

EMTRC LAB

(EMTRC CONSULTANTS PRIVATE LIMITED)

F-66, Road No.2, Phase-I, UPSIDC Industrial Area
Masuri Gulawathi Road, Ghazibad (UP)-201009
Recognized by Ministry of Environment & Forests, GOI
Vide Notification No S.O.592 (E) 08.03.2013 to 07.03.2018

TEST REPORT

Issued To – M/S Perpetual Infracon Pvt. Ltd.
Address – 3rd Floor, Property No. 202, Block No. 172, Jor Bag
New Delhi - 110001
Name of Project – IT/ITES SEZ Project at Village Budena, Sector-81, Faridabad
Party Code No. --PIPL/41/01
Nature of Sample – Ambient Air Quality Monitoring
Sample Collected by – Scientists of EMTRC

AMBIENT AIR QUALITY TEST RESULTS

| | Parameters | Unit | Locations | | |
|--------------------|-------------------------------------|-------------------|--------------|----------------|-----------------------|
| | | | Project site | Budena village | National Standard |
| Date of Monitoring | | | 13-12-2013 | 13-12-2013 | |
| 1 | PM _{2.5} | µg/m ³ | 47 | 40 | 60 (24-hours average) |
| 2 | PM ₁₀ | µg/m ³ | 79 | 72 | 100(24-hours average) |
| 3 | Sulphur dioxide (SO ₂) | µg/m ³ | 12.6 | 10.4 | 80 (24-hours average) |
| 4 | Nitrogen dioxide (NO ₂) | µg/m ³ | 29.4 | 25.6 | 80 (24-hours average) |

Test Method- Measurement of Ambient Air Pollutants (Vol-I), CPCB, May 2011

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Prepared by
(Chemist)

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Checked by
(Sr.Chemist)

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Authorized Signatory
(Government Analyst)

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TEST REPORT

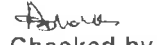
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Name of Project – IT/ITES SEZ Project at Village Budena, Sector-81, Faridabad
Party Code No. --PIPL/41/02
Nature of Sample – Ambient Air Quality Monitoring
Sample Collected by – Scientists of EMTRC

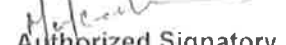
AMBIENT AIR QUALITY TEST RESULTS

| | Parameters | Locations | | | |
|--------------------|-------------------------------------|-------------------|-----------------|----------------|-----------------------|
| | | Unit | Bhatola village | Nigaon village | National Standard |
| Date of Monitoring | | | 14-12-2013 | 14-12-2013 | |
| 1 | PM _{2.5} | µg/m ³ | 43 | 40 | 60 (24-hours average) |
| 2 | PM ₁₀ | µg/m ³ | 74 | 72 | 100(24-hours average) |
| 3 | Sulphur dioxide (SO ₂) | µg/m ³ | 10.6 | 10.2 | 80 (24-hours average) |
| 4 | Nitrogen dioxide (NO ₂) | µg/m ³ | 28.4 | 23.6 | 80 (24-hours average) |

Test Method- Measurement of Ambient Air Pollutants (Vol-I), CPCB, May 2011


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(Chemist)


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 Name of Project – IT/ITES SEZ Project at Village Budena, Sector-81, Faridabad
 Party Code No. --PIPL/41/03
 Nature of Sample – Ground Water
 Date of Monitoring – 14-12-2013
 Sample Collected by – Scientists of EMTRC

WATER QUALITY TEST RESULTS

| | Parameters | Unit | Test Methods | Budhena village | Project site | Permissible limit IS:10500 |
|----|-------------------------------------|-----------|--------------|-----------------|--------------|----------------------------|
| 1 | pH | - | APHA-4500 | 7.42 | 7.64 | 6.5 – 8.5 |
| 2 | Conductivity | µmhos/cm | APHA-2510 | 1240 | 1670 | - |
| 3 | Turbidity | NTU | APHA-2030B | 3 | 3 | 10 |
| 4 | Total Dissolved Solids | mg/l | APHA-2540B | 910 | 1110 | 2000 |
| 5 | Total Hardness as CaCO ₃ | mg/l | APHA-2340C | 270 | 310 | 600 |
| 6 | Calcium as Ca | mg/l | APHA-4500B | 64 | 76 | 200 |
| 7 | Magnesium as Mg | mg/l | APHA-4500B | 26.7 | 29.2 | 100 |
| 8 | Chlorides as Cl | mg/l | APHA-4500B | 172 | 170 | 1000 |
| 9 | Nitrates as NO ₃ | mg/l | APHA-4500 | 10.2 | 11.5 | 100 |
| 10 | Fluoride as F | mg/l | APHA-4500D | 0.68 | 0.76 | 1.5 |
| 11 | Phosphates as PO ₄ | mg/l | APHA-4500C | 0.024 | 0.026 | 0.3 |
| 12 | Iron as Fe | mg/l | APHA-3111B | 0.028 | 0.024 | 1.0 |
| 13 | Copper as Cu | mg/l | APHA-3111B | <0.02 | <0.02 | 1.5 |
| 14 | Lead as Pb | mg/l | APHA-3111B | <0.01 | <0.01 | 0.05 |
| 15 | Manganese as Mn | mg/l | APHA-3111B | <0.05 | <0.05 | 0.3 |
| 16 | Zinc as Zn | mg/l | APHA-3111B | 1.2 | 1.4 | 15 |
| 17 | Chromium | mg/l | APHA-3111B | <0.05 | <0.05 | 0.05 |
| 18 | Nickel as Ni | mg/l | APHA-3111B | <0.01 | <0.01 | 0.05 |
| 19 | Oil & Grease | mg/l | APHA-5520D | Nil | Nil | 0.03 |
| 20 | Cadmium as Cd | mg/l | APHA-3111B | <0.01 | <0.01 | 0.05 |
| 21 | Mercury as Hg | mg/l | APHA-3111B | <0.001 | <0.001 | 0.001 |
| 22 | Arsenic as As | mg/l | APHA-3111B | <0.001 | <0.001 | 0.05 |
| 23 | Selenium as Se | mg/l | APHA-3111B | <0.01 | <0.01 | 0.05 |
| 24 | Cobalt as Co | mg/l | APHA-3111B | <0.01 | <0.01 | 0.05 |
| 25 | Total coliform | MPN/100ml | APHA-9230B | Nil | Nil | Nil |

Nanmeet K...
 Prepared by
 (Chemist)

Ashok
 Checked by
 (Sr. Chemist)

Shubanshu
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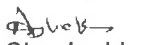
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Party Code No. --PIPL/41/04
Nature of Sample – Noise Quality
Sample Collected by – Scientists of EMTRC

AMBIENT NOISE LEVEL

| Location Name | Date of Monitoring | Day time Leq; dB(A) | Day time Standard Leq; dB(A) | Night time Leq; dB(A) | Night time Standard Leq; dB(A) |
|-----------------|--------------------|---------------------|------------------------------|-----------------------|--------------------------------|
| Project Site | 14-12-2013 | 53.8 | 55 | 43.2 | 45 |
| Budhena Village | 14-12-2013 | 51.4 | 55 | 42.4 | 45 |
| Bhatola Village | 13-12-2013 | 49.8 | 55 | 42.2 | 45 |
| Nigaon Village | 13-12-2013 | 48.6 | 55 | 40.8 | 45 |


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Party Code No. --PIPL/41/05
Nature of Sample – Soil Quality
Date of Monitoring – 14-12-2013
Sample Collected by – Scientists of EMTRC

ANALYSIS RESULTS

| | Parameters | Soil sample Project site |
|----|--|-----------------------------|
| 1 | Bulk Density; g/cm ³ | 1.32 |
| 2 | Color | Brown |
| 3 | Organic matter; % | 0.52 |
| 4 | Water Holding Capacity, % | 32 |
| 5 | pH (20% slurry) | 8.12 |
| 6 | Texture | Sandy loam |
| 7 | Carbonates, % | NT |
| 9 | Bicarbonates, % | 0.06 |
| 10 | Conductivity (20% slurry), $\mu\text{mhos/cm}$ | 210 |
| 11 | Potassium, % | 0.26 |
| 12 | Phosphorus, % | 0.028 |
| 13 | Nitrogen, % | 1.30 |


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