



# NAKSHATRA ENVIRO SERVICES

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**NABL Accredited (Certificate No. T-2320) & ISO 9001:2015 Certified**

Ref. No.- NES/2016/12/ 23

Date: 09-12-2016

## AMBIENT AIR QUALITY MONITORING REPORT

Issued To : Hindustan Petroleum Corporation Limited,  
Raman Mandi Bahadurgarh Pipe Line SV-6,  
Near Village- Brahamanwas, Tehsil- Rohatak,  
District- Rohatak (Hariyana)

Type of Unit : Petroleum Pipeline

Location : Near D. G. Room

Date of Sampling : 27-11-2016

Duration of Sampling (Hours) : 24 hrs

Ambient Temperature : Max. 29.7°C & Min. 12.0 °C

Avg. Relative Humidity : 48%

Weather Conditions : Clear

Date of Testing : 29-11-2016 to 09-12-2016

### Results:

| S. No. | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|--------|---|----------------|--------------------------|---|
| 1.     | Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>   | 80.7           | IS 5182 (Part 23) :2006  | 100.0   |
| 2.     | Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>  | 51.2           | CPCB Guideline           | 60.0  |
| 3.     | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>       | 11.5           | IS 5182 (Part 2) :2001   | 80.0  |
| 4.     | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>      | 26.1           | IS 5182 (Part 6) :2006   | 80.0  |
| 5.     | Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>               | 7.3            | CPCB Guideline           | 400.0   |
| 6.     | Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>                  | 9.6            | CPCB Guideline           | 100.0   |
| 7.     | Carbon Monoxide (CO), µg/m <sup>3</sup>                     | 490            | IS 5182 (Part 10) : 1999 | 2000  |
| 8.     | Lead (Pb), µg/m <sup>3</sup>                                | 0.23           | IS 5182 (Part 22) : 2004 | 1.0   |
| 9.     | Arsenic (As), ng/m <sup>3</sup>                             | BDL            | CPCB Guideline           | 6.0   |
| 10.    | Nickel (Ni), ng/m <sup>3</sup>                              | BDL            | CPCB Guideline           | 20.0  |
| 11.    | Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup> | 0.84           | IS 5182 (Part 11) : 2006 | 5.0   |
| 12.    | Benzo-alfa-Pyrene (BaP), ng/m <sup>3</sup>                  | BDL            | CPCB Guideline           | 1.0   |

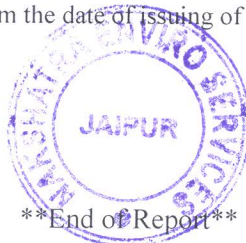
Remarks: B.D.L./N.T. – Below Detection Limit/Not traceable

### Note:

1. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing.
2. Total liability of this laboratory is limited to the invoice amount.
3. The results listed refer only to the above sample and applicable parameters Endorsement of products is neither inferred nor implied.
4. Samples will be destroyed after fifteen days from the date of issuing of analysis report unless otherwise specified.

*Rajeev*

(Rajeev Mathur)  
Technical Manager



\*\*End of Report\*\*

*Jag Mohan Sharma*

(Jag Mohan Sharma)  
Quality Manager



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Date: 09-12-2016

## BENZENE & PAHs MONITORING REPORT

Issued To : Hindustan Petroleum Corporation Limited,  
Raman Mandi Bahadurgarh Pipe Line SV-6,  
Near Village- Brahamanwas, Tehsil- Rohatak,  
District- Rohatak (Haryana)

Type of Unit : Petroleum Pipeline  
Location : Near D. G. Room  
Date of Sampling : 27-11-2016  
Ambient Temperature : Max. 29.7 °C & Min. 12.0 °C  
Avg. Relative Humidity : 40%  
Weather Conditions : Clear  
Date of Testing : 29-11-2016 to 09-12-2016


### Results:

| S. No. | Parameters  | Observed Value | Testing Protocol         | Limits as per National Ambient Air Quality Standard, 2009 |
|--------|---|----------------|--------------------------|---|
| 1.     | Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup> | 0.84           | IS 5182 (Part 11) : 2006 | 5.0   |
| 2.     | Poly Aromatic Hydrocarbons (PAHs), ng/m <sup>3</sup>        | BDL            | IS 5182 (Part 12) : 2004 | -   |

Remarks: B.D.L./N.T. – Below Detection Limit/Not traceable


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(Rajeev Mathur)  
Technical Manager



\*\*End of Report\*\*

  
(Jag Mohan Sharma)  
Quality Manager

