Acid mis	t Titrimetric	hā/m3	27.0		
	Description Q Location Ime of sampling Q Plan: of Sampling Completed on NDINGS:- Parameters	S	S		

: END OF TEST REPORT :-

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TEST REPORT

No. AP-AAQ/23-24/IIPL/42 Date: September 18, 2023 Page 1 of 1

Issued to : M/S. INDORAMA INDIA PRIVATE LIMITED

Address : PO : Durgachak, Haldia, District : Purba Midnapore, West Bengal 721 602

P.O. No. : 4700019752, dtd. 08.05.2023

Sample Description : Ambient Air

Sampling Location : Priyambada Housing Complex

Latitude- 22.40235, Longitude- 88.48513

Date & Time of sampling : 12.09.2023 (10:30 A.M.)-13.09.2023 (10:30 A.M.)

Sampling Plan : : RVB/FM/45

ampling Plan : RVB/FM/45

Duration of Sampling : 24Hrs.

Analysis Completed on : 18.09.2023

Equipment used:

ID No.: RVB/AFDS/PM2 5/10, Cal. Valid upto: 01.08.24

D No.: RVB/RDS/APM460/03, Cal. Valid upto: 25.11.23

Environmental conditions

Temperature : Max: 32.0°C & Min: 27.0°C

Barometric Presure: 750 mmHg

Parameters Tested: PM2.5, PM10, SO2, NO2, O3, NH3,

CO, Pb, Ni, As, C.H., BaP

TEST FINDINGS:-

SI. No.	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Test Method	Unit	Results (Time Weighted Avg.)	Norms as NAAQ,2009
1.	PM _{2.5} (Size ≤ 2.5µm)	USEPA 1997a,40 CFR Part 50, Appendix L.	µg/m³	24.2	60 (24 Hourly.)
2.	PM ₁₀ (Size ≤ 10µm)	IS 5182 (Part - 23): 2006	µg/m³	36.8	100 (24 Hourly.)
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part - 2): 2001	µg/m ³	<4.0	80 (24 Hourly.)
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part - 6): 2006	µg/m³	17.0	80 (24 Hourly.)
5.	Ozone as O ₃	IS 5182 (Part - 9) : 1974	µg/m³	13.5	180 (1 Hourly.)
6.	Ammonia as NH ₃	SOP No.: RVB/SOP/01/10 (Indophenal Method) Issue No. 04, Issue Date: 10.01.2018	µg/m³	13.1	400 (24 Hourly.)
7.	Carbon Monoxide as CO	IS: 5182 (Part - 10), 1999 Non Dispersive Infra-Red (NDIR) spectroscopy	mg/m ³	0.74	04 (1 Hourly.)
В.	Lead as Pb	IS 5182 (Part - 22): 2004	µg/m³	0.105	1.0 (24 Hourly.)
9.	Nickel as Ni	SOP No.: RVB/SOP/01/15 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	5.90	20
10.	Arsenic as As	SOP No: RV8/SOP/01/16 (AAS Method) Issue No. 04, Issue Date: 10.01.2018	ng/m ³	<0.25	6.0
11.	Benzene as C _e H _e	IS 5182 (Part - 11): 2006,	µg/m ³	<1.0	5.0
12.	Benzo (a) Pyrene	IS 5182 (Part - 12): 2004,	ng/m ³	<0.5	1.0

Minimum detection Limit: Nicket: 5 ng/m³, Arsenic: 0.25 ng/m³, Benzene: 1 μg/m³ & Benzo(a)Pyrene: 0.5 ng/m³

-: END OF TEST REPORT :-

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CIN: U51109WB1931PTC007007

TEST REPORT

No. AP-AAQ/23-24/I		Date: September 18,		Page 2 c	
Issued to Address		DORAMA INDIA PRIVATE LIMITED irgachak, Haldia, District : Purba Mid			
P.O. No. Sample Description Sampling Location	Description : Ambient Air : Priyambada Housing Complex Latitude- 22.40235, Longitude- 88.48513 Time of sampling : 12.09.2023 (10:30 A.M.) - 13.09.2023 (10:30 A.M.)		Equipment used: ID No.: RVB/AFDS/PM2.5/10, Cal. Valid upto: 01.08.24 ID No.: RVB/RDS/APM460/03, Cal. Valid upto: 25.11.23 Environmental conditions Temperature: Max: 32.0°C & Min: 27.0°C Barometric Presure: 750 mmHg		
Date & Time of samplin Sampling Plan :					
Duration of Sampling Analysis Completed on TEST FINDINGS:-	: 24Hrs. : 18.09.2	023	Parameters Tested: Fluoride & SO ₃ + Acid mist		
SI. Paramet	ers	Test Method	Unit	Results (Time Weighted Avg.	
1. Fluorio	e	IS::5182 (Part - 13): 1991	μg/m ³	10.1	
2. SO ₃ + Acid	mist	Titrimetric	µg/m²	15.4	
		FAIR OF TEXAS AREA			

-: END OF TEST REPORT :-

Report Verified by S. Mondal

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<u>ANNEXURE – 3</u>

Noise Monitoring Report



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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-SL/23-24/IIPL/01	Da	te: May 26, 202	:3		Page 1 of
ssued to	: M/S. INDORAMA INDIA PRIVATE I	IMITED			
Address	: PO : Durgachak, Haldia, District : Po	rba Midnapore,	West Bengal 72	1 602	
P.O. No.	: 4700019592, dtd. 28.04.2023				
Description of Sample	: Sound Level Monitoring				
ocation	Near DG Room				Parameters Tested
Date of Monitoring	23.05.2023 to 24.05.2023				L _{Max} L _{Max} & L _m
	Day Time (06	:00 A.M. to 1	0:00 P.M.)		
SI. Date	Time	Noi	se Level in dE	3(A)	Norms as per Environmental Protection Act 1986, rule 3(1) and
No.		L _{Min}	L _{Mex}	Loq	(1) for industrial area
1.	06:01 A.M 07:00 A.M.	55.8	58.4	57.2	
2	07:01 A.M 08:00 A.M.	59.8	62.8	41.6	
3.	08:01 A.M 09:00 A.M.	60.2	63.4	61.9	
4.	09:01 A.M 10:00 A.M.	62.8	64.5	62.7	
5.	10:01 A.M 11:00 A.M.	63.6	66.2	64.9	
6.	11:01 A.M 12:00 P.M.	64.5	66.7	65.6	
7.	12:01 P.M 01:00 P.M.	62.3	64.2	63.2	
8. 00.05.0000	01:01 P.M 02:00 P.M.	61.2	64.5	63.5	75 dD(A)
9. 23.05.2023	02:01 P.M 03:00 P.M.	63.8	66.3	64.9	75 dB(A)
10.	03:01 P.M 04:00 P.M.	61.3	64.5	63.2	
11.	04:01 P.M 05:00 P.M.	59.7	62.4	61.1	
12.	05:01 P.M 06:00 P.M.	57.8	60.3	59.0	
13.	06:01 P.M 07:00 P.M.	55.4	58.3	57.2	
14.	07:01 P.M 08:00 P.M.	54.3	57.8	56.3	
15.	08:01 P.M 09:00 P.M.	54.2	56.2	55.3	
16.	09:01 P.M 10:00 P.M.	53.3	55.6	53.3	
L(Day) Min: 53.	3 L(Day) Max: 66.7	Y		L(Day) Lec	: 59.6
	Night Time (1	0:00 P.M. to	06:00 A.M.)		
17	10:01 P.M 11:00 P.M.	50.2	51.8	50.9	
18. 23.05.2023	11:01 P.M 00:00 A.M.	51.2	53.6	52.3	
19.	00:01 A.M 01:00 A.M.	50.2	52.7	51.4	
20.	01:01 A.M 02:00 A.M.	51.2	53.4	52.3	70 ×D/A)
21	02:01 A.M 03:00 A.M.	52.4	55.7	54.3	70 dB(A)
22. 24.05.2023	03:01 A.M 04:00 A.M.	54.3	56.2	55.3	
23.	04:01 A.M 05:00 A.M.	55.2	57.3	56.3	
24	05:01 A.M 06:00 A.M.	54.4	56.8	55.5	
L(Night) Min: 50.	2 L(Night) Max: 57.	3	L	(Night) Led	1: 53.7

Note: - Leq - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM) Technical Manager

Technical Manager Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP	-SL/23-24/IIPL/02		ate: May 26, 20	023		Basil 8 - 8
Issued	to	: M/S. INDORAMA INDIA PRIVATE				Page 1 of
Addres	s	: PO : Durgachak, Haldia, District : F		a West Sennel 7	24 600	
P.O. No).	: 4700019592, dtd. 28.04.2023	sales monapore	c, west beingal r	21002	
Descrip	tion of Sample	: Sound Level Monitoring				
Location	n	: Near DAP Gate				Parameters Tested
Date of	Monitoring	: 24.05.2023 to 25.05.2023				L _{Mas} L _{Mos} & L _{so}
		Day Time (0	6:00 A.M. to	10:00 P.M.)		
SI. No.	Date	Time	No	ise Level in di	B(A)	Nones as per Environmental
		The second secon	L _{Min}	Lyaz	L _{sq}	Protection Act 1985, rule 3(1) and 4 (1) for industrial area
1.		06:01 A.M 07:00 A.M.	58.5	61.2	59.9	
2.		07:01 A.M 08:00 A.M.	59.8	62.5	61.2	-
3.		08:01 A.M 09:00 A.M.	60.8	63.5	62.2	
4.		09:01 A.M 10:00 A.M.	61.5	64.7	63.3	1
5.		10:01 A.M 11:00 A.M.	63.2	66.5	65.1	7
6.		11:01 A.M 12:00 P.M.	64.3	66.5	65.5	
7.		12:01 P.M 01:00 P.M.	63.2	65.7	64.7	
8.	24.05.2023	01:01 P.M 02:00 P.M.	62.8	65.6	64.0	
9.	24,00.2023	02:01 P.M 03:00 P.M.	64.3	66.5	65.6	75 dB(A)
10.		03:01 P.M 04:00 P.M.	63.2	65.8	64.8	
11.		04:01 P.M 05:00 P.M.	62.2	64.6	63.6	-
12.		05:01 P.M 06:00 P.M.	59.5	62.5	61.1	-
13.		06:01 P.M 07:00 P.M.	59.8	61.8	60.9	7
14.		07:01 P.M 08:00 P.M.	58.4	60.3	59.3	
15.		08:01 P.M 09:00 P.M.	56.3	58.6	57.7	-
16.		09:01 P.M 10:00 P.M.	53.2	55.8	53.9	
- 1	_(Day) Min: 53.2	L(Day) Max: 66.5			L(Day) Leq	: 62.3
		Night Time (1	0:00 P.M. to			
17.	24.05.2023	10:01 P.M 11:00 P.M.	53.8	56.8	55.1	
18.	24.00.2020	11:01 P.M 00:00 A.M.	51.3	53.8	52.6	
19.	25.05.2023	00:01 A.M 01:00 A.M.	50.4	53.7	52.3	
20.		01:01 A.M 02:00 A.M.	52.3	54.6	53.4	
21.		02:01 A.M 03:00 A.M.	49.6	52.7	51.1	70 dB(A)
22.	20.00.2020	03:01 A.M 04:00 A.M.	52.5	54.8	52.9	
23.		04:01 A.M 05:00 A.M.	53.7	57.8	55.8	1
24.		05:01 A.M 06:00 A.M.	55.2	57.8	55.4	
L	Night) Min: 49.6	L(Night) Max: 57.8	3		Night) Leq	53.8

Note: - Leq - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by S. Mondal

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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TAHER MANSION, 1ST FLOOR 9, BENTINCK STREET, KOLKATA - 700 001

Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109W81931PTC007007



TEST REPORT

No. AP	-SL/23-24/IIPL/03	0	ate: May 27, 20	123		Page 1 of
issued	to	: M/S. INDORAMA INDIA PRIVATE	LIMITED			raga rot
Addres	is .	: PO : Durgachak, Haldia, District : P		West Rennel 7	21 602	
P.O. No).	: 4700019592, dtd. 28.04.2023	- mainippoid	, rrost bongai r	21 002	
Descrip	tion of Sample	: Sound Level Monitoring				
Location	n	: Near Parking Area				Parameters Tested
Date of	Monitoring	: 25.05.2023 to 26.05.2023				L _{Mre} L _{Mex} & L _{vo}
		Day Time (0	6:00 A.M. to	10:00 P.M.)		
SI.	Date	Time	No	ise Level in di	B(A)	Norms as per Environmental
No.			Lyan	L _{Mex}	Log	Protection Act 1986, rule 3(1) and (1) for industrial area
1.		06:01 A.M 07:00 A.M.	54.6	56.7	55.4	
2.		07:01 A.M 08:00 A.M.	53.2	56.8	55.2	
3.		08:01 A.M 09:00 A.M.	54.2	56.4	55.3	
4.		09:01 A.M 10:00 A.M.	54.8	57.2	56.2	
5.		10:01 A.M 11:00 A.M.	55.6	58.5	57.2	
6.		11:01 A.M 12:00 P.M.	55.7	57.4	56.7	
7.		12:01 P.M 01:00 P.M.	55.4	57.8	56.4	
В.	25.05.2023	01:01 P.M 02:00 P.M.	54.2	56.2	55.4	1
9.	25.05.2023	02:01 P.M 03:00 P.M.	55.3	57.8	56.5	75 dB(A)
10.		03:01 P.M 04:00 P.M.	54.3	57.2	55.8	1
11.		04:01 P.M 05:00 P.M.	54.8	56.5	55.8	1
12.		05:01 P.M 06:00 P.M.	54.2	56.2	55.3	1
13.		06:01 P.M 07:00 P.M.	54.7	56.8	54.7	7
14.		07:01 P.M 08:00 P.M.	49.8	51.6	50.7	
15.		08:01 P.M 09:00 P.M.	49.8	51.8	50.9	
16.		09:01 P.M 10:00 P.M.	48.8	51.7	50.1	
	L(Day) Min: 48.8	L(Day) Max: 58.5			L(Day) Leq	: 55.1
		Night Time (1	0:00 P.M. to	06:00 A.M.)		
17.	25.05.2023	10:01 P.M 11:00 P.M.	49.6	51.4	49.3	
18.	25.05.2025	11:01 P.M 00:00 A.M.	48.2	50.4	48.4	
19.		00:01 A.M 01:00 A.M.	48.8	51.7	49.3	1
20.		01:01 A.M 02:00 A.M.	47.6	50.3	49.1	
21.	28 05 2022	02:01 A.M 03:00 A.M.	48.2	50.6	48.4	70 dB(A)
22.	26.05.2023	03:01 A.M 04:00 A.M.	49.2	51.5	49.4	
23.		04:01 A.M 05:00 A.M.	50.6	52.7	50.7	1
24.		05:01 A.M 06:00 A.M.	52.4	54.8	52.8	
L(Night) Min: 47.6	L(Night) Max: 54.			(Night) Leq	- 40 0

Note: - Leq - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by S. Mondai

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

Results relate only to the parameters tested.

The test report shall not be reproduced, except in full, without written approval of the Company.



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001: 2018 CERTIFIED COMPANY)

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

No. AP	-8L/23-24/IIPL/04		ate: May 27, 20	023		Page 1 of
Issued	to	: M/S. INDORAMA INDIA PRIVATE	LIMITED			
Addres	15	: PO : Durgachak, Haldia, District : F	Purba Midnapore	. West Bengal 7	721 602	
P.O. No	o	4700019592, dtd. 28.04.2023		9	2.002	
Descrip	tion of Sample	: Sound Level Monitoring				
coatio		Near Main Gate				Parameters Tested
Date of	Monitoring	: 26.05.2023 to 27.05.2023				L _{Mare} L _{Max} & L _{eq}
		Day Time (0	6:00 A.M. to	10:00 P.M.)		
SI.	Date	Time	No	ise Level in d	B(A)	Norms as per Environmental
No.			L _{Min}	L _{Max}	Leg	Protestion Aci 1986, rule 3(1) and (1) for industrial area
1.		06:01 A.M 07:00 A.M.	56.3	58.2	57.0	
2.		07:01 A.M 08:00 A.M.	54.6	56.8	54.6	
3.		08:01 A.M 09:00 A.M.	54.2	56.3	55.4	
4.		09:01 A.M 10:00 A.M.	55.4	57.8	55.7	-
5.		10:01 A.M 11:00 A.M.	55.8	57.7	56.8	-
6.		11:01 A.M 12:00 P.M.	55.2	58.6	57.0	-
7.		12:01 P.M 01:00 P.M.	55.4	58.6	57.2	-
8.	26.05.2023	01:01 P.M 02:00 P.M.	53.8	56.8	55.5	
9.	20.00.2023	02:01 P.M 03:00 P.M.	54.5	57.2	55.0	75 dB(A)
10.		03:01 P.M 04:00 P.M.	55.7	58.4	56.3	
11.		04:01 P.M 05:00 P.M.	56.6	58.4	56.5	1
12.		05:01 P.M 06:00 P.M.	55.2	58.5	57.4	+
13.		06:01 P.M 07:00 P.M.	54.5	56.4	54.8	1
14.		07:01 P.M 08:00 P.M.	54.3	57.2	55.0	
15.		08:01 P.M 09:00 P.M.	55.3	57.4	55.5	-
16.		09:01 P.M 10:00 P.M.	52.8	54.7	53.8	
ı	(Day) Min: 52.8	L(Day) Max: 58.6			L(Day) Leq	: 56.0
		Night Time (1	0:00 P.M. to			
17.	26.05.2023	10:01 P.M 11:00 P.M.	53.2	56.6	54.2	
18.	20.03.2023	11:01 P.M 00:00 A.M.	55.8	57.4	56.7	
19.	27.05.2023	00:01 A.M 01:00 A.M.	53.7	55.8	53.6	-
20.		01:01 A.M 02:00 A.M.	54.8	56.7	54.7	
21.		02:01 A.M 03:00 A.M.	49.8	51.6	50.6	70 dB(A)
22.	21.00.2020	03:01 A.M 04:00 A.M.	50.4	53.4	51.2	
23.		04:01 A.M 05:00 A.M.	49.8	51.8	50.8	1
24.		05:01 A.M 06:00 A.M.	49.8	51.6	50.8	
L(I	Night) Min: 49.8	L(Night) Max: 57.4			Night) Leq	53.0

Note: - Leq - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by
S. Mondal

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-SL/23-24/IIPL/0	5 Dat	e: August 08, 2	023		Page 1 of 1
issued to	: M/S, INDORAMA INDIA PRIVATE	LIMITED			
Address	: PO : Durgachak, Haldia, District : P	urba Midnapore	West Bengal 72	21 602	
P.O. No.	: 4700019592, dtd. 28.04.2023	000000000000000000000000000000000000000	Colora of Catalog Service		
Description of Sample	Sound Level Monitoring				
Location	: Near VIP Gate				Parameters Tested
Date of Monitoring	31.07.2023 to 01.06.2023				Lotes Lotes & Lay
	Day Time (0	6:00 A.M. to	10:00 P.M.)		
SI. Date	Time	No	se Level in de	B(A)	Norms as per Environmental
No.		Luin	Litter	Leq	Protection Act 1986, rule 3(1) and (1) for industrial area
1.	06:01 A.M 07:00 A.M.	50.2	53.6	52.1	
2.	07:01 A.M 08:00 A.M.	51.4	54.0	52.7	
3	08:01 A.M 09:00 A.M.	51.6	54.5	53.5	
4.	09:01 A.M 10:00 A.M.	52.4	55.0	54.1	
5.	10:01 A.M 11:00 A.M.	54.0	56.0	55.1	
6.	11:01 A.M 12:00 P.M.	53.1	55.8	54.8	
7.	12:01 P.M 01:00 P.M.	55.7	57.0	56.4	
8. 31.07.202	01:01 P.M 02:00 P.M.	53.4	55.6	54.5	75 40(4)
9. 31,07.202	02:01 P.M. + 03:00 P.M.	52.0	54.5	53.3	75 dB(A)
10.	03:01 P.M 04:00 P.M.	52.5	55.0	53.6	
11.	04:01 P.M 05:00 P.M.	53.1	56.0	54.8	
12.	05:01 P.M 06:00 P.M.	50.3	54.0	52.6	
13.	06:01 P.M 07:00 P.M.	50.0	52.0	51.2	
14.	07:01 P.M 08:00 P.M.	49.5	51.0	50.3	
15.	08:01 P.M 09:00 P.M.	48.0	50.2	49.2	
16.	09:01 P.M 10:00 P.M.	47.2	49.7	48.4	
L(Day) Min:	47.2 L(Day) Max: 57			L(Day) Leq	: 53.1
	Night Time (10:00 P.M. to	06:00 A.M.)		
17. 24 07 200	10:01 P.M 11:00 P.M.	47.0	49.5	48.4	
18. 31.07.202	11:01 P.M 00:00 A.M.	47.2	49.0	48.3	
19.	00:01 A.M 01:00 A.M.	47.5	49.4	48.4	
20.	01:01 A.M 02:00 A.M.	46.0	47.0	47.3	70 (10(4)
21. 01.09.202	02:01 A.M 03:00 A.M.	49.5	51.8	50.8	70 dB(A)
22 01.08.202	03:01 A.M 04:00 A.M.	51.8	53.6	52.8	
23.	04:01 A.M 05:00 A.M.	53.4	55.0	54.2	
24.	05:01 A.M 06:00 A.M.	52.8	56.0	54.7	
L(Night) Mir	n: 46 L(Night) Max: 5	6	L	(Night) Lea	1: 50.8

Note: - Leq - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM) Technical Manager

Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

No. AP-	SL/23-24/IIPL/06	Date	: August 08, 2	023		Page 1 of	
Issued t	to	: M/S. INDORAMA INDIA PRIVATE LIMITED					
Address		: PO : Durgachak, Haldia, District : Pi	urba Midnapore	West Bengal 7	21 602		
P.O. No.		4700019592, dtd. 28.04.2023	-000 e-000 min == 5000	(0.00000000000000000000000000000000000	20 (0100)		
Descripti	ion of Sample	Sound Level Monitoring				T	
Location		Near Main Gate				Parameters Tested	
Date of f	Monitoring	01.08.2023 to 02.08.2023				L _{Min} , L _{Max} & L _{nq}	
	10.500	Day Time (06	:00 A.M. to	10:00 P.M.)			
SI.	Date	Time	No	se Level in di	B(A)	Norms as per Environmental	
No.			L _{Min}	Lun	Lea	Protection Act 1999, rule 3(1) and (1) for industrial area	
1.		06:01 A.M 07:00 A.M.	56.4	58.2	57.2		
2		07:01 A.M 08:00 A.M.	54.6	56.7	55.6	1	
3.		08:01 A.M 09:00 A.M.	54.2	56.7	55.5	1	
4.		09:01 A.M 10:00 A.M.	55.2	57.6	56.6		
5.		10:01 A.M 11:00 A.M.	55.2	57.3	56.5		
6.		11:01 A.M 12:00 P.M.	55.3	57.5	56.5		
7.		12:01 P.M 01:00 P.M.	55.1	58.0	57.1		
8.	01.08.2023	01:01 P.M 02:00 P.M.	54.6	57.2	56.1	75 40(4)	
9.	01.06.2023	02:01 P.M 03:00 P.M.	55.1	57.6	55.5	75 dB(A)	
10.		03:01 P.M 04:00 P.M.	55.3	57.8	56.6	7	
11,		04:01 P.M 05:00 P.M.	56.5	58.2	57.3		
12.		05:01 P.M 06:00 P.M.	54.8	57.5	56.3		
13.		06:01 P.M 07:00 P.M.	55.1	58.5	57.3	7	
14.		07:01 P.M 08:00 P.M.	54.2	57.9	56.1		
15.		08:01 P.M 09:00 P.M.	54.5	57.2	56.0		
16.		09:01 P.M 10:00 P.M.	53.5	55.6	54.6		
- 1	L(Day) Min: 53.5	5 L(Day) Max: 58.5			L(Day) Leq	: 56.5	
		Night Time (1	0:00 P.M. to	06:00 A.M.)			
17.		10:01 P.M 11:00 P.M.	54.8	57.4	56.0		
18.	01.08.2023	11:01 P.M 00:00 A.M.	52.5	54.8	53.7	1	
19.		00:01 A.M 01:00 A.M.	49.0	52.2	50.3		
20.		01:01 A.M 02:00 A.M.	49.5	53.0	51.8	Wa 177/41	
21.	00 00 0000	02:01 A.M 03:00 A.M.	48.2	50.3	49.2	70 dB(A)	
22.	02.08.2023	03:01 A.M 04:00 A.M.	48.5	50.1	49.3	-	
23.		04:01 A.M 05:00 A.M.	48.6	50.3	49.4		
24.		05:01 A.M 06:00 A.M.	50.2	54.7	52.7		
1.7	(Night) Min: 48.	L(Night) Max: 57.	4		(Night) Leq	: 51.8	

Note: - Leg - Equivalent sound energy.

-: END OF TEST REPORT :-

Imandal Report Verified by S. Mondal

Technical Manager Authorised Signatory For R.V.BRIGGS & CO. (P) LTD.

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^{*} Results relate only to the parameters tested.



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

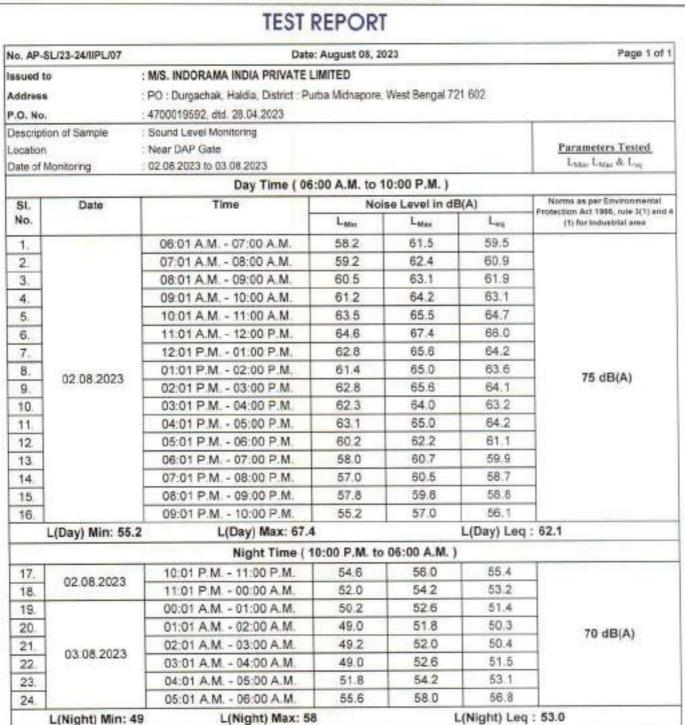
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TAHER MANSION, 1ST FLOOR

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CIN: U51109WB1931PTC007007



Note: - Leg - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by

(Dr. R. KARIM)

Technical Manager

Authorised Signatory

For R.V.BRIGGS & CO. (P) LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

lo. AP-S	L/23-24/IIPL/08	Date:	August 08, 202	23		Page 1 of 1
sued to	>	: M/S. INDORAMA INDIA PRIVATE LI	MITED		Selection of the select	
Address		: PO : Durgachak, Haldia, District : Pur	ba Midnapore, V	Nest Bengal 721	602	
O. No.		4700019592, dtd. 28.04.2023				
	on of Sample	Sound Level Monitoring				DESCRIPTION AND A PROPERTY OF
ocation		: Near DAP Gate				Parameters Tested
	Monitoring	: 03.08.2023 to 04.08.2023				L _{Max} L _{Max} & L _{eq}
		Day Time (06:	00 A.M. to 1	0:00 P.M.)		
SI.	Date	Time	Nois	e Level in dB		Norms as per Environmental Protection Act 1986, rule 3(1) and a
No.			L _{Nin}	L _{Max}	Leq	(1) for industrial area
1.		06:01 A.M 07:00 A.M.	53.4	55.5	54.4	
2.		07:01 A.M 08:00 A.M.	54.5	56.0	55.4	
3.		08:01 A.M 09:00 A.M.	55.5	58.2	57.0	
4.		09:01 A.M 10:00 A.M.	55.5	57.0	56.3	
5.		10:01 A.M 11:00 A.M.	56.4	58.4	57.4	
6.		11:01 A.M 12:00 P.M.	56.8	58.7	57.6	
7.		12:01 P.M 01:00 P.M.	55.0	58.5	56.8	
8.		01:01 P.M 02:00 P.M.	56.7	59.2	58.3	75 dB(A)
9.	03.08.2023	02:01 P.M 03:00 P.M.	55.4	58.0	57.0	
10.		03:01 P.M 04:00 P.M.	54.2	57.8	56.1	
11.		04:01 P.M 05:00 P.M.	53.2	55.8	54.6	
12.		05:01 P.M 06:00 P.M.	53.0	55.0	54.0	
13.		06:01 P.M 07:00 P.M.	51.5	54.5	52.9	
14.		07:01 P.M 08:00 P.M.	50.0	53.0	51,7	
15.		08:01 P.M 09:00 P.M.	50.5	54.0	52.3	
16.		09:01 P.M 10:00 P.M.	50.0	52.8	51,3	
	L(Day) Min: 5) L(Day) Max: 59.2		~	L(Day) Leq	: 55.4
		Night Time (1	0:00 P.M. to	06:00 A.M.)		
17.	SWANDSTONES	10:01 P.M 11:00 P.M.	50.2	53.0	51.7	
18.	03.08.2023	11:01 P.M 00:00 A.M.	49.2	51.4	50.3	
19.		00:01 A.M 01:00 A.M.	49.0	51.0	50.2	
20.		01:01 A.M 02:00 A.M.	48.8	50.8	49.8	70 dB(A)
21.	200000000000000000000000000000000000000	02:01 A.M 03:00 A.M.	48.2	50.0	49.2	1000(14)
22.	04.08.2023	03:01 A.M 04:00 A.M.	48.0	49.6	48.8	
23.	1	04:01 A.M 05:00 A.M.	50.4	52.2	51.3	
24.	1	05:01 A.M 06:00 A.M.	52.6	55.2	54.3	
16.00	L(Night) Min: 4		2	I.	(Night) Led	2: 50.9

Note: - Leg - Equivalent sound energy.

-: END OF TEST REPORT :-

Report Verified by S. Mondal (Dr. R. KARIM) Technical Manager

Authorised Signatory For R.V.BRIGGS & CO. (P) LTD.

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Results relate only to the parameters tested.

ANNEXURE - 4 Effluent Monitoring Report



Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.'

Haldia, Pin-721602

Report No. :WB/ED-503 Date: :18.05.2023

Sample No.: MSKGL/ED/2023-24/05/00005 Sample Description: Effluent Water Sampling Location: ETP Treated Water

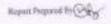
from Plant Outlet

Sample Drawn on: 28.04.2023

Reference No.& Date: 4700017438

ANALYSIS RESULT

SI No.	Test Parameters	Unit	Result	Method
1.	pH value at 25° C	***	7.83	APHA (23rd Edition) 4500 -H-B : 2017
2.	Fluoride (as F)	mg/l	0.68	APHA (23rd Edition) 4500 -F- C/D: 2017
3.	Total Suspended Solid	mg/l	10	APHA (23rd Edition) 2540D : 2017
4.	Biochemical Oxygen Demand	mg/l	8.7	APHA (23rd Edition) 5210B : 2017
5.	Chemical Oxygen Demand	mg/l	32	APHA (23rd Edition) 5220B : 2017
6.	Oil and Grease	d Grease mg/l		APHA (23rd Edition) 5520B : 2017
7.	Ammoniacal Nitrogen (as N)	mg/l	<0.1	APHA (23rd Edition) 4500 - NH3-F : 2017
8.	Dissolved Phosphate (as P)	mg/l	0.29	APHA (23rd Edition) 4500 PB, D: 2017
9.	Total Kjeldahl Nitrogen as N	mg/l	< 0.3	APHA (23rd Edition) 2017 4500 -Norg B: 2017
10.	Free Ammoniacal Nitrogen as N	mg/l	<0.1	APHA (23rd Edition) 4500-NH3-F 2017_(O)



For Mitra S. #. Officate Linetesi (a) Authorised Signatory

- . The results relate only to the item(s) tested
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Name & Address of the Customer : 'INDORAMA INDIA PRIVATE, LIMITED.' Haldia, Pin- 721602

Report No. :WB/ED-1058 Date: :15.06.2023

Sample No.: MSKGL/ED/2023-24/05/01949

Sample Description : Effluent Water Sampling Location: ETP Treated Water from Plant Outlet

Sample Drawn on: 30.05.2023

Reference No.& Date: 4700017438

ANALYSIS RESULT

SI No.	Test Parameters	Unit	Result		
1.	pH value at 25 °C	1	NAME OF THE PARTY	Method	
2.	Fluoride (as F)	-	7.14	APHA (23rd Edition) 4500 -H-B : 2017	
3.	Total Suspended Solid	mg/l	0.4	APHA (23rd Edition) 4500 -F- C/D: 2017	
-		mg/l	8.4	APHA (23rd Edition) 2540D : 2017	
4.	Biochemical Oxygen Demand	mg/l	<2.0	APHA (23rd Edition) 5210B : 2017	
5.	Chemical Oxygen Demand	mg/l	8.0	APHA (23rd Edition) 5210B 2017	
6.	Oil and Grease	mg/l	<5.0	APHA (23rd Edition) 5220B : 2017	
7.	Ammoniacal Nitrogen (as N)	The state of the s	10000	APHA (23rd Edition) 5520B : 2017	
8.	Dissolved Phosphate (as P)	mg/l	<0.1	APHA (23rd Edition) 4500 - NH3-F : 2017	
	Total Kjeldahl Nitrogen as N	mg/l	0.34	APHA (23rd Edition) 4500 • P.B. D : 2017	
9.	Total Reidani Nitrogen as N	mg/l	< 0.3	APHA (23rd Edition) 2017 4500 -Norg · B:	
10.	Espa America (All			2017	
10.	Free Ammoniacal Nitrogen as N	mg/l	< 0.1	APHA (23rd Edition) 4500-NH3-F 2017 (O	

Report Prepared By

Authorised Signatory

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Name & Address of the Customer ; 'INDORAMA INDIA PRIVATE, LIMITED.'

Haldia, Pin-721602

Report No. : CRTGL/ED/2023-24/06/01044

Date: :20.07.2023

Sample No.: MSKGL/ED/2023-24/06/01044

Sample Description : Effluent Water Sampling Location: ETP Treated Water from Plant Outlet

Sample Drawn on: 16.06.2023

Reference No.& Date: 4700017438

ANALYSIS RESULT

SI No.	Test Parameters	Unit	Result	Method
1.	pH value at 25° C		A PRODUCTION OF	10000000
2.	Fluoride (as F)	100000000000000000000000000000000000000	8.15	APHA (23rd Edition) 4500 -H-B: 2017
3.	Total Suspended Solid	mg/l	0.3	APHA (23rd Edition) 4500 -F- C/D: 2017
4.	Biochamical Owner D	mg/l	6.4	APHA (23rd Edition) 2540D : 2017
5.	Biochemical Oxygen Demand	mg/l	2.3	APHA (23rd Edition) 5210B : 2017
	Chemical Oxygen Demand	mg/l	10	APHA (23rd Edition) 5220B : 2017
6.	Oil and Grease	mg/l	<5.0	APHA (23rd Edition) 5520B : 2017
7.	Ammoniacal Nitrogen (as N)	mg/l	< 0.1	APHA (23rd Edition) 5520B : 2017
8.	Dissolved Phosphate (as P)	mg/l	0.38	APHA (23rd Edition) 4500 - NH3-F : 2017
	Total Kjeldahl Nitrogen as N	-	The state of the s	APHA (23rd Edition) 4500 - P B, D : 2017
9.		mg/l	<0.3	APHA (23rd Edition) 2017 4500 -Norg • B: 2017
10.	Free Ammoniacal Nitrogen as N	mg/l	<0.1	APHA (23rd Edition) 4500-NH3-F 2017 (O)

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for Mitra S. K. Private Limited

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Name & Address of the Customer : "INDORAMA INDIA PRIVATE, LIMITED." Haldia, Pln-721602

Report No. : CRTGL/ED/2023-24/08/00010

:22.08.2023

Sample No. : MSKGL/ED/2023-24/08/00010 Sample Description : Effluent Water

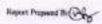
Sampling Location: ETP Treated Water from Plant Outlet

Sample Drawn on: 28.07.2023

Reference No.& Date: 4700017438

ANALYSIS RESULT

No.	Test Parameters	Unit	Result	10 1 1
1.	pH value at 25 °C		2009	Method
2.	Fluoride (as F)		7.40	APHA (23rd Edition) 4500 -H-B : 2017
3.	Total Suspended Solid	mg/l	0.65	APHA (23rd Edition) 4500 -F- C/D: 2017
4.	Biochemical Oxygen Demand	mg/l -	5.9	APMA (02)-1 = 311
5.	Chemical Oxygen Demand	mg/l	4.4	APHA (23rd Edition) 2540D : 2017
6.	Oil and Grease	mg/l	16	APHA (23rd Edition) 5210B : 2017
7.	Ammoniace LNIII	mg/l	<5.0	APHA (23rd)Edition) 52208 : 2017
8.	Ammoniacal Nitrogen (as N)	mg/l	3.1	APHA (23rd Edition) 5520B : 2017
311011	Dissolved Phosphate (as P)	mg/l	0.26	APHA (23rd Edition) 4500 - NH3-F : 2017
9.	Total Kjeldahl Nitrogen (as N)	mg/l	44	AF THE COURT EDITION ASON DE D. CO.
10.	Free Acres in the Control of the Con	8		OF TA (23rd Edition) 2017 4500 -Norg B:
10.	Free Ammoniacal Nitrogen (as N)	mg/l	2.4	2017
	4	95.		APHA (23rd Edition) 4500-NH3-F 2017_(O





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Name & Address of the Customer: 'INDORAMA INDIA PRIVATE. LIMITED.' Haidia, Pin-721502

Report No.: MSKGL/ED/2023-24/001118

:20.09.2023

Sample No.: MSKGL/ED/2023-24/08/01164 Sample Description Effluent Water Sampling Location: ETP Treated Water Sample Drawn on: 30.08.2023

from Plant Outlet

Reference No.& Date: 4700017438

ANALYSIS RESULT

No.	Test Parameters	I their	127	
1.	pH value at 25 ³ C	Unit	Result	Method
2.	Fluoride (as F)	-	7.53	
3.	Total Suspended Solid	mg/l	0.89	APHA (23rd Edition) 4500 -H-B : 2017
4.	Biochemical Oxygen Demand	mg/l	12	APHA (23rd Edition) 4500 -F- C/D: 2017
5.	Chemical Oxygen Demand	mg/l	3.2	APHA (23rd Edition) 2540D : 2017 APHA (23rd Edition) 5210B : 2017
6.	Oil and Grease	mg/l	12	APHA (23rd Edition) 52108 : 2017
7.	Ammoniacal Nitrogen (as N)	rng/l	<5.0	APHA (23rd Edition) 5520B : 2017
8,	Dissolved Phosphate (as P)	mg/i	2.2	APHA (23rd Edition) 4500 - NH3-F : 2017
9.	Total Kjeldahi Nitrogen as N	mg/l	1.8	APHA (23rd Edition) 4500 I P B, D : 2017
0.	Free Ammoniacal Nitrogen as N	mg/l	3.4	APHA (23rd Edition) 2017 4500 -Norg II B: 2017
	Tree Antinoniacal Nitrogen as N	mg/l	0.72	APHA (23rd Edition) 4500-NH3-F 2017_(O)

Report Proposed By Schatterfer

for Mitra S. K. Private Limited

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Page 1 of 1



Name & Address of the Customer : 'INDORAMA INDIA PRIVATE. LIMITED.' Haldia, Pin-721602

Report No. : MSKGL/ED/2023-24/001188

:20.09.2023

Sample No.: MSKGL/ED/2023-24/09/00569 Sample Description : Effluent Water Sampling Location: ETP Treated Water from Plant Outlet

Sample Drawn on: 11.09.2023

Reference No.& Date: 4700017438

ANALYSIS RESULT

No.	Test Parameters	Unit	Result	1000		
1.	pH value	2004	- rvesuit	Method		
2.	Fluoride (as F)	None	7.90	APHA (22cd Edition) (22cd		
3.	Total Suspended Date .	mg/l	0.46	APHA (23rd Edition) 4500 -H-B : 2017		
	Total Suspended Solid (as TSS)	mg/f	12	APHA (23rd Edition) 4500 -F- C/D. 2017		
4.	Biochemical Oxygen Demand (as BOD)	mg/t	6.6	APHA (23rd Edition) 2540D : 2017 APHA (23rd Edition) 5210B : 2017		
5.	Chemical Oxygen Demand (COD)	mg/l	24	APHA (23rd Edition) 52208 : 2017		
6.	Oil and Grease		6.7	Control 22208 : 2017		
7.	Ammoniacal Nitrogen (as N)	mg/l	<5.0	APHA (22rd Edition) Essenti		
8	Dissolved Phosphate (as P)	mg/I	3.6	APHA (23rd Edition) 5520B : 2017		
9.	Total Violant An	mg/I	< 0.05	APHA (23rd Edition) 4500 - NH3-F : 2017		
10.	Total Kjeldahl Nitrogen as N	mg/l	6.4	- TIPE (23/0 Effeine) 4500 F F F F F F		
10,	Free Ammoniacai Nitrogen as N	mg/I	1.3	APHA (23rd Edition) 2017 4500 -Norg 8 B: 20 APHA (23rd Edition) 4500-NH3-F 2017 (O)		

Report Prepared By Schatterfee

for Mitra S. K. Private Limited

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<u>ANNEXURE – 11</u>

Groundwater Monitoring Report



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

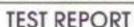
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CIN: U51109WB1931PTC007007



No. W(D)/23-24/656	Date : June 01, 2023	Page 1 of 3
Issued to	: M/S, INDORAMA INDIA PRIVATE LIM Durgachak, Haldia, East Medinipore.	ITED Fage 1 or 3
Your Ref No. Sample Description Collection Source Sample Drawn by us on Sample carried out by	PO No.: 4700019593 letter dtd. 28.04.2023 Drinking Water Borewell Water Reservoir Deep Tubewell-1 24.05.2023 at 13.40pm Mr. S.Mukherjee	Environmental conditions during sampling Temperature: 28°C, Transport by : Through Ice Box Transport condition : Cold chain maintained
Sampling Plan ; Method of Sampling Mode of Sampling Analysis Completed on	: RVB/FM/44 : IS : 15185 : Grab : 26.05.2023	Parameters Tested: Microbiological 1) Coliform Organism (2) E Coli

ULR NO. TC781523100003345F

SI No.	Test parameters	Test Method	Unit	Results	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015
1	Coliform Organism	APHA 23rd Edn. 9222B	CFU/100ml	Absent	Absent
2	E. coli	APHA 23rd Edn. 9222H	CFU/100mI	Absent	Absent

Remarks on Test Report:

The above mentioned sample of drinking water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

Pijush Kanti Dutta Sr. Microbiologist Authorized Signalory

* Results relate only to the parameters tested.



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E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007



TEST REPORT

ULR NO. TC781523100003345F No. W(D)/23-24/656

_	W(D)/23-24/656	Date : June 01,				Page 2 of	
SSI	ued to	: M/S, INDORAMA INDIA PR		IMITED		10.7	
Va	a Bof No	Durgachak, Haldia, East Me		-			
	ır Ref No.	: PO No.: 4700019593 letter of	nd. 28.04			ns during sampling	
	mple Description	: Drinking Water		Temperature: 28°C, Transport by : Through Ice Box Transport condition : Cold chain maintained			
Col	lection Source	: Borewell Water Reservoir					
Property Control of the Control of t		Deep Tubewell-1		Transport	condition : Cold	chain maintained	
	mple Drawn by us on	: 24.05.2023 at 13.40pm					
	mple carried out by	: Mr. S.Mukherjee					
	mpling Plan :	: RVB/FM/44		Paramete	rs Tested: Phy	sical & Chemical	
	thod of Sampling	: IS: 3025 (Part - 1) 1987		1. Organol	eptic and Physi	cal - 6 Parameters	
	de of Sampling	: Grab		2. General	Parameters - 2	3 Parameters	
Ana	alysis Completed on	: 31.05.2023		3. Toxic Su	ibstances - 8 P	arameters	
Phy	sical & Chemical Test Find	ngs :					
SI No.	Test parameters	Test Method	Unit	Norms as per IS : 10500, 2012 (2) Amend., June		0, 2012 (2nd Rev.),	
1300	741	2000-00000000	7.5500.00	30870365	Acceptable	Permissible	
					Lámit	Limit	
	rganoleptic and Physical Paramet		2000	3-11-	lance II		
1	Colour	IS: 3025-(part-4): 1983	Hazen		5 Max.	15 Max.	
2	Odour	IS:3025(Part-5):1983			Agreeable	Agreeable	
3	Taste	IS:3025(Part-8):1984		Agrecable	Agreeable	Agreeable	
4	pH value	IS: 3025 (Part-11): 1983		7.4	6.5 - 8.5	No Relaxation	
5	Turbidity	IS: 3025 (Part-10): 1984	NTU	<1.	1 Max.	5 Max.	
6	Total Dissolved Solids	IS: 3025 (Part-16): 1984	mg/l	828	500 Max.	2000 Mas.	
	eneral Parameters Concerning Su	bstances Undesirable in Excessive /	Mounts				
1	Aluminium as Al	IS: 3025 (Part-55)	mg/l	< 0.03	0.03 Max.	0.2 Max	
2	Ammonia (NH3-N)	15: 3025(Part-34)	mg/l	< 0.2	0.5 Max.	No Relaxation	
3	Anionic detergents(as MBAS)	Annex K of IS: 13428	mg/l	< 0.05	0.2 Max.	1 Max	
4	Barium as Bu	APHA 23rd Edn. 3111D	mg/l	<0.5	0.7 Max.	No Relaxation	
5	Boron as B	IS: 3025 (Part-57): 2005	mg/l	<0.2	0.5 Max.	2.4 Max.	
6	Calcium as Ca	IS: 3025 (Part-40): 1991	mg/l	65	75 Max.	200 Max	
7	Chloride as Cl	IS: 3025 (Part-32): 1988	mg/l	255	250 Max.	1000 Max.	
8	Copper as Cu	IS: 3025 (Part-42): 1992	mg/l	< 0.05	0.05 Max.	1.5 Max.	
9	Fluoride as F	IS: 3025 (Part-60): 2008	ng/l	0.44	1 Max.	L5 Max.	
10	CONTRACTOR OF THE PARTY OF THE	IS: 3025 (Part-53): 2003	mg/I	<0.1	1.0 Max.	No Relexation	
11	Magnesium as Mg	IS: 3025 (Part-46): 1994	mg/l	21	30 Max.	100 Max	
12	Manganese as Ma	1S: 3025 (Part-59): 2006	mg/l	0.096	0.1 Max.	0.3 Max.	
13	Nitrate as NO ₂	IS: 3025 (Part-34): 1988	mg/l	35.3	45 Max.	No Relaxation	
14	Phenolic Compounds as C ₀ H ₂ OH	IS: 3025 (Part-43): 1992	mg/l	<0.001	0.001 Mas.	0,002 Max.	
15	Selenium as Se	IS: 3025 (Part-56); 2003	mg/I	< 0.01	0.01 Max.	No Relaxation	
16	Silver as Ag	Annex J of IS: 13428	mg/l	< 0.05	0.1 Max.	No Relaxation	
17	Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l	1.0	200 Max.	400 Max	

Cont. page - 2

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* Results relate only to the parameters tested.

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CIN: U51109WB1931PTC007007



TEST REPORT

No.	W(D)/23-24/656	Date : June 01,	Page 3 of 3				
SI		Tarket	Viete	Desult	Norms as per IS : 10500, 2012 (2nd Rev.)		
No.	Test parameters	Test Method	Unit	Result	Acceptable Limit	Permissible Limit	
18	Sulphide as H ₂ S	IS: 3025 (Part-29): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation	
10	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	290	200 Max.	600 Max.	
20	Total Hardness as CaCO3	IS: 3025 (Part-21) - 2009	mg/l	249	200 Max.	600 Max.	
21	Zinc as Zn	IS: 3025 (Part-49): 1994	mg/l	< 0.05	5 Max	15 Max.	
C. P	arameters Concerning Toxic Subst	ances	110790000	are and a second	I STATE OF THE PARTY OF THE PAR	24.01940001	
1	Cadmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	No Relaxation	
2	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/l	< 0.02	0.05 Max.	No Relaxation	
3	Lead as Pb	IS: 3625 (Part-47): 1994	ng/l	< 0.01	0.01 Max.	No Relaxation	
4	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/l	< 0.001	0.001 Max.	No Relaxation	
5	Molybdenum as Mo	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation	
6	Nickel as Ni	15: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Mas.	No Relaxation	
7	Total Arsenic as As	15: 3025 (Part-37): 1988	mg/l	< 0.002	0.01 Mas.	No Relaxation	
8	Total Chromium as Cr	IS: 3025 (Part-52): 2003	mg/l	< 0.05	0.05 Max.	No Relaxation	

Minimum detection limit:

	services of the second course of								
0	Turbidity	: 1.0NTU	iii)	Aluminium	: 0.03mg/l	iii) Ammonia	: 0.2mg/l	W) Barium	0.5mg/l
v)	Anionic Detergents	0.01mg/l	vi)	Copper	: 0.05mg/l	vii) Silver	: 0.05mg/l	viii) Boron	: 0.2mg/l
ix)	Sulphide	: 0.05mg/l	x)	Selenium	: 0.01mg/l	xi) Cyanide	: 0.02mg/l	xii) Iron	; 0.1mg/l
xiii)	Cadmium	: 0.002mg/l	xiv)	Mollybdenum	: 0.05mg/l	xv) Mercury	: 0.001mg/l	xvi) Lead	: 0.01mg/l
xvii	Total Chromium	: 0.05mg/l	xviii	Total Arsenic	: 0.002mg/l	xix) Zinc	: 0.05mg/l	xx) Nickel	: 0.01mg/l

xxi) Phenolic Compounds : 0.001mg/l

Remarks on Chemical Test Report:

- The above mentioned sample of potable water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.
- Total Dissolved Solids, Alkanity, Total Hardness & Chloride are beyond the acceptable limit but within the nemissible limit

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

-: END OF TEST REPORT :-

HCB.

Report Verified by (J. DAS) Dr. R. KARIM
Technical Manager
Authorized Signatory
For R.V.BRIGGS & CO. PRIVATE LTD.

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CIN: U51109WB1931PTC007007

Date : June 01, 2023



TC-7815

Page 1 of 3

ULR NO. TC781523100003346F No. W(D)/23-24/657

Issu	ed to	: M/S, INDORAMA INDIA PRIVATE LIMITED Durgachak, Haldia, East Medinipore.							
San	r Ref No. aple Description ection Source	: PO No.: 4700019593 letter d : Drinking Water : Borewell Water Reservoir Deep Tubewell-2		Environmental conditions during sampling Temperature: 28°C, Transport by: Through Ice Box Transport condition: Cold chain maintained Parameters Tested: Microbiological 1) Coliform Organism (2) E. Coll					
	nple Drawn by us on nple carried out by	: 24.05.2023 at 13.50pm : Mr. S.Mukherjee							
San Met Mod	npling Plan : hod of Sampling le of Sampling lysis Completed on	: RVB/FM/44 : IS : 15185 : Grab : 26.05.2023							
	robiological Test Fin								
SI No.	Test parameters	Test Method	Unit	Results	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015				
1	Coliform Organism	APHA 23rd Edn. 9222B	CFU/100mI	Absent	Absent				
2	E. coli	APHA 23rd Edn. 9222H	CFU/100ml	Absent	Absent				

Remarks on Test Report:

The above mentioned sample of drinking water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

Pijush Kanti Dutta Sr. Microbiologist Authorized Signatory



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CIN: U51109WB1931PTC007007



TEST REPORT

ULR NO. TC781523100003346F

_	W(D)/23-24/657	Date : June 01,				Page 2 of	
SSU	ed to	: M/S, INDORAMA INDIA PR	12-11-11	IMITED			
		Durgachak, Haldia, East Me		A STATE OF THE STA			
	ir Ref No.	: PO No.: 4700019593 letter (dtd. 28.04			ns during sampling	
	nple Description	: Drinking Water		Temperature: 28°C,			
Col	lection Source	: Borewell Water Reservoir		Transport t	y : Through lo	е Вох	
		Deep Tubewell-2				d chain maintained	
	nple Drawn by us on	: 24.05.2023 at 13.50pm	Last Copering				
	nple carried out by	: Mr. S.Mukherjee					
	npling Plan :	: RVB/FM/44		Paramete	rs Tested: Ph	ysical & Chemical	
	thod of Sampling	: IS: 3025 (Part - 1) 1987				ical - 6 Parameters	
	de of Sampling	: Grab				23 Parameters	
	lysis Completed on	: 31.05.2023		3. Toxic Su	batances - 8 F	Parameters	
Phy	sical & Chemical Test Find	ings :				A CONTRACTOR OF THE PARTY OF TH	
SI No.	Test parameters	Test Method	Unit	IS: 10500, 201		forms as per 00, 2012 (2nd Rev.), end., June 2015	
					Acceptable Limit	Permissible Limit	
	rganoleptic and Physical Parame	ers	10000	ST. AV	S. STELL		
_	Colour	IS: 3025-(part-4): 1983	Hazen	1	5 Max.	15 Max.	
2	Odour	15:3025(Part-5); 1983	3400	Agrecable	Agreeable	Agreeable	
3	Taste	IS:3025(Part-8):1984		Agrecable	Agrecable	Agreeable	
4	pH value	1S: 3025 (Part-11): 1983	- 200	7.3	6.5 - 8.5	No Relaxation	
_	Turbidity	IS: 3025 (Part-10): 1984	NTU	<1	1 Max.	5 Max.	
6	Total Dissolved Solids	IS: 3025 (Part-16): 1984	mg/l	1308	500 Max.	2000 Max.	
		bstances Undesirable in Excessive /	Amounts				
1	Aluminium as Al	IS: 3025 (Part-55)	mg/l	<0.03	0.03 Max	0.2 Max.	
2	Ammonia (NH3-N)	IS: 3025(Part-34)	mg/I	< 0.2	0.5 Max.	No Relexation	
3	Amonic detergents(as MBAS)	Annex K of IS: 13428	mg/l	< 0.05	0.2 Max.	1 Max	
4	Barium as Ba	APHA 23rd Edn. 3111D	mg/I	< 0.5	0.7 Max.	No Relexation	
5	Boron as B	IS: 3025 (Part-57): 2005	mg/l	< 0.2	0.5 Max.	2.4 Max.	
6	Calcium as Ca	1S: 3025 (Part-40): 1991	mg/I	95	75 Max.	200 Max.	
7	Chloride as Cl	IS: 3025 (Part-32): 1988	mg/l	470	250 Max.	1000 Max.	
8	Copper as Cu	1S: 3025 (Part-42): 1992	mg/l	< 0.05	0.05 Max.	1.5 Max.	
9	Fluoride as F	IS: 3025 (Part-60): 2008	mg/l	0.63	1 Max.	1.5 Max.	
_	Iron as Fe	IS: 3025 (Part-53): 2003	mg/l	<0.1	1.0 Max.	No Relaxation	
11	Magnesium as Mg	IS: 3025 (Part-46): 1994	mg/l	38	30 Max.	100 Max.	
_	Manganese as Mn	1S: 3025 (Part-59): 2006	Pam.	0.125	0.1 Max.	0.3 Max.	
13	Nitrate as NO ₁	1S: 3025 (Part-34): 1988	mg/l	44.6	45 Max.	No Relaxation	
14	The state of the s	IS: 3025 (Part-43): 1992	mg/l	< 0.001	0.001 Max.	0.002 Max.	
15	The second secon	IS: 3025 (Part-56): 2003	mg/l	< 0.01	0.01 Max.	No Relaxation	
	Silver as Ag	Annex J of IS: 13428	mg/l	< 0.05	0.1 Max.	No Relocation	
17	Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l	<1	200 Max.	400 Max.	

Cont. page - 2



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CIN: U51109WB1931PTC007007



TEST REPORT

No.	W(D)/23-24/657	Date : June 01,	Date : June 01, 2023				
SI	Test parameters	Test Method	Unit	Result	Norms as per 15 : 10500, 2012 (2nd Rev.)		
No.		Test Method	Cun	Kesan	Acceptable Limit	Permissible Limit	
_	Sulphide as H ₃ S	IS: 3025 (Part-29): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation	
	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	275	200 Max.	600 Max.	
20	Total Hardness as CaCO3	IS: 3025 (Part-21) - 2009	mg/l	396	200 Max.	600 Max.	
_	Zinc as Zn	IS: 3025 (Part-49): 1994	mg/l	< 0.05	5 Max.	15 Max	
C. P	arameters Concerning Toxic Subst	ances				400,400,000	
1	Cadmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	No Relaxation	
2	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/l	< 0.02	0.05 Max.	No Relaxation	
3	Lead as Pb	IS: 3025 (Part-47): 1994	mg/l	< 0.01	0.01 Max.	No Relaxation	
4	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/l	< 0.001	0.001 Max.	No Relaxation	
5	Molybdenum as Mo	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation	
6	Nickel as Ni	IS: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Max.	No Relaxation	
7	Total Arsenic as As	IS: 3025 (Part-37): 1988	mg/l	< 0.002	0.01 Max.	No Relaxation	
8	Total Chromium as Cr	IS: 3025 (Part-52): 2003	mg/l	< 0.05	0.05 Max.	No Relaxation	

Minimum detection limit:

i) .	Turbidity	1.0NTU	ii)	Aluminium	: 0.03mg/l	iii) Ammonia	: 0.2mg/l	iv) Barium	: 0.5mo/l
v)	Anionic Detergents	: 0.01mg/l	vi)	Copper	: 0.05mg/l	vii) Silver	0.05mg/l	viii) Boron	: 0.2mg/l
ix)	Sulphide	: 0.05mg/l	x)	Selenium	: 0.01mg/l	xi) Cyanide	: 0.02mg/l		: 0.1mg/l
xii)	Cadmium	: 0.002mg/l	xiv)	Molybdenum	: 0.05mg/l	xv) Mercury	: 0.001mg/l		: 0.01mg/l
xvii)	Total Chromium	: 0.05mg/l	xviii)	Total Arsenic	: 0.002mg/l	xix) Zinc	: 0.05mg/l		: 0.01mg/l
100	THE RESERVE OF THE PARTY OF THE		-						C. St. Carlotte Co. Carlotte Co

xxi) Phenolic Compounds: 0.001mg/l

Remarks on Chemical Test Report:

- The above mentioned sample of potable water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.
- Total Dissolved Solids, Alkanity, Total Hardness & Chloride are beyond the acceptable limit but within the permissible limit.

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

-: END OF TEST REPORT :-

Report Verified by (J. DAS)

NOB

Dr. R. KARIM
Technical Manager
Authorized Signatory
For R.V.BRIGGS & CO. PRIVATE LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

ULR NO. TC781523100003347F

	W(D)/23-24/658	Date : June 01, 2023 Page 1 of 3							
	ed to	 : M/S, INDORAMA INDIA Durgachak, Haldia, East 	PRIVATE LIM	MITED					
San	r Ref No. nple Description ection Source	: PO No.: 4700019593 letter of : Drinking Water : Borewell Water Kumar C Deep Tubewell	did. 28.04.2023	Environmental conditions during sampling Temperature: 28°C, Transport by : Through loe Box Transport condition : Cold chain maintained					
San	ple Drawn by us on ple carried out by	: 24.05.2023 at 14.00pm : Mr. S.Mukherjee							
Sampling Plan : Method of Sampling Mode of Sampling Analysis Completed on		: RVB/FM/44 : IS : 15185 : Grab : 26.05.2023		Parameters Tested: Microbiological 1) Coliform Organism (2) E Coli					
	robiological Test Fin		11-1-1						
SI No.	Test parameters	Test Method	Unit	Results	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015				
1	Coliform Organism	APHA 23rd Edn. 9222B	CFU/100ml	Absent	Absent				
2	E. coli	APHA 23rd Edn. 9222H	CFU/100ml	Absent	Absent				

Remarks on Test Report:

The above mentioned sample of drinking water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

NCS

Pijush Kanti Dutta Sr. Microbiologist Authorized Signatory



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TEST REPORT

ULR NO. TC781523100003347F

-	. W(D)/23-24/658	Date : June 01				Page 2 of		
550	ued to	: M/S, INDORAMA INDIA PRIVATE LIMITED						
_		Durgachak, Haldia, East Me						
	ır Ref No.	: PO No.: 4700019593 letter	dtd. 28.0	Environm	ental conditio	ns during sampling		
	mple Description	: Drinking Water		Temperature: 28°C,				
Col	lection Source	: Borewell Water Kumar Chair	Transport	by : Through lo	e Box			
		Deep Tubewell	Transport	condition : Cold	chain maintained			
	mple Drawn by us on	: 24.05.2023 at 14.00pm		0000000000				
	mple carried out by	: Mr. S.Mukherjee						
	mpling Plan :	: RVB/FM/44		Paramete	rs Tested: Phy	ysical & Chemical		
	thod of Sampling	: IS : 3025 (Part - 1) 1987				ical - 6 Parameters		
	de of Sampling	: Grab		2. General	Parameters - 3	23 Parameters		
	alysis Completed on	: 31.05.2023			ibstances - 8 F			
h	sical & Chemical Test Find	ings :						
SI Test parameters		Total Mathed	est Method Unit		IS: 1050	orms as per 0, 2012 (2nd Rev.),		
No.	Test parameters	rest Method	Cnn	Results		nd., June 2015		
					Acceptable	Permissible		
. 0	Organoleptic and Physical Paramet	rrs	_		Lims	Limit		
1	Colour	IS: 3025-(part-4): 1983	Hazen	1	5 Max	****		
2	Odour	IS:3025(Part-5):1983	rissen	-	Agreeable	15 Max		
*	Taste	18:3025(Part-8):1984			Agrecable	Agreeable Agreeable		
4	pH value	1S: 3025 (Part-11): 1983	6010	7.4	6.5 - 8.5	No Relaxation		
5	Turbidity	IS: 3025 (Part-10): 1984	NTU	2.6	1 Max	5 Max.		
6	Total Dissolved Solids	15: 3025 (Part-16): 1984	mg/l	802	500 Max.	2000 Max.		
G	central Parameters Concerning Su	tstances Undesirable in Excessive A	mounts	002	Joe Mar.	2000 Max.		
1	Aluminium as Al	IS: 3025 (Part-55)	me/l	< 0.03	0.03 Max.	0.2 May.		
2	Ammonia (NH3-N)	IS: 3025(Part-34)	mg/l	<0.2	0.5 Max.	No Relaxation		
3	Anionic detergents(as MBAS)	Annex K of 15: 13428	mp/l	< 0.05	0.2 Max.	1 Max		
4	Barium as Ba	APHA 23rd Edn. 3111D	mg/I	<0.5	0.7 Max.	No Relaxation		
5	Boron as B	IS: 3025 (Part-57): 2005	mg/l	< 0.2	0.5 Max.	2.4 Max.		
6	Calcium as Ca	IS: 3025 (Part-40): 1991	mg/l	71	75 Max.	200 Max.		
7	Chloride as Cl	IS: 3025 (Part-32): 1988	mg/l	245	250 Max.	1000 Max.		
8	Copper as Cu	15. 3025 (Part-42): 1992	rog/l	< 0.05	0.05 Max.	1.5 Max.		
9	Fluoride as F	IS: 3025 (Part-60): 2008	rog/l	0.50	I Max.	1.5 Max.		
_	Iron as Fe	IS: 3025 (Part-53): 2003	mg/l	0.86	1,0 Max.	No Relaxation		
	Magnesium as Mg	IS: 3025 (Part-46): 1994	mg/l	29	30 Max.	100 Max.		
_	The state of the s	IS: 3025 (Part-59): 2006	mg/l	0.087	0.1 Max.	0.3 Max.		
detection in	Nitrate as NO ₃	IS: 3025 (Part-34): 1988	mg/l	30.5	45 Max.	No Relaxation		
	Phenotic Compounds as C ₆ H ₃ OH	IS: 3025 (Part-43): 1992	mg/l	< 0.001	0.001 Max.	0.002 Max.		
_	Selenium as Se	IS: 3025 (Part-56): 2003	mg/l	< 0.01	0.01 Max.	No Relaxation		
6	Silver as Ag	Annex J of IS: 13428	mg/l	< 0.05	0.1 Max.	No Relaxation		
17	Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l	19.5	200 Max.	400 Max.		

Cont. page - 2



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Results relate only to the parameters tested.



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CIN: U51109WB1931PTC007007



TEST REPORT

	W(D)/23-24/658	Date : June 01	, 2023			Page 3	
SI No.	Test parameters	Test Method	Unit	Result	Norms as per		
18	Sulphide as H ₂ S		12000	A CONTRACTOR	Acceptable	Permissible	
		IS: 3025 (Part-29): 1986	mg/I	< 0.05	0.05 Max.	Limit	
20	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	273	200 Max.	No Relaxation	
_	Total Hardness as CaCO3	IS: 3025 (Part-21) + 2009	mg/l	297	200 Max.	600 Max.	
7.7	Zinc as Zn	IS: 3025 (Part-49): 1994	mg/l	0.244	5 Max.	600 Max	
	arameters Concerning Toxic Subst	ances	-		J. migr.	15 Max	
	Cadmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	11 W. c	
	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/l	< 0.02	Control of the Contro	No Relaxation	
_	Lead as Pb	IS: 3025 (Part-47): 1994			0.05 Max.	No Relaxation	
4	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/t	< 0.01	0.01 Max.	No Relaxation	
	Molybdenum as Mo		mg/l	< 0.001	0.001 Max.	No Relaxation	
	Nickel as Ni	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation	
	Total Arsenic as As	IS: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Max.	No Relaxation	
	Total Chromium as Cr	IS: 3025 (Part-37): 1988	mg/i	< 0.002	0.01 Max.	No Relaxation	
dini	mum detection limit:	IS: 3025 (Part-52): 2003	mg/t	< 0.05	0.05 Max.	No Relaxation	

v) Anionic Detergents ix) Sulphide xiii) Cadmium	0.05mg/l x) 0.002mg/l xi 0.05mg/l xi	Copper Selenium N Mollybdenum	0.03mg/l 0.05mg/l 0.01mg/l 0.05mg/l 0.002mg/l	iii) Ammonia vii) Silver xi) Cyanide xv) Mercury xix) Zinc	0.2mg/l 0.05mg/l 0.02mg/l 0.001mg/l 0.05mg/l	iv) Barium viii) Boron xii) Iron xvii) Lead ix) Nickel	0.5mg/l 0.2mg/l 0.1mg/l 0.01mg/l
--	--	-------------------------------	---	--	--	--	---

xxi) Phenolic Compounds : 0.001mg/l

Remarks on Chemical Test Report:

i) The above mentioned sample of potable water complies with IS: 10500, 2012 (2nd Rev.) & Salisfactory for drinking purpose, in respect of the above mentioned parameters.

ii) Total Dissolved Solids, Alkanity, Total Hardness & Turbidity are beyond the acceptable limit but within the permissible limit.

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

-: END OF TEST REPORT :-

Report Verified by (J. DAS)

Technical Manager Authorized Signatory For R.V.BRIGGS & CO. PRIVATE LTD.

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Your Ref No.

R. V. BRIGGS & CO. PRIVATE LTD.

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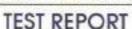
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ULR NO. TC781523100004828F

Date: August 11, 2023 No. W(D)/23-24/1452

Page 1 of 3

: M/S, INDORAMA INDIA PRIVATE LIMITED Issued to

Durgachak, Haldia, East Medinipore.

PO No.: 4700019593 letter dtd. 28.04.2023

Ground Water Sample Description Collection Source Borewell No. 1

28.07.2023 at 11.30am Sample Drawn by us on

Sample carried out by Mr. S.Mukheriee : RVB/FM/46 Sampling Plan:

: ISO 19458:2006 (E) Method of Sampling Mode of Sampling Grab Analysis Completed on 31.07.2023

Environmental conditions during sampling

Temperature: 29°C,

Transport by : Through Ice Box

Transport condition : Cold chain maintained

Parameters Tested: Microbiological

1) Coliform Organism (2) E.Coli

SI No.	robiological Test Find Test parameters	Test Method	Unit	Results	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015
ı	Coliform Organism	APHA 23rd Edn. 9222B	CFU/100ml	Absent	Absent
2	E. coli	APHA 23rd Edn. 9222H	CFU/100ml	Absent	Absent

Remarks on Test Report:

The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

Verified by

Pijush Kanti Dutta Sr. Microbiologist

Authorized Signatory



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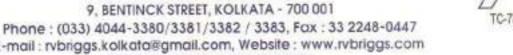
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CIN: U51109WB1931PTC007007





TEST REPORT

lo. W(D)/23-24/1452		Date : August 11, 2023 Page 2 of 3							
	ed to	: M/S, INDORAMA INDIA PRIVATE LIMITED							
2000		Durgachak, Haldia, East Med	inipore.	estable -					
Zour	Ref No.	: PO No.: 4700019593 letter di	td. 28.04	.2023					
10000	ple Description	: Ground Water	Environmen		during sampling				
	ection Source	: Borewell No. 1	Temperature						
	ple Drawn by us on	: 28.07.2023 at 11.30am	- 1	Transport by	: Through Ice	Box			
	ple carried out by	: Mr. S.Mukherjee	Transport co	endition : Cold o	hain maintained				
	opling Plan :	: RVB/FM/46		Parameter	Tested: Phys	ical & Chemical			
	hod of Sampling	: IS: 17614 (Part - 1): 2021	1	1. Organolej	ptic and Physic	al - 6 Parameters			
	Control of the Contro	: Grab		2. General F	arameters - 23	Parameters			
	le of Sampling lysis Completed on	08.08.2023	3. Toxic Sub	stances - 8 Pa	rameters				
Anai	sical & Chemical Test Findi								
Pny	sical & Chemical Test I ma		1			ms as per			
			1			2012 (2nd Rev.),			
SI	Test parameters	Test Method	Unit	Results		d., June 2015			
No.		9040049009000	1		Acceptable	Permissible			
					Limit	Limit			
A. O	organoleptic and Physical Paramet	ters	Local		5 Max.	15 Max.			
	Colour	IS: 3025-(part-4): 1983	Hazen	1		Agreeable			
2	Odour	IS:3025(Part-5):1983	1110	Agreeable	The second second second second second	Agreeable			
3	Taste	IS:3025(Part-8):1984		Agreeable	6.5 - 8.5	No Relaxation			
4	pH value	IS: 3025 (Part-11): 1983	ACCULA	7.4	1 Max.	5 Max.			
	Turbidity	IS: 3025 (Part-10): 1984	NTU	526	500 Max.	2000 Max.			
6	Total Dissolved Solids	IS: 3025 (Part-16): 1984	mg/l	220	Joe Max.	activity Traces			
B. G	General Parameters Concerning St	abstances Undesirable in Excessive	Amounts	< 0.03	0.03 Max.	0.2 Max.			
1	Aluminium as Al	IS: 3025 (Part-55)	mg/I	<0.2	0.5 Max.	No Relaxation			
2	Ammonia (NH3-N)	1S: 3025(Part-34)	mg/l	<0.05	0.2 Max.	1 Max			
3.	Anionic detergents(as MBAS)	Annex K of IS: 13428	mg/l	<0.5	0.7 Max.	No Relaxation			
4	The state of the s	APHA 23rd Edn. 3111D	mg/l	<0.2	0.5 Max.	2,4 Max.			
5	Boron as B	IS: 3025 (Part-57): 2005 IS: 3025 (Part-40): 1991	mg/l	58	75 Max.	200 Max.			
6	Calcium as Ca	IS: 3025 (Part-32): 1988	mg/l	257	250 Max.	1000 Max.			
7	Chloride as Cl	IS: 3025 (Part-42): 1992	mg/l	< 0.05	0.05 Max.	1.5 Max.			
8	The state of the s	1S: 3025 (Part-60): 2008	mg/l	0.98	1 Max.	1.5 Max.			
9	and the same of th	1S: 3025 (Part-53): 2003	mg/I		1.0 Max.	No Relaxation			
10		IS: 3025 (Part-46): 1994	mg/l		30 Max.	100 Max.			
11		1S: 3025 (Part-59): 2006	mg/l	0.44	0.1 Max.	0.3 Max.			
12		IS: 3025 (Part-34): 1988	mg/l	4.0	45 Max.	No Relaxation			
13	a contraction		mg/l	0.001	0.001 Max.	0.002 Max.			
14		1S: 3025 (Part-56): 2003	mg/l	0.00	0.01 Mas.	No Relaxation			
15		Annex J of IS: 13428	mg/l	0.05	0.1 Max.	No Relaxation			
16	6 Silver as Ag 7 Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l		200 Max.	400 Max.			

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CIN: U51109WB1931PTC007007



TEST REPORT

No.	W(D)/23-24/1452	Date : August 1	1, 2023		· ·	Page 3 of	
SI	Test parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015		
No.					Acceptable Limit	Permissible Limit	
18	Sulphide as H ₂ S	IS: 3025 (Part-29): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation	
-	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	302	200 Max.	600 Max.	
-	Total Hardness as CaCO3	IS: 3025 (Part-21) - 2009	mg/l	238	200 Max.	600 Max.	
21	Zinc as Ze	IS: 3025 (Part-49): 1994	mg/l	< 0.05	5 Max.	15 Max.	
_	Sodium as Na	IS: 3025 (Part-45): 1993	mg/t	174.3	000	***	
_	Potassium as K	IS: 3025 (Part-45): 1993	mg/l	3.53		***	
C. P	arameters Concerning Toxic Subs	tances					
	Cadmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	No Relaxation	
-	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation	
_	Lead as Pb	IS: 3025 (Pari-47): 1994	mg/l	< 0.01	0.01 Max.	No Relaxation	
4	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/l	< 0.001	0.001 Max.	No Relaxation	
	Molybdenum as Mo	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation	
	Nickel as Ni	IS: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Max.	No Relaxation	
7	Total Arsenic as As	IS: 3025 (Part-37): 1988	mg/l	< 0.002	0.01 Max.	No Relaxation	
В	Total Chromium as Cr	IS: 3025 (Part-52): 2003	mg/l	< 0.05	0.05 Max.	No Relaxation	

Minimum detection limit:

10	Anionic Detergents	: 0.05mg/l	li)	Aluminium	; 0.03mg/l	iii) Ammonia	: 0.2mg/l	iv) Barium	0.5mg/l
100	The state of the s	: 0.05mg/l			: 0.05mg/l	vii) Silver	: 0.05mg/l	viii) Boron	: 0.2mg/l
70000	CONTRACTOR OF THE CONTRACTOR O	A STATE OF THE PARTY OF THE PAR		Selenium	: 0.01mg/l	xi) Cyanide	: 0.05mg/l	xii) Nickel	: 0.01mg/l
0.00				Mollybdenum	: 0.05mg/l	xv) Mercury	: 0.001mg/l	xvi) Lead	± 0.01mg/l

xviii) Zinc : 0.05mg/l xviii) Total Arsenic : 0.002mg/l xix) Phenolic Compounds : 0.001mg/l

Remarks on Chemical Test Report:

 The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

 Turbidity, Total Dissolved Solids, Chloride, Manganese, Total Alkanity & Total Hardness are beyond the acceptable limit but within the permissible limit.

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

-: END OF TEST REPORT :-

Report Verified by (J. DAS) (Dr. R. KARIM)
Technical Manager

Authorized Signatory For R.V.BRIGGS & CO. PRIVATE LTD.

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Phone: (033) 4044-3380/3381/3382 / 3383, Fax: 33 2248-0447 E-mail: rvbriggs.kolkata@gmail.com, Website: www.rvbriggs.com

CIN: U51109WB1931PTC007007

TEST REPORT

0)/23-24/1452	Date : August 11, 2023		Page 4 of
	Durgachak, Haldia, East Medin	ipore.	
Description on Source Drawn by us on carried out by ng Plan: of Sampling f Sampling s Completed on	: Ground Water : Borewell No. 1 : 28.07.2023 at 11.30am : Mr. S.Mukherjee : RVB/FM/46 : IS : 17614 (Part - 1) : 2021 : Grab : 08.08.2023	Environmental co Temperature: 29 ⁰ Transport by : Thro Transport condition	ough Ice Box n : Cold chain maintained
al & Chemical Test Fine	dings :		
Test parameters	Test Method	Unit	Results
	of No. Description on Source Drawn by us on carried out by og Plan: of Sampling f Sampling s Completed on al & Chemical Test Fine	: M/S, INDORAMA INDIA PRIV Durgachak, Haldia, East Medin F No. : PO No.: 4700019593 letter dtd Description : Ground Water on Source : Borewell No. 1 Drawn by us on : 28.07.2023 at 11.30am carried out by : Mr. S.Mukherjee ig Plan : : RVB/FM/46 of Sampling : RVB/FM/46 IS : 17614 (Part - 1) : 2021 f Sampling : Grab s Completed on : 08.08.2023	: M/S, INDORAMA INDIA PRIVATE LIMITED Durgachak, Haldia, East Medinipore. If No. : PO No.: 4700019593 letter dtd. 28.04.2023 Description : Ground Water : Environmental common Source : Borewell No. 1 : Temperature: 29°0 in the carried out by : Mr. S. Mukherjee : Transport by : Three carried out by : RVB/FM/46 : RVB/FM/46 : Parameters Test in the carried on : 08.08.2023 If Sampling : Grab : 08.08.2023

Physical & Chemical Test Findings :

SI No. Test parameters Test Method Unit Results

1 biCarbonate IS: 3025 -(part-23) - 1986 mg/l 301.6

-: END OF TEST REPORT :-

Report Verified by

(J. Das)

(Dr. R. KARIM)
Technical Manager
Authorised Signatory



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CIN: U51109WB1931PTC007007

TEST REPORT

No.	W(D)/23-24/1452	Date : August 11, 2023	P. L. Constanting		Page 5 of
ssue	ed to	: M/S, INDORAMA INDIA PR Durgachak, Haldia, East Me		MITED	
Your	Ref No.	: PO No.: 4700019593 letter of		2023	
Sam	ple Description	: Ground Water		Environment	al conditions during sampling
	ection Source	: Borewell No. 1		Temperature:	29°C,
Sample Drawn by us on Sample carried out by		: 28.07.2023 at 11.30am		Transport by	Through Ice Box
		: Mr. S.Mukherjee		Transport con	dition : Cold chain maintained
Sampling Plan :		: RVB/FM/46		Parameters	Tested: Chemical
Method of Sampling		: IS: 17614 (Part - 1): 2021		Atrazine & Gamma HCH (Lindane)	
Mode of Sampling		: Grab			
	ysis Completed on	: 08.08.2023			
	sical & Chemical Test I				
SI. No.	Test Parameters	Test Method	Unit	Result	Norms as per 1S :10500, 2012 (2nd Rev.) Requirement/Limit
1	Atrazine	APHA 23rd Edn. 6630B	µg/1	< 0.10	2 µg/l
	Gamma HCH (Lindane)	APHA 23rd Edn. 6630B	рдл	< 0.01	2 µg/l

-: END OF TEST REPORT :-

Report Verified by

(Dr. R. KARIM) Technical Manager

Authorised Signatory



ULR NO. TC781523100004829F

Mode of Sampling

Analysis Completed on

R. V. BRIGGS & CO. PRIVATE LTD.

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CIN: U51109WB1931PTC007007



TEST REPORT

NO. W(U)/23-24/1453	Date : August 11, 2023	rage i oi s
Issued to	: M/S, INDORAMA INDIA PRIVATE LIMI	TED
	Durgachak, Haldia, East Medinipore.	- Carte
Your Ref No.	: PO No.: 4700019593 letter dtd, 28.04.2023	Environmental conditions during sampling
Sample Description	: Ground Water	Temperature: 29°C,
Collection Source	: Borewell No. 2	Transport by : Through Ice Box
Sample Drawn by us on	: 28.07.2023 at 12.00pm	Transport condition: Cold chain maintained

Sample carried out by : Mr. S.Mukherjee Parameters Tested: Microbiological : RVB/FM/46 Sampling Plan: Method of Sampling

APHA 23rd Edn. 9222H

: 31.07.2023

1) Coliform Organism (2) E.Coli : ISO 19458:2006 (E) : Grab

SI No.	Test parameters	Test Method	Unit	Results	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015
ा	Coliform Organism	APHA 23rd Edn. 9222B	CFU/100ml	Absent	Absent

Remarks on Test Report:

2 E. coli

The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

CFU/100ml

Absent

Verified by

Pijush Kanti Dutta Sr. Microbiologist Authorized Signatory

Absent



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CIN: U51109WB1931PTC007007



TEST REPORT

THE PLANT	TO704	E0246	00004829F
111 M MIL)	11.7367	2.5	10 11 12 12 15 2 M F

_	W(D)/23-24/1453	Date : August 1				Page 2 of
Issued to		: M/S, INDORAMA INDIA PE		IMITED		
		Durgachak, Haidia, East Mo				
Your Ref No.		: PO No.: 4700019593 letter	dtd. 28.04	1.2023		
Sam	ple Description	: Ground Water				s during sampling
Coll	ection Source	: Borewell No. 2		Temperatur	e: 29 ⁰ C,	
Sam	ple Drawn by us on	: 28.07.2023 at 12.00pm		Transport by	y: Through Ice	Box
Sam	ple carried out by	: Mr. S.Mukherjee		Transport of	ondition : Cold	chain maintained
Sam	npling Plan :	: RVB/FM/46		Parameter	s Tested: Phys	sical & Chemical
Met	hod of Sampling	: IS: 17614 (Part - 1): 2021		1. Organole	ptic and Physic	cal - 6 Parameters
Mod	le of Sampling	: Grab		2. General f	Parameters - 2	3 Parameters
Ana	lysis Completed on	: 08.08.2023		3. Toxic Sul	ostances - 8 Pa	arameters
hy	sical & Chemical Test Findi	ngs :			***************************************	
		20,	-		No	rms as per
SI		AND THE PERSON NAMED IN			IS: 10500	, 2012 (2nd Rev.),
No.	Test parameters	Test Method	Unit	Results	Amend., June 2015	
NO.	HAN KIND KAN KAN KAN KAN	. 1000-110-100-100-100-100-100-100-100-10	0.000,7		Acceptable	Permissible
					Limit	Limit
	rganoleptic and Physical Paramet					
_	Colour	IS: 3025-(part-4): 1983	Hazen	1	5 Max.	15 Max.
	Odour	IS:3025(Part-5):1983	++++	The second secon	Agreeable	Agreeable
3	Taste	IS:3025(Part-8):1984		Agreeable	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Agreeable
-	pH value	IS: 3025 (Part-11): 1983	11111	7.3	6.5 - 8.5	No Relaxation
-	Turbidity	IS: 3025 (Part-10): 1984	NTU	<1	1 Max.	5 Max.
	Total Dissolved Solids	IS: 3025 (Part-16): 1984	mg/l	1226	500 Max.	2000 Max.
_	The second secon	bstances Undesirable in Excessive	ASSESSMENT OF THE PARTY OF THE	_		
- income	Aluminium as Al	IS: 3025 (Part-55)	mg/l	< 0.03	0.03 Max.	0.2 Max.
-	Ammonia (NH3-N)	IS: 3025(Part-34)	mg/l	<0.2	0.5 Max.	No Relaxation
-	Anionic detergents(as MBAS)	Annex K of IS: 13428	mg/l	< 0.05	0.2 Max.	1 Max
-	Barium as Ba	APHA 23rd Edn. 3111D	mg/l	<0.5	0.7 Max.	No Relaxation
_	Boron as B	IS: 3025 (Part-57): 2005	mg/l	<0.2	0.5 Max.	2.4 Max.
_	Calcium as Ca	IS: 3025 (Part-40): 1991	mg/l	93	75 Max.	200 Max.
_	Chloride as CI	IS: 3025 (Part-32): 1988	mg/l	411	250 Max.	1000 Max.
-	Copper as Cu	IS: 3025 (Part-42): 1992	mg/I	<0.05	0.05 Max.	1.5 Max.
	Fluoride as F	IS: 3025 (Part-60): 2008	mg/l	0.67	1 Max.	1.5 Max.
	Iron as Fe	IS: 3025 (Part-53): 2003	mg/I	< 0.1	1.0 Max. 30 Max.	No Relaxation
_	Magnesium as Mg	IS: 3025 (Part-46): 1994	mg/l	31.9		100 Max.
_	Manganese as Mn	IS: 3025 (Part-59): 2006	mg/I	0.12	0.1 Max.	0.3 Max.
CANCEL	Nitrate as NO ₃	IS: 3025 (Part-34): 1988	mg/l	8.9	45 Max.	No Relaxation
	Phenolic Compounds as C ₆ H ₅ OH	IS: 3025 (Part-43): 1992	mg/l	<0.001	0.001 Max.	0.002 Max.
_	Selenium as Se	IS: 3025 (Part-56): 2003	mg/I	<0.01	0.01 Max.	No Relaxation
	Silver as Ag	Annex J of IS: 13428	mg/I	<0.05	0.1 Max.	No Relaxation
17	Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l	< 1	200 Max.	400 Max. Cont. page

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CIN: U51109WB1931PTC007007



TEST REPORT

No. W(D)/23-24/1453		0)/23-24/1453 Date : August 11, 2023				
SI No.	Test parameters Test Method U	Test parameters Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015	
10.		1 220000	000000	Acceptable Limit	Permissible Limit	
18	Sulphide as H ₂ S	IS: 3025 (Part-29): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation
19	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	302	200 Max.	600 Max.
20	Total Hardness as CaCO3	IS: 3025 (Part-21) - 2009	mg/l	364	200 Max.	600 Max.
21	Zine as Zn	IS: 3025 (Part-49): 1994	mg/l	< 0.05	5 Max.	15 Max.
22	Sedium as Na	IS: 3025 (Part-45): 1993	mg/l	254.2	444	***
23	Potassium as K	IS: 3025 (Part-45): 1993	mg/l	4.51	***	
C. P	arameters Concerning Toxic Subs	tances	- nepsettin	0-1111	- 31	
1	Codmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	No Relaxation
2	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation
3	Lead as Pb	IS: 3025 (Part-47): 1994	mg/l	< 0.01	0.01 Max.	No Relaxation
4	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/l	< 0.001	0.001 Max.	No Relaxation
5	Molybdenum as Mo	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation
6	Nickel as Ni	IS: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Max.	No Relexation
7	Total Arsenic as As	IS: 3025 (Part-37): 1988	mg/l	< 0.002	0.01 Max.	No Relaxation
8	Total Chromium as Cr	IS: 3025 (Part-52): 2003	mg/l	< 0.05	0.05 Max.	No Relaxation

Minimum detection limit:

	section and section as a section of								
1)	Anionic Detergent	ts: 0.05mg/l	ii)	Aluminium	: 0.03mg/l	iii) Ammonia	: 0.2mg/l	iv) Barium	: 0.5mg/l
v)	Sulphide	: 0.05mg/l	vi)	Copper	: 0.05mg/l	vii) Silver	: 0.05mg/l	viii) Boron	: 0.2mg/l
ix)	Cadmium	: 0.002mg/l	x)	Selenium	: 0.01mg/l	xi) Cyanide	: 0.05mg/l	xii) Iron	: 0.1mg/l
xiii)	Total Chromium	: 0.05mg/l	xiv)	Mollybdenum	: 0.05mg/l	xv) Mercury	; 0.001mg/l	xvi) Lead	: 0.01mg/l
xvii)	Turbidity	: 1.0NTU	xviii)	Total Arsenic	: 0.002mg/l	xix) Zinc	; 0.05mg/l	xx) Nickel	: 0.01mg/l

xxi) Sulphate Remarks on Chemical Test Report:

1.0mg/l

- i) The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.
- ii) Total Dissolved Solids, Calcium, Chloride, Magnesium, Manganese, Total Alkanity & Total Hardness are beyond the acceptable limit but within the permissible limit.

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

xxii) Phenolic Compounds: 0.001mg/l

-: END OF TEST REPORT :-

Report Verified by (J. DAS)

(Dr. R. KARIM) Technical Manager Authorized Signatory

For R.V.BRIGGS & CO. PRIVATE LTD.

ACB



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CIN: U51109WB1931PTC007007

TEST REPORT

to lef No. e Description tion Source e Drawn by us on e carried out by	: M/S, INDORAMA INDIA PRIN Durgachak, Haldia, East Med : PO No.: 4700019593 letter dt : Ground Water : Borewell No. 2 : 28.07.2023 at 12.00pm	inipore. d. 28.04.2023	ditions during sampling	
e Description tion Source e Drawn by us on	: Ground Water : Borewell No. 2	Environmental con		
tion Source e Drawn by us on	: Borewell No. 2	The state of the s		
e Drawn by us on		The state of the s		
	: 28 07.2023 at 12.00pm			
e carried out by	the second secon	Transport by : Throu		
	이 가장하는 경기가 되었다면 하다 있다면 가장 내 생각 내가 되었다면 하게 되었다면 하는데		: Cold chain maintained	
ing Plan :	: RVB/FM/46	Parameters Tested: Chemical		
d of Sampling	: IS : 17614 (Part - 1) : 2021 biCarbonate			
of Sampling	Grab	3 C.		
is Completed on	: 08.08.2023			
al & Chemical Test Fine	dings :			
Test parameters	Test Method	Unit	Results	
Code-code	IP. 2025 (22) 1096		301.6	
0	f Sampling s Completed on al & Chemical Test Fin	f Sampling : Grab s Completed on : 08.08.2023 al & Chemical Test Findings : Test parameters Test Method	f Sampling : Grab s Completed on : 08 08 2023 al & Chemical Test Findings : Test parameters Test Method Unit	

-: END OF TEST REPORT :-

Report Verified by (J. Das) (Dr. R. KARIM) Technical Manager

Authorised Signatory



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CIN: U51109WB1931PTC007007

TEST REPORT

Sample Description : Borewell No. 2 : Transport by : Through Ice Box Transport condition : Cold chain maintain Parameters Tested: Chemical Atrazine & Gamma HCH (Lindane) Mode of Sampling : Grab : O8.08.2023 Physical & Chemical Test Findings : Test Method Unit Result IS:10590, 2012 (2nd in the condition is condition in the condition in the condition is condition.	No.	W(D)/23-24/1453	Date : August 11, 2023			Page 5 of
Your Ref No. : PO No.: 4700019593 letter dtd. 28.04 2023 Sample Description : Ground Water Collection Source : Borewell No. 2 Temperature: 29°C, Sample Drawn by us on : 28.07.2023 at 12.00pm Transport by : Through Ice Box Sample carried out by : Mr. S.Mukherjee Transport condition : Cold chain maintain Sampling Plan : RVB/FM/46 Parameters Tested: Chemical Method of Sampling : IS : 17614 (Part - 1) : 2021 Atrazine & Gamma HCH (Lindane) Mode of Sampling : Grab Analysis Completed on : 08.08.2023 Physical & Chemical Test Findings : SI. Test Parameters Test Method Unit Result IS : 10500, 2012 (2nd I	Issue	d to				
SI. Test Parameters Test Method Unit Result IS:10500, 2012 (2nd I	Samp Collect Samp Samp Samp Metho Mode	ole Description ction Source ole Drawn by us on ole carried out by oling Plan : od of Sampling of Sampling	: PO No.: 4700019593 letter : Ground Water : Borewell No. 2 : 28.07.2023 at 12.00pm : Mr. S.Mukherjee : RVB/FM/46 : IS: 17614 (Part - 1): 2021 : Grab	dtd. 28.04	Environment Temperature Transport by Transport cor Parameters	: 29°C, : Through Ice Box ndition : Cold chain maintained Tested: Chemical
No. Test Parameters Test Method Unit Result IS:10500, 2012 (2nd I	Physi	ical & Chemical Test	Findings :			
	633.23	Test Parameters	Test Method	Unit	Result	Norms as per IS :10500, 2012 (2nd Rev.) Requirement/Limit

Test Parameters	Test Method	Unit	Result	IS :10500, 2012 (2nd Rev.)	Requirement/Limit
Atrazine	APHA 23rd Edn. 6630B	μg/l	< 0.10	2 μg/l	
2	Gamma HCH (Lindane)	APHA 23rd Edn. 6630B	μg/l	< 0.01	2 μg/l

-: END OF TEST REPORT :-

Report Verified by

(J. Das)

(Dr. R. KARIM)
Technical Manager
Authorised Signatory



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CIN: U51109WB1931PTC007007



TEST REPORT

ULR NO. TC78152310000 No. W(D)/23-24/1497	4981F Date : August 22, 2023	Page 1 of
ssued to	: M/S, INDORAMA INDIA PRIVATE LIMIT Durgachak, Haldia, East Medinipore. : PO No.: 4700019593 letter dtd. 28.04.2023	Tenvironmental conditions during sampling
Your Ref No. Sample Description Collection Source Sample Drawn by us on Sample carried out by Sampling Plan Method of Sampling Mode of Sampling	: PO No.: 4700019383 kitto : Ground Water : Dock side Borewell : 08.08.2023 at 03.50pm : Mr. S.Mukherjee : RVB/FM/46 : ISO 19458:2006 (E) : Grab : 11.08.2023	Temperature: 31°C, Transport by: Through Ice Box Transport condition: Cold chain maintained Parameters Tested: Microbiological 1) Coliform Organism (2) E.Coli

Mic	ysis Completed on obiological Test Find		1000040	Results	Norms as per 1S: 10500, 2012 (2nd Rev.),
SI No.	Test parameters	ameters Test Method Unit	Results	Amend., June 2015	
1	Culiform Organism	APHA 23rd Edn. 9222B	CFU/100ml	Absent	Absent
2	E. coli	APHA 23rd Edn. 9222H	CFU/100ml	Absent	Absent

The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.

-: END OF TEST REPORT :-

Verified by

Pijush Kanti Dutta Sr. Microbiologist Authorized Signatory



ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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CIN: U51109WB1931PTC007007



TEST REPORT

	. W(D)/23-24/1497	Date : August	22 2022				
Issued to		Date : August 22, 2023 Page 2 c : M/S, INDORAMA INDIA PRIVATE LIMITED					
		Durgachak, Haldia, East N	Medininore	i i i i i i i i i i i i i i i i i i i			
	ur Ref No.	: PO No.: 4700019593 lette	r dtd. 28 0	14 2022			
Sa	mple Description	: Ground Water	20.0	The state of the s			
	llection Source	: Dock side Borewell		Z	ental conditio	ons during sampling	
Sa	mple Drawn by us on	: 08.08.2023 at 03.50pm		Temperatu	ire: 31°C,		
Sai	mple carried out by	: Mr. S.Mukherjee	Transport by : Through Ice Box Transport condition : Cold chain maintained				
	mpling Plan :	: RVB/FM/46		Transport	condition : Col	d chain maintained	
Me	thod of Sampling	: IS: 17614 (Part - 1): 2021		Paramete	rs Tested: Ph	ysical & Chemical	
Mo	de of Sampling	Grab	160	1. Organo	eptic and Phys	ical - 6 Parameters	
Ana	alysis Completed on	: 17.08.2023	General Parameters - 23 Parameters Toxic Substances - 8 Parameters				
Phy	sical & Chemical Test Find	ings :	-	3. Toxic Su	ibstances - 8 P	Parameters	
					1 51		
SI	Det Marcourt Control	was a series			IS - 1050	orms as per	
No.	Test parameters	Test Method	Unit	Results	IS: 10500, 2012 (2nd Rev.),		
			100000		Acceptable	nd., June 2015	
					Limit	Permissible	
1. C	rganoleptic and Physical Paramet				1 43000	Limit	
	Colour	IS: 3025-(part-4): 1983	Hazen	1	5 Max.	15 Max	
_	Odour	1S:3025(Part-5):1983	9991	Agreeable	Agreeable	Agreeable	
	Taste pH value	IS:3025(Part-8):1984	***	Agrecable	Agreeable	Agreeable	
_	Turbidity	IS: 3025 (Part-11): 1983	****	7.2	6.5 - 8.5	No Relaxation	
	Total Dissolved Solids	IS: 3025 (Part-10): 1984	NTU	1.6	1 Max.	5 Max.	
		IS: 3025 (Part-16): 1984	mg/I	690	500 Max.	2000 Max.	
I	eneral Parameters Concerning Sul Alaminium as Al	bstances Undesirable in Excessive	Amounts	- WENT-H			
	Ammonia (NH3-N)	IS: 3025 (Part-55)	mg/l	< 0.03	0.03 Max.	0.2 Max.	
_	Anionic detergents(as MBAS)	IS: 3025(Part-34)	mg/l	< 0.2	0.5 Max.	No Relaxation	
	Barium as Ba	Annex K of IS: 13428	mg/l	< 0.05	0.2 Max.	1 Max	
_	Boron as B	APHA 23rd Edn. 3111D	mg/l	< 0.5	0.7 Max.	No Relaxation	
_	Calcium as Ca	IS: 3025 (Part-57): 2005	mg/l	< 0.2	0.5 Max.	2.4 Max.	
	Chloride as CI	IS: 3025 (Part-40): 1991	mg/l	77.6	75 Max.	200 Max.	
	Copper as Cu	IS: 3025 (Part-32): 1988	mg/l	242	250 Max.	1000 Max.	
	Fluoride as F	IS: 3025 (Part-42): 1992	mg/I	< 0.05	0.05 Max.	1.5 Max.	
	Iron as Fe	IS: 3025 (Part-60): 2008	mg/l	0.20	1 Max.	1.5 Max.	
-	Magnesium as Mg	IS: 3025 (Part-53): 2003	mg/l	0.12	I.0 Max.	No Relaxation	
_	Manganese as Mn	1S: 3025 (Part-46): 1994	mg/l	31.4	30 Max.	100 Max.	
_	Nitrate as NO ₁	1S: 3025 (Part-59): 2006	mg/l	< 0.05	0.1 Max.	0.3 Max.	
_	Phenolic Compounds as C ₆ H ₅ OH	IS: 3025 (Part-34): 1988 IS: 3025 (Part-43): 1992	mg/l	27.2	45 Max.	No Relaxation	
	Selenium as Se	IS: 3025 (Part-56): 2003	mg/l	< 0.001	0.001 Max.	0.002 Max.	
	Silver as Ag	Annex J of IS: 13428	mg/l	<0.01	0.01 Max.	No Relaxation	
	Sulphate as SO ₄	IS: 3025 (Part-24): 1986	mg/l	< 0.05	0.1 Max.	No Relaxation	
		200 2002 (1 div 24), 1700	mg/l	97.2	200 Max.	400 Max.	

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 Results relate only to the parameters tested.



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CIN: U51109WB1931PTC007007



TEST REPORT

No.	W(D)/23-24/1497	Date : August 2	2, 2023			Page 3 of
SI No.	AND THE PROPERTY OF THE PROPER	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2nd Rev.), Amend., June 2015	
-					Acceptable Limit	Permissible Limit
THE REAL PROPERTY.	Sulphide as H ₂ S	IS: 3025 (Part-29): 1986	mg/l	< 0.05	0.05 Max.	No Relaxation
19	Total Alkanity as CaCO3	IS: 3025 (Part-23): 1986	mg/l	181	200 Max.	600 Max.
20	Total Hardness as CaCO3	IS: 3025 (Part-21) - 2009	mg/l	323	200 Max.	600 Max.
21	Zinc as Zn	IS: 3025 (Part-49): 1994	mg/l	< 0.05	5 Max.	15 Max.
22	Sodium as Na	IS: 3025 (Part-45): 1993	mg/l	168.1		
23	Potassium as K	IS: 3025 (Part-45): 1993	mg/I	5.13		- District
, P	arameters Concerning Toxic Subs	tances				
1	Cadmium as Cd.	IS: 3025 (Part-41): 1992	mg/l	< 0.002	0.003 Max.	No Relaxation
2	Cyanide as CN	IS: 3025 (Part-27): 1986	mg/I	< 0.05	0.05 Max.	No Relaxation
3	Lead as Pb	IS: 3025 (Part-47): 1994	mg/l	< 0.01	0.01 Max.	No Relaxation
	Mercury as Hg	IS: 3025 (Part-48): 1994	mg/l	< 0.001	0.001 Max.	No Relaxation
	Molybeenum as Mo	IS: 3025 (Part-2): 2004	mg/l	< 0.05	0.07 Max.	No Relaxation
-	Nickel as Ni	IS: 3025 (Part - 54) 2003	mg/l	< 0.01	0.02 Max.	No Relaxation
7	Total Arsenic as As	IS: 3025 (Part-37): 1988	mg/l	< 0.002	0.01 Max.	No Relaxation
8	Total Chromium as Cr	1S: 3025 (Part-52): 2003	mg/l	< 0.05	0.05 Max.	No Relaxation

Minimum detection limit:

i)	Anionic Detergent	ts: 0.05mg/l	ii)	Aluminium	: 0.03mg/l	iii) Ammonia	: 0.2mg/l	iv) Barium : 0.5mg/l
V)	Sulphide	: 0.05mg/l	vi)	Copper	: 0.05mg/l	vii) Silver	: 0.05mg/l	viii) Boron : 0.2mg/l
ix)	Cadmium	0.002mg/l	x)	Selenium	: 0.01mg/l	xi) Cyanide	: 0.05mg/l	xii) Nickel : 0.01mg/l
xiii)	Total Chromium	: 0.05mg/l	xiv)	Mollybdenum	: 0.05mg/l	xv) Mercury	: 0.001mg/I	xvi) Lead : 0.01mg/l
xvii)	Manganese	: 0.05mg/l	xviii	Total Arsenic	± 0.002mg/l	xix) Zinc	: 0.05mg/l	A CHARLES

xx) Phenolic Compounds: 0.001mg/l

Remarks on Chemical Test Report:

- The above mentioned sample of water complies with IS: 10500, 2012 (2nd Rev.) & Satisfactory for drinking purpose, in respect of the above mentioned parameters.
- Turbidity, Total Dissolved Solids, Calcium, Magnesium & Total Hardness are beyond the acceptable limit but within the permissible limit.

Remarks on Test Report in respect of Microbiological & Chemical Test: The Water sample is fit for Human Consumption, in respect of the above Microbiological & Chemical Parameters

-: END OF TEST REPORT :-

Report Verified by (J. DAS) (Dr. R. KARIM)

Technical Manager

Authorized Signatory

For R.V.BRIGGS & CO. PRIVATE LTD.

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ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

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CIN: U51109WB1931PTC007007

TEST REPORT

No.	W(D)/23-24/1497	Date : August 22, 2023	Page 4 of 4			
_	ued to	: M/S, INDORAMA INDIA PRI\ Durgachak, Haldia, East Medi				
You	ır Ref No.	: PO No.: 4700019593 letter dtd. 28.04.2023				
San	nple Description	: Ground Water	Environmental cor	nditions during sampling		
	lection Source	: Dock side Borewell	Temperature: 31°C, Transport by : Through Ice Box Transport condition : Cold chain maintained			
11	mple Drawn by us on	: 08.08.2023 at 03.50pm				
	nple carried out by	: Mr. S.Mukherjee				
Sampling Plan :		: RVB/FM/46	Parameters Tested: Chemical			
Method of Sampling		: IS: 17614 (Part - 1): 2021	biCarbonate			
Mode of Sampling		: Grab				
Analysis Completed on		: 17.08.2023				
	ysical & Chemical Test Fin	dings :	\$1 m			
SI No.	Test parameters	Test Method	Unit	Results		
1	biCarbonate	IS: 3025 -(part-23) - 1986	mg/I	181		

-: END OF TEST REPORT :-

Report Verified by

(J. Das)

(Dr. R. KARIM)
Technical Manager
Authorised Signatory

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CIN: U51109WB1931PTC007007

TEST REPORT

No. W(D)/23-24/1497	Date : August 11, 2023	Page 5 of 5
Issued to	 M/S, INDORAMA INDIA PRIVA Durgachak, Haldia, East Medini 	TE LIMITED
Your Ref No. Sample Description Collection Source Sample Drawn by us on Sample carried out by Sampling Plan: Method of Sampling Mode of Sampling Analysis Completed on Physical & Chemical Test	: PO No.: 4700019593 letter dtd.: : Ground Water : Dock side Borewell : 08.08.2023 at 03.50pm : Mr. S.Mukherjee : RVB/FM/46 : IS: 17614 (Part - 1): 2021 : Grab : 08.08.2023	Environmental conditions during sampling Temperature: 29°C, Transport by: Through Ice Box Transport condition: Cold chain maintained Parameters Tested: Chemical Atrazine & Gamma HCH (Lindane)

SI. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS :10500, 2012 (2nd Rev.) Requirement/Limit
t	Atrazine	APHA 23rd Edn. 6630B	μg/I	< 0.10	2 μg/1
2	Gamma HCH (Lindane)	APHA 23rd Edn. 6630B	µg/l	< 0.01	2 μg/l

-: END OF TEST REPORT :-

Report Verified by

(J. Das)

(Dr. R. KARIM) Technical Manager Authorised Signatory