

#### MTPS/UMPP/ENV/MoEF/5928

Date- 29/04/2023

To
The Director,
Western Regional Office,
Ministry of Environment & Forest,
Integrated Regional Office
Aranya Bhavan
Opp St. Xeviers School,
Near Ch 3 circle, sector 10 A,
Gandhinagar

Sub

: Submission of Half Yearly Compliance Report for 4150 MW Mundra Ultra Mega Thermal Power Project at village Tunda, near Mundra, district Kutch by M/s The Tata Power Company Limited, Mundra (Formerly Known as Coastal Gujarat Power Limited)

Ref.

- : 1) Environment clearance granted to us vide letter dated 2<sup>nd</sup> March, 2007 bearing No. J-13011/41/2006-IA.II (T) and
  - Corrigendum dated 5<sup>th</sup> April, 2007 bearing no. J-13011/41/2006-IA.II (T).
     Corrigendum dated 26<sup>th</sup> April, 2011 bearing no. J-13011/41/2006-IA.II (T).

Dear Sir,

Please find enclosed herewith half yearly compliance report for the period October 2022 – March 2023 of the stipulated conditions in CRZ Clearance and its subsequent corrigendum for M/s The Tata Power Company Limited - Mundra(Formerly Known as Coastal Gujarat Power Limited)

Thank you, Yours Faithfully, For The Tata Power Company Limited

K.R.Bairwa

Chief-O&M Services

#### Copy to:

- 1. The Director, Ministry of Environment & Forest, Indira Paryavaran Bhawan, Jor Baugh Road , Aliganj, New Delhi-110003
- 2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-office complex, East Arjun Nagar, Delhi-110032
- 3. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382010(Gujarat.)
- 4. The Zonal Officer ,Central Pollution Control Board, Parivesh Bhavan,Opp VMC Ward Office 10,Vadodra-390023(Gujarat)

#### TATA POWER

The Tata Power Company Limited

Mundra Thermal Power Station - Ultra Mega Power Plant, formerly a Unit of Coastal Gujarat Power Limited,
Plant Address: Tunda Vandh Road, Tunda Village, Mundra, Kutch - 370435, Telephone: 91 2838 661213
Regd. Office: Bombay House, 24, Homi Mody Street, Mumbai-400 001 (Maharashtra)
Website: <a href="https://www.tatapower.com">www.tatapower.com</a>; Email: tatapower@tatapower.com; CIN: L28920MH1919PLC000567

Printed on 100% Recycled Paper



Status of (	Conditions stipulated in CRZ Clearance of CGPL, Mu	ındra
	RZ clearance vide letter No.11-11/2007-IA-III, dated mendment in CRZ Clearance vide Letter No.11-11/20	
CRZ clear	ance vide letter No.11-11/2007-IA-III, dated 25 <sup>th</sup> April ,2	007 from MoEF &CC
Specific co		
1.	Continuous monitoring of the temperature at the discharge should be provided.	Online temperature monitoring sensor is installed on outfall channel. Monitoring data is displayed online that is linked with CPCB.
2.	Area for mangrove afforestation and the cost earmarked for the afforestation measures should be provided	CGPL has developed mangroves on 1000 Ha at Kantiyajal Bharuch in association with Gujarat Ecology Commission.
3.	It shall be ensured that no fly ash /slurry from the fly ash pond would be disposed off in the CRZ area or through the outfall channel.	Complied, No fly ash or slurry from the fly ash pond is disposed off in the CRZ area or through the outfall channel.
4.	The fishing activities and movement of fishermen on the coast should not be affected. Appropriate measurement such as bridge or walkways over the channel should be provided.	The movement of fishermen or their activities is not effected by CGPL.  To ensure access of fishing communities to the intertidal areas and fishing site, following measures have been taken by CGPL  1. Alternate road has been provided which is connecting Tragadi village to Tragadi Bunder including construction of bridge over the outfall channel  2. Approach road has been provided up to Tragadi bunder so as to access the fishing site  3. Boat has been provided to cross the outfall channel and reach the fishing site.
5.	No objection certificate from the Gujarat Pollution Control Board should be obtain before starting the project.	NOC has been obtained by GPCB vide Letter No. PC/CCA-KUTCH-347/21029 dated 5/4/07 and has been amended in 17/7/07
6.	The effluent discharge weir, shall be designed to ensure that the tidal water does not find its way into the precooling channel. Further, it shall be ensured that the hot water discharge is uniformly spread over the radial region in front and mixing of warm water with the ambient receiving water is maximum	Complied, as per the NIO design it has been ensured that no the tidal water will proceed precooling channel. Future it is ensured that the hot water discharge is uniformly spread over the radial region in front and mixing.
7.	Necessary precaution shall be taken to have uniform flow in the precooling channel in order to achieve better heat dissipation. For this purpose desilting operation be carried out periodically.	During FY 22 no desilting operation carried. All necessary percussions are being taken.
8.	Tree/mangrove plantation in the vicinity of project site and particularly in the vicinity of pre cooling channel should be undertaken as it would enhance the rate if dissipation to atmosphere.	CGPL has done plantation in the vicinity of the channel, additionally CGPL has developed mangroves on 1000 Ha at Kantiyajal Bharuch in association with Gujarat Ecology Commission.



9.	Effective steps shall be taken to ensure that there are no adverse effects on the shoreline wing during construction and operation of the channel.	Complied, all Effective steps has been taken to ensure that there are no adverse effects on the shoreline wing during construction and operation of the channel, like Construction of Diaphragm wall and protection with geo membrane and stone pitching at the beginning of outer discharge channel (Dredged channel) to avoid shore line erosion.
10.	Mangrove in the area will not be destroyed in any manner.	No mangrove has been destroyed in any manner. The area of outfall channel was devoid of mangroves as
		confirmed by NIO during their Marine Impact Assessment.
11.	Mangrove plantation should be taken up along the channel.	CGPL has done plantation in the vicinity of the channel, additionally CGPL has developed mangroves on 1000 Ha at Kantiyajal Bharuch in association with Gujarat Ecology Commission.
12.	Bunds may be designed and constructed to ensure minimum obstruction to the tidal flow.	Complied, Bunds have designed and constructed to ensure minimum obstruction to the tidal flow
13.	The water quality should be monitored, and stipulated values be maintained all time by taking suitable measures	Water quality at outfall channel is regularly monitored to ensure that the discharged cooling water quality meets the stipulated values. The monitoring data in linked CPCB.
14.	The intake and outfall systems should not cause any hardship to the local fishermen and should not interfere with the breeding and spawning grounds of fish and other marine fauna.	Complied, all necessary precautions has been taken for easy movement of fisherman and not interfering with the breeding and spawning grounds of fish and other marine fauna. Moreover, CGPL is implementing Sagarbandhu Program for the integrated development of the fishermen community which is appreciated by all the stakeholders The temperature of outfall is well within prescribed norms.
15.	The channel should be constructed in such a manner that no percolation takes place to the ground water	The concrete channel constructed is lined with impervious material to ensure no percolation out cooling water takes place to the ground water.
16.	No landfill sites shall be located in Coastal Regulation Zone areas. The sediment removed from the channel shall be disposed of in the identified landfill sites approved by Gujarat State Pollution Control Board.	Complied, dredging spoil is disposed off outside the CRZ Area
17.	It shall be ensured that the cooling water before discharged shall confirm to the standards laid down by GPCB & CPCB.	Water quality at outfall channel is regularly monitored to ensure that the discharged cooling water quality meets the stipulated values.
18.	The project affected people, if any should be properly compensated and rehabilitated.	Noted But to state that there is no project effected person as such. The land had been acquired by PFC through willing seller and willing buyer concept and adequately compensated more than the prevailing market rate at the time of acquisition of the land by PFC (GOI)



	earance vide letter No.11-11/2007-IA-III, dated 25 <sup>th</sup> A <sub>l</sub> l Conditions	JFII ,2007 IFOIII MOEF &CC
1.	Construction of the proposed structure should be undertaken meticulously confirming to the local and central rules and regulation including Coastal Regulating Zone Notification 1991 and its amendments. All the construction designs relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies.	Complied, Construction has been completed adhering to Coastal Regulating Zone Notification 1991 and its amendments.
2.	A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up so as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine biologist so that the marine water quality is regularly monitored in order to ensure that the marine life quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The sedimentation pollution in the proposed channel shall be studied regularly has necessary mechanics taken for removal of such sediments. The quality of ambient air and water shall be monitored periodically to all the seasons and the results should be properly maintained for the inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry (regional office at Bhopal) and State Pollution Control Board.	Complying, CGPL has engaged 3 <sup>rd</sup> party M/s Kadam Environment a MoEF, NABL & NABET approved lab. Following activities are being done by the agency: Ambient Air Quality Monitoring, Trade Effluent Quality analysis, STP Treated Effluent Quality Monitoring, Condenser Cooling Water Monitoring Report, Sea Water Quality Monitoring, Surface water Quality monitoring, Ground Water Quality Monitoring, Marine Monitoring and Ecological Survey, Stack Emission Monitoring & Soil Quality Monitoring Report
3.	The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocate for this purpose.	Complied, CGPL is implementing comprehensive Community development program in the vicinity with active involvement of the partner NGOs. All the program address the various strategic needs of the community through very scientific and systematic manner which includes Livelihood, Basic needs and Social Capital and infrastructure which includes Livelihood generation, Women Empowerment, Water management, provision of RO units in the community and all the schools, Health, Education, Drinking water, sanitation etc. on sustainable manner.
4.	The quarrying material required for construction purpose shall be obtained only from the approved quarries areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks active quarry site does not find their way into water bodies	Complied, adequate safeguard measures have been taken to ensure that the overburden and rocks active quarry site does not find their way into water bodies.
5.	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	Complying with, CGPL has provided job opportunity to the local on the eligibility basis.
6.	The recommendation made in Environment Management Plan and Disaster Management Plan, as complied in the Environment Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.	Complying with the recommendation made in Environment Management Plan and Disaster Management Plan.



7.	A separate Environment Management Cell with suitably staff to carry out various environment related functions should be set up under the charge of a senior executive of the company.	Complying with, CGPL has Environment Management Cell with qualified staff.
8.	The funds earmarked for environment protection measures, should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year wise expenditure on environment safeguard should be reported to this ministry	Complied. Expenditure on environment safeguard for 2012-13 has been submitted to MoEF vide letter No. CGPL/UMPP/ENV/ MoEF/3495 dated April 20, 2013.
9.	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purpose, by furnishing full details their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigating measures and other environmental protection activities.	Noted
10.	This ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Noted
11.	The ministry or any other competent authority may stipulates any other additional condition subsequently or defined necessary, for environmental protection, which shall be complied with.	Noted
12.	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, One of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at www. nic.in	Complied. The advertisement has been published in "Kutch Mitra and The Times of India" dated 08/06/2007.
13.	The project should inform the Regional office as well as the Ministry the date of Financial Closures and final approve of the project by the concerned authorities and the date of start of Land development work.	Financial Closures and final approve of the project has already been informed.



Conditions	stipulated in Amendment to CRZ Clearance	
1.	All other conditions shall remain same as stipulated earlier in the Clearance letter dated 25.04.2007 and shall be effectively implemented.	Noted
2.	All the conditions stipulated by Govt. of Gujarat vide letter No. env-10-2006-184-E, Dated 14.09.2009 shall be strictly compiled with.	Noted
3.	Regular monitoring for thermal dispersion shall be carried out and report shall be submitted to the Ministry.	Complying, regular monitoring for temperature is done and data linked with CPCB
4.	Post operation monitoring shall be carried out to study the proto model conformity and the results shall be submitted to the Ministry	Complied
5.	All the roads within and outside the complex shall be all weather road.	Complied, all the roads within and outside the complex are weather road.
6.	The ambient temperature of the disposal shall reach within 500m distance from the disposal point.	Complied
7.	A copy of the clearance letter shall be sent by the proponent to be concerned Panchayat, zilla Parishad/municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestion/Representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Clearance letter are available on company's website www.tatapower.com
8.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The status of compliance of the stipulated EC conditions, including results of monitored data has been uploaded on company's website and is also submitted to MoEF, CPCB and GPCB.  As mentioned, SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) are displayed at the Main gate of CGPL in public domain.
9.	The project proponent shall also submit 6 monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data) both in hard copies as well as by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Half yearly reports on the status EC of compliance is submitted to Regional Office of MoEF, CPCB and GPCB.



10.	The environmental statement for each financial year ending 31st March in Form - V as in mandated to be
	submitted by the project proponent to the concerned State
	Pollution control Board as prescribed under the
	Environment (Protection) Rules 1986 as amended subsequently, shall also be put on the website of the
	company along with the status of compliance of EC conditions and shall also be sent to the respective
	Regional offices of MoEF by e-mail.

Complying with, the environmental statement for each financial year ending 31st March in Form - V is available on our website and sent to MoEF by email.



### Annexure 1

### **Ambient Noise Monitoring**

	Month- Oct	ober			
Location	Date	Leq. Day	Leq. Nigh		
Unit		dB(A)	dB(A)		
Main Gate	1/10/2022	56.3	53.2		
Unit	2/10/2022	65.8	61.2		
CGPL Hostel	3/10/2022	55.2	51		
Near STP	4/10/2022	66.5	64.1		
	Month - Nove	ember			
Location	Date	Leq. Day	Leq. Nigh		
Unit		dB(A)	dB(A)		
Main Gate	1/11/2022	55.4	52.8 60.1 502 62.3		
Intake Channel	3/11/2022	64.4			
CGPL Hostel	4/11/2022	54.1			
Near STP	5/11/2022	65.3			
	Month - Dece	ember			
Location	Date	Leq. Day	Leq. Nigh		
Unit	zý.	dB(A)	dB(A)		
Main Gate	1/12/2022	55.2	52.4		
Intake Channel	2/12/2022	64.1	61.2		
CGPL Hostel	3/12/2022	63.2	51		
Near STP	4/12/2022	64.3	61.2		



	Month- Jan	uary		
Location	Date	Leq Day	Leq Nigh	
Location Unit Main Gate Intake Channel CGPL Hostel Near STP  Location Unit Main Gate Intake Channel CGPL Hostel Near STP  Location Unit Main Gate Intake Channel		dB(A)	dB(A)	
Main Gate	1/1/2023	55.9	52.2	
Intake Channel	2/1/2023	64.7	61.3	
CGPL Hostel	3/1/2023	55.3	51.1	
Near STP	5/1/2023	66.8	64.2	
	Month - Feb	ruary		
Location	Date	Leq Day	Leq Nigh	
Unit		dB(A)	dB(A)	
Main Gate	2/2/2023	54.9	52.3	
Intake Channel	3/2/2023	65.3	62.4	
CGPL Hostel	4/2/2023	56.4	52.4 65.4	
Near STP	5/2/2023	67.8		
	Month - Ma	arch		
Location	Date	Leq Day	Leq Nigh	
Unit		dB(A)	dB(A)	
Main Gate	2/3/2023	54.7	52.1	
Intake Channel	3/3/2023	65	60.2	
CGPL Hostel	4/3/2023	55.6	51.3	
Near STP	5/3/2023	66.5	60.2	



#### Annexure 2

### **Ambient Air Quality Monitoring**

					1.Main	Gate				Wales (		
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m 3	μg/m 3	μg/m 3	μg/m 3	μg/m 3	μg/m 3	μg/m 3	ng/m	μg/m 3	ng/m	ng/m³
9/20/2022	53.8	23.8	9.6	9.2	2.2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
9/22/2022	70.3	30.4	16.1	12.1	3	4	BDL	BDL	BDL	BDL	BDL	BDL
9/24/2022	59.5	26.7	10.4	8.1	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	65.5	25.7	15.3	11.1	2.2	4.4	BDL	BDL	BDL	BDL	BDL	BDL
9/28/2022	79	28.2	9	7.4	2.1	4.3	BDL	BDL	BDL	BDL	BDL	BDL
9/30/2022	72.2	33.6	11	6.3	1.8	4.9	BDL	BDL	BDL	BDL	BDL	BDL
10/2/2022	58.5	18.3	10.5	7.2	2.3	3.5	BDL	BDL	BDL	BDL	BDL	BDL
10/4/2022	49.6	17.6	8.4	7.6	2.1	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	62.4	26.9	10.2	8.6	2.2	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/8/2022	73.4	22.9	9.2	6.7	1.9	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	62.9	29.1	9.9	7.4	2	4.9	BDL	BDL	BDL	BDL	BDL	BDL
10/12/2022	51.1	30.1	9.4	7.9	1.7	3.2	BDL	BDL	BDL	BDL	BDL	BDL
10/14/2022	64.4	26.8	8.9	8.7	1.9	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/16/2022	72	28.8	9.2	8.3	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/18/2022	56.7	24.9	12.2	7.7	2.1	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	56.9	25.2	10.1	9.8	2.4	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/22/2022	68.9	29.4	11.7	11.1	2.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	63.2	28.3	11.1	8.6	1.9	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/26/2022	51	22.5	10.2	7.4	1.8	4.5	BDL	BDL	BDL	BDL	BDL	BDL
10/28/2022	78.3	30.6	15.3	9.2	2.1	4.7	BDL	BDL	BDL	BDL	BDL	BDL
10/30/2022	88.9	35.1	11.4	6.6	1.9	5.1	BDL	BDL	BDL	BDL	BDL	BDL
11/1/2022	81.1	21.9	10.4	9.6	1.4	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	51.6	18.3	8.7	7.9	2.2	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/5/2022	57.8	24.8	10.8	7.9	1.5	3.5	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	77	26.7	9.6	7.1	2.3	3.8	BDL	BDL	BDL	BDL	BDL	BDL
	1											



11/9/2022	75.7	30.1	8.9	7.6	1.6	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/11/2022	39.2	17	12.2	7.2	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/13/2022	64.6	28.9	8.9	8.2	2.6	3.5	BDL	BDL	BDL	BDL	BDL	BDL
11/15/2022	55.1	17.7	10.1	9	2.1	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	56.8	25	12.3	5.8	2.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/19/2022	57.3	23.3	11.9	7.5	2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	73.5	33.1	10.1	9.7	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/23/2022	66.2	29.8	10.6	10.1	2.1	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/25/2022	59.2	26.6	10.2	10.5	2.6	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/27/2022	66.9	30.1	9.9	7.3	1.8	4	BDL	BDL	BDL	BDL	BDL	BDL
11/29/2022	75.2	33.8	15.3	9.2	2.1	4.7	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	82.4	37.1	11.4	6.6	1.9	5	BDL	BDL	BDL	BDL	BDL	BDL
12/3/2022	75.7	34.1	10.3	9.6	1.4	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	56.8	25.6	8.6	7.8	2.2	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/7/2022	63.2	28.4	9.9	8.2	1.4	3.2	BDL	BDL	BDL	BDL	BDL	BDL
12/9/2022	76.3	34.3	10.6	8.7	2.9	4.6	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2022	69.8	31.4	8.6	7.3	1.5	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/13/2022	63.4	28.5	12.9	7.6	2.5	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	74.2	33.4	8.9	8.2	2.6	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/17/2022	79.2	35.6	9.3	8.3	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	86.3	38.8	12.2	7.2	2.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/20/2022	77.9	35.1	10	9.6	2.3	3.7	BDL	BDL	BDL	BDL	BDL /	BDL
12/22/2022	86.5	38.9	16.8	12.6	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/24/2022	78.6	35.4	11.5	9	2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	88.9	- 40	16.1	11.7	2.3	4.6	BDL	BDL	BDL	BDL	BDL	BDL
12/28/2022	92.7	41.7	9	8.5	2.5	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/30/2022	72.9	32.8	11.6	6.7	1.9	5.2	BDL	BDL	BDL	BDL	BDL	BDL
1/1/2023	60.8	27.4	11.1	7.6	2.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/3/2023	69.2	31.1	9.3	8.4	2.5	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	74.1	33.3	11.2	9.5	2.4	4.9	BDL	BDL	BDL	BDL	BDL	BDL
1/7/2023	86.5	38.9	9	6.6	2.2	3.5	BDL	BDL	BDL	BDL	BDL	BDL



1/9/2023	89.4	40.2	10.3	7.7	2.4	5.1	BDL	BDL	BDL	BDL	BDL	BDL
1/11/2023	93.7	42.2	10.7	6.4	2.1	3.2	BDL	BDL	BDL	BDL	BDL	BDL
1/13/2023	76.5	34.4	8.9	8.2	2.6	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/15/2023	66.8	30.1	7.5	9.2	2.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/17/2023	73.9	33.3	13.4	7.9	2.7	4.3	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	79.2	35.6	9.7	9.1	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
1/21/2023	75.6	25.7	15.8	9.6	2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	82.5	28.1	14.5	9	2.2	4.8	BDL	BDL	BDL	BDL	BDL	BDL
1/25/2023	72.9	24.8	17.3	9.5	2.9	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/27/2023	59	20.1	16.2	12.6	2.6	4.1	BDL	BDL	BDL	BDL	BDL	BDL
1/29/2023	84.3	28.7	15.5	12.8	2.7	4.9	BDL	BDL	BDL	BDL	BDL	BDL
1/31/2023	78.9	26.8	17.9	10.3	2.1	4.4	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	73.2	24.9	17.7	12.1	2.4	3.8	BDL	BDL	BDL	BDL	BDL	BDL
2/4/2023	81.3	27.8	14.1	12.8	2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	73.5	25.1	18.9	11.6	2.3	5.2	BDL	BDL	BDL	BDL	BDL	BDL
2/8/2023	88.7	30.1	16.7	12.2	2.4	4.2	BDL	BDL	BDL	BDL	BDL	BDL
2/10/2023	67.4	22.8	15.1	12.9	2.1	4	BDL	BDL	BDL	BDL	BDL	BDL
2/12/2023	89.4	30.4	17.6	10.5	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
2/14/2023	79.3	26.7	15.2	11.6	2.2	4.8	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	68.2	24.1	13	10.9	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
2/18/2023	69.3	23.4	17.2	11.8	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	87:9	25.7	16	9.7	2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/22/2023	89.6	26.1	16.8	8.7	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/24/2023	83.8	28.2	19.2	11.8	2.4	5.1	BDL	BDL	BDL	BDL	BDL	BDL
2/26/2023	67.7	21.5	18.5	10.9	2.7	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/28/2023	57	28.7	12.4	12.5	2.4	5.2	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	79.8	27	18.1	10.4	2.1	4.5	BDL	BDL	BDL	BDL	BDL	BDL
3/4/2023	74.7	28.4	17.4	11.1	2.8	4.9	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	70.1	29.5	15.2	12	2.2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
3/8/2023	85.4	24	17.5	9.4	3	4.5	BDL	BDL	BDL	BDL	BDL	BDL
3/10/2023	70.8	28.3	18.9	12.9	2.8	5.3	BDL	BDL	BDL	BDL	BDL	BDL



3/12/2023	62	22.5	13.9	11.8	2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
3/14/2023	73.5	24.8	12.4	12	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	82	28.1	15.7	11.1	2.2	5	BDL	BDL	BDL	BDL	BDL	BDL
3/18/2023	70.5	23.7	15	10.2	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL

					2.La	bour Col	ony				Selection of the	
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	co	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m ³	μg/m ³	μg/m ³	μg/m 3	μg/m ³	μg/m ³	μg/m ³	μg/m ³	ng/m	μg/m ³	ng/m	ng/m³
9/20/2022	76	31.1	9.1	8.6	2.1	4.1	BDL	BDL	BDL	BDL	BDL	BDL
9/22/2022	71	29.1	12.2	12.1	3.1	4.6	BDL	BDL	BDL	BDL	BDL	BDL
9/24/2022	60.4	27	9.8	8.4	1.7	3.7	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	67.6	25.1	8.7	8.3	2.1	4.4	BDL	BDL	BDL	BDL	BDL	BDL
9/28/2022	72.8	29.2	9.9	6.5	1.5	3.3	BDL	BDL	BDL	BDL	BDL	BDL
9/30/2022	78.9	33.7	10.9	7.7	1.9	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/2/2022	46.4	20.2	13	6.8	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/4/2022	53.2	22.4	10.2	7.2	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	67	27.6	10.6	5.8	3	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/8/2022	76.4	30.7	8.2	7.7	1.5	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	70.9	26.9	9.5	6.7	1.8	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/12/2022	63.8	19.2	8.5	6.2	2.3	3.9	BDL [a]	BDL	BDL	BDL	BDL	BDL
10/14/2022	58.1	18.3	10.5	8.6	1.9	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/16/2022	67.5	20.8	11	9.2	2.7	3.7	BDI.	BDL	BDL	BDL	BDL	BDL
10/18/2022	71.2	25.1	8.1	7.7	2.4	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	80.9	32.8	9.2	8.7	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/22/2022	69.8	28.7	11.5	9.7	1.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	61.5	25.1	10	8.6	2.1	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/26/2022	59.1	26.3	14.1	10.5	2.5	4.4	BDL	BDL .	BDL	BDL	BDL	BDL
10/28/2022	80.8	36.3	12.4	11.2	2.7	4.8	BDL	BDL	BDL	BDL	BDL	BDL
10/30/2022	87	38.8	12.6	8.9	2.2	4.9	BDL	BDL	BDL	BDL	BDL	BDL



11/1/2022	61.5	23.9	8.8	8.5	1.9	5	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	55.7	20.5	10.7	7.6	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
11/5/2022	84.3	30.3	11.9	8.4	2.7	5	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	79.2	31.8	8.5	8	1.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/9/2022	61.9	21	12.3	8.2	1.3	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/11/2022	71.4	28.3	9.3	9.1	2.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/13/2022	64.1	23.1	10.4	7.6	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/15/2022	63.3	27.9	9.3	9.1	1.9	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	77.8	34.6	8.9	8.4	2.6	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/19/2022	82.6	34.4	8.6	8.1	2.5	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	78.6	35.4	9.1	8.6	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
11/23/2022	58.4	26.3	11	9.2	1.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/25/2022	74.5	33.5	12.1	11.3	2.4	4.2	BDL	BDL	BDL	BDL	BDL	BDL
11/27/2022	55.8	25.1	13	9.7	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
11/29/2022	79.7	35.9	11.3	10.2	2.5	4.4	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	81.3	36.6	10.9	7.7	1.9	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/3/2022	64.8	29.2	8.5	8.2	1.8	4.9	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	66.2	29.8	10.4	7.4	2.5	4	BDL	BDL	BDL	BDL	BDL	BDL
12/7/2022	86.9	39.1	11.4	8.1	2.6	4.8	BDL	BDL	BDL	BDL	BDL	BDL
12/9/2022	72.9	32.8	9.4	8.9	2.7	4	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2022	69.5	31.3	12.2	8.2	1.2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/13/2022	73.4	33	8.9	8.7	2.6	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	69.5	31.3	10.6	7.7	2.3	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/17/2022	77.2	34.7	8.8	8.7	1.8	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	64.5	29-	8.2	7.3	2.4	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/20/2022	55.6	25	9.2	8.7	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	63.8	28.7	11.6	11.5	3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/24/2022	79.5	35.8	10.4	9	2.2	4	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	71.5	32.2	9.4	9	2.3	4.8	BDL	BDL	BDL	BDL	BDL	BDL
12/28/2022	62.4	28.1	10.1	6.7	2	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/30/2022	65.3	29.4	12	8.5	2.1	4.7	BDL	BDL	BDL	BDL	BDL	BDL



1/1/2023	74.1	33.3	12.9	6.8	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL
1/3/2023	51.6	23.2	10.2	7.2	2.8	4	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	66.8	30.1	11.6	8.5	3.3	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/7/2023	73.7	33.2	8.7	9.2	1.6	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	69.8	31.4	11.9	6.8	1.8	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/11/2023	76.3	34.3	10.2	7.7	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
1/13/2023	65.7	29.6	10.1	7.4	2.2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/15/2023	79.5	35.8	10.6	8.9	2.6	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/17/2023	75.8	34.1	8.2	7.2	2.4	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	59.3	26.7	10.7	10.1	2	3.8	BDL	BDL	BDL	BDL	BDL	BDL
1/21/2023	59.3	20.2	15.9	10.9	2.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	69.5	23.6	18.4	9.5	2.4	4.5	BDL	BDL	BDL	BDL	BDL	BDL
1/25/2023	74.6	25.4	19	11.5	2.1	3.4	BDL	BDL	BDL	BDL	BDL	BDL
1/27/2023	83.5	28.4	17.3	8.5	2.2	5.3	BDL	BDL	BDL	BDL	BDL	BDL
1/29/2023	66.3	23.5	15.5	10.2	2.1	5.1	BDL	BDL	BDL	BDL	BDL	BDL
1/31/2023	69.4	24.5	18	12.8	2.3	4.8	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	84.5	28.7	15.9	10.9	2	4	BDL	BDL	BDL	BDL	BDL	BDL
2/4/2023	59.6	21.5	17.1	12.1	2.3	4.8	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	69.3	23.4	12	12.7	3.6	4.1	BDL	BDL	BDL	BDL	BDL	BDL
2/8/2023	88.8	30.2	14.4	10.2	2.6	4	BDL	BDL	BDL	BDL	BDL	BDL
2/10/2023	77.1	26.3	14.1	8.8	2.2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
2/12/2023	89.3	30.7	17.6	11.5	2.9	3.4	BDL	BDL	BDL;	BDL	BDL	BDL
2/14/2023	70.9	24.1	17.8	10.6	2.1	3.1	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	72.2	24.5	18.9	11.7	2.4	3.7	BDL	BDL	BDL 4	BDL	BDL	BDL
2/18/2023	81.6	27.8	13.5	11.9	2	3.9	BDL.	BDL	BDL	BDL	BDL	BDL
2/20/2023	56.5	18.9	15.2	10.4	2.6	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/22/2023	64.2	21.2	19.3	9.1	2.9	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/24/2023	68.4	23.1	17.5	9.4	2.2	4.9	BDL	BDL	BDL	BDL	BDL	BDL
2/26/2023	55.4	18.6	17.1	8.4	2.4	5.3	BDL	BDL	BDL	BDL	BDL	BDL
2/28/2023	40.6	21.2	16.9	11.1	2.3	5.4	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	57.9	18.4	17.9	12.7	2.2	4.7	BDL	BDL	BDL	BDL	BDL	BDL



3/4/2023	65.7	22.5	14.2	8.9	2	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	50.9	22.6	18.1	12.9	2.5	5.1	BDL	BDL	BDL	BDL	BDL	BDL
3/8/2023	68.9	22.7	15.7	11.2	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/10/2023	43.3	24.3	16.2	12.8	2.6	5.1	BDL	BDL	BDL	BDL	BDL	BDL
3/12/2023	44.8	18.4	14	11.1	2.1	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/14/2023	58.1	16	14.6	11.2	2.8	5.5	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	61.5	21.9	18.9	12	2.4	4.8	BDL	BDL	BDL	BDL	BDL	BDL
3/18/2023	55.9	17.9	14.5	11.8	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL

					3.Fie	eld Hostel						
Date of	PM <sub>10</sub>	PM <sub>2,5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/20/2022	79.6	33.6	10.5	8.2	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
9/22/2022	65.7	27.5	16.4	14.2	2.4	4.5	BDL	BDL	BDL	BDL	BDL	BDL
9/24/2022	53.1	21.5	9.2	7.5	1.3	4	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	58.2	26.5	15	12.1	2.9	3.7	BDL	BDL	BDL	BDL	BDL	BDL
9/28/2022	60.7	25.8	10.1	6.7	1.9	4.4	BDL	BDL	BDL	BDL	BDL	BDL
9/30/2022	67	29.9	12.2	8.6	1.3	3.5	BDL	BDL	BDL	BDL	BDL	BDL
10/2/2022	72	30.7	10.6	9.2	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/4/2022	52.1	21.2	8.9	8.6	1.4	3.4	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	75.8	33.2	9.7	7.6	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/8/2022	59.4	26.6	9.8	7.7	1.7	3.5	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	61.4	25.4	8.4	8.1	2.9	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/12/2022	79	35	9.1	7.2	1.7	4	BDL	BDL	BDL	BDL	BDL	BDL
10/14/2022	56.3	24.3	8.8	8.6	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
10/16/2022	68.3	29.4	10.5	10.1	2.3	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/18/2022	77.9	32.5	11.8	7.7	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	87.4	36.9	11.6	9	2.4	4.8	BDL	BDL	BDL	BDL	BDL	BDL
10/22/2022	72.9	31.4	11.4	7.8	1.8	5	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	56.8	18.8	9.2	6.5	1.4	3.5	BDL	BDL	BDL	BDL	BDL	BDL



10/26/2022	75.8	29.9	12.5	9.1	1.3	3.3	BDL	BDL	BDL	BDL	BDL	BDL
10/28/2022	69.8	26.1	15	14.1	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/30/2022	79.9	35.7	12.9	10.3	1.5	4.3	BDL	BDL	BDL	BDL	BDL	BDL
11/1/2022	59.6	26.3	10.5	7.4	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	62.6	25.1	8.9	7.6	1.4	2.8	BDL	BDL	BDL	BDL	BDL	BDL
11/5/2022	73.6	25.3	11.9	7.9	1.8	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	66	29.5	10.9	8.5	1.9	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/9/2022	87	32.7	8.1	6.2	2.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/11/2022	63.6	22.1	11.3	12.7	1.9	3.2	BDL	BDL	BDL	BDL	BDL	BDL
11/13/2022	55.7	29.1	8.7	8.5	1.7	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/15/2022	59.6	26	10.5	9	2.1	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	81	33.8	10.9	8	1.9	4.1	BDL	BDL	BDL	BDL	BDL	BDL
11/19/2022	59.7	26.2	11.1	8.1	1.6	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	71.4	32.1	10.6	8.2	2.2	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/23/2022	65.9	29.7	10.3	7.1	1.7	4.5	BDL	BDL	BDL	BDL	BDL	BDL
11/25/2022	85.7	38.6	9.2	8.7	2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
11/27/2022	66.5	29.9	11.9	9.2	1.3	3.2	BDL	BDL	BDL	BDL	BDL	BDL
11/29/2022	58.3	26.2	14.5	13.7	2.1	4	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	75.4	33.9	10.9	8.7	1.3	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/3/2022	63.5	28.6	9.6	6.8	1.6	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	82.7	37.2	8.9	7.6	1.4	2.8	BDL	BDL	BDL	BDL	BDL	BDL
12/7/2022	69.7	31.4	10.3	6.8/	1.5	2.9	BDL	BDL	BDL	BDL	BDL/	BDL
12/9/2022	78.4	35.3	9.9	8.7	1.8	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2022	62	27.9	8.2	6.3	2.1	3.6	BDL	BDL	BDL	BDL	BDL ?	BDL
12/13/2022	57.2	25.7	12.1	7.6	1.9	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	82.6	37.2	8.8	8.7	1.7	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/17/2022	55.3	24.9	9.2	7.9	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	73.8	33.2	10.5	7.7	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/20/2022	65.2	29.3	10.5	8.2	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	78.3	35.2	10.3	9.2	2.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/24/2022	55.9	25.6	9.3	6.6	2.5	3.5	BDL	BDL	BDL	BDL	BDL	BDL



12/26/2022	62.7	28.2	16.6	13.4	3.2	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/28/2022	59.6	26.8	10.1	7.2	1.9	4.4	BDL	BDL	BDL	BDL	BDL	BDL
12/30/2022	72.1	32.4	11.9	9.5	1.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/1/2023	84.6	38.1	9.2	7.9	2.2	3.4	BDL	BDL	BDL	BDL	BDL	BDL
1/3/2023	60.2	27.1	8.9	7.6	1.4	2.8	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	79.5	35.8	11.9	7.7	1.7	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/7/2023	59.7	26.9	9.9	7.9	1.8	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	67.2	30.2	8.5	8.2	2.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
1/11/2023	78.4	35.9	10.5	6.7	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/13/2023	69.5	31.5	8.9	8.7	1.7	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/15/2023	78.4	35.3	10.7	10.3	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/17/2023	81.7	36.8	11	8	1.9	4.1	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	76.9	34.6	9.6	8.6	2.5	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/21/2023	86.6	29.4	18.2	10	2.1	4.5	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	76.2	25.9	15.7	9.5	2.8	4.7	BDL	BDL	BDL	BDL	BDL	BDL
1/25/2023	67.2	22.8	17.2	11	2.2	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/27/2023	72.4	24.6	13.7	8.4	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/29/2023	65.1	22.3	15.5	11	2.9	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/31/2023	53.2	18.6	17.9	9.5	2.1	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	83.7	28.5	15.9	12.1	2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
2/4/2023	60.6	21.3	10.7	8.1	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	69.6	23.8	18	12.7	2.8	5	BDL	BDL	BDL	BDL	BDL	BDL
2/8/2023	73.4	25	15	7.1	2.6	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/10/2023	83.5	28.5	14.6	11.2	2.2	5	BDL	BDL	BDL	BDL	BDL	BDL
2/12/2023	87	29.6	18.9	12.1	2.9	4.1	BDL	BDL	BDL	BDL	BDL	BDL
2/14/2023	69.4	23.4	15.2	12.4	2.1	3.9	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	65.3	23.3	18.5	10.3	2.4	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/18/2023	74.8	25.6	17.3	12.7	2.8	3.2	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	83.4	23.6	17.5	9.6	2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/22/2023	74.3	23.3	16.4	11.2	2.6	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/24/2023	78.5	26.3	16.3	11.1	3	5.3	BDL	BDL	BDL	BDL	BDL	BDL
ACCURATE MECHANISMS												



2/26/2023	60	19.5	13.9	8.6	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
2/28/2023	45.5	27.1	13.3	11.1	2.7	4.5	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	59.1	22.3	18	9.6	2.1	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/4/2023	67.5	21.8	16.7	11.8	2.9	5.3	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	60.6	24	12.9	8.1	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
3/8/2023	76.9	23.2	18.2	12	2.7	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/10/2023	55.3	26.9	17.4	11.1	2.6	4.2	BDL	BDL	BDL	BDL	BDL	BDL
3/12/2023	49.8	19.6	13.4	10.3	2.1	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/14/2023	65.3	18.9	19.1	11.9	3.1	5.6	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	77.4	25.8	16.9	10.2	2.4	4.3	BDL	BDL	BDL	BDL	BDL	BDL
3/18/2023	62.3	22.2	15.6	11.1	2.2	4.5	BDL	BDL	BDL	BDL	BDL	BDL

					4.	Tunda						
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	µg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	71	21.9	11.9	11.1	2	4	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	60.6	26.2	10.4	10.8	2.3	4.5	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	52.4	18.4	10.6	9.7	2.7	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	77.4	35.5	10.5	8.6	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	60.2	20.6	11.1	7.9	2.9	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	50.7	22.4	9.8	7.2	2.8	4.5	/ <sup>B</sup> DL	BDL	BDL	BDL	BDL	BDL
10/13/2022	67.1	35	12.1	9.8	2.1	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	57.5	25.6	9.1	8.2	2.4	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	79.2	30.1	10.7	14.1	2.7	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	88.9	28	15.8	12.7	3.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	61.6	27.2	10.9	7.2	. 2	4.8	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	71.6	30.6	9.5	8.2	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	84.2	36.9	10.8	8.5	1.9	4.6	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	60.6	22.6	8.3	8	2.6	3.7	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	79.1	32.5	10.5	6.7	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL



11/14/2022	61.5	25.6	11.1	10.6	2.4	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	87.9	39.5	9.7	8.6	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	71.4	32.1	10.2	9.2	2.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/24/2022	59.3	26.7	8.8	6.3	2.4	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	69.7	31.4	9.5	6.7	1.8	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	81.9	36.9	9.5	8.2	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	75.6	34	10	7.8	1.7	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	69.5	31.3	10.4	8.1	1.8	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	73.5	33.1	10.8	6.9	2.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	59.7	26.9	11.1	0.6	2.4	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	79.6	35.8	9.3	8.3	2.5	4.4	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	75.3	33.9	13.1	9.5	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	62.7	28.2	10.6	10.6	2.8	4.6	BDL	BDL	BDL	BDL	BDL	BDL
12/29/2022	68.3	30.7	12.8	9.1	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL

	5.Vandh														
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	co	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni			
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³			
9/26/2022	62.1	22.6	12.1	8.6	1.9	3.4	BDL	BDL	BDL	BDL	BDL	BDL			
9/29/2022	59.6	26.8	11	9.5	2.7	4.3	BDL	BDL	BDL	BDL	BDL	BDL			
10/3/2022	72.3	20	8.3	7,97	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL			
10/6/2022	81.9	38.4	11.1	7.4	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL			
10/10/2022	55	23.5	8.4	8.1	2.1	3.9	BDL	BDL	BDL	BDL	BDL #	BDL			
10/13/2022	70.9	28.3	9.7	7.7	2.8	4.7	BDL	BDL	BDL .	BDL	BDL	BDL			
10/17/2022	84.8	38.1	9.4	8.8	2.3	3.2	BDL	BDL	BDL	BDL	BDL	BDL			
10/20/2022	80.3	33.2	17.5	13.2	3.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL			
10/24/2022	68.2	26.7	16	11.6	2.3	4.6	BDL	BDL	BDL	BDL	BDL	BDL			
10/27/2022	75.2	30.9	8.9	8.4	2.5	3.7	BDL	BDL	BDL	BDL	BDL	BDL			
10/31/2022	70.8	21	12.1	8.3	2.7	4	BDL	BDL	BDL	BDL	BDL	BDL			
11/3/2022	65.2	28.1	10.6	9	2.3	4.6	BDL	BDL	BDL	BDL	BDL	BDL			



11/7/2022	75.1	30.1	10.2	7.6	2.4	5.1	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	62.5	27.4	10.4	6.2	2	3.1	BDL	BDL	BDL	BDL	BDL	BDL
11/14/2022	71.7	28.7	7.5	9.1	2.6	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	69.1	21.2	9.5	8.9	2.4	3.3	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	71.4	32.1	10.2	9.2	2.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/24/2022	59.3	26.7	8.8	6.3	2.4	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	69.7	31.4	9.5	6.7	1.8	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	81.9	36.9	9.5	8.2	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	75.6	34	10	7.8	1.7	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	69.5	31.3	10.4	8.1	1.8	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	73.5	33.1	10.8	6.9	2.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	59.7	26.9	11.1	0.6	2.4	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	79.6	35.8	9.3	8.3	2.5	4.4	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	78.3	35.2	10.6	9.2	2.5	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	86.2	38.8	13.4	9.5	2.1	4.4	BDL	BDL	BDL	BDL	BDL	BDL
12/29/2022	93.4	42	11.8	10.2	2.9	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/2/2023	74.2	33.4	8.3	7.8	2.1	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	88.7	39.9	10.5	7	2.2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	96.2	43.3	9	8.6	2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
1/12/2023	89.8	40.4	9.5	7.5	2.7	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/16/2023	79.3	35.7	9.2	7.8	2.3	3.2	BDL	BDL	BDL .	BDL	BDL	BDL
1/19/2023	75.6	-34	12	9.6	2.7	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	69.3	24.6	17.9	11.5	2.5	4.5	BDL	BDL	BDL	BDL	BDL	BDL
1/26/2023	79.5	34.2	15.9	10	2.1	4.9	BDL	BDL	BDL	BDL	BDL	BDL
1/30/2023	88.6	30.1	16.5	10.5	2.3	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	79.4	27	13.7	11.4	2.2	4	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	69.3	23.5	18	12	2	4.9	BDL	BDL	BDL	BDL	BDL	BDL
2/9/2023	74.2	25.2	16.1	12.6	2.8	4.1	BDL	BDL	BDL	BDL	BDL	BDL
2/13/2023	81.7	31.2	19.6	11.9	2.6	5.4	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	72.2	28.5	15	10.3	2.7	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	74.5	38.9	15.1	9.4	2.3	5	BDL	BDL	BDL	BDL	BDL	BDL



2/23/2023	70.8	42.2	18.2	10	2.8	4.8	BDL	BDL	BDL	BDL	BDL	BDL
2/27/2023	61.5	33.9	14.5	12	2.5	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	71.6	37.6	17.3	11.9	2.3	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	65.9	34.2	16.9	10.4	2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
3/9/2023	59.8	41.9	16.1	11.8	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/13/2023	64	34.1	19.9	10.9	2.6	4.2	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	68.3	39.5	13	9.2	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL

					6.9	Siracha						
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	77.1	32	10.8	9.1	1.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	54.5	24.3	13	9.7	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	74.2	33.3	11.4	10.3	2.5	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	58.7	22.8	8.4	8.1	1.8	4.8	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	72.4	26	10.2	7.2	2.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	51.8	23	12.2	8.1	1.2	3.1	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2022	67.2	26.6	8.7	8.6	2.6	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	62.9	28.4	9.5	9.3	1.9	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	64.4	22.6	12.8	12.8	2.8	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	70.8	28	12.1	11.3	2.4	4.2	) BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	68.3	27.1	10.8	9	2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	56.2	24.1	10	9.8	2.5	4.2	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	76	19.9	11.3	10.5	,. 2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	60.1	24.5	9.6	9.1	2.8	4.1	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	71.2	26.4	9.7	9	2.4	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/14/2022	65.2	28	11.6	8.5	2.7	3.4	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	80.1	24.6	9.2	7	1.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	61.2	27.5	13.1	12.6	2.8	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/24/2022	72.5	32.6	12.4	8.8	1.9	4	BDL	BDL	BDL	BDL	BDL	BDL



44/00/0000	05.0	00.4	0.0	0.0	4.0	0.0	DDI	DDI	DDI	DDI	DDI	DDI
11/28/2022	65.3	29.4	9.8	8.2	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	54.3	24.4	9.9	9.7	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	85.4	38.4	10.9	10.2	1.9	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	66.5	29.9	8.9	8.6	2.2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	83.7	37.7	10.1	9.4	2.5	4	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	68.9	31	11.1	8.1	2.6	3.2	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	58.7	26.4	9.3	7.1	1.9	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	76.9	34.6	11.9	9.5	1.5	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	84.2	37.9	14.2	10.6	2.5	4.5	BDL	BDL	BDL	BDL	BDL	BDL
12/29/2022	79.3	35.7	11.9	9.7	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
1/2/2023	69.2	28.9	9.3	8.9	2	4.8	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	75.1	33.8	10.7	7.5	2.4	4.5	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	86.4	38.9	12.3	8.2	2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/12/2023	71.2	29.3	8.9	8.7	2.6	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/16/2023	68.2	30.7	9.3	9.1	1.9	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	86.5	26.3	9.8	7.5	2	3.8	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	76.8	26.1	19.1	8.5	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
1/26/2023	66.9	22.7	17.2	9.2	2.1	4.8	BDL	BDL	BDL	BDL	BDL	BDL
1/30/2023	58.2	20.4	16.1	10.6	2.2	5.1	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	71.4	24.6	15.4	9.6	2	5	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	59.1	21.4	13.5	11	2.1	3.5	BDL	BDL	BDL	BDL .	BDL	BDL
2/9/2023	75	25.4	15.6	12.8/	2.5	4.9	BDL	BDL	BDL	BDL	BDLW	BDL
2/13/2023	70.7	24.6	13.9	10.6	2.7	5.2	BDL	BDL	BĎL	BDL	BDL	BDL
2/16/2023	51	18.5	14.6	12	2.6	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	64.6	25.5	12.2	12.8	2.3	4.1	BDL	BDL	BDL .	BDL	BDL	BDL
2/23/2023	75.2	32.5	16.3	8	2.1	4.4	BDL	BDL	BDL	BDL	BDL	BDL
2/27/2023	78.6	33.4	18.7	9.4	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	81.3	39.2	14.6	7.2	2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	73.5	40	15.2	10.4	2.3	4.8	BDL	BDL	BDL	BDL	BDL	BDL
3/9/2023	62.9	28.7	14.1	7.2	2.2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/13/2023	78.2	38.4	13.5	10	2.3	4.7	BDL	BDL	BDL	BDL	BDL	BDL



| 3/16/2023 | 65.5 | 32.3 | 12.7 | 9.4 | 2.4 | 4.3 | BDL | BDL | BDL | BDL | BDL | BDL

					7.Mo	ti Khakha	r					
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	63	27.1	9.8	6.7	1.6	4.3	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	71.1	28.1	10.7	8.5	1.2	3.1	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	61.2	25.4	14.5	13.7	2.1	4	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	53.6	23.7	9.4	6.7	1.6	3.5	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	65.9	28.3	10.7	7.3	1.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	67.5	25.1	8.5	5.8	2.4	4.1	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2022	41.8	17.2	11	11.8	2.3	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	54.2	23.7	9.5	8.2	1.9	3.4	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	60.8	27.1	13.1	12.6	2.2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	75	32.3	9.9	9.4	2.1	5.1	BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	73.6	22.3	10.4	8.1	2.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	67.2	27.2	9.2	8.5	2.4	4.3	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	48.8	21.1	11.6	11.2	2.3	4.5	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	80.3	32	10.3	9.1	1.9	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	60	19.8	11.9	10	2.6	4	BDL	BDL	BDL.	BDL	BDL	BDL
11/14/2022	59.5	£25.6	10.2	9.4	2.2	3.3	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	72.8	16.9	8.9	8.6	2	3.6	BDL	BDL	BĎI.	BDL	BDL	BDL
11/21/2022	76.3	34.3	13.2	12.6	2.2	4.6	BDL	BDL	BDL	BDL	BDL	BDL
11/24/2022	69.2	31.1	8.5	8.2	2.1	4.3	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	61.9	27.9	10	7.9	2.7	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	73.6	33.1	8.9	8.3	2.3	4.2	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	56.3	25.3	10.5	10.1	2.1	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	67.1	30.2	12.2	6.9	1.9	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	58.9	26.5	10.6	9.7	2.5	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	83.4	37.5	10.7	10.1	2.4	3.6	BDL	BDL	BDL	BDL	BDL	BDL



12/19/2022	69.4	31.2	8.5	8.2	1.9	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	89.6	40.3	10.8	7.4	1.7	4.8	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	79.5	35.8	12.5	9.6	1.3	3.3	BDL	BDL	BDL	BDL	BDL	BDL
12/29/2022	88.6	39.9	15.2	11.3	2.2	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/2/2023	72.4	32.6	10.4	7.4	1.8	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	86.9	33.2	10.7	7.1	1.6	3	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	63.7	28.7	9	6.9	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
1/12/2023	76.9	34.6	11.6	7.2	1.9	3.2	BDL	BDL	BDL	BDL	BDL	BDL
1/16/2023	82.3	37	9.9	8.6	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	68.4	30.8	10.3	7.9	2.1	4	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	68.9	23.4	16.4	11.2	2.6	4.7	BDL	BDL	BDL	BDL	BDL	BDL
1/26/2023	89.7	30.5	15.3	12	2.9	5	BDL	BDL	BDL	BDL	BDL	BDL
1/30/2023	76.8	26.1	10.3	11.4	2.5	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	61.7	21.4	15.2	10.8	2.6	4.8	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	62.7	23.5	14.8	9.8	2.2	3.4	BDL	BDL	BDL	BDL	BDL	BDL
2/9/2023	91.2	31	16.9	10.7	2.5	3.8	BDL	BDL	BDL	BDL	BDL	BDL
2/13/2023	82.8	28.9	17.2	10.8	2.8	5.1	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	76.2	25.7	15.7	11.1	2.2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	60.7	26.8	17.3	12.7	2.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/23/2023	55.6	32	13.9	10.2	2.1	4.1	BDL	BDL	BDL	BDL	BDL	BDL
2/27/2023	63.2	27.8	16.3	12.8	2.7	4	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	61.6	29.7	14.5	11.1	2.4	4.5	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	55.5	26.5	17.4	12.7	2.8	4.6	BDL	BDL	BDL	BDL	BDL	BDL
3/9/2023	66.9	35.4	13.9	11	2.2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/13/2023	63	25.6	18.7	12.8	2.7	5.2	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	59	36.1	14.4	10.2	2	4.9	BDL	BDL	BDL	BDL	BDL	BDL
								L				



					.Mota	Kandagr	a					
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	59.1	25.2	10	9.5	2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	49.2	21.7	9.8	7.2	1.4	4.3	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	65.8	28.5	15.6	9.3	2.2	4.8	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	77	20.8	9.8	9.1	1.3	3.2	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	61.8	26.5	11.5	8.5	1.7	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	73.7	29.3	8.7	7.4	1.5	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2022	39.4	14.5	12.3	7.7	2.4	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	51.2	16.4	9.4	8.4	1.9	3.4	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	81.8	23.1	12.5	11.7	2.1	4.2	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	59.6	25.7	10.2	10.6	2.6	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	85.3	33.7	12.3	8.7	2.3	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	83.3	37.1	11.3	9.3	2.6	4.3	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	56	19.1	10.4	7.3	2.7	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	66.8	23.3	10.3	7.5	2.9	4.7	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	82.8	33.3	11.5	9.3	2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/14/2022	70.2	26.6	9.5	8.5	2.5	4.5	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	65.2	28.2	10.1	9	2.1	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	75.6	34	11.9	11.1	2	4	BDL	BDL	BDL	BDL	BDL - jl	BDL
11/24/2022	66.3	29.8	15	12.1	2.9	3.5	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	82.9	37.3	12.3	8.7	2.3	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	72.4	32.6	10.6	9.2	2.5	4	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	61.5	27.7	9.7	6.9	2.3	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	76.2	34.3	8.6	8.3	2.6	3.9	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	78.4	35.3	12.1	9.8	2.1	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	68.3	30.7	10	8.9	2.6	4.7	BDL	BDL	BDL .	BDL	BDL	BDL
12/19/2022	63.8	28.7	9.2	8.2	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	68.4	30.8	11.3	10.6	2.2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	54.2	24.4	10.3	7.5	1.8	4.2	BDL	BDL	BDL	BDL	BDL	BDL



69.3	31.2	16	9.6	2.6	3.3	BDL	BDL	BDL	BDL	BDL	BDL
72.1	32.4	10.3	9.9	1.8	3.4	BDL	BDL	BDL	BDL	BDL	BDL
59.7	26.9	9.8	8.2	1.6	3.2	BDL	BDL	BDL	BDL	BDL	BDL
66.2	29.8	8.1	6.9	1.4	4	BDL	BDL	BDL	BDL	BDL	BDL
73.8	33.2	13.4	7.9	2.6	3.8	BDL	BDL	BDL	BDL	BDL	BDL
78.3	35.2	9.6	8.6	2	3.5	BDL	BDL	BDL	BDL	BDL	BDL
67.8	30.5	10.2	7.8	2.3	3.9	BDL	BDL	BDL	BDL	BDL	BDL
53.6	18.2	16.8	8.7	2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
73	24.8	16.7	10.3	2.1	4.5	BDL	BDL	BDL	BDL	BDL	BDL
49.7	19.7	12	12.2	2.3	5.1	BDL	BDL	BDL	BDL	BDL	BDL
54.1	18.4	16.5	10.5	2.7	4.6	BDL	BDL	BDL	BDL	BDL	BDL
65.2	22.5	16.1	12.6	2.8	3.5	BDL	BDL	BDL	BDL	BDL	BDL
72.4	24.6	17.3	11.1	2.4	4.6	BDL	BDL	BDL	BDL	BDL	BDL
78.7	26.7	11.4	12.8	2.8	4.8	BDL	BDL	BDL	BDL	BDL	BDL
71.4	24.3	15.2	10.4	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
59.7	28.2	13.5	12	2.2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
65	25.8	13.7	11.8	2.4	4.5	BDL	BDL	BDL	BDL	BDL	BDL
57.9	27.2	13.1	10.5	2.9	4	BDL	BDL	BDL	BDL	BDL	BDL
61.1	29.5	16.9	11.2	2.5	4.2	BDL	BDL	BDL	BDL	BDL	BDL
63.4	28.5	15.7	11.1	2.8	4.7	BDL	BDL	BDL	BDL	BDL	BDL
57.2	34.2	13.7	12.6	2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
56.4	-30.9	18	12.8	2.4	5.2	BDL	BDL	BDL	BDL	BDL	BDL
58.2	25	16.1	10.2	2.3	4.8	BDL	BDL	BDL	BDL	BDL	BDL
	59.7 66.2 73.8 78.3 67.8 53.6 73 49.7 54.1 65.2 72.4 78.7 71.4 59.7 65 57.9 61.1 63.4 57.2	72.1       32.4         59.7       26.9         66.2       29.8         73.8       33.2         78.3       35.2         67.8       30.5         53.6       18.2         73       24.8         49.7       19.7         54.1       18.4         65.2       22.5         72.4       24.6         78.7       26.7         71.4       24.3         59.7       28.2         65       25.8         57.9       27.2         61.1       29.5         63.4       28.5         57.2       34.2         56.4       30.9	72.1         32.4         10.3           59.7         26.9         9.8           66.2         29.8         8.1           73.8         33.2         13.4           78.3         35.2         9.6           67.8         30.5         10.2           53.6         18.2         16.8           73         24.8         16.7           49.7         19.7         12           54.1         18.4         16.5           65.2         22.5         16.1           72.4         24.6         17.3           78.7         26.7         11.4           71.4         24.3         15.2           59.7         28.2         13.5           65         25.8         13.7           57.9         27.2         13.1           61.1         29.5         16.9           63.4         28.5         15.7           57.2         34.2         13.7           56.4         30.9         18	72.1         32.4         10.3         9.9           59.7         26.9         9.8         8.2           66.2         29.8         8.1         6.9           73.8         33.2         13.4         7.9           78.3         35.2         9.6         8.6           67.8         30.5         10.2         7.8           53.6         18.2         16.8         8.7           73         24.8         16.7         10.3           49.7         19.7         12         12.2           54.1         18.4         16.5         10.5           65.2         22.5         16.1         12.6           72.4         24.6         17.3         11.1           78.7         26.7         11.4         12.8           71.4         24.3         15.2         10.4           59.7         28.2         13.5         12           65         25.8         13.7         11.8           57.9         27.2         13.1         10.5           61.1         29.5         16.9         11.2           63.4         28.5         15.7         11.1           57.2 <td>72.1         32.4         10.3         9.9         1.8           59.7         26.9         9.8         8.2         1.6           66.2         29.8         8.1         6.9         1.4           73.8         33.2         13.4         7.9         2.6           78.3         35.2         9.6         8.6         2           67.8         30.5         10.2         7.8         2.3           53.6         18.2         16.8         8.7         2           73         24.8         16.7         10.3         2.1           49.7         19.7         12         12.2         2.3           54.1         18.4         16.5         10.5         2.7           65.2         22.5         16.1         12.6         2.8           72.4         24.6         17.3         11.1         2.4           78.7         26.7         11.4         12.8         2.8           71.4         24.3         15.2         10.4         2.5           59.7         28.2         13.5         12         2.2           65         25.8         13.7         11.8         2.4           &lt;</td> <td>72.1         32.4         10.3         9.9         1.8         3.4           59.7         26.9         9.8         8.2         1.6         3.2           66.2         29.8         8.1         6.9         1.4         4           73.8         33.2         13.4         7.9         2.6         3.8           78.3         35.2         9.6         8.6         2         3.5           67.8         30.5         10.2         7.8         2.3         3.9           53.6         18.2         16.8         8.7         2         3.7           73         24.8         16.7         10.3         2.1         4.5           49.7         19.7         12         12.2         2.3         5.1           54.1         18.4         16.5         10.5         2.7         4.6           65.2         22.5         16.1         12.6         2.8         3.5           72.4         24.6         17.3         11.1         2.4         4.6           78.7         26.7         11.4         12.8         2.8         4.8           71.4         24.3         15.2         10.4         2.5         &lt;</td> <td>72.1         32.4         10.3         9.9         1.8         3.4         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL           73         24.8         16.7         10.3         2.1         4.5         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL           72.4         24.6         17.3         11.1         2.4         4.6         BDL           73.</td> <td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL<td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL         BDL         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL         BDL         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL         BDL         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL         BDL         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL         BDL         BDL           65.2         22.5         16.1         12.6         2.8         3.5         BDL</td><td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL&lt;</td><td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL&lt;</td></td>	72.1         32.4         10.3         9.9         1.8           59.7         26.9         9.8         8.2         1.6           66.2         29.8         8.1         6.9         1.4           73.8         33.2         13.4         7.9         2.6           78.3         35.2         9.6         8.6         2           67.8         30.5         10.2         7.8         2.3           53.6         18.2         16.8         8.7         2           73         24.8         16.7         10.3         2.1           49.7         19.7         12         12.2         2.3           54.1         18.4         16.5         10.5         2.7           65.2         22.5         16.1         12.6         2.8           72.4         24.6         17.3         11.1         2.4           78.7         26.7         11.4         12.8         2.8           71.4         24.3         15.2         10.4         2.5           59.7         28.2         13.5         12         2.2           65         25.8         13.7         11.8         2.4           <	72.1         32.4         10.3         9.9         1.8         3.4           59.7         26.9         9.8         8.2         1.6         3.2           66.2         29.8         8.1         6.9         1.4         4           73.8         33.2         13.4         7.9         2.6         3.8           78.3         35.2         9.6         8.6         2         3.5           67.8         30.5         10.2         7.8         2.3         3.9           53.6         18.2         16.8         8.7         2         3.7           73         24.8         16.7         10.3         2.1         4.5           49.7         19.7         12         12.2         2.3         5.1           54.1         18.4         16.5         10.5         2.7         4.6           65.2         22.5         16.1         12.6         2.8         3.5           72.4         24.6         17.3         11.1         2.4         4.6           78.7         26.7         11.4         12.8         2.8         4.8           71.4         24.3         15.2         10.4         2.5         <	72.1         32.4         10.3         9.9         1.8         3.4         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL           73         24.8         16.7         10.3         2.1         4.5         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL           72.4         24.6         17.3         11.1         2.4         4.6         BDL           73.	72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL <td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL         BDL         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL         BDL         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL         BDL         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL         BDL         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL         BDL         BDL           65.2         22.5         16.1         12.6         2.8         3.5         BDL</td> <td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL&lt;</td> <td>72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL&lt;</td>	72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL         BDL           59.7         26.9         9.8         8.2         1.6         3.2         BDL         BDL         BDL           66.2         29.8         8.1         6.9         1.4         4         BDL         BDL         BDL           73.8         33.2         13.4         7.9         2.6         3.8         BDL         BDL         BDL           78.3         35.2         9.6         8.6         2         3.5         BDL         BDL         BDL           67.8         30.5         10.2         7.8         2.3         3.9         BDL         BDL         BDL           53.6         18.2         16.8         8.7         2         3.7         BDL         BDL         BDL           49.7         19.7         12         12.2         2.3         5.1         BDL         BDL         BDL           54.1         18.4         16.5         10.5         2.7         4.6         BDL         BDL         BDL           65.2         22.5         16.1         12.6         2.8         3.5         BDL	72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL<	72.1         32.4         10.3         9.9         1.8         3.4         BDL         BDL<



					9.T	ragadi						
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	СО	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	58	25.8	12.5	12	2.1	4.3	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	68.9	29.6	9.1	8.6	2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	71.1	21.5	10	7.9	2.7	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	66.8	28.1	9.1	8.4	2.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	51.2	22.7	12.2	11.7	2.4	4.7	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	75.8	30.2	9.7	8.6	1.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2022	58.4	17.2	10.6	9.7	2.5	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	60.1	26.9	10.1	9.5	2.3	3.4	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	68.8	28.2	11.8	11.7	3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	72.7	27	9.3	9	2.3	4.7	BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	82.8	33.2	11.3	7.4	1.8	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	79.1	19.7	12.6	6.6	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	61.4	29.9	11.5	6.3	3.3	3.8	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	75.7	28.7	12.7	7.2	1.9	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	63.9	24.4	10.2	7.7	1.5	3.2	BDL	BDL	BDL	BDL	BDL	BDL
11/14/2022	73.7	22.7	12	10.1	2.9	4	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	87.4	26.6	10.6	10	2.4	3.5	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	76.8	34.6	11.3	11.1	2.9	4.2	BDL	BDL	BDL	BDL	BDL	BDL
11/24/2022	69.5	31.3	9.3	8	2	3.6	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	72.9	32.8	9.5	6.3	1.8	3.2	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	81.7	36.8	13.1	6.8	2.5	4.1	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	75.3	33.9	10.4	7.6	2.9	3.5	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	62.4	28.1	8.2	8.7	1.5	3.7	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	55.8	25.1	10.2	7.7	1.9	3.3	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	50.4	22.7	11.4	9.6	2.8	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	69.9	31.5	10.2	9.7	2.3	3.4	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	62.3	28	12.6	9.2	2.1	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	71.6	32.2	9.7	9.1	1.9	4.9	BDL	BDL	BDL	BDL	BDL	BDL



1/2/2023	73.9				2.7	3.8	BDL	BDL	BDL	BDL	BDL	BDL
	70.0	33.3	8.8	8.2	2.3	4.2	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	59.3	26.7	11.8	10.6	2.2	3.3	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2023	51.2	23	10.3	9.1	2	3.8	BDL	BDL	BDL	BDL	BDL	BDL
1/12/2023	68.5	30.8	11.1	10.2	2.6	4	BDL	BDL	BDL	BDL	BDL	BDL
1/16/2023	73.4	33	10.3	9.7	2.3	3.4	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	63.9	28.8	9.3	9	2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	76.7	26.1	17	12.5	2.2	4	BDL	BDL	BDL	BDL	BDL	BDL
1/26/2023	65.3	22.2	15	11	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
1/30/2023	67.9	23.1	16.1	12.6	2.6	4	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	75.8	25.9	15.2	11.6	2.5	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	64.1	21.8	16.8	12.3	2.7	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/9/2023	59.7	20.3	14.9	11.8	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
2/13/2023	63.2	21.4	16.6	10.6	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	58.4	26.5	15.2	10.8	2.1	5.2	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	46.2	25.3	19.3	10.3	2.7	4.9	BDL	BDL	BDL	BDL	BDL	BDL
2/23/2023	51	21	15.7	9.6	2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/27/2023	46.1	27	18	11.9	2.5	5	BDL	BDL	BDL	BDL	BDL	BDL
3/2/2023	40.2	28.8	16.2	11.1	2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	50.4	23.2	14.6	7.2	2.3	4	BDL	BDL	BDL	BDL	BDL	BDL
3/9/2023	48.3	21.4	14.3	10.1	2.6	4.9	BDL	BDL	BDL	BDL	BDL	BDL
3/13/2023	47.7	26.5	16.7	10/9	2.7	4.2	BDL	BDL	BDL	BDL	BDI	BDL
3/16/2023	42.6	24.5	19.1	11.8	2.4	4.7	BDL	BDL	BDL	BDL	BDL	BDL



					10.Nana	Bhadiya						
Date of	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	O <sub>3</sub>	NH <sub>3</sub>	CO	C <sub>6</sub> H <sub>6</sub>	BaP	Pb	As	Ni
Sampling	μg/m³	μg/m³	μg/m³	μg/m³	µg/m³	μg/m³	μg/m³	μg/m³	ng/m³	μg/m³	ng/m³	ng/m³
9/22/2022	53	19.2	12.5	12.4	2.7	4.2	BDL	BDL	BDL	BDL	BDL	BDL
9/26/2022	68.4	25.5	11.7	10.9	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
9/29/2022	54.9	24.3	9.7	8.1	2.2	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/3/2022	67.3	29.8	10.2	10	2.5	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2022	47.8	18.1	11.9	11.1	2.1	3.8	BDL	BDL	BDL	BDL	BDL	BDL
10/10/2022	58.4	21	9.3	8.8	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2022	71.4	30.7	11.8	7.6	2.8	3.6	BDL	BDL	BDL	BDL	BDL	BDL
10/17/2022	61.7	26.7	11	8	2.6	3.7	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2022	59	34.3	11.2	9.7	2.6	3.9	BDL	BDL	BDL	BDL	BDL	BDL
10/24/2022	75.1	26	13.9	9.9	2.2	4.5	BDL	BDL	BDL	BDL	BDL	BDL
10/27/2022	67.9	30.5	12.6	10.8	3.1	4.9	BDL	BDL	BDL	BDL	BDL	BDL
10/31/2022	74.9	20.7	8.6	8.1	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/3/2022	87.2	40.8	11.8	7.8	2.5	4.7	BDL	BDL	BDL	BDL	BDL	BDL
11/7/2022	58.4	25	9	8.6	2.2	4.1	BDL	BDL	BDL	BDL	BDL	BDL
11/10/2022	66	26.3	9	7.1	2.6	4.4	BDL	BDL	BDL	BDL	BDL	BDL
11/14/2022	85.9	36.8	9.5	8	2.4	3.3	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2022	70.8	30.1	11.7	8.5	2.7	3.9	BDL	BDL	BDL	BDL	BDL	BDL
11/21/2022	63.5	28.6	10.5	9.2	2.5	3.6	BDL	BDL	BDL:	BDL	BDL	BDL
11/24/2022	78.2	35.2	14.6	10.6	2.1	4.2	BDL	BDL	BDL	BDL	BDL	BDL
11/28/2022	60.2	27.1	11.8	10.2	2.9	4.6	BDL	BDL	BDL	BDL	BDL	BDL
12/1/2022	71.8	32.3	8.6	8.1	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
12/5/2022	82.3	37	10.9	7.2	2.3	3.8	BDL	BDL	BDL	BDL	BDL	BDL
12/8/2022	72.9	32.8	9.9	7.4	2.1	4.9	BDL	BDL	BDL	BDL	BDL	BDL
12/12/2022	79.5	35.8	9.6	7.6	2.8	4.7	BDL	BDL	BDL	BDL	BDL	BDL
12/15/2022	65.3	29.4	9.2	7.7	2.3	3.2	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2022	78.6	35.4	10.9	8.7	2.5	3.6	BDL	BDL	BDL	BDL	BDL	BDL
12/22/2022	53.4	24	14	10.2	3	4.7	BDL	BDL	BDL	BDL	BDL	BDL
12/26/2022	69.3	31.2	12.5	11.6	2.4	4.4	BDL	BDL	BDL	BDL	BDL	BDL



12/29/2022	59.7	26.9	10.3	8.6	1.9	4.1	BDL	BDL	BDL	BDL	BDL	BDL
1/2/2023	71.2	32	9.9	9.7	2.5	3.6	BDL	BDL	BDL	BDL	BDL	BDL
1/5/2023	65.8	29.6	11.3	10.5	2	3.7	BDL	BDL	BDL	BDL	BDL	BDL
V 40/40/40/25/5021-1/1022-V		10.000000000000000000000000000000000000										
1/9/2023	70.2	31.6	9.2	8.7	2.7	3.9	BDL	BDL	BDL	BDL	BDL	BDL
1/12/2023	58.2	26.2	10.8	10.1	2.3	4.3	BDL	BDL	BDL	BDL	BDL	BDL
1/16/2023	64.3	28.9	10.5	7.7	2.5	3	BDL	BDL	BDL	BDL	BDL	BDL
1/19/2023	73.6	33.1	8.9	6.8	1.8	3.4	BDL	BDL	BDL	BDL	BDL	BDL
1/23/2023	76.7	26.1	17	12.5	2.2	4	BDL	BDL	BDL	BDL	BDL	BDL
1/26/2023	65.3	22.2	15	11	2.3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
1/30/2023	67.9	23.1	16.1	12.6	2.6	4	BDL	BDL	BDL	BDL	BDL	BDL
2/2/2023	75.8	25.9	15.2	11.6	2.5	4.7	BDL	BDL	BDL	BDL	BDL	BDL
2/6/2023	64.1	21.8	16.8	12.3	2.7	4.5	BDL	BDL	BDL	BDL	BDL	BDL
2/9/2023	59.7	20.3	14.9	11.8	2.4	4	BDL	BDL	BDL	BDL	BDL	BDL
2/13/2023	63.2	21.4	16.6	10.6	2.2	4.3	BDL	BDL	BDL	BDL	BDL	BDL
2/16/2023	58.4	26.5	15.2	10.8	2.1	5.2	BDL	BDL	BDL	BDL	BDL	BDL
2/20/2023	48.2	21.5	19.8	11.8	2.7	4.6	BDL	BDL	BDL	BDL	BDL	BDL
2/23/2023	46.7	29.1	17.5	11	2.3	5.4	BDL	BDL	BDL	BDL	BDL	BDL
2/27/2023	52.9	25.8	18.7	11.1	2.4	5	BDL	BDL	BDL	BDL	BDL .	BDL
3/2/2023	48.8	29.2	14.2	11.7	2.3	4.1	BDL	BDL	BDL	BDL	BDL	BDL
3/6/2023	49.6	24.3	17.9	11.9	2	4.7	BDL	BDL	BDL	BDL	BDL	BDL
3/9/2023	46.9	27.2	17.3	10.1	3	4.4	BDL	BDL	BDL	BDL	BDL	BDL
3/13/2023	52.5	25	18	10.9	2.4	4.9₩	BDL	BDL	BDL	BDL	BDL	BDL
3/16/2023	46.7	27.6	16.1	11	2.9	4.8	BDL	BDL	BDL	BDL	BDL	BDL