

## REPORT OF AMBIENT AIR QUALITY MONITORING

REF. NO. : AEC/ONGC MEH./RA-11-12/2011

DATE : 13/12/2011

**I General : ACT – AIR ( Prevention & Control of pollution ) ACT, 1981**

1. Name of the Industry / Source : **ONGC LTD. Mehsana Asset..**
2. Month : **NOVEMBER 2011**
3. Location : **RIG IPS 700 VII WELL # SNJX**
4. Date of Sampling : **19/11/2011**
5. Total Hrs. : **24 hrs.**

**II Results :**

S R . No.	P A R A M E T E R S	G P C B Limits	U n i t	R E S U L T S			A V G .
				LOCATION I	LOCATION II	LOCATION III	
1	PM- 10	100	µg/M <sup>3</sup>	64	78	74	72
2	PM- 2.5	60	µg/M <sup>3</sup>	18	22	17	19
3	Oxide of Sulphur(SO <sub>2</sub> )	80	µg/M <sup>3</sup>	15.7	19.7	17.6	17.6
4	Oxide of Nitrogen (NO <sub>x</sub> )	80	µg/M <sup>3</sup>	26.5	30.5	24.7	27.2
5	Hydrocarbons as CH <sub>4</sub>	160	µg/M <sup>3</sup>	0.56	8.5	3.2	4.0
6	Carbon Mono Oxide	2000	µg/M <sup>3</sup>	1395	1750	1610	1585
7	Hydrogen Sulphide	0.36*	PPM	BDL	0.33	0.31	0.21

\*Limits of H<sub>2</sub>S is not indicated in the consents as given to ONGC but as per GPCB Norms it should be less than 500 µg/NM<sup>3</sup> (i.e. 0.36 ppm at NTP). # BDL-Below Detectable Limit.(L. C. of the Instrument – 0.05 ppm).

**III REMARKS:-**

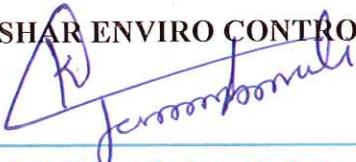
- Location – I (10:00 AM TO 18:00 PM) : **Near Rest House**  
 Location – II (18:00 PM TO 02:00 AM) : **Near Rig Floor**  
 Location – III (02:00 AM TO 10:00 AM) : **Near D.G. Set House Boundary**

**Note: Ambient Air Quality Monitoring done by High Volume Sampler No. Prima/AEC/004.**

**METEOROLOGICAL DATA**

Ambient Temperature Maximum ( °C ) : 35.4  
 Ambient Temperature Minimum ( °C ) : 18.5  
 Humidity ( % ) : 70  
 Average Wind Speed ( km / hr. ) : 05  
 Wind Direction : NORTH-WEST

For AKSHAR ENVIRO CONTROL






## REPORT OF STACK GAS EMISSION MONITORING

REF. NO. : AEC/ONGC MEH./RS-11-12/2011

DATE: 13/12/2011

### I General : ACT – AIR (Prevention & Control of pollution) ACT, 1981

1. Name of the Industry / Source : ONGC LTD. Mehsana Asset..
2. Month : NOVEMBER 2011
3. Location : RIG IPS 700 VII WELL#SNJX
4. Date of Sampling : 19/11/2011

### II Results :

SR No	P A R A M E T E R S	GPCB Limits	U n i t	R e s u l t s					
				LOCATION I	LOCATION II	LOCATION III	LOCATION IV	LOCATION V	LOCATION VI
1.	Suspended Particulate Matter (SPM)	150	Mg/NM <sup>3</sup>	118	130	125	136	121	124
2.	Oxide of Sulphur(SO <sub>2</sub> )	100	PPM	31.5	23.7	38.6	36.5	30.5	26.7
3.	Oxide of Nitrogen (NO <sub>x</sub> )	50	PPM	15.8	16.3	17.2	15.7	16.1	17.0
4.	Hydrocarbons as CH <sub>4</sub>	15	Mg/NM <sup>3</sup>	5.8	7.2	8.1	9.6	7.9	8.0
5.	Carbon Mono Oxide	150	Mg/NM <sup>3</sup>	0.68	0.80	0.95	0.86	0.79	0.83
6.	Hydrogen Sulphide	45	Mg/NM <sup>3</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

### III Remarks:-

- Location – I : Rig Carrier Eng. 1 KTA.1150 25242268  
Location – II : Rig Carrier Eng. 2 KTA.90 C 25355614  
Location – III : Mud Pump Eng. 1 KTA. 50 P 25356704  
Location – IV : Mud Pump Eng. 2 KTA. 50 P 25340640  
Location – V : D.G. Set No. 1 KTA 19 G9 25362423  
Location – VI : Air Compressor 6BTA59 C 67276245

Note: All parameters are well within the GPCB prescribed limits.

For AKSHAR ENVIRO CONTROL





## REPORT OF AMBIENT AIR QUALITY MONITORING

REF. NO. : AEC/ONGC MEH./RA-11-18/2011

DATE : 13/12/2011

### I General : ACT – AIR ( Prevention & Control of pollution ) ACT, 1981

1. Name of the Industry / Source : ONGC LTD. Mehsana Asset..
2. Month : NOVEMBER 2011
3. Location : RIG – E – 760 – XI NKPQ
4. Date of Sampling : 21/11/2011
5. Total Hrs. : 24 hrs.

### II Results :

S R . No.	P A R A M E T E R S	G P C B Limits	U n i t	R E S U L T S			
				LOCATION I	LOCATION II	LOCATION III	AVG.
1	PM- 10	100	$\mu\text{g}/\text{M}^3$	76	54	61	64
2	PM- 2.5	60	$\mu\text{g}/\text{M}^3$	21	15	20	19
3	Oxide of Sulphur(SO <sub>2</sub> )	80	$\mu\text{g}/\text{M}^3$	16.8	15.3	17.1	16.4
4	Oxide of Nitrogen (NO <sub>x</sub> )	80	$\mu\text{g}/\text{M}^3$	29.5	26.4	25.0	26.9
5	Hydrocarbons as CH <sub>4</sub>	160	$\mu\text{g}/\text{M}^3$	4.5	3.1	6.3	4.6
6	Carbon Mono Oxide	2000	$\mu\text{g}/\text{M}^3$	1780	1560	1610	1650
7	Hydrogen Sulphide	0.36*	PPM	BDL	BDL	BDL	BDL

\*Limits of H<sub>2</sub>S is not indicated in the consents as given to ONGC but as per GPCB Norms it should be less than 500  $\mu\text{g}/\text{NM}^3$  (i.e. 0.36 ppm at NTP). # BDL-Below Detectable Limit. (L. C. of the Instrument – 0.05 ppm).

### III REMARKS:-

- Location – I (10:00 AM TO 18:00 PM) : Near Rig Floor area  
Location – II (18:00 PM TO 02:00 AM) : Near Rest House  
Location – III (02:00 AM TO 10:00 AM) : Near D. G. Set House

Note: Ambient Air Quality Monitoring done by High Volume Sampler No. Prima/AEC/002.

#### METEOROLOGICAL DATA

Ambient Temperature Maximum ( °C )	: 35.5
Ambient Temperature Minimum ( °C )	: 18.2
Humidity ( % )	: 75
Average Wind Speed ( km / hr. )	: 04
Wind Direction	: NORTH-EAST

For AKSHAR ENVIRO CONTROL





## REPORT OF STACK GAS EMISSION MONITORING

REF. NO. : AEC/ONGC MEH./RS-11-18/2011

DATE: 13/12/2011

**I General : ACT – AIR (Prevention & Control of pollution) ACT, 1981**

1. Name of the Industry / Source : ONGC LTD. Mehsana Asset..
2. Month : NOVEMBER 2011
3. Location : RIG – E – 760 XI NKPQ
4. Date of Sampling : 21/11/2011

### **II Results :**

SR. No.	P A R A M E T E R S	GPCB Limits	U n i t	R e s u l t s			
				LOCATION I	LOCATION II	LOCATION III	LOCATION IV
1.	Suspended Particulate Matter (SPM)	150	Mg/NM <sup>3</sup>	118	120	115	108
2.	Oxide of Sulphur(SO <sub>2</sub> )	100	PPM	24.4	25.8	21.4	27.0
3.	Oxide of Nitrogen (NO <sub>x</sub> )	50	PPM	19.3	16.7	18.4	16.2
4.	Hydrocarbons as CH <sub>4</sub>	15	Mg/NM <sup>3</sup>	8.3	6.8	7.5	7.2
5.	Carbon Mono Oxide	150	Mg/NM <sup>3</sup>	0.72	0.65	0.81	0.55
6.	Hydrogen Sulphide	45	Mg/NM <sup>3</sup>	N.A.	N.A.	N.A.	N.A.

### **III Remarks:-**

- Location – I : D.G. Set No. 1 KTA 50 G 25315419  
Location – II : D.G. Set No. 2 KTA 50 G 25340785  
Location – III : D.G. Set No. 3 KTA 50 G 25332402  
Location – IV : Mobile Screw Compressor Cummins 495 C 2522059

Note: All parameters are well within the GPCB prescribed limits.

For AKSHAR ENVIRO CONTROL



## REPORT OF AMBIENT AIR QUALITY MONITORING

REF. NO. : AEC/ONGC MEH./RA-11-04/2011

DATE : 13/12/2011

### I General : ACT – AIR ( Prevention & Control of pollution ) ACT, 1981

1. Name of the Industry / Source : ONGC LTD. Mehsana Asset..
2. Month : NOVEMBER 2011
3. Location : RIG M 750 – II BLOL
4. Date of Sampling : 17/11/2011
5. Total Hrs. : 24 hrs.

### II Results :

S R . No.	P A R A M E T E R S	G P C B Limits	U n i t	R E S U L T S			
				LOCATION I	LOCATION II	LOCATION III	AVG.
1	PM- 10	100	µg/M <sup>3</sup>	80	62	70	71
2	PM- 2.5	60	µg/M <sup>3</sup>	24	19	21	21
3	Oxide of Sulphur(SO <sub>2</sub> )	80	µg/M <sup>3</sup>	23.7	17.9	19.5	20.3
4	Oxide of Nitrogen (NO <sub>x</sub> )	80	µg/M <sup>3</sup>	35.8	26.4	27.9	30.0
5	Hydrocarbons as CH <sub>4</sub>	160	µg/M <sup>3</sup>	9.5	4.7	8.0	7.4
6	Carbon Mono Oxide	2000	µg/M <sup>3</sup>	1720	1978	1865	1854
7	Hydrogen Sulphide	0.36*	PPM	0.16	0.12	0.15	0.14

\*Limits of H<sub>2</sub>S is not indicated in the consents as given to ONGC but as per GPCB Norms it should be less than 500 µg/NM<sup>3</sup> (i.e. 0.36 ppm at NTP). # BDL-Below Detectable Limit.(L. C. of the Instrument – 0.05 ppm).

### III REMARKS:-

- Location – I (10:00 AM TO 18:00 PM) : Near Rig Floor  
 Location – II (18:00 PM TO 02:00 AM) : Near Rest House  
 Location – III (02:00 AM TO 10:00 AM) : Near D.G. House Boundary

Note: Ambient Air Quality Monitoring done by High Volume Sampler No. Prima/AEC/004.

### METEOROLOGICAL DATA

- Ambient Temperature Maximum ( °C ) : 34.3  
 Ambient Temperature Minimum ( °C ) : 18.5  
 Humidity ( % ) : 80  
 Average Wind Speed ( km / hr. ) : 08  
 Wind Direction : NORTH-WEST

For AKSHAR ENVIRO CONTROL




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## REPORT OF STACK GAS EMISSION MONITORING

REF. NO. : AEC/ONGC MEH./RS-11-4/2011

DATE: 13/12/2011

**I General : ACT – AIR (Prevention & Control of pollution) ACT, 1981**

1. Name of the Industry / Source : **ONGC LTD. Mehsana Asset..**
2. Month : **NOVEMBER 2011**
3. Location : **RIG – M 750 – II BLOL**
4. Date of Sampling : **17/11/2011**

### II Results :

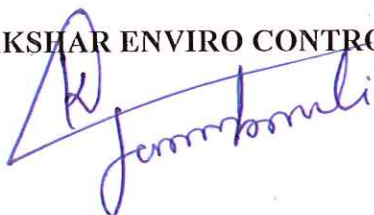
SR. No	P A R A M E T E R S	GPCB Limits	U n i t	R e s u l t s					
				LOCATION I	LOCATION II	LOCATION III	LOCATION IV	LOCATION V	LOCATION VI
1.	Suspended Particulate Matter (SPM)	150	Mg/NM <sup>3</sup>	125	137	120	130	118	112
2.	Oxide of Sulphur(SO <sub>2</sub> )	100	PPM	30.7	26.8	40.5	38.9	28.5	20.9
3.	Oxide of Nitrogen (NO <sub>x</sub> )	50	PPM	16.7	14.6	15.3	16.8	15.3	16.9
4.	Hydrocarbons as CH <sub>4</sub>	15	Mg/NM <sup>3</sup>	4.7	3.9	5.6	5.3	3.8	4.5
5.	Carbon Mono Oxide	150	Mg/NM <sup>3</sup>	0.80	0.86	0.90	0.82	0.71	0.70
6.	Hydrogen Sulphide	45	Mg/NM <sup>3</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

### III Remarks:-

- Location – I : **Rig Carrier Eng. 1 NTA.855C 25339296**  
 Location – II : **Rig Carrier Eng. 2 NTA.855C 25309971**  
 Location – III : **Mud Pump Eng. 1 KTA. 50 P 25356785**  
 Location – IV : **Mud Pump Eng. 2 KTA. 50 P 25356703**  
 Location – V : **D.G. Set No. 1 NTA 14 G3 25316827**  
 Location – VI : **Welding Gen. Set S-433 WP/10/040 (Portable)**

**Note: All parameters are well within the GPCB prescribed limits.**

For AKSHAR ENVIRO CONTROL




ONGC REPORT