

# 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 – Gallant Infrastructure Private Limited  
Address – M-11, Middle Circle, Connaught Circus  
New Delhi - 110001  
Party Code No. --GIPL/28/01  
Name of Project – 100 Acres SEZ Project Plot 202, Sector-KP-5, Greater Noida  
Nature of Sample – Ambient Air Quality Monitoring  
Sample Collected by – Scientists of EMTRC

### AMBIENT AIR QUALITY TEST RESULTS

	Parameters	Unit	Locations		
			Project Site	Tushiyampur village	National Standard
Date of Monitoring			23-12-2013	23-12-2013	
1	PM <sub>2.5</sub>	µg/m <sup>3</sup>	48	43	60 (24-hours average)
2	PM <sub>10</sub>	µg/m <sup>3</sup>	79	74	100(24-hours average)
3	Sulphur dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	13.2	11.5	80 (24-hours average)
4	Nitrogen dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	32.6	29.2	80 (24-hours average)

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

*Navneet K.*  
Prepared by  
(Chemist)

*Anand*  
Checked by  
(Sr.Chemist)

*H. K. S.*  
Authorized Signatory  
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Address – M-11, Middle Circle, Connaught Circus  
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Party Code No. --GIPL/28/02  
Name of Project – 100 Acres SEZ Project Plot 202, Sector-KP-5, Greater Noida  
Nature of Sample – Ambient Air Quality Monitoring  
Sample Collected by – Scientists of EMTRC

### AMBIENT AIR QUALITY TEST RESULTS

	Parameters	Unit	Locations		
			Kherpur village	Betpur village	National Standard
Date of Monitoring			24-12-2013	24-12-2013	
1	PM <sub>2.5</sub>	µg/m <sup>3</sup>	37	42	60 (24-hours average)
2	PM <sub>10</sub>	µg/m <sup>3</sup>	68	74	100(24-hours average)
3	Sulphur dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.6	11.5	80 (24-hours average)
4	Nitrogen dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.4	31.6	80 (24-hours average)

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

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 Party Code No. --GIPL/28/03  
 Name of Project – 100 Acres SEZ Project Plot 202, Sector-KP-5, Greater Noida  
 Nature of Sample – Ground Water  
 Date of Monitoring – 24-12-2013  
 Sample Collected by – Scientists of EMTRC

### WATER QUALITY TEST RESULTS

	Parameters	Unit	Test Methods	Tushiyampur Village	Kherpur Village	Permissible limit IS:10500
1	pH	-	APHA-4500	7.48	7.63	6.5 – 8.5
2	Conductivity	µmhos/cm	APHA-2510	1060	1270	-
3	Turbidity	NTU	APHA-2030B	2	3	10
4	Total Dissolved Solids	mg/l	APHA-2540B	742	876	2000
5	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA-2340C	280	340	600
6	Calcium as Ca	mg/l	APHA-4500B	64	76	200
7	Magnesium as Mg	mg/l	APHA-4500B	29.2	36.5	100
8	Chlorides as Cl	mg/l	APHA-4500B	38	44	1000
9	Nitrates as NO <sub>3</sub>	mg/l	APHA-4500	9.6	10.6	100
10	Fluoride as F	mg/l	APHA-4500D	0.72	0.74	1.5
11	Phosphates as PO <sub>4</sub>	mg/l	APHA-4500C	0.018	0.024	0.3
12	Iron as Fe	mg/l	APHA-3111B	0.020	0.026	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	1.1	1.3	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	ND	ND	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

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 Checked by  
 (Sr.Chemist)

*Mukesh*  
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 (Government Analyst)

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Party Code No. --GIPL/28/04  
Name of Project - 100 Acres SEZ Project Plot 202, Sector-KP-5, Greater Noida  
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	24-12-2013	52.6	55	43.4	45
Tushiyampur village	24-12-2013	51.4	55	42.2	45
Kherpur village	23-12-2013	49.2	55	41.6	45
Betpur village	23-12-2013	49.6	55	41.8	45

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Party Code No.            --GIPL/28/05  
Name of Project            – 100 Acres SEZ Project Plot 202, Sector-KP-5, Greater Noida  
Nature of Sample         – Soil Quality  
Date of Monitoring        – 24-12-2013  
Sample Collected by     – Scientists of EMTRC

**ANALYSIS RESULTS**

	Parameters	Tushianpur village
1	Bulk Density; g/cm <sup>3</sup>	1.33
2	Color	Light Brown
3	Organic matter; %	0.52
4	Water Holding Capacity, %	32
5	pH (20% slurry)	8.09
6	Texture	Sandy loam
7	Carbonates, %	NT
9	Bicarbonates, %	0.05
10	Conductivity (20% slurry), $\mu$ mhos/cm	250
11	Potassium, %	0.30
12	Phosphorus, %	0.028
13	Nitrogen, %	1.32

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