

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
EASTERN ZONE BENCH, KOLKATA  
ORIGINAL APPLICATION NO. 90 OF 2024 / EZ**

Priyabrata Uttam Nayak ...Applicant

VERSUS

State of Odisha & Others ...Respondents

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1.	Affidavit.	
2.	Photocopy of the Board's letter No.7372 dtd.20.05.2024. <b>(ANNEXURE – R5/1 )</b>	
3.	Photocopy of the report of the fact finding committee carried out on dtd.24.06.2024. <b>(ANNEXURE – R5/2 Colly)</b>	

SPCB Odisha, R.No.5

Through

**Sri Dipanjan Ghosh,**  
Advocates for the Respondent No.5  
(State Pollution Control Board, Odisha)  
e-mail: dpnjnghsh0@gmail.com  
Phone No.:9903080977

Kolkata  
Date:

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
EASTERN ZONE BENCH, KOLKATA  
ORIGINAL APPLICATION NO. 90 OF 2024 / EZ**

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06 JUL 2024

Priyabrata Uttam Nayak ...Applicant

VERSUS

State of Odisha & Others ...Respondents

**AFFIDAVIT ON BEHALF OF THE STATE  
POLLUTION CONTROL BOARD, ODISHA,  
RESPONDENT NO.5.**

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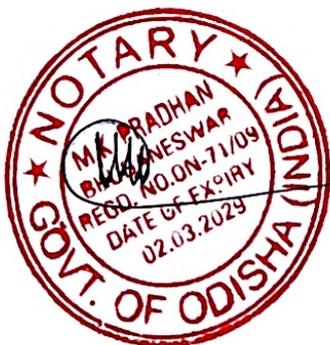
I, Dr. Kailasam Murugesan, IFS, son of late Paramasivam Kailasam aged around 56 years, at present working as Member Secretary, State Pollution Control Board, having my office at Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, P.O. Nayapalli, Bhubaneswar, Dist – Khurda, Odisha-751012, do hereby solemnly affirm and state as under:

1. That I am the Member Secretary of the Respondent No.5 Board and, as such, am well-acquainted with the facts and circumstances with the case and competent to swear this affidavit.



2. That I have gone through the OA and understood the contents thereof.
3. That this OA is relating to unwanted dust pollution caused by coal and other mineral residues accumulated along the road sides on NH-5A between Bhutmundai to Atharabanki by unregulated transportation of coal via truck and trains leading to adverse environmental impact in the Paradeep area of Jagatsinghpur district, Odisha.
4. That the Hon'ble Tribunal while adjudicating the case vide their order dtd.08.05.2024 at para-13 has constituted a fact finding committee to elicit the veracity of the allegations comprising of the following members:
  - i. Senior Scientist, Odisha State Pollution Control Board;
  - ii. Senior Scientist, Central Pollution Control Board;
  - iii. Collector & District Magistrate, Jagatsinghpur, or his representative not below the rank of Addl. District Magistrate.

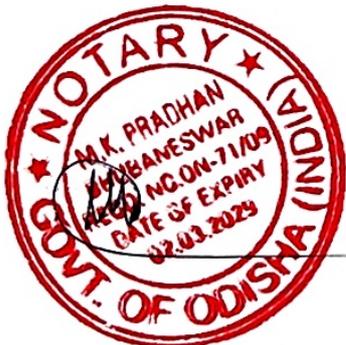
The committee has been directed to inspect the site in question and submit its report with remedial measures on



affidavit with regard to the allegations made. The Collector & DM, Jagatsinghpur has been declared as the Nodal Office for all logistic purposes and the R.No.5 Board has been directed to file the report of the committee on affidavit.

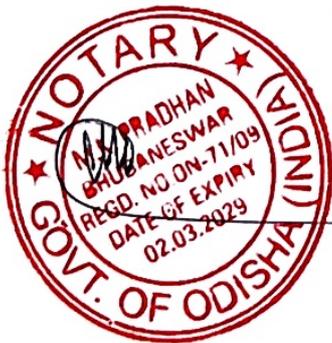
5. That soon after receipt of the copy of the OA and order dtd.08.05.2024 from our counsel, we have nominated Sri Pushkar Chandra Behera, Senior Environmental Scientist and Regional Officer, Paradeep of the R.No.5 Board to represent the Board in the committee constituted by the Hon'ble Tribunal and communicated the same to the Collector & DM, Jagatsinghpur vide Board's letter No.7372 dtd.20.05.2024. A copy of the letter dtd.20.05.2024 is annexed to this affidavit and marked as ANNEXURE- R5/1.

6. That in the meantime, it is informed by the Regional Officer, Paradeep of the R.No.5 Board that the committee along with other officials have jointly visited the alleged site on 24.06.2024 and the committee has submitted the report along with observations/recommendations by the fact finding committee. Copy of

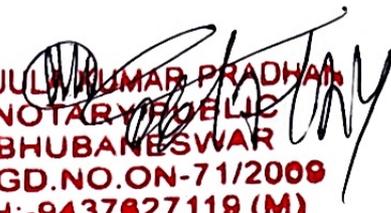


the report of the fact finding committee along with its annexures is annexed to this affidavit and marked as **ANNEXURE – R5/2 Colly.**

7. That this affidavit has been filed to bring on record the fact finding committee report in compliance to direction dtd.08.05.2024 of this Hon'ble Tribunal.
8. That the Respondent No.5 Board craves the leave of this Hon'ble Tribunal to file further affidavit if necessary for effective adjudication of this case.
9. That the annexures annexed to the present affidavit are true and correct copies of their originals.
10. That the contents of the above paragraphs are true and correct to the best of my knowledge, as derived from the official records, and that nothing material has been concealed therefrom.



  
**DEPONENT**  
Member Secretary  
State Pollution Control Board  
Odisha, Bhubaneswar

  
 MANJULA KUMAR PRADHAN  
 NOTARY PUBLIC  
 BHUBANESWAR  
 REGD.NO.ON-71/2008  
 PH:-9437627119 (M)

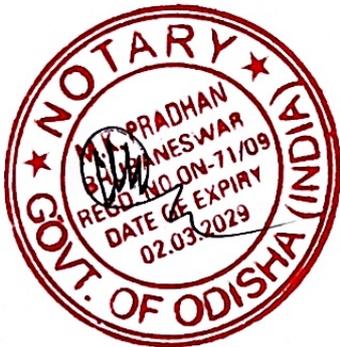
**VERIFICATION:**

I, the above named deponent, do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge, as derived from official records, and that nothing material has been concealed therefrom.

Verified at Bhubaneswar on this the 6<sup>th</sup> day of July, 2024.

**SWORN BEFORE ME**

  
**DEPONENT**  
 Member Secretary  
 State Pollution Control Board  
 Odisha, Bhubaneswar



  
 MANJULA KUMAR PRADHAN  
 NOTARY PUBLIC  
 BHUBANESWAR  
 REGD.NO.ON-71/2008  
 PH:-9437627119 (M)





EPABX: 2561909/2562847  
 Tel: 2562822, 2560955  
 Email: Paribesh1@ospcb.org  
 Website: www.ospcb.org

## STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST AND ENVIRONMENT, GOVERNMENT OF ODISHA]  
 Paribesh Bhawan, A/118, Nilakanthanagar, Unit - VIII,  
 Bhubaneswar - 751 012, INDIA

No. 7372  
 VII - L - Misc - 1101

Date: 20/05/2024  
 Speed Post / E-mail

To

The Collector & District Magistrate  
 Jagatsinghpur

Sub: OA No.90/2024/EZ - Priyabrata Uttam Nayak vs. State of Odisha & Others regarding unwarranted dust pollution caused by coal and other mineral residue accumulated along with the road sides.

Sir,

The Hon'ble NGT, EZB, Kolkata while adjudicating the OA vide their order dtd.8.5.24 has been pleased to constitute a fact finding committee to elicit the veracity of allegation comprising of the following members.

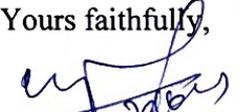
- (i) Senior Scientist, Odisha State Pollution Control Board,
- (ii) Senior Scientist, Central Pollution Control Board,
- (iii) Collector & District Magistrate, Jagatsinghpur, or his representative not below the rank of Additional District Magistrate.

And directed for inspection of the site by the committee and submit its report with remedial measures within four weeks on affidavit with regard to the allegations made. The Collector & DM, Jagatsinghpur shall be the nodal office for all logistic purposes and the report of the committee on affidavit shall be filed by the SPCB, Odisha within four weeks. It is also further directed that the committee shall also identify the polluting agency/agencies or contractors or transporters who would also be required to take the remedial action. The case is posted to 12.07.2024.

Sri Pushkar Chandra Behera, Sr.Env. Scientist and Regional Officer, SPC Board at Paradeep (Mob-9437246493 / 6370637417) is nominated to represent the Board in the committee constituted by the Hon'ble Tribunal. Copy of OA and order dtd.8.5.24 referred above are enclosed for information and necessary action.

Yours faithfully,

Encl: As above.

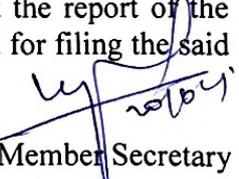
  
 Member Secretary

Memo No. 7373 / Date: 20/05/2024

Speed Post/E-mail

Copy along with copy of enclosure forwarded to the Regional Officer, SPC Board, Paradeep for information and necessary action. He is requested to submit the report of the committee after inspection of the site so that step will be taken by the Board for filing the said report in terms of order dtd.8.5.24 at para-16.

Encl: As above.

  
 Member Secretary

**ANNEXURE - R5 / 2 Colly.****REPORT OF THE FACT-FINDING COMMITTEE BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL EASTERN ZONE BENCH, KOLKATA IN THE MATTER OF ORIGINAL APPLICATION (OA) No. 90/2024/EZ- PRIYABRATA UTTAM NAYAK VS. STATE OF ODISHA & OTHERS.**

The present OA No. 90/2024/EZ has been filled before the Hon'ble NGT by the applicant alleging the unwanted dust pollution caused by coal and other mineral residues accumulated along the roadsides on NH-5A between Bhutmundi to Atharabanki by unregulated transportation of coal via truck and trains leading to adverse environmental impact in the Paradeep area of Jagatsinghpur District, Odisha. The applicant has alleged that about 5,000-10,000 coal laden trucks ply from nearby industries to different places in India passing mostly between NH-5A road between Bhutmundi to Atharabanki which also passes within the city of Paradeep. It is alleged that these trucks do not take any preventive measures for containment of coal dust with the result that coal dust falls off the trucks and pollutes the entire road and area in its vicinity leading to breathing and pulmonary diseases among the residents.

In the view of the above matter the Hon'ble NGT passed order dated 08<sup>th</sup> May, 2024 constituting a fact-finding committee to elicit the veracity of the allegations comprising of the following Members: - (i) Senior Scientist, Odisha State Pollution Control Board, (ii) Senior Scientist, Central Pollution Control Board, (iii) Collector & District Magistrate, Jagatsinghpur, or his representative not below the rank of Additional District Magistrate.

The committee jointly visited the alleged places and elicited the veracity of the allegations in the light of the Original Application to submit a report. Following persons visited the alleged site on 24<sup>th</sup> June 2024.

1. Mr. Lalit Mohan Behera, Additional District Magistrate, Paradeep, Jagatsinghpur
2. Mr. Puskar Chandra Behera, Senior Environmental Scientist & Regional Officer, SPCB, Paradeep and representative of OSPC Board.
3. Mr. Abhijit Pathak, Scientist-D, Central Pollution Control Board, Kolkata
4. Mr. Siddharth Jain, Scientist 'B', Central Pollution Control Board, RD- Kolkata
5. Ms Pushpashree Sandil, Tehsildar, Kujanga, Jagatsinghpur
6. Dibya Lochan Mohapatra, Dy. Environmental Engineer, OSPCB, Paradeep

  
**Addl. District Magistrate  
Paradip**

7. Mr. Umesh Chandra Lenka, Assistant Collector, Office of the ADM, Paradeep

**Observations by the Fact Finding Committee:**

1. The measured road length on Google Map between the Atharabanki and Bhutmundi is 9.68 Km. The Municipal Road length falling under Municipal Jurisdiction of Paradeep, Jagatsinghpur is 3.5Km is NH-53. The rest of the road length 6.18 Km is falling under Panchayat area. **(Annexure I)**
2. The Municipal Road is having 4 lanes (2 each for up and down) with one truck corridor on the incoming side for a short distance.
3. Trucks were found parked at both side of the lane (towards and away from the Paradeep port). It was informed by local authority and also observed by the members that outgoing trucks parked along the road side are mainly empty (unloaded) but perhaps waiting for their turn to get reloaded before leaving from this industrial city and port area. This idling time may be longer which creates congestion of road at one side.
4. During inspection through the alleged road length, it was observed that on an average about 65-70 incoming trucks were parked on each Kilometer on the day of inspection at around 11.30 am.
5. As per the details collected from various industries and port authority by OSPCB the average volume of truck moving in this alleged area handling different materials is 2535 nos./day, which is about 50% less than the volume mentioned by the applicant in OA 90 (5000 – 10000 coal laden trucks) . Among the average total 2535 truck load as reported, 1015 nos./day (about 40%) is handling coal. The coal loaded trucks are mainly outgoing and the chance of being parked at alleged road is less. Whereas, 1520 nos./day (about 60%) trucks are reported carrying other materials.
6. It was also observed by the inspection team that road on Bhutmundi bridge at both sides are occupied by the parked trucks, which is seriously posing a threat to the structure of bridge on safety aspect. It was informed by Tehsildar, Kujang that the Bhutmundi Bridge over river falls in the jurisdiction of both Kendrapada and Jagatsinghpur district.

  
**Addl. District Magistrate  
Paradip**

7. As informed by Tehsildar who was present with the inspection team that a truck parking terminal near the Bhutmundai Bridge at Paradeep side is already planned and District Administration has identified about 30 acres of land in the village Baharacharadia under Kujang tahasil in favour of Transport Department, Govt. of Odisha. The team visited the proposed site where, the foundation stone has been laid in March 2024. Filling of low lying land is being done. The design capacity is for 500-520 trucks parking, with necessary facilities.
8. In view of point no. 7, it is to mention that the area earmarked for parking terminal is on the flood plain of river bed. The preliminary execution (land filling) has been started.
9. Most of the trucks parked along the side of road found covered with tarpaulin or other means. However, very few trucks were observed uncovered, those are loaded with materials other than coal.
10. Majority of the trucks are loaded with mineral dust and other material.
11. Manual sweeping was being carried out on the day of Inspection. However, re-suspension of dust due to sweeping activity was observed. Dry sweeping may create this problem. The difficulties to remove the collected dust along the dividers were observed as the collected dust is temporarily stored as small heaves along the dividers on both sides. These dust heaves are getting re-suspended with the vehicular movements. So the purpose of the road sweeping is defeated. The authority shall ensure swift collection of these dusts and properly dispose the same.
12. Ambient Air quality data for the month of May at three designated locations in Paradeep where, regular monitoring is being performed under NAMP (National Ambient Air Quality Monitoring Programme) is attached as **Annexure – II**. Three monitoring locations are;
  1. Paradeep Port Trust – staff quarter,
  2. Roof top of Paradeep Phosphate Limited - Guest House
  3. Roof top of STP building - IFFCO

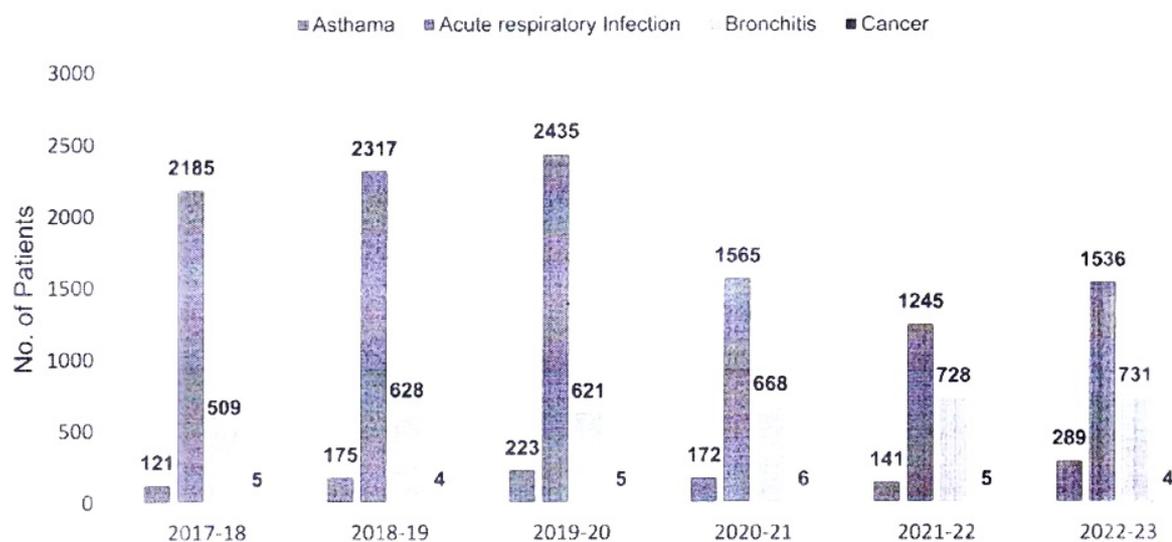
The reported air quality data obtained at three monitoring stations for the month of May (Annexure III), which is prone to be dusty as the dry weather condition with

  
**Addl. District Magistrate**  
**Paradip**

chances of wind blow prevails, revealed that 24 hourly PM<sub>10</sub> and PM<sub>2.5</sub> concentrations ranges between 49 - 99 µg/m<sup>3</sup> and 21 - 44 µg/m<sup>3</sup> respectively. All the values reported for parameters monitored including Particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) are within prescribed limits under NAAQS – 2009 notification.

13. As per the Health reports of the CHC, Paradeep, Jagatsinghpur, the prevalence of air Borne diseases for the past 5 years is depicted in Figure 1. The Yearly analysis of the reports suggests that there was an increasing trend of respiratory diseases during 2017-2018 to 2019 – 2020. The statistics got improved with minor fluctuations with respect to acute respiratory infection. This may be due to better immunity development after COVID vaccination. However, prevalence of Bronchitis found increasing during post COVID period. This may be an impact of damage caused by exposure to COVID. Correlation between health data and air quality as alleged could not be established. **(Annexure III)**
14. As alleged in this case about 5000 to 10000 trucks transport coal on daily basis; the committee found that this figures are mismatching with data available with OSPCB **(Annexure-IV)**. Coal is generally entered in Paradeep port by railway route and trucks are used for local transportation to various destination.

Figure 1: Prevalence of Air Borne Diseases in the Paradeep City as per CHC, Atharabanki, Paradeep (Six years 2017 - 2023)



**Recommendations by the fact-finding committee:**

1. The committee feels that parking of trucks along the road side is an issue for creating congestion and slow vehicular movement on NH 53 in this alleged stretch.
2. Parking on the road for out-going trucks (mostly empty) from port should not be allowed at all.
3. Parking on both sides on the Bhutmundai Bridge should be strictly banned to avoid disaster; both the district administrations of Jagatsinghpur and Kendrapada may be advised to implement it to maintain safety of bridge on Mahanadi River.
4. The identified land should be made flood treatment. Another suitable land of around 100 acre is to be identified for accommodating more than 1000 trucks for the purpose of truck terminal. The District Administration, Paradeep Port Authority and Paradeep Municipality shall also identify suitable patch of land. Regional Officer, OSPCB is to be included in the site selection committee.
5. Proper management and final disposal of the collected dust by manual and mechanical sweeping must be ensured.
6. The MoEF&CC has passed a notification on 21st May, 2020 proposing the safety management practices to transport the coal in the thermal power plants which can be adopted by the other industries for the transportation of the Coal. The committee feels that the regulatory authorities (RTO, OSPCB) shall ensure that transportation of coal is satisfying the guidelines prescribed as following in all respect:
  - A. Coal transportation may be undertaken by covered Railway wagon (railway wagons covered by tarpaulin or other means) and/or covered conveyer beyond the mine area. However, till such time enabling Rail transport/conveyer infrastructure is not available, road transportation may be undertaken in trucks, covered by tarpaulin or other means.

  
**Addl. District Magistrate  
Paradip**

- B. It shall be ensured by the thermal power plant that,
- i. Rail siding facility or conveyor facility is set up at or near the power plant, for transportation by rail or conveyor; and
  - ii. If transportation by rail or conveyor facility is not available, ensure that the coal is transported out from the Delivery Point of the respective mine in covered trucks (by tarpaulin or other means), or any mechanized closed trucks by road.



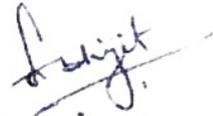
Lalit Mohan Behera  
Additional District Magistrate  
Paradeep

**Add. District Magistrate  
Paradip**



Puskar Chandra Behera  
Sr. Env. Scientist & Regional Officer,  
OSPCB, Paradeep

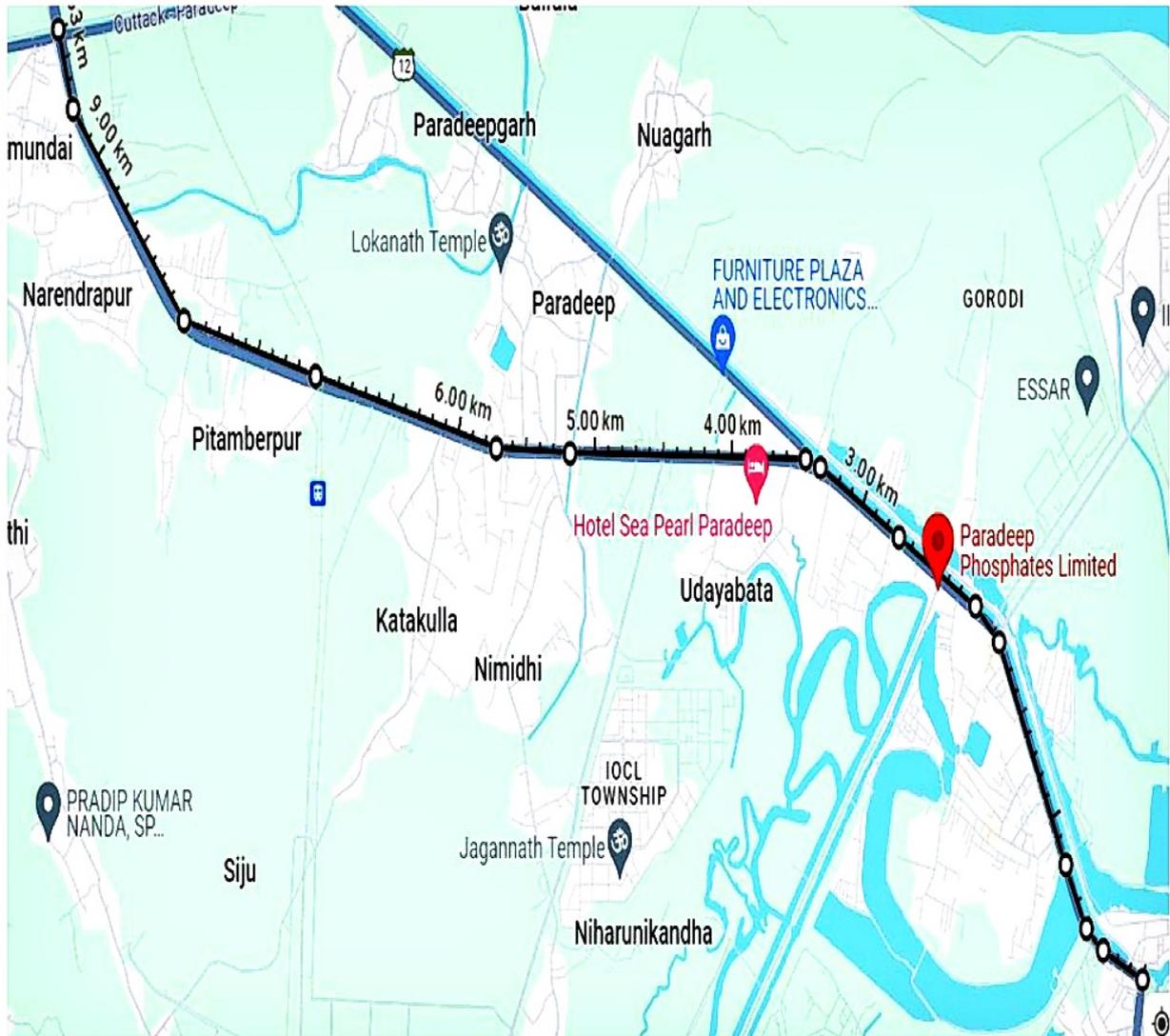
**Regional Officer  
State Pollution Control Board  
Paradeep**



Abhijit Pathak  
Scientist-D  
CPCB, RD- Kolkata

Annexure – I

Depiction of alleged area on a Google Map



Annexure II



Tel: 06722-291044  
Email: rospcb.paradeep@ospcbboard.org  
Website: www.ospcbboard.org

**REGIONAL OFFICE OF THE  
STATE POLLUTION CONTROL BOARD, PARADEEP, ODISHA**  
[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]  
1<sup>ST</sup> FLOOR, CMCE BUILDING, MARINE DRIVE ROAD, NUA SANDHAKUDA, PARADEEP  
JAGATSINGHPUR-754142

Letter No. 774

RO/PDP/LAB/02/PART-III

Date: 20-06-2024

From  
P C Behera  
Regional Officer

To

The Chief Environmental Scientist  
Central Laboratory  
State Pollution Control Board, Odisha  
Plot no. B-59/2 & 59/3, Chandaka Industrial Estate,  
Patia, Bhubaneswar - 24.

Sub:- Submission of analysis report on Ambient Air Quality Monitoring & Environmental Data Bank for the month of **MAY - 2024 under NAMP- Reg.**

Sir,

Please find enclosed here with the analysis report on Ambient Air Quality Monitoring & Environmental Data Bank for the Month of **MAY- 2024** under NAMP of three different stations, i.e. On the roof of **Paradeep Port Authority staff Quarter**, Paradeep, On the Roof of **Paradeep Phosphate Limited, Guest House**, Paradeep & On the Roof of **STP Building,IFFCO** Paradeep

This is for your kind information and necessary action.

Yours Faithfully

Encl: - As above;

  
**REGIONAL OFFICER**



### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date	Name of Monitoring station:	Area Class:	City:	State Name	1-Hourly Value of NH <sub>3</sub>	8-Hourly Value of O <sub>3</sub>	8-Hourly Value of O <sub>3</sub>	8-Hourly Value of O <sub>3</sub>					
691	02.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	128.6	116.0	114.2	111.3	103.3	96.3	23.8	18.6	15.6
691	07.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	126.8	116.1	120.5	110.3	105.3	100.3	25.4	19.9	16.2
691	10.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	121.5	118.0	117.3	113.3	106.3	101.3	23.8	20.3	16.8
691	14.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	127.1	121.1	104.3	115.3	102.2	96.4	23.9	22.6	14.9
691	16.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	127.6	120.9	117.1	114.3	109.3	103.2	24.7	22.7	14.3
691	20.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	126.6	102.2	106.3	113.4	108.3	102.2	24.6	21.1	23.2
691	23.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	133.7	118.5	117.0	109.8	106.3	102.2	22.9	21.6	17.0
691	28.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	131.1	121.9	115.1	112.3	108.3	101.3	21.2	23.3	15.2
691	30.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	125.8	124.1	113.3	111.4	105.3	97.4	23.9	22.9	17.4

Srikanta Patra  
Jadunath Sahas  
Monitoring & Analysed By

  
AES

  
Regional Officer

### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date	Name of Monitoring station:	Area Class:	City:	State Name	4-Hourly Value of SO <sub>2</sub>	4-Hourly Value of N <sub>2</sub> O	8-Hourly Value of RSPM	8-Hourly Value of RSPM	8-Hourly Value of RSPM	PM <sub>2.5</sub> 24 Hrs										
691	02.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	13.8	10.5	8.1	15.4	12.3	9.8	12.0	13.9	15.1	10.9	9.1	4.5	81	70	59	30
691	07.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	17.0	19.4	14.6	11.4	13.1	9.8	15.1	13.8	16.3	12.1	10.9	9.1	110	69	64	37
691	10.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	20.2	17.8	15.5	18.7	13.9	10.7	16.2	14.4	15.7	13.3	11.5	4.5	68	63	52	28
691	14.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	12.2	17.8	19.5	17.9	15.5	11.4	17.5	15.6	16.9	14.5	13.4	11.5	89	52	80	32
691	16.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	12.1	9.7	13.8	15.5	8.2	10.6	14.4	16.3	20.5	15.7	13.4	9.1	113	66	71	37
691	20.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	10.5	14.6	17.0	13.0	17.2	9.8	16.9	9.6	12.1	4.5	12.8	10.9	67	62	58	29
691	23.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	12.2	10.5	14.0	15.2	11.4	18.8	12.1	16.8	13.4	11.9	11.5	9.1	61	60	42	24
691	28.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	13.8	12.2	16.2	10.6	17.2	15.5	9.6	9.0	15.1	13.9	4.5	10.9	70	121	105	43
691	30.05.2024	On roof of STP building, IFFCO	I	Paradeep	Odisha	13	14.6	11.4	22	9.8	16.3	18.1	16.9	10.3	12.7	13.4	10.3	57	68	45	24

Srikanta Patra  
Jadunath Saha  
Monitoring & Analysed By

  
AES

  
Regional Officer

**Table-A: Ambient Air Quality Data for SO<sub>2</sub> and NO<sub>x</sub> monitored by State Pollution Control Board, Odisha**

Sampling Location Address: On the Roof of STP Building, IFFCO, Paradeep

City	State	Parameter	Units
Paradeep	Odisha	SO <sub>2</sub>	µg/m <sup>3</sup>
		NO <sub>x</sub>	µg/m <sup>3</sup>

Stationcode:691

Station Type\*: I

Month: MAY

Year: 2024

Sl. No.	Hr → Date ↓	SO <sub>2</sub>								NO <sub>x</sub>								Weather Condition**	Remarks#
		06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.*	06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.		
		1	02.05.2024	13.8	10.5	8.1	15.4	12.3	9.8	15.4	11.7	12.0	13.9	15.1	10.9	9.1	4.5		
2	07.05.2024	17.0	19.4	14.6	11.4	13.1	9.8	19.4	14.2	15.1	13.8	16.3	12.1	10.9	9.1	16.3	12.9	Clear	
3	10.05.2024	20.2	17.8	15.5	18.7	13.9	10.7	20.2	16.1	16.2	14.4	15.7	13.3	11.5	4.5	16.2	12.6	Cloudy/Clear	
4	14.05.2024	12.2	17.8	19.5	17.9	15.5	11.4	19.5	15.7	17.5	15.6	16.9	14.5	13.4	11.5	17.5	14.9	Clear	
5	16.05.2024	12.1	9.7	13.8	15.5	8.2	10.6	15.5	11.7	14.4	16.3	20.5	15.7	13.4	9.1	20.5	14.9	Clear	
6	20.05.2024	10.5	14.6	17.0	13.0	17.2	9.8	17.2	13.7	16.9	9.6	12.1	4.5	12.8	10.9	16.9	11.1	Clear	
7	23.05.2024	12.2	10.5	14.0	15.2	11.4	18.8	18.8	13.7	12.1	16.8	13.4	11.9	11.5	9.1	16.8	12.5	Cloudy	
8	28.05.2024	13.8	12.2	16.2	10.6	17.2	15.5	17.2	14.3	9.6	9.0	15.1	13.9	4.5	10.9	15.1	10.5	Clear	
9	30.05.2024	13.0	14.6	11.4	22.0	9.8	16.3	22.0	14.5	18.1	16.9	10.3	12.7	13.4	10.3	18.1	13.6	Clear	

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

# Remarks:

Note:- Kindly indicate if monitoring is not carried out for 24 hrs. in a day OR less than 8 days in a month.

BDL : \*For 4 Hr. value - Lower Detective Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.\*For 24 Hr. Avg. - Lower Detective Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.

Soikanta Patra  
Jadunath Sahas  
Monitoring & Analysed By

  
AES

  
Regional Officer

**Table-A(2): Ambient Air Quality Data for NH<sub>3</sub> and O<sub>3</sub> monitored by State Pollution Control Board, Odisha**

Sampling Location Address: On the Roof of STP Building, IFFCO, Paradeep	
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City	State	Parameter	Units
Paradeep	Odisha	NH <sub>3</sub>	µg/m <sup>3</sup>
		O <sub>3</sub>	µg/m <sup>3</sup>

Stationcode:691

Station Type\*: I

Month: MAY

Year: 2024

Sl. No.	Hr → Date ↓	NH <sub>3</sub>								O <sub>3</sub>					Weather Condition**	Remarks#
		06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.*	06-14.	14-22.	22-06.	8 hrs. Max.	24 hrs. Avg.		
		1	02.05.2024	128.6	116.0	114.2	111.3	103.3	96.3	128.6	111.6	23.8	18.6	15.6		
2	07.05.2024	126.8	116.1	120.5	110.3	105.3	100.3	126.8	113.2	25.4	19.9	16.2	25.4	20.5	Clear	
3	10.05.2024	121.5	118.0	117.3	113.3	106.3	101.3	121.5	113.0	23.8	20.3	16.8	23.8	20.3	Cloudy/Clear	
4	14.05.2024	127.1	121.1	104.3	115.3	102.2	96.4	127.1	111.1	23.9	22.6	14.9	23.9	20.5	Clear	
5	16.05.2024	127.6	120.9	117.1	114.3	109.3	103.2	127.6	115.4	24.7	22.7	14.3	24.7	20.6	Clear	
6	20.05.2024	126.6	102.2	106.3	113.4	108.3	102.2	126.6	109.8	24.6	21.1	23.2	24.6	23.0	Clear	
7	23.05.2024	133.7	118.5	117.0	109.8	106.3	102.2	133.7	114.6	22.9	21.6	17.0	22.9	20.5	Cloudy	
8	28.05.2024	131.1	121.9	115.1	112.3	108.3	101.3	131.1	115.0	21.2	23.3	15.2	23.3	19.9	Clear	
9	30.05.2024	125.8	124.1	113.3	111.4	105.3	97.4	125.8	112.9	23.9	22.9	17.4	23.9	21.4	Clear	

\* Kindly fill in "R", if station falls in Residential area/"I", if station falls in Industrial area/"S", if falls in Sensitive area.

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

# Remarks:

Note:- Kindly indicate if monitoring is not carried out for 24 hrs. in a day OR less than 8 days in a month.

BDL : For4 Hr. value - Lower Detective Level is 20 µg/m<sup>3</sup> for NH<sub>3</sub>

BDL : For8 Hr. value - Lower Detective Level is 20 µg/m<sup>3</sup> for O<sub>3</sub>

Srikanta Patra  
Jadunath Sahoo  
Monitoring & Analysed By

  
AES

  
Regional Officer

**Table-B: Ambient Air Quality Data for PM<sub>10</sub> and PM<sub>2.5</sub> monitored by State Pollution Control Board, Odisha****Sampling Location Address: On the Roof of STP Building, IFFCO, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	PM <sub>10</sub>	µg/m <sup>3</sup>
		PM <sub>2.5</sub>	µg/m <sup>3</sup>

Stationcode: 691

Station Type\*: I

Month: MAY

Year: 2024

Sl. No.	PM <sub>10</sub> µg/m <sup>3</sup>						PM 2.5 24 Hrs	Weather Condition**	Remarks#
	Hr Date ↓	06-14.	14-22.	22-06.	8 hrs. Max.	24 hrs. Avg.			
1	02.05.2024	81	70	59	81	70	30	Clear	
2	07.05.2024	110	69	64	110	81	37	Clear	
3	10.05.2024	68	63	52	68	61	28	Cloudy/Clear	
4	14.05.2024	89	52	80	89	74	32	Clear	
5	16.05.2024	113	66	71	113	83	37	Clear	
6	20.05.2024	67	62	58	67	62	29	Clear	
7	23.05.2024	61	60	42	61	54	24	Cloudy	
8	28.05.2024	70	121	105	121	99	43	Clear	
9	30.05.2024	57	68	45	68	57	24	Clear	

\* Kindly fill in "R", if station falls in Residential area/"I", if station falls in Industrial area/"S", if falls in Sensitive area.

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

# Remarks:

Note:- Kindly indicate if monitoring is not carried out for 24 hrs. in a day OR less than 8 days in a month.

For 24 Hr. Avg.- Lower Detectable Level (LDL) is 5.0 µg/m<sup>3</sup> for RSPM and For 8 Hr. Avg. LDL is 3.0 µg/m<sup>3</sup> for RSPM

Srikanta Patra  
Jadunath Saha  
Monitoring & Analysed By

  
AES

  
Regional Officer



### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date	Name of Monitoring station:	Area Class:	City:	State Name	4-Hourly Value of SO <sub>2</sub>	4-Hourly Value of NO <sub>2</sub>	8-Hourly Value of RSPM	8-Hourly Value of RSPM	8-Hourly Value of RSPM	PM <sub>2.5</sub> 24 Hrs										
692	02.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	12.1	9.6	14.1	11.2	14.0	15.6	13.1	14.8	9.9	10.2	11.0	9.1	71	69	56	34
692	07.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	18.6	12.0	16.4	13.8	19.8	15.4	12.6	10.1	14.0	15.7	10.4	11.4	64	63	51	31
692	09.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	15.4	12.9	18.3	20.2	22.4	14.1	12.0	10.8	13.6	12.6	10.7	10.5	60	63	61	34
692	14.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	19.5	16.1	15.2	20.0	12.0	13.7	13.9	10.2	11.9	16.7	11.3	12.0	82	94	79	43
692	17.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	21.3	13.7	16.0	20.8	13.6	18.9	14.0	13.8	10.7	17.3	11.9	10.4	74	64	59	32
692	21.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	11.5	7.2	16.7	15.5	13.0	7.4	10.4	14.3	12.4	14.0	4.5	10.4	76	66	72	39
692	24.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	16.1	13.0	16.9	9.9	13.6	19.0	4.5	14.4	10.7	15.9	11.3	12.3	47	55	46	26
692	27.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	15.4	8.0	14.0	12.3	19.6	16.6	11.5	13.7	14.7	15.9	10.3	10.6	51	65	50	21
692	30.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	17.8	14.1	15.3	11.3	14.4	12.2	12.0	10.5	16.8	11.4	4.5	10.3	55	58	44	23

*Anil Kumar Pradhan*  
*Jodunath Saha*  
 Monitored & Analysed By

*Panda*  
 AES

*[Signature]*  
 Regional Officer

### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date ↓	Name of Monitoring station:	Area Class:	City:	State Name	4-Hourly Value of NH <sub>3</sub>	8-Hourly Value of O <sub>3</sub>	8-Hourly Value of O <sub>3</sub>	8-Hourly Value of O <sub>3</sub>					
692	02.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	82.2	50.1	66.5	64.7	71.8	64.8	26.5	18.3	15.5
692	07.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	139.1	127.1	96.3	82.9	133.3	105.2	29.2	23.9	20.0
692	09.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	92.6	129.8	110.6	102.2	121.7	119.1	24.9	20.3	17.6
692	14.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	116.1	123.9	136.9	117.1	105.2	120.4	27.1	20.6	20.1
692	17.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	142.6	109.0	89.8	101.3	113.3	142.4	26.7	25.4	19.4
692	21.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	122.1	124.8	118.7	121.1	85.4	94.0	25.4	30.9	15.6
692	24.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	79.1	84.7	109.4	111.1	132.6	127.5	20.9	17.4	14.6
692	27.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	83.1	125.3	134.3	87.9	101.3	105.9	20.1	14.7	11.4
692	30.05.2024	On roof of PPL Guest House	R	Paradeep	Odisha	81.4	94.9	113.0	112.2	83.5	85.8	23.6	22.8	18.9

*Anand Kumar Pradhan.*  
*Jadunath Sahoo*  
Monitored & Analysed By

*Anand*  
AES

*[Signature]*  
Regional Officer

**Table-A: Ambient Air Quality Data for SO<sub>2</sub> and NO<sub>x</sub> monitored by State Pollution control Board, Odisha****Sampling Location Address: On the Roof of PPL Guest House, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	SO <sub>2</sub>	µg/m <sup>3</sup>
		NO <sub>x</sub>	µg/m <sup>3</sup>

Stationcode:692

Station Type\*: R

Month: MAY

Year: 2024

Sl. No.	Hr → Date ↓	SO <sub>2</sub>								NO <sub>x</sub>								Weather	Remarks#
		06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.*	06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.	Condition**	
		1	02.05.2024	12.1	9.6	14.1	11.2	14.0	15.6	15.6	12.8	13.1	14.8	9.9	10.2	11.0	9.1	14.8	
2	07.05.2024	18.6	12.0	16.4	13.8	19.8	15.4	19.8	16.0	12.6	10.1	14.0	15.7	10.4	11.4	15.7	12.4	Cloudy	
3	09.05.2024	15.4	12.9	18.3	20.2	22.4	14.1	22.4	17.2	12.0	10.8	13.6	12.6	10.7	10.5	13.6	11.7	Clear/Cloudy	
4	14.05.2024	19.5	16.1	15.2	20.0	12.0	13.7	20.0	16.1	13.9	10.2	11.9	16.7	11.3	12.0	16.7	12.7	Clear/Cloudy	
5	17.05.2024	21.3	13.7	16.0	20.8	13.6	18.9	21.3	17.4	14.0	13.8	10.7	17.3	11.9	10.4	17.3	13.0	Clear	
6	21.05.2024	11.5	7.2	16.7	15.5	13.0	7.4	16.7	11.9	10.4	14.3	12.4	14.0	4.5	10.4	14.3	11.0	Clear/Cloudy	
7	24.05.2024	16.1	13.0	16.9	9.9	13.6	19.0	19.0	14.8	4.5	14.4	10.7	15.9	11.3	12.3	15.9	11.5	Clear/Cloudy	
8	27.05.2024	15.4	8.0	14.0	12.3	19.6	16.6	19.6	14.3	11.5	13.7	14.7	15.9	10.3	10.6	15.9	12.8	Clear/Cloudy	
9	30.05.2024	17.8	14.1	15.3	11.3	14.4	12.2	17.8	14.2	12.0	10.5	16.8	11.4	4.5	10.3	16.8	10.9	Cloudy	

\* Kindly fill in "R", if station falls in Residential area/"I", if station falls in Industrial area/"S", if falls in Sensitive area.

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

BDL : For 4 Hr. value - Lower Detective Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.\*For 24 Hr. Avg. - Lower Detective Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.

Anand Kumar Pradhan.  
Jadunath Sahoo  
Monitored & Analysed By

  
AES

  
Regional Officer

**Table-A-2: Ambient Air Quality Data for NH<sub>3</sub> and O<sub>3</sub> monitored by State Pollution control Board, Odisha****Sampling Location Address: On the Roof of PPL Guest House, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	NH <sub>3</sub>	µg/m <sup>3</sup>
		O <sub>3</sub>	µg/m <sup>3</sup>

Stationcode:692

Station Type\*: R

Month: MAY

Year: 2024

Sl. No.	Hr → Date ↓	NH <sub>3</sub>								O <sub>3</sub>					Weather	Remarks#
		06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.*	06-14.	14-22.	22-06.	8 hrs. Max.	24 hrs. Avg.	Condition**	
1	02.05.2024	82.2	50.1	66.5	64.7	71.8	64.8	82.2	66.7	26.5	18.3	15.5	26.5	20.1	Clear	
2	07.05.2024	139.1	127.1	96.3	82.9	133.3	105.2	139.1	114.0	29.2	23.9	20.0	29.2	24.4	Cloudy	
3	09.05.2024	92.6	129.8	110.6	102.2	121.7	119.1	129.8	112.7	24.9	20.3	17.6	24.9	20.9	Clear/Cloudy	
4	14.05.2024	116.1	123.9	136.9	117.1	105.2	120.4	136.9	119.9	27.1	20.6	20.1	27.1	22.6	Clear/Cloudy	
5	17.05.2024	142.6	109.0	89.8	101.3	113.3	142.4	142.6	116.4	26.7	25.4	19.4	26.7	23.8	Clear	
6	21.05.2024	122.1	124.8	118.7	121.1	85.4	94.0	124.8	111.0	25.4	30.9	15.6	30.9	24.0	Clear/Cloudy	
7	24.05.2024	79.1	84.7	109.4	111.1	132.6	127.5	132.6	107.4	20.9	17.4	14.6	20.9	17.6	Clear/Cloudy	
8	27.05.2024	83.1	125.3	134.3	87.9	101.3	105.9	134.3	106.3	20.1	14.7	11.4	20.1	15.4	Clear/Cloudy	
9	30.05.2024	81.4	94.9	113.0	112.2	83.5	85.8	113.0	95.1	23.6	22.8	18.9	23.6	21.8	Cloudy	

\* Kindly fill in "R", if station falls in Residential area/"I", if station falls in Industrial area/"S", if falls in Sensitive area.

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

BDL : For4 Hr. value - Lower Detective Level is 20 µg/m<sup>3</sup> for NH<sub>3</sub>BDL : For8 Hr. value - Lower Detective Level is 20 µg/m<sup>3</sup> for O<sub>3</sub>

*Anil Kumar Pradhan*  
*Jadunath Sahoo*  
 Monitored & Analysed By

*[Signature]*  
 AES

*[Signature]*  
 Regional Officer

**Table-B: Ambient Air Quality Data for PM<sub>10</sub> and PM<sub>2.5</sub> monitored by State Pollution Control Board, Odisha****Sampling Location Address: On the Roof of PPL Guest House, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	PM <sub>10</sub>	µg/m <sup>3</sup>
		PM <sub>2.5</sub>	µg/m <sup>3</sup>

Stationcode: 692 Station Type\*:R

Month : MAY

Year: 2024

SL NO	Hr Date ↓	PM <sub>10</sub> µg/m <sup>3</sup>						PM <sub>2.5</sub> µg/m <sup>3</sup> 24 Hrs	Weather condition**	Remarks
		06-14.	14-22.	22-06.	8 hrs. Max.	24 hrs. Avg.				
1	02.05.2024	71	69	56	71	65	34	Clear		
2	07.05.2024	64	63	51	64	59	31	Cloudy		
3	09.05.2024	60	63	61	63	61	34	Clear/Cloudy		
4	14.05.2024	82	94	79	94	85	43	Clear/Cloudy		
5	17.05.2024	74	64	59	74	66	32	Clear		
6	21.05.2024	76	66	72	76	71	39	Clear/Cloudy		
7	24.05.2024	47	55	46	55	49	26	Clear/Cloudy		
8	27.05.2024	51	65	50	65	55	21	Clear/Cloudy		
9	30.05.2024	55	58	44	58	52	23	Cloudy		

\* Kindly fill in "R", if station falls in Residential area/"I", if station falls in Industrial area/"S", if falls in Sensitive area.

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

Note:- Kindly indicate if monitoring is not carried out for 24 hrs. in a day or less than 8 days in a month.

For 24 Hr. Avg.- Lower Detective Level (LDL) is 5.0 µg/m<sup>3</sup> for RSPM and For 8 Hr. Avg. LDL is 3.0 µg/m<sup>3</sup> for RSPM

Anand Kumar Pradhan.  
Jodunath Sahas  
Monitoring & Analysed By

  
AES

  
Regional Officer



### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date	Name of Monitoring station:	Area Class:	City:	State Name	4-Hourly Value of SO <sub>2</sub>	4-Hourly Value of NO <sub>2</sub>	8-Hourly Value of RSPM	8-Hourly Value of RSPM	8-Hourly Value of RSPM	PM <sub>2.5</sub> 24 Hrs										
693	02.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	11.4	8.1	13.0	8.2	12.2	13.7	10.9	12.6	4.5	11.5	13.3	9.6	68	56	65	25
693	08.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	11.4	17.0	15.5	20.1	18.1	19.3	13.3	10.9	12.1	14.4	11.0	4.5	61	80	89	34
693	10.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	18.7	13.8	15.5	21.2	12.1	10.6	13.3	11.5	15.2	12.1	10.8	4.5	74	86	78	44
693	14.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	17.7	20.5	13.7	17.2	12.9	15.6	11.3	13.4	9.6	15.2	12.0	10.4	89	66	71	36
693	16.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	14.5	19.7	9.7	13.9	16.1	18.9	12.6	14.7	12.0	17.1	10.8	12.2	76	67	64	31
693	21.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	24.3	21.2	26.8	19.4	25.5	26.0	14.4	11.5	13.3	12.0	9.8	4.5	70	62	66	38
693	24.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	11.4	15.4	17.9	12.1	24.0	16.9	10.9	15.1	12.1	14.4	11.7	10.2	64	54	62	28
693	28.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	15.4	19.6	12.2	13.9	10.5	16.4	12.6	14.5	11.5	13.3	10.8	4.5	57	54	50	26
693	30.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	16.1	12.3	17.8	10.7	13.0	11.4	11.4	13.4	10.8	14.7	11.5	13.3	49	59	61	26

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### Ambient Air Quality Data entered in Environmental Data Bank

Station code	Sampling Date ↓	Name of Monitoring station	Area Class:	City:	State Name	4-Hourly Value of NH3	8-Hourly Value of O3	8-Hourly Value of O3	8-Hourly Value of O3					
693	02.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	72.2	59.1	83.9	66.1	69.2	72.2	22.6	20.7	17.3
693	08.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	98.2	121.3	117.6	108.3	116.0	104.3	24.1	22.5	20.4
693	10.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	109.2	91.5	123.8	114.3	120.3	116.3	24.6	22.8	20.3
693	14.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	102.2	130.5	132.6	124.2	110.1	113.8	24.1	23.5	19.9
693	16.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	96.3	125.3	112.3	133.6	113.0	112.7	25.7	21.4	18.7
693	21.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	121.1	130.6	112.3	109.4	121.1	102.3	27.1	26.2	22.3
693	24.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	96.1	106.3	122.3	90.2	109.9	120.3	24.6	22.0	18.2
693	28.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	87.4	96.2	108.3	112.3	86.2	95.1	24.8	21.4	20.3
693	30.05.2024	On roof of PPT Staff Quarter	R	Paradeep	Odisha	86.2	96.0	90.0	108.3	80.2	114.5	26.5	23.1	19.1

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Sudhanshu Sahoo  
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**Table-A: Ambient Air Quality Data for SO<sub>2</sub> and NO<sub>x</sub> monitored by State Pollution Control Board, Odisha****Sampling Location Address: On the Roof of Paradeep Port Trust Staff Quarter, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	SO <sub>2</sub>	µg/m <sup>3</sup>
		NO <sub>x</sub>	µg/m <sup>3</sup>

Stationcode: 693

Station Type\*: R

Month : MAY

Year: 2024

Sl. No.	Hr → Date ↓	SO <sub>2</sub>								NO <sub>x</sub>								Weather Condition**	Remarks#
		06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.*	06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	4 hrs. Max.	24 hrs. Avg.		
		1	02.05.2024	11.4	8.1	13.0	8.2	12.2	13.7	13.7	11.1	10.9	12.6	4.5	11.5	13.3	9.6		
2	08.05.2024	11.4	17.0	15.5	20.1	18.1	19.3	20.1	16.9	13.3	10.9	12.1	14.4	11.0	4.5	14.4	11.0	Clear	
3	10.05.2024	18.7	13.8	15.5	21.2	12.1	10.6	21.2	15.3	13.3	11.5	15.2	12.1	10.8	4.5	15.2	11.2	Cloudy/Rainy	
4	14.05.2024	17.7	20.5	13.7	17.2	12.9	15.6	20.5	16.3	11.3	13.4	9.6	15.2	12.0	10.4	15.2	12.0	Clear	
5	16.05.2024	14.5	19.7	9.7	13.9	16.1	18.9	19.7	15.5	12.6	14.7	12.0	17.1	10.8	12.2	17.1	13.2	Clear	
6	21.05.2024	24.3	21.2	26.8	19.4	25.5	26.0	26.8	23.9	14.4	11.5	13.3	12.0	9.8	4.5	14.4	10.9	Clear	
7	24.05.2024	11.4	15.4	17.9	12.1	24.0	16.9	24.0	16.3	10.9	15.1	12.1	14.4	11.7	10.2	15.1	12.4	Cloudy	
8	28.05.2024	15.4	19.6	12.2	13.9	10.5	16.4	19.6	14.7	12.6	14.5	11.5	13.3	10.8	4.5	14.5	11.2	Clear	
9	30.05.2024	16.1	12.3	17.8	10.7	13.0	11.4	17.8	13.7	11.4	13.4	10.8	14.7	11.5	13.3	14.7	12.5	Clear	

BDL : For 4 Hr. value - Lower Detectable Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.\*For 24 Hr. Avg. - Lower Detectable Level is 4.0 µg/m<sup>3</sup> for SO<sub>2</sub> & 9.0 µg/m<sup>3</sup> for NO<sub>x</sub>.

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**Table-A-2: Ambient Air Quality Data for NH<sub>3</sub> and O<sub>3</sub> monitored by State Pollution Control Board, Odisha****Sampling Location Address: On the Roof of Paradeep Port Trust Staff Quarter, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	NH <sub>3</sub>	µg/m <sup>3</sup>
		O <sub>3</sub>	µg/m <sup>3</sup>

Stationcode: 693

Station Type\*: R

Month : MAY

Year: 2024

Sl. No.	NH <sub>3</sub>									O <sub>3</sub>					Weather Condition**	Remarks#
	Hr →							4 hrs.	24 hrs.			4 hrs.	24 hrs.			
	Date ↓	06-10.	10-14.	14-18.	18-22.	22-02.	02-06.	Max.	Avg.*	06-14.	14-22.	22-06.	Max.	Avg.		
1	02.05.2024	72.2	59.1	83.9	66.1	69.2	72.2	83.9	70.5	22.6	20.7	17.3	22.6	20.2	Clear	
2	08.05.2024	98.2	121.3	117.6	108.3	116.0	104.3	121.3	111.0	24.1	22.5	20.4	24.1	22.3	Clear	
3	10.05.2024	109.2	91.5	123.8	114.3	120.3	116.3	123.8	112.6	24.6	22.8	20.3	24.6	22.6	Cloudy/Rainy	
4	14.05.2024	102.2	130.5	132.6	124.2	110.1	113.8	132.6	118.9	24.1	23.5	19.9	24.1	22.5	Clear	
5	16.05.2024	96.3	125.3	112.3	133.6	113.0	112.7	133.6	115.5	25.7	21.4	18.7	25.7	21.9	Clear	
6	21.05.2024	121.1	130.6	112.3	109.4	121.1	102.3	130.6	116.1	27.1	26.2	22.3	27.1	25.2	Clear	
7	24.05.2024	96.1	106.3	122.3	90.2	109.9	120.3	122.3	107.5	24.6	22.0	18.2	24.6	21.6	Cloudy	
8	28.05.2024	87.4	96.2	108.3	112.3	86.2	95.1	112.3	97.6	24.8	21.4	20.3	24.8	22.2	Clear	
9	30.05.2024	86.2	96.0	90.0	108.3	80.2	114.5	114.5	95.9	26.5	23.1	19.1	26.5	22.9	Clear	

BDL : For4 Hr. value - Lower Detectable Level is 20 µg/m<sup>3</sup> for NH<sub>3</sub>BDL : For8 Hr. value - Lower Detectable Level is 20 µg/m<sup>3</sup> for O<sub>3</sub>

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**Table-B: Ambient Air Quality Data for PM<sub>10</sub> and PM<sub>2.5</sub> Monitored by State Pollution Control Board, Odisha****Sampling Location Address: On the Roof of Paradeep Port Trust Staff Quarter, Paradeep**

City	State	Parameter	Units
Paradeep	Odisha	PM <sub>10</sub>	µg/m <sup>3</sup>
		PM <sub>2.5</sub>	µg/m <sup>3</sup>

Stationcode:693

Station Type\*: R

Month : MAY

Year: 2024

SL NO	Hr → Date	PM <sub>10</sub> µg/m <sup>3</sup>					PM <sub>2.5</sub> µg/m <sup>3</sup> 24 Hrs	Weather condition**	Remarks#
		06-14.	14-22.	22-06.	8 hrs. Max.	24 hrs. Avg.			
1	02.05.2024	68	56	65	68	63	25	Clear	
2	08.05.2024	61	80	89	89	77	34	Clear	
3	10.05.2024	74	86	78	86	79	44	Cloudy/Rainy	
4	14.05.2024	89	66	71	89	75	36	Clear	
5	16.05.2024	76	67	64	76	69	31	Clear	
6	21.05.2024	70	62	66	70	66	38	Clear	
7	24.05.2024	64	54	62	64	60	28	Cloudy	
8	28.05.2024	57	54	50	57	54	26	Clear	
9	30.05.2024	49	59	61	61	56	26	Clear	

\*\* Kindly fill in Weather conditions as Clear/Cloudy/Rainy/Cyclone/dust storm/Calm Condition (One or more may be applicable)

Note:- Kindly indicate if monitoring is not carried out for 24 hrs. in a day or less than 8 days in a month.

For 24 Hr. Avg.- Lower Detective Level (LDL) is 5.0 µg/m<sup>3</sup> for RSPM and For 8 Hr. Avg. LDL is 3.0 µg/m<sup>3</sup> for RSPM

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**Table-C: Summary of Ambient Air Quality Data Monitored by State Pollution Control Board ,Paradeep**Name of City: **Paradeep**Name of State: **Odisha**Month : **MAY**

Year-2024

Sl.No.	Sampling Location address	Station type.	Month & Year	SO <sub>2</sub>			NO <sub>x</sub>			PM <sub>10</sub>				PM <sub>2.5</sub>				NH <sub>3</sub>			O <sub>3</sub>								
				n	A.M	S.D	Max.	n	A.M	S.D	Max.	n	A.M	G.M	S.D	Max.	n	A.M	G.M	S.D	max	n	A.M	S.D	Max				
							(24 Hrs.)				(24 Hrs.)					(24 Hrs.)					(24 Hrs.)					(24 Hrs.)			
1	On the roof of IFFCO STP Building	R	May-24	9	14.2	1.4	16.1	9	12.9	1.6	14.9	9	71.4	70.0	15.5	98.7	9	31.8	31.1	6.8	43.0	9	113.1	1.9	115.4	9	20.8	1.0	23.0
2	On the Roof of PPL Guest House, Paradeep	R	May-24	9	15.2	1.8	17.4	9	12.0	0.8	13.0	9	62.5	61.6	11.5	85.0	9	31.1	30.3	7.6	43.0	9	110.4	7.6	119.9	9	21.3	3.2	24.4
3	On the Roof of PPT Staff Quarter, Paradeep	I	May-24	9	16.6	3.1	23.9	9	11.8	0.8	13.2	9	67.0	66.4	9.7	79.3	9	32.9	32.4	6.4	44.0	9	109.4	8.6	118.9	9	22.7	1.1	25.2

\* Kindly fill in "R", if station falls in Residential area. "I", if station falls in Industrial area. "S", if station falls in Sensitive area.

**Note:-**

n = Number of observations (In days)

A.M = Arithmetic mean in  $\mu\text{g}/\text{m}^3$ 

S.D = Standard Deviation

Max.= Maximum value (24 hours average in  $\mu\text{g}/\text{m}^3$ )G.M = Geometric Mean in  $\mu\text{g}/\text{m}^3$ Min.= Minimum value (24 hours average in  $\mu\text{g}/\text{m}^3$ )

Bibeekananda Khondwal

Jodunath Sahu

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 AES

  
 Regional Officer





## Annexure III

OFFICE OF THE SUPERINTENDENT, CHC PARADEEP, JAGATSINGHPUR  
E\_mail :chcparadeep@gmail.com

Letter no 250

Date. 18/06/24

INFORMATION ON HEALTH STATISTICS PARADEEP POLLUTED INDUSTRIAL AREA

1. Name of the polluted Industrial Area(PIA)-Paradeep
2. Name of the Organization-CHC Paradeep Atharbanki
3. Name and Designation of the contact person-  
Dr. Basant Kumar Rout(Superintendent)  
Contact no-9439992240

		No. of Patients reported for the years					
sl no	Air Borne Diseases	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
1	Asthma	121	175	223	172	141	289
2	Acute respiratory infection	2185	2317	2435	1565	1245	1536
3	Bronchitis	509	628	621	668	728	731
4	Cancer	5	4	5	6	5	4
		Water Borne Disesse					
5	Gastroenterities	4535	4718	4839	4125	4268	5088
6	Diarrhea	3	2	3	3	2	2
7	Renal Diseases	15	12	16	18	23	29
8	Cancer	5	4	5	6	5	4

  
 18/6/24  
**SUPERINTENDENT**  
**C.H.C PARADEEP**  
**JAGATSINGHPUR**

**Annexure IV**

**Data w.r.t. w.r.t. Hon'ble NGT, EZB, Kolkata OA No. 90/2024/EZ-Priyabrata Uttal Nayak Vs State of Odisha and others**

**Daily Truck flow:**

<b>Name of the industry</b>	<b>Average nos. of Transporting Truck handling different materials in Paradeep Industrial Area</b>
<b>Paradeep Port Authority</b>	<b>Coal, iron etc. : 1000-1100 nos./day 30000 MT capacity cargo with cargo vehicles (10MT-40MT)</b>
<b>IFFCO Ltd.</b>	<b>Fertilizer container trucks: 250 nos./day Truck transporting gypsum, coal etc: 150 nos./day Other miscellaneous: 30 nos. /day</b>
<b>PPL Ltd.</b>	<b>Fertilizer: 60 nos./day Gypsum: 32 nos./day Others: 8 nos./day</b>
<b>IOCL</b>	<b>Pet coke: 50 nos./day Sulphur Truck: 30 nos./day Polymer: 100 nos./day MEG Truck: 15 nos./day Other project equipment: 65 nos./day</b>
<b>AMNS India Limited (Pellet Plant)</b>	<b>Bentonite, Lime etc.: 65 nos./day</b>
<b>AMNS India Limited (Power Plant)</b>	<b>Coal: 15 nos./day</b>
<b>Goa Carbon Limited</b>	<b>RPC &amp; CPC: 62 nos./day</b>
<b>Paradeep Calciner Limited</b>	<b>RPC, CPC: 38 nos./month</b>
<b>IOCL Marketing terminal</b>	<b>130 tankers/day</b>
<b>IOCL (LPG) terminal</b>	<b>70 tankers/day</b>
<b>BPCL India Limited (Marketing terminal)</b>	<b>200 tankers/day</b>
<b>HPCL India Limited (Marketing terminal)</b>	<b>150 tankers/day</b>