



Joshi Technologies International, Inc. - India Projects

By speed post

JTI/EC-2013 Compliance/2015-16/

25th July 2015

To,
✓ The Director,
Ministry of Environment & Forest,
Regional Office-Western Region,
Kendriya Paryavaran Bhavan,
Link Road no.: 03,
Ravishankar Nagar,
Bhopal- 462016
Madhya Pradesh.

Sub: EC compliance report.

Ref: EC no: J-11011/581/2011-IA II (I) Dated: 27/5/2013

Respected Sir,

With reference to the Environmental Clearance(EC) granted by MoEF, New Delhi vide above mentioned letter; compliance report in respect of **Drilling of Nine Wells** along with the monitoring data is being sent herewith for your kind information and records. The same will be uploaded on JTI website (www.jtiindiaprojects.com).

Thanking you,

Yours Faithfully,

Palak Kharadi
Environment Engineer
Joshi Technologies International Inc.
E mail: palak@jtiindia.net
palak.kharadi@gmail.com

Copy to: 1. Shri B.R.Naidu
Scientist "E" & Incharge
Parivesh Bhawan
Opp. VMC Ward Office No. 10, Subhanpura
Vadodara-390 023

25/7/15
Gujarat Pollution Control Board
Sector - No. 10-A,
Gandhinagar-380010



Copy also to: 1. The Chairman,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector -10A,
Gandhinagar.

2. The Regional Officer,
GPCB-Nadiad
201-203,"B" Block,
Sardar Patel Bhavan,
Nadiad.

3. Shree P.K.Kulkarni,
M.D; JTI, Ahmedabad

COMPLIANCE REPORT FOR ENVIRONMENT CLEARANCE

(For the period May 2014 to June 2015)

EC No: J-11011/581/2011-IA II(I) Dated: 27/5/2013

EC conditions	Result
A. Specific Conditions	
I. Compliance to all the specific conditions mentioned in the existing EC letter no J-11011/920/2007-IA.II(I) dated 15.7.2007 shall be ensured. As proposed the company shall upload the copy of the EC, compliance report on their website.	Project was completed as per EC granted during the year 2007-08. All the conditions were fulfilled and copy of the EC, compliance report is uploaded on our website www.jtiindiaprojects.com
II. Gas produced during testing shall be flared with appropriate flaring booms. The system shall be designed as per good oil field practices and OISD guidelines. The stack height shall be provided as per the regulatory requirements and emission from the stacks will meet the MoEF/CPCB guidelines.	All the 9 wells drilled under EC, dated 27/5/2013 are connected to GGS through flow line. The wells are tested at GGS only. Therefore, there was no flaring at the well site.
III. Ambient air quality shall be maintained at nearest human settlements as per national ambient Air Quality Standards issued by the Ministry vide G.S.R. No 826(E) dated 16 th November, 2009 for PM 2.5, SO ₂ , NO _x , CO, CH ₄ , Non-methane HC etc.	Ambient air quality was maintained during drilling campaign at nearest human settlements as per national ambient Air Quality Standards issued by the Ministry vide G.S.R. No 826(E) dated 16 th November, 2009 for PM 2.5, SO ₂ , NO _x , CO, CH ₄ , Non-methane HC etc. and air monitoring was carried out by M/s Kadam Environment consultants, Vadodara.
IV. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.	Complied.
V. Approach road shall be made pucca to minimize generation of suspended dust.	Complied.

VI. The company shall make the arrangement for control of noise from drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	Complied.
VII. Total water requirement from ground water source shall not exceed 20m ³ /day/well and prior permission should be obtained from Competent Authority.	The water requirement was within limits.
VIII. The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and w/w shall conform to CPCB standards.	Complied.
IX. Drilling w/w including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste. Otherwise, secured landfill shall be created at the site as per design approved by the CPCB and obtain authorization from the SPCB. Copy of authorization or membership of TSDF shall be submitted to Ministry's Regional Office at Bhopal.	Complied. Copy of membership of TSDF is attached.
X. No effluent/ drilling mud/ drill cuttings shall be discharged/disposed off into nearby surface water bodies.	Waste water including drilling mud was collected in disposal pit lined with HDPE lining for evaporation to atmosphere.
XI. Produced water shall be treated in ETP. Treated produced water shall be disposed off through injection well as per CPCB/MoEF guidelines.	Point noted.
XII. Good sanitation facility shall be provided	Complied.

at drilling site. Domestic sewage shall be disposed septic tank/sock pit.	
XIII.Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste and spent oil shall be disposed of to the authorized recycler.	Complied.
XIV.The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005.	Complied.
XV.The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed, possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	All necessary measures were taken during drilling period to prevent fire hazards. No ground flaring was done.
XVI.The company shall develop a contingency plan for H ₂ S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in location of high risk of exposure along with self containing breathing apparatus.	Since the discovery of Dholka field in 1960s H ₂ S has not been observed in any well. Though Gas detector was available at drilling site, H ₂ S not detected in any of the nine wells.
XVII.The company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to the Ministry and Regional office at Bhopal.	Point noted.
XVIII.BOP system shall be installed to prevent well blowouts during drilling operation. BOP measures during drilling shall focus on maintaining well hydrostatic pressure by proper pre-well planning and drill fluid logging etc.	To prevent blow out during drilling operations, a suitable Blow Out Preventer (BOP) system was used. Geo Technical Order (GTO) for drilling of each well was kept ready before drilling operation. Proper specific gravity of drilling fluid was

	maintained during drilling. It was monitored by the Mud Engineering Services and JTI company man.
XIX. Emergency response plan shall be based on guidelines prepared by OISD, DGMS and Govt. of India	Complied.
XX. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	After completion of drilling, all the 9 wells have been proved to be oil producers. There was no dry well as such plugging of the well and abandonment plan as per applicable Indian Petroleum Regulations was not required to be implemented.
XXI. All the commitments made to the public during public hearing/ public consultation meeting held on 30 th October, 2012 for Kheda dist and 2 nd Nov, 2013 for Ahmedabad district shall be satisfactory implemented and adequate budget provision shall be made accordingly.	Complied.
XXII. At least 5% of total cost of project shall be earmarked towards the Enterprise Social Commitment based on public hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office at Bhopal.	Point noted.
XXIII. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Complied.
XXIV. In case of commercial viability of the project (for exploratory drilling) is established, the company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from Ministry.	Not applicable. The wells drilled are in-fill development wells.
XXV. Restoration of the project site shall be	Point noted.

carried out satisfactorily and report shall be sent to the Ministry Regional Office at Bhopal.	
XXVI. Oil contained drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry Regional Office at Bhopal.	Complied.
XXVII. An audit shall be done to ensure that the Environment Management Plan is implemented in totality and report shall be sent to the Ministry Regional Office at Bhopal.	Point noted.
XXVIII. Company shall have own Environment Management cell having qualified persons with proper background.	Agreed.
XXIX. Company shall prepare manual in respect of all activities. It shall cover all safety & environment related issues and system. Measures to be taken for protection. One set of environment manual shall be available at the drilling site. Awareness shall be created at each level of management. All the schedules and results of environmental monitoring shall be available at the site office. Remote monitoring of site should be done.	Point noted.
XXX. On completion of drilling, the company has to plug the drilled wells safety and obtain certificate from environment safety angle from the concerned authority.	All wells are producers. Plugging of the well is not required.
B. General Conditions	
I. The project authorities must strictly adhere to the stipulations made by GPCB.	Noted.
II. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alteration in project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to Ministry to assess the	Noted.

adequacy of conditions imposed and to add additional protection measures required, if any.	
III. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and import of Hazardous chemicals Rules, 1989 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspector etc. must be obtained, wherever applicable.	Noted.
IV. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 1989 75 dBA (daytime) and 70 dBA (nighttime).	<p>The overall noise levels in and around the plant area were kept well within the standards with the usage of acoustic enclosures. The ambient noise levels confirmed to the standards prescribed under EPA Rules, 1989 viz. 1989 75 dBA (daytime) and 70 dBA (nighttime).</p> <p>This was monitored by Ms/.Kadam Environmental Consultants during drilling operations.</p>
V. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up carry out the environmental management and monitoring functions.	To carry out Environment Management and monitoring functions, JTI availed the services of M/s. Kadam Environmental Consultants – Vadodara .
VI. A copy of clearance shall be sent by the proponent to concerned Panchayat, ZilaParishad/ Municipal Corporation, Urban Local body and local NGO, if any. From whom suggestions/ representations, if any, were received while processing the proposal. The letter shall also be put on the website of the company by the proponent.	Complied.
VII. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to regional office of MoEF, the	<p>Complied.</p> <p>(Website: www.jtiindiaprojects.com)</p>

<p>respective zonal office of GPCB. The criteria pollutant levels namely; PM10, SO2, NOx, HC, VOCs or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	
<p>VIII. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data to the Regional office of MoEF, the respective Zonal office of CPCB and GPCB. The Regional office of this Ministry/ CPCB/ GPCB shall stipulated conditions. EC and six monthly compliance status reports shall be posted on the website of the company.</p>	<p>Point noted.</p>
<p>IX. The environmental statement for each financial year ending 31st March in form V as is mandated to be submitted to SPCB as prescribed under EP Act-1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MoEF by email.</p>	<p>Point noted.</p>
<p>X. The project proponent shall inform the public that the project has been accord environmental clearance by the Ministry and copies of clearance letter are available with the GPCB and may also be seen at website of the Ministry of Environment and forest at http://envfor.nic.in This shall be advertised within 7 days from the date of issue of the clearance letter., at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and of the same shall be forwarded to the Regional office.</p>	<p>Complied.</p>

<p>XI. Project authorities shall inform the regional office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<p>Point noted.</p>
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KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/03

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701, Parshwanath E Square Pralhad Nagar, Corporate Road, Satellite. Ahmedabad - 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246- 060FB15AQ01	3.	Client Representative: Mr. Palak Kharadi	
4.	Sampling Date: 19.02.2015	5.	Sampling Location: Nr. Drilling Site (N-090)	
6.	Sampling time: 12:40 hr	7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 20.02.2015	9.	Analysis Completed on : 02.03.2015	
10.	Reporting Date: 04.03.2015	11.	Sample Collected By: Mr.Vipul Dabhi	
12.	Test Requirement: Ambient Air Quality Monitoring	13.	Sampling Procedure: IS Method	
14.	Description of Sample:	Sampling Bottles: Sealed <input checked="" type="checkbox"/>	Filter Paper: Packed <input checked="" type="checkbox"/>	Bladder: Clamped <input checked="" type="checkbox"/>
15.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Low
	Rain: No Rain	Wind Direction: Corearea	Wind blowing from: North	Cloud cover: Clear
				Station category: Industrial

TEST RESULT

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	PM ₁₀	µg /m ³	: 43	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 19	60	Guideline by SPCB
3.	Ammonia	µg /m ³	: 1.80	400	Modified APHA Method
4.	Sulphur Dioxide (SO ₂)	µg /m ³	: 9.13	80	IS 5182 (Part 2) :2001
5.	Oxides of Nitrogen (NO _x)	µg /m ³	: 7.49	80	IS 5182 (Part 6) :2006
6.	Carbon Monoxide (CO)	mg /m ³	: 1.13	2	Gas Chromatography
7.	Arsenic	ng /m ³	: <1.4	06	AAS method
8.	Nickel	ng /m ³	: <10	20	AAS method
9.	Lead	µg /m ³	: <0.5	1	AAS method
10.	Ozone (O ₃)	µg /m ³	: <3	100	Guidelines By CPCB(Vol-1)
11.	Benzene (C ₆ H ₆)	µg /m ³	: <0.5	5	AOAC: 18 th Edition
12.	Benzo (a) Pyrene (Bap)	ng /m ³	: <0.1	1	AOAC: 18 th Edition

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/099/03

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701, Parshwanath E Square Pralhad Nagar, Corporate Road, Satellite. Ahmedabad - 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246- 099MY15AQ01	3.	Client Representative: Miss. Palak Kharadi	
4.	Sampling Date: 29.05.2015	5.	Sampling Location: Nr. Drilling Site N-283 (DK #42)	
6.	Sampling time: 10:00 hr	7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 30.05.2015	9.	Analysis Completed on : 02.06.2015	
10.	Reporting Date: 03.06.2015	11.	Sample Collected By: Mr. Sinha	
12.	Test Requirement: Ambient Air Quality Monitoring	13.	Sampling Procedure: IS Method	
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓
15.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Low
	Rain: No Rain	Wind Direction: Corearea	Wind blowing from: North	Cloud cover: Clear
				Station category: Industrial

TEST RESULT

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	PM ₁₀	µg /m ³	: 59	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 27	60	Guideline by SPCB
3.	Ammonia	µg /m ³	: 1.62	400	Modified APHA Method
4.	Sulphur Dioxide (SO ₂)	µg /m ³	: 7.61	80	IS 5182 (Part 2) : 2001
5.	Oxides of Nitrogen (NO _x)	µg /m ³	: 7.12	80	IS 5182 (Part 6) : 2006
6.	Carbon Monoxide (CO)	mg /m ³	: 1.15	2	Gas Chromatography
7.	Arsenic	ng /m ³	: <1.4	06	AAS method
8.	Nickel	ng /m ³	: <10	20	AAS method
9.	Lead	µg /m ³	: <0.5	1	AAS method
10.	Ozone (O ₃)	µg /m ³	: <3	100	Guidelines By CPCB(Vol-1)
11.	Benzene (C ₆ H ₆)	µg /m ³	: <2.5	5	Gas Chromatography
12.	Benzo (a) Pyrene (Bap)	ng /m ³	: <0.5	1	Gas Chromatography

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/03

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701, Parshwanath E Square Pralhad Nagar, Corporate Road, Satellite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246- 050AP15AQ01	3.	Client Representative: Miss. Palak Kharadi
4.	Sampling Date: 04.04.2015	5.	Sampling Location: Nr. Drilling Site (N-118)
6.	Sampling time: 12:00 hr	7.	Sampling Duration: 24 Hrs
8.	Analysis commenced on: 10.04.2015	9.	Analysis Completed on : 14.04.2015
10.	Reporting Date: 22.04.2015	11.	Sample Collected By: Mr.Sinha
12.	Test Requirement: Ambient Air Quality Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓ Bladder: Clamped ✓
15.	Environment Condition:	Temp: Normal Humidity: Medium	Wind speed: Low Cloud cover: Clear
	Rain: No Rain	Wind Direction: Corearea	Wind blowing from: North Station category: Industrial

TEST RESULT

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	PM ₁₀	µg /m ³	: 49	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 20	60	Guideline by SPCB
3.	Ammonia	µg /m ³	: 2.42	400	Modified APHA Method
4.	Sulphur Dioxide (SO ₂)	µg /m ³	: 8.37	80	IS 5182 (Part 2) :2001
5.	Oxides of Nitrogen (NO _x)	µg /m ³	: 7.74	80	IS 5182 (Part 6) :2006
6.	Carbon Monoxide (CO)	mg /m ³	: 1.17	2	Gas Chromatography
7.	Arsenic	ng /m ³	: <1.4	06	AAS method
8.	Nickel	ng /m ³	: <10	20	AAS method
9.	Lead	µg /m ³	: <0.5	1	AAS method
10.	Ozone (O ₃)	µg /m ³	: <3	100	Guidelines By CPCB(Vol-1)
11.	Benzene (C ₆ H ₆)	µg /m ³	: <0.5	5	AOAC: 18 th Edition
12.	Benzo (a) Pyrene (Bap)	ng /m ³	: <0.1	1	AOAC: 18 th Edition

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/03

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701, Parshwanath E Square Pralhad Nagar, Corporate Road, Satellite. Ahmedabad - 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246- 015MY15AQ01	3.	Client Representative: Miss. Palak Kharadi	
4.	Sampling Date: 04.05.2015	5.	Sampling Location: Nr.Drilling Site (N-181) (DK # 41)	
6.	Sampling time: 14:10 hr	7.	Sampling Duration: 24 Hrs	
8.	Analysis commenced on: 11.05.2015	9.	Analysis Completed on : 15.05.2015	
10.	Reporting Date: 19.05.2015	11.	Sample Collected By: Mr.Vipul Dabhi	
12.	Test Requirement: Ambient Air Quality Monitoring	13.	Sampling Procedure: IS Method	
14.	Description of Sample:	Sampling Bottles: Sealed <input checked="" type="checkbox"/>	Filter Paper: Packed <input checked="" type="checkbox"/>	Bladder: Clamped <input checked="" type="checkbox"/>
15.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Low
	Rain: No Rain	Wind Direction: Corearea	Wind blowing from: North	Cloud cover: Clear
			Station category: Industrial	

TEST RESULT

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	PM ₁₀	µg /m ³	: 52	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 23	60	Guideline by SPCB
3.	Ammonia	µg /m ³	: 2.69	400	Modified APHA Method
4.	Sulphur Dioxide (SO ₂)	µg /m ³	: 8.46	80	IS 5182 (Part 2) :2001
5.	Oxides of Nitrogen (NO _x)	µg /m ³	: 7.45	80	IS 5182 (Part 6) :2006
6.	Carbon Monoxide (CO)	mg /m ³	: 1.20	2	Gas Chromatography
7.	Arsenic	ng /m ³	: <1.4	06	AAS method
8.	Nickel	ng /m ³	: <10	20	AAS method
9.	Lead	µg /m ³	: <0.5	1	AAS method
10.	Ozone (O ₃)	µg /m ³	: <3	100	Guidelines By CPCB(Vol-1)
11.	Benzene (C ₆ H ₆)	µg /m ³	: <0.5	5	AOAC: 18 th Edition
12.	Benzo (a) Pyrene (Bap)	ng /m ³	: <0.1	1	AOAC: 18 th Edition

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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-----END OF REPORT-----

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/05


SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)				
2.	Sample ID: 1520618246 -060FB14EF02	3.	Client Representative: Ms. Palak Kharadi		
4.	Sample Date: 19.02.2015	5.	Sample Collected By: Mr. Vipul Dabhi		
6.	Analysis commenced on: 20.02.2015	7.	Analysis Completed on: 02.03.2015		
8.	Reporting Date: 05.03.2015	9.	Test Requirement: Effluent Analysis		
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab		
12.	Sampling Location : Drill Cutting (N-090)	13.	ETP / STP Status: Working		

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By - 

Name : Sapana Amin

Designation: Laboratory Incharge

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-----END OF REPORT-----

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/05

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -050AP15EF02	3.	Client Representative:Miss. Palak Kharadi
4.	Sample Date: 04.04.2015	5.	Sample Collected By: Mr. Sinha
6.	Analysis commenced on: 10.04.2015	7.	Analysis Completed on: 14.04.2015
8.	Reporting Date: 22.04.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Drill Cutting (N-118)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By -

Name : Sapana Amin

Designation: Laboratory Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/05

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)				
2.	Sample ID: 1520618246 -015MY15EF02	3.	Client Representative:Miss. Palak Kharadi		
4.	Sample Date: 04.05.2015	5.	Sample Collected By: Mr. Vipul Dabhi		
6.	Analysis commenced on: 11.05.2015	7.	Analysis Completed on: 15.05.2015		
8.	Reporting Date: 19.05.2015	9.	Test Requirement: Effluent Analysis		
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab		
12.	Sampling Location : Drill Cutting (N-181) (DK#41)	13.	ETP / STP Status: Working		

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By -

Name : Sapana Amin

Designation: Laboratory Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/099/05

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -099MY15EF02	3.	Client Representative:Miss. Palak Kharadi
4.	Sample Date: 29.05.2015	5.	Sample Collected By: Mr. Sinha
6.	Analysis commenced on: 30.05.2015	7.	Analysis Completed on: 02.06.2015
8.	Reporting Date: 03.06.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Drill Cutting N-283 (DK #42)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

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-----END OF REPORT-----



DETOX GROUP

Saurashtra Enviro Projects Pvt. Ltd.

Integrated Common Hazardous Waste Management Facility

Certificate

Certificate No : 1200001901

To Whomsoever it may concern

This is to certify that

JOSHI TECHNOLOGIES INTERNATIONAL INC. INDIA PROJECTS

JTI GGS DHOLKA, VILL: RASIKPURA
DHOLKA - KHEDA HIGHWAY, PO: RADHU
KHEDA

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for Integrated Common Hazardous Waste Management Facility.

This membership is valid for a period of

5 Years

Date of issue : 08.05.2015

Date of expiration : 07.05.2020

Place of issue : Surat

For, Saurashtra Enviro Projects Pvt. Ltd.

Director

SUBJECT TO SURAT JURISDICTION

Corporate Address: K. G. Chambers, Udhana Darwaja, Ring Road, Surat – 395 002
p. +91 261 2351248, 2346181 f. +91 261 2354068
e. info@sepplindia.com w. www.detoxgroup.in
CIN :- U51100GJ2006PTC047689

KADAM ENVIRONMENTAL CONSULTANTS

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/04

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -060FB14EF01	3.	Client Representative: Ms. Palak Kharadi
4.	Sample Date: 19.02.2015	5.	Sample Collected By: Mr. Vipul Dabhi
6.	Analysis commenced on: 20.02.2015	7.	Analysis Completed on: 02.03.2015
8.	Reporting Date: 05.03.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Waste Water Pit Sample (N-090)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	pH		:	13.25	N.A.	APHA: (4500-H ⁺ B) 22 nd Edition
2.	Total Dissolved Solids	mg/L	:	19114	N.A.	APHA: (2540 C) 22 nd Edition
3.	Suspended Solids	mg/L	:	7237	N.A.	APHA: (2540 D) 22 nd Edition
4.	COD	mg/L	:	6240	N.A.	APHA: (5220 B) 22 nd Edition
5.	BOD (3 days at 27 °C)	mg/L	:	1800	N.A.	APHA: (5210 B) 22 nd Edition
6.	Oil & Grease	mg/L	:	<5	N.A.	APHA: (5520 B) 22 nd Edition
7.	Mercury	mg/L	:	<0.001	N.A.	APHA : (3500 Hg) 22 nd Edition
8.	Elec. Conductivity	µmhos/cm	:	29084	N.A.	IS 14767:2000 Conductivity

Remark :

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/04

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -050AP15EF01	3.	Client Representative:Miss. Palak Kharadi
4.	Sample Date: 04.04.2015	5.	Sample Collected By: Mr. Sinha
6.	Analysis commenced on: 10.04.2015	7.	Analysis Completed on: 14.04.2015
8.	Reporting Date: 22.04.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Waste Water Pit Sample (N-118)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	pH		:	12.89	N.A.	APHA: (4500-H ⁺ B)22 nd Edition
2.	Total Dissolved Solids	mg/L	:	19074	N.A.	APHA: (2540 C) 22 nd Edition
3.	Suspended Solids	mg/L	:	7247	N.A.	APHA: (2540 D) 22 nd Edition
4.	COD	mg/L	:	6080	N.A.	APHA: (5220 B) 22 nd Edition
5.	BOD (3 days at 27 °C)	mg/L	:	1725	N.A.	APHA: (5210 B) 22 nd Edition
6.	Oil & Grease	mg/L	:	<5	N.A.	APHA: (5520 B) 22 nd Edition
7.	Mercury	mg/L	:	<0.001	N.A.	APHA : (3500 Hg) 22 nd Edition
8.	Elec. Conductivity	µmhos/cm	:	29049	N.A.	IS 14767:2000 Conductivity

Remark :

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/04

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -015MY15EF01	3.	Client Representative:Miss. Palak Kharadi
4.	Sample Date: 04.05.2015	5.	Sample Collected By: Mr. Vipul Dabhi
6.	Analysis commenced on: 11.05.2015	7.	Analysis Completed on: 15.05.2015
8.	Reporting Date: 19.05.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Waste Water Pit Sample (N-181) (DK#41)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	pH		:	13.08	N.A.	APHA: (4500-H ⁺ B)22 nd Edition
2.	Total Dissolved Solids	mg/L	:	19088	N.A.	APHA: (2540 C) 22 nd Edition
3.	Suspended Solids	mg/L	:	7094	N.A.	APHA: (2540 D) 22 nd Edition
4.	COD	mg/L	:	6166	N.A.	APHA: (5220 B) 22 nd Edition
5.	BOD (3 days at 27 °C)	mg/L	:	1725	N.A.	APHA: (5210 B) 22 nd Edition
6.	Oil & Grease	mg/L	:	<5	N.A.	APHA: (5520 B) 22 nd Edition
7.	Mercury	mg/L	:	<0.001	N.A.	APHA : (3500 Hg) 22 nd Edition
8.	Elec. Conductivity	µmhos/cm	:	29061	N.A.	IS 14767:2000 Conductivity

Remark :

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/099/04

SAMPLE DETAILS

SAMPLE DETAILS			
1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 -099MY15EF01	3.	Client Representative:Miss. Palak Kharadi
4.	Sample Date: 29.05.2015	5.	Sample Collected By: Mr. Sinha
6.	Analysis commenced on: 30.05.2015	7.	Analysis Completed on: 02.06.2015
8.	Reporting Date: 03.06.2015	9.	Test Requirement: Effluent Analysis
10.	Packing Condition & Quantity: Sealed ✓	11.	Sample Category: Grab
12.	Sampling Location : Waste Water Pit Sample N-283 (DK #42)	13.	ETP / STP Status: Working

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	pH		:	13.26	N.A.	APHA: (4500-H ⁺ B)22 nd Edition
2.	Total Dissolved Solids	mg/L	:	19004	N.A.	APHA: (2540 C) 22 nd Edition
3.	Suspended Solids	mg/L	:	7103	N.A.	APHA: (2540 D) 22 nd Edition
4.	COD	mg/L	:	5984	N.A.	APHA: (5220 B) 22 nd Edition
5.	BOD (3 days at 27 °C)	mg/L	:	1650	N.A.	APHA: (5210 B) 22 nd Edition
6.	Oil & Grease	mg/L	:	<5	N.A.	APHA: (5520 B) 22 nd Edition
7.	Mercury	mg/L	:	<0.001	N.A.	APHA : (3500 Hg) 22 nd Edition
8.	Elec. Conductivity	µmhos/cm	:	29054	N.A.	IS 14767:2000 Conductivity

Remark :

Authorised By -

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Designation: Laboratory Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – SOLID WASTE

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/06

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 –060FB15HW01	3.	Client Representative: Palak Kharadi
4.	Sampling Date : 19.02.2015	5.	Sampling location : Barite Sample (N-090)
6.	Analysis commenced on: 20.02.2015	7.	Analysis Completed on: 02.03.2015
8.	Reporting Date: 04.03.2015	9.	Sample Collected By : Mr. Gaurang Rana
10.	Test Requirement : Solid Waste Analysis	11.	Physical Status : Solid
12.	Sample Category : -	13.	Colour : Grey
14.	Description of sample: Packed and sealed in polythene bags.		

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By -

Name : Sapana Amin

Designation: Laboratory Incharge

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-----END OF REPORT-----

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – SOLID WASTE

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/06

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 –050AP15HW01	3.	Client Representative:Miss. Palak Kharadi
4.	Sampling Date : 04.04.2015	5.	Sampling location : Barite Sample (N-118)
6.	Analysis commenced on: 10.04.2015	7.	Analysis Completed on: 14.04.2015
8.	Reporting Date: 22.04.2015	9.	Sample Collected By : Mr. Sinha
10.	Test Requirement : Solid Waste Analysis	11.	Physical Status : Solid
12.	Sample Category : -	13.	Colour : Grey
14.	Description of sample: Packed and sealed in polythene bags.		

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	:	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By -

Name : Sapana Amin

Designation: Laboratory Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – SOLID WASTE

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/06

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 –015MY15HW01	3.	Client Representative:Miss. Palak Kharadi
4.	Sampling Date : 04.05.2015	5.	Sampling location : Barite Sample (N-181)(DK#41)
6.	Analysis commenced on: 11.05.2015	7.	Analysis Completed on: 15.05.2015
8.	Reporting Date: 19.05.2015	9.	Sample Collected By : Mr. Sinha
10.	Test Requirement : Solid Waste Analysis	11.	Physical Status : Solid
12.	Sample Category : -	13.	Colour : Grey
14.	Description of sample: Packed and sealed in polythene bags.		

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	:	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By -

Name : Sapana Amin

Designation: Laboratory Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – SOLID WASTE

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/099/06


SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246 –099MY15HW01	3.	Client Representative:Miss. Palak Kharadi
4.	Sampling Date : 29.05.2015	5.	Sampling location : Barite Sample N-283 (DK #42)
6.	Analysis commenced on: 30.05.2015	7.	Analysis Completed on: 02.06.2015
8.	Reporting Date: 03.06.2015	9.	Sample Collected By : Mr. Sinha
10.	Test Requirement : Solid Waste Analysis	11.	Physical Status : Solid
12.	Sample Category : -	13.	Colour : Grey
14.	Description of sample: Packed and sealed in polythene bags.		

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms	Method Used
1.	Mercury	mg/L	:	<0.001	N.A.	APHA: (3500 Hg A) 22 nd Edition

Remark :

Authorised By - 

Name : Sapana Amin

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 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----



ENVIRONMENTAL MONITORING REPORT

DOC. I. D.: ISO-KEC-EFF. ANA. R.

REV.: 01

Rev.Date:01.12.2010

BIOASSAY TEST FOR

M/s. Joshi Technologies International Inc For the Month of February 2015.

Bioassay Method For Evaluation Of Acute Toxicity Of Industrial Effluent: - (Test Procedures As Per Is 6582 (Part 2) 2001)

1. GENERAL PRINCIPLES:

Fish are affected by toxic substances chiefly in the following two ways:

- Epithelia absorb toxic substances, getting damaged in this process, for instance, the gills stick together or get congested with mucus and get destroyed.
- Besides the above immediate effects, harmful substances are adsorbed through the gills, skin or intestine, thereby impairing physiological functions. These effects may ultimately lead to the death of fish.

These toxic effects are determined in terms of the death of the test organism in standard dilution series of wastewater samples with standard dilution water.

2. SAMPLING:

Representative sample of Final Treated Discharge Collected on **19.02.2015**

3. MATERIAL

Test-Fish Species

Brachydanio rerio (Zebra fish), having a size of 30 ± 5 mm corresponding to approximately 0.2 to 0.3 g of mass.

4. BIOASSAY TEST CONDITIONS ARE AS FOLLOWS:

- 24 hours prior to the test, the feeding was stopped.
- Fish for a single test selected from a tank with the population of the same stock.
- After obtaining the correct temperature, 5 fishes shall be placed in each of the vessel. The fishes were selected randomly from the stock population and distributed at random in the various vessels with the help of a small fine-mesh dip net of soft inert material.
- Samples and test solutions not aerated or treated.
- The duration of the test was 96 hours.
- The counting of the dead fish in each vessel was taken at 2, 4, 6, 24, 48 and 96 hours respectively.
- D.O. concentration, pH and Temperature were measured at the beginning of the test, 24 and 48 hours.
- All these tests were carried out under normal laboratory illumination with natural light.
- The temperature was maintained at $25 \pm 1^\circ\text{C}$.

All other conditions and procedures are followed as per the IS 6582 (Part 2) 2001.

BIOASSAY TEST FOR Joshi Technologies International Inc. For Month of February 2015.

OBSERVATION TABLE

Sr. No.	Part of the Dilution Water to be added to 1 part of Waste Water	Survival after					
		2 hrs.	6 hrs.	24 hrs.	48 hrs.	96 hrs.	% Survival
1	0	✓	✓	✓	✓	✓	100%
2	1	✓	✓	✓	✓	✓	100%
3	3	✓	✓	✓	✓	✓	100%
4	7	✓	✓	✓	✓	✓	100%
5	15	✓	✓	✓	✓	✓	100%
6	31	✓	✓	✓	✓	✓	100%
7	63	✓	✓	✓	✓	✓	100%
8	124	✓	✓	✓	✓	✓	100%
9	249	✓	✓	✓	✓	✓	100%
10	499	✓	✓	✓	✓	✓	100%
11	999	✓	✓	✓	✓	✓	100%

CONCLUSIONS:

There is 100% survival of fishes at zero dilution, which shows that the effluent is Nontoxic in nature.

For KADAM ENVIRONMENTAL CONSULTANTS

Tested By - Ashok


Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

DOC. I. D.: ISO-KEC-EFF. ANA. R.

REV.: 01

Rev.Date:01.12.2010

BIOASSAY TEST FOR

M/s. Joshi Technologies International Inc For the Month of April 2015.

**Bioassay Method For Evaluation Of Acute Toxicity Of Industrial Effluent: -
(Test Procedures As Per Is 6582 (Part 2) 2001)**

1. GENERAL PRINCIPLES:

Fish are affected by toxic substances chiefly in the following two ways:

- a. Epithelia absorb toxic substances, getting damaged in this process, for instance, the gills stick together or get congested with mucus and get destroyed.
- b. Besides the above immediate effects, harmful substances are adsorbed through the gills, skin or intestine, thereby impairing physiological functions. These effects may ultimately lead to the death of fish.

These toxic effects are determined in terms of the death of the test organism in standard dilution series of wastewater samples with standard dilution water.

2. SAMPLING:

Representative sample of Final Treated Discharge Collected on **04.04.2015**

3. MATERIAL

Test-Fish Species

Brachydanio rerio (Zebra fish), having a size of 30 ± 5 mm corresponding to approximately 0.2 to 0.3 g of mass.

4. BIOASSAY TEST CONDITIONS ARE AS FOLLOWS:

- i) 24 hours prior to the test, the feeding was stopped.
- ii) Fish for a single test selected from a tank with the population of the same stock.
- iii) After obtaining the correct temperature, 5 fishes shall be placed in each of the vessel. The fishes were selected randomly from the stock population and distributed at random in the various vessels with the help of a small fine-mesh dip net of soft inert material.
- iv) Samples and test solutions not aerated or treated.
- v) The duration of the test was 96 hours.
- vi) The counting of the dead fish in each vessel was taken at 2, 4, 6, 24, 48 and 96 hours respectively.
- vii) D.O. concentration, pH and Temperature were measured at the beginning of the test, 24 and 48 hours.
- viii) All these tests were carried out under normal laboratory illumination with natural light.
- ix) The temperature was maintained at $25 \pm 1^\circ\text{C}$.

All other conditions and procedures are followed as per the IS 6582 (Part 2) 2001.

BIOASSAY TEST FOR Joshi Technologies International Inc. For Month of April 2015.

OBSERVATION TABLE

Sr. No.	Part of the Dilution Water to be added to 1 part of Waste Water	Survival after					
		2 hrs.	6 hrs.	24 hrs.	48 hrs.	96 hrs.	% Survival
1	0	✓	✓	✓	✓	✓	100%
2	1	✓	✓	✓	✓	✓	100%
3	3	✓	✓	✓	✓	✓	100%
4	7	✓	✓	✓	✓	✓	100%
5	15	✓	✓	✓	✓	✓	100%
6	31	✓	✓	✓	✓	✓	100%
7	63	✓	✓	✓	✓	✓	100%
8	124	✓	✓	✓	✓	✓	100%
9	249	✓	✓	✓	✓	✓	100%
10	499	✓	✓	✓	✓	✓	100%
11	999	✓	✓	✓	✓	✓	100%

CONCLUSIONS:

There is 100% survival of fishes at zero dilution, which shows that the effluent is Nontoxic in nature.

For KADAM ENVIRONMENTAL CONSULTANTS

Tested By -

Ashok

[Signature]

Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

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ENVIRONMENTAL MONITORING REPORT

DOC. I. D.: ISO-KEC-EFF. ANA. R.

REV.: 01

Rev.Date:01.12.2010

BIOASSAY TEST FOR

M/s. Joshi Technologies International Inc For the Month of May 2015.

**Bioassay Method For Evaluation Of Acute Toxicity Of Industrial Effluent: -
(Test Procedures As Per Is 6582 (Part 2) 2001)**

1. GENERAL PRINCIPLES:

Fish are affected by toxic substances chiefly in the following two ways:

- a. Epithelia absorb toxic substances, getting damaged in this process, for instance, the gills stick together or get congested with mucus and get destroyed.
- b. Besides the above immediate effects, harmful substances are adsorbed through the gills, skin or intestine, thereby impairing physiological functions. These effects may ultimately lead to the death of fish.

These toxic effects are determined in terms of the death of the test organism in standard dilution series of wastewater samples with standard dilution water.

2. SAMPLING:

Representative sample of Final Treated Discharge Collected on **04.05.2015(N-181) (DK # 41)**

3. MATERIAL

Test-Fish Species

Brachydanio rerio (Zebra fish), having a size of 30 ± 5 mm corresponding to approximately 0.2 to 0.3 g of mass.

4. BIOASSAY TEST CONDITIONS ARE AS FOLLOWS:

- i) 24 hours prior to the test, the feeding was stopped.
- ii) Fish for a single test selected from a tank with the population of the same stock.
- iii) After obtaining the correct temperature, 5 fishes shall be placed in each of the vessel. The fishes were selected randomly from the stock population and distributed at random in the various vessels with the help of a small fine-mesh dip net of soft inert material.
- iv) Samples and test solutions not aerated or treated.
- v) The duration of the test was 96 hours.
- vi) The counting of the dead fish in each vessel was taken at 2, 4, 6, 24, 48 and 96 hours respectively.
- vii) D.O. concentration, pH and Temperature were measured at the beginning of the test, 24 and 48 hours.
- viii) All these tests were carried out under normal laboratory illumination with natural light.
- ix) The temperature was maintained at $25 \pm 1^\circ\text{C}$.

All other conditions and procedures are followed as per the IS 6582 (Part 2) 2001.

BIOASSAY TEST FOR Joshi Technologies International Inc. For Month of May 2015.

OBSERVATION TABLE

Sr. No.	Part of the Dilution Water to be added to 1 part of Waste Water	Survival after					
		2 hrs.	6 hrs.	24 hrs.	48 hrs.	96 hrs.	% Survival
1	0	✓	✓	✓	✓	✓	100%
2	1	✓	✓	✓	✓	✓	100%
3	3	✓	✓	✓	✓	✓	100%
4	7	✓	✓	✓	✓	✓	100%
5	15	✓	✓	✓	✓	✓	100%
6	31	✓	✓	✓	✓	✓	100%
7	63	✓	✓	✓	✓	✓	100%
8	124	✓	✓	✓	✓	✓	100%
9	249	✓	✓	✓	✓	✓	100%
10	499	✓	✓	✓	✓	✓	100%
11	999	✓	✓	✓	✓	✓	100%

CONCLUSIONS:

There is 100% survival of fishes at zero dilution, which shows that the effluent is Nontoxic in nature.

For KADAM ENVIRONMENTAL CONSULTANTS

Tested By -

Ashley

[Signature]

Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

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(MoEF Approved)

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ENVIRONMENTAL MONITORING REPORT

DOC. I. D.: ISO-KEC-EFF. ANA. R.

REV.: 01

Rev.Date:01.12.2010

BIOASSAY TEST FOR

M/s. Joshi Technologies International Inc For the Month of May 2015.

**Bioassay Method For Evaluation Of Acute Toxicity Of Industrial Effluent: -
(Test Procedures As Per Is 6582 (Part 2) 2001)**

1. GENERAL PRINCIPLES:

Fish are affected by toxic substances chiefly in the following two ways:

- a. Epithelia absorb toxic substances, getting damaged in this process, for instance, the gills stick together or get congested with mucus and get destroyed.
- b. Besides the above immediate effects, harmful substances are adsorbed through the gills, skin or intestine, thereby impairing physiological functions. These effects may ultimately lead to the death of fish.

These toxic effects are determined in terms of the death of the test organism in standard dilution series of wastewater samples with standard dilution water.

2. SAMPLING:

Representative sample of Final Treated Discharge Collected on **04.05.2015**

3. MATERIAL

Test-Fish Species

Brachydanio rerio (Zebra fish), having a size of 30 ± 5 mm corresponding to approximately 0.2 to 0.3 g of mass.

4. BIOASSAY TEST CONDITIONS ARE AS FOLLOWS:

- i) 24 hours prior to the test, the feeding was stopped.
- ii) Fish for a single test selected from a tank with the population of the same stock.
- iii) After obtaining the correct temperature, 5 fishes shall be placed in each of the vessel. The fishes were selected randomly from the stock population and distributed at random in the various vessels with the help of a small fine-mesh dip net of soft inert material.
- iv) Samples and test solutions not aerated or treated.
- v) The duration of the test was 96 hours.
- vi) The counting of the dead fish in each vessel was taken at 2, 4, 6, 24, 48 and 96 hours respectively.
- vii) D.O. concentration, pH and Temperature were measured at the beginning of the test, 24 and 48 hours.
- viii) All these tests were carried out under normal laboratory illumination with natural light.
- ix) The temperature was maintained at $25 \pm 1^\circ\text{C}$.

All other conditions and procedures are followed as per the IS 6582 (Part 2) 2001.

BIOASSAY TEST FOR Joshi Technologies International Inc. For Month of May 2015.

OBSERVATION TABLE

Sr. No.	Part of the Dilution Water to be added to 1 part of Waste Water	Survival after					
		2 hrs.	6 hrs.	24 hrs.	48 hrs.	96 hrs.	% Survival
1	0	✓	✓	✓	✓	✓	100%
2	1	✓	✓	✓	✓	✓	100%
3	3	✓	✓	✓	✓	✓	100%
4	7	✓	✓	✓	✓	✓	100%
5	15	✓	✓	✓	✓	✓	100%
6	31	✓	✓	✓	✓	✓	100%
7	63	✓	✓	✓	✓	✓	100%
8	124	✓	✓	✓	✓	✓	100%
9	249	✓	✓	✓	✓	✓	100%
10	499	✓	✓	✓	✓	✓	100%
11	999	✓	✓	✓	✓	✓	100%

CONCLUSIONS:

There is 100% survival of fishes at zero dilution, which shows that the effluent is Nontoxic in nature.

For KADAM ENVIRONMENTAL CONSULTANTS

Tested By - 


Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
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ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC- NOI. LEV. ANA. R.

REV. : 00

M/s.Joshi Technologies International Inc, (N-090)

NOISE LEVEL DATA SHEET

Sampling Station : Nr. Drilling Site

Sampling Date : 19.02.2015

Reporting Date : 02.03.2015

Time (day)	Noise Level dB(A)	Time (night)	Noise Level dB(A)
7.00 am	57.0	22.00 pm	43.0
8.00 am	62.0	23.00 pm	41.0
9.00 am	55.0	24.00 pm	42.0
10.00 am	51.0	1.00 am	45.0
11.00 am	52.0	2.00 am	44.0
12.00 pm	53.0	3.00 am	42.0
13.00 pm	50.0	4.00 am	43.0
14.00 pm	52.0	5.00 am	50.0
15.00 pm	53.0	6.00 am	52.0
16.00 pm	45.0		
17.00 pm	53.0		
18.00 pm	51.0		
19.00 pm	52.0		
20.00 pm	53.0		
21.00 pm	54.0		
Average (leq)	53.4	Average (leq)	44.7

For Kadam Environmental Consultants,

Tested By- *Ashlee*

[Signature]

Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
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ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC- NOI. LEV. ANA. R.

REV. : 00

M/s.Joshi Technologies International Inc, (N-090)

NOISE LEVEL DATA SHEET

Sampling Station : Nr. Drilling Site

Sampling Date : 04.04.2015

Reporting Date : 22.04.2015

Time (day)	Noise Level dB(A)	Time (night)	Noise Level dB(A)
7.00 am	55.0	22.00 pm	40.0
8.00 am	62.0	23.00 pm	41.0
9.00 am	52.0	24.00 pm	41.0
10.00 am	51.0	1.00 am	45.0
11.00 am	52.0	2.00 am	44.0
12.00 pm	51.0	3.00 am	41.0
13.00 pm	50.0	4.00 am	43.0
14.00 pm	52.0	5.00 am	41.0
15.00 pm	51.0	6.00 am	41.0
16.00 pm	45.0		
17.00 pm	53.0		
18.00 pm	51.0		
19.00 pm	52.0		
20.00 pm	51.0		
21.00 pm	50.0		
Average (1eq)	52.4	Average (1eq)	41.9

For Kadam Environmental Consultants,

Tested By-

Ashok

[Signature]
Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC- NOI. LEV. ANA. R.

REV. : 00

M/s.Joshi Technologies International Inc, (N-181) (DK # 41)

NOISE LEVEL DATA SHEET

Sampling Station : Nr. Drilling Site

Sampling Date : 04.05.2015

Reporting Date : 19.05.2015

Time (day)	Noise Level dB(A)	Time (night)	Noise Level dB(A)
7.00 am	57.0	22.00 pm	43.0
8.00 am	62.0	23.00 pm	41.0
9.00 am	55.0	24.00 pm	42.0
10.00 am	51.0	1.00 am	45.0
11.00 am	52.0	2.00 am	44.0
12.00 pm	53.0	3.00 am	42.0
13.00 pm	50.0	4.00 am	43.0
14.00 pm	52.0	5.00 am	50.0
15.00 pm	53.0	6.00 am	52.0
16.00 pm	45.0		
17.00 pm	53.0		
18.00 pm	51.0		
19.00 pm	52.0		
20.00 pm	53.0		
21.00 pm	54.0		
Average (1eq)	53.4	Average (1eq)	44.7

For Kadam Environmental Consultants,

Tested By-

Ashok

[Signature]
Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC- NOI. LEV. ANA. R.

REV. : 00

M/s.Joshi Technologies International Inc, N-283 (DK #42)

NOISE LEVEL DATA SHEET

Sampling Station : Nr. Drilling Site
Sampling Date : 29.05.2015
Reporting Date : 03.06.2015

Time (day)	Noise Level dB(A)	Time (night)	Noise Level dB(A)
7.00 am	56.3	22.00 pm	60.4
8.00 am	58.2	23.00 pm	59.4
9.00 am	60.3	24.00 pm	60.1
10.00 am	55.2	1.00 am	59.2
11.00 am	56.7	2.00 am	54.2
12.00 pm	59.2	3.00 am	57.3
13.00 pm	60.2	4.00 am	60.4
14.00 pm	57.3	5.00 am	57.1
15.00 pm	60.2	6.00 am	59.7
16.00 pm	71.2		
17.00 pm	59.2		
18.00 pm	60.7		
19.00 pm	61.2		
20.00 pm	57.3		
21.00 pm	56.3		
Average (leq)	59.3	Average (leq)	58.6

For Kadam Environmental Consultants,

Tested By-

Ashel

[Signature]

Approved By -

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/01

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246- 060FB15SE01	3.	Client Representative: Mr. Palak Kharadi
4.	Sample Date: 19.02.2015	5.	Sampling Location : D.G.Set - 1 (N-090)
6.	Sampling Time: 13:00 hr	7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 20.02.2015	9.	Analysis Completed on : 02.03.2015
10.	Reporting Date: 04.03.2015	11.	Sample Collected By: Mr.Vipul Dabhi
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓ Bladder: Clamped✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		: D.G.Set - 1 (N-090)
2.	Height	m	: 4
3.	Diameter	mm	: 150
4.	Temperature	°C	: 167
5.	Velocity	m/s	: 9.3
6.	Type of fuel used		: HSD
7.	Quantity of fuel used	lit/day	: 800

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	: 109	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	: 7.83 (2.99 ppm)	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	mg/Nm ³	: 9.38 (4.99 ppm)	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	: 1.54	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	: N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	: N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

KADAM ENVIRONMENTAL CONSULTANTS

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: FEB15/060/02

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246– 060FB15SE02		3.	Client Representative: Mr. Palak Kharadi
4.	Sample Date: 19.02.2015		5.	Sampling Location : MUD Pump – 1 (N-090)
6.	Sampling Time: 13:30 hr		7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 20.02.2015		9.	Analysis Completed on : 02.03.2015
10.	Reporting Date: 04.03.2015		11.	Sample Collected By: Mr.Vipul Dabhi
12.	Test Requirement: Stack Air Monitoring		13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓	Bladder: Clamped ✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		MUD Pump – 1 (N-090)
2.	Height	m	-
3.	Diameter	mm	-
4.	Temperature	°C	152
5.	Velocity	m/s	14.1
6.	Type of fuel used		-
7.	Quantity of fuel used	lit/day	-

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	68	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	8.99 (3.42 ppm)	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	mg/Nm ³	8.65 (4.60 ppm)	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	1.51	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 9001-2008 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.
Phone : (O) 0265 - 3001000, 2644909, 2637213 Fax : 0265-3001069



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/01

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246- 050AP15SE01	3.	Client Representative: Miss. Palak Kharadi
4.	Sample Date: 04.04.2015	5.	Sampling Location : D.G.Set – 1 (N-118) (600 KVA)
6.	Sampling Time: 13:00 hr	7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 10.04.2015	9.	Analysis Completed on : 14.04.2015
10.	Reporting Date: 22.04.2015	11.	Sample Collected By: Mr.Sinha
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓ Bladder: Clamped✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		D.G.Set – 1 (N-118) (600 KVA)
2.	Height	m	4
3.	Diameter	mm	150
4.	Temperature	°C	165
5.	Velocity	m/s	9.3
6.	Type of fuel used		HSD
7.	Quantity of fuel used	lit/day	800

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	92	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	54.43 (20.78 ppm)	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NO _x)	mg/Nm ³	9.05 (4.81 ppm)	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	1.51	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: APR15/050/02

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246– 050AP15SE02		3.	Client Representative: Miss. Palak Kharadi
4.	Sample Date: 04.04.2015		5.	Sampling Location : MUD Pump – 1 (N-118)
6.	Sampling Time: 12:30 hr		7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 10.04.2015		9.	Analysis Completed on : 14.04.2015
10.	Reporting Date: 22.04.2015		11.	Sample Collected By: Mr.Sinha
12.	Test Requirement: Stack Air Monitoring		13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓	Bladder: Clamped ✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		: MUD Pump – 1 (N-118)
2.	Height	m	: -
3.	Diameter	mm	: -
4.	Temperature	°C	: 65
5.	Velocity	m/s	: 5.8
6.	Type of fuel used		: -
7.	Quantity of fuel used	lit/day	: -

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	: 71	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	: 7.27 (2.78 ppm)	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	mg/Nm ³	: 7.99 (4.25 ppm)	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	: 1.48	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	: N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	: N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/01

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246- 015MY15SE01	3.	Client Representative: Miss. Palak Kharadi
4.	Sample Date: 04.05.2015	5.	Sampling Location : D.G.Set - 2 N-181 (DK # 41)
6.	Sampling Time: 14:30 hr	7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 11.05.2015	9.	Analysis Completed on : 15.05.2015
10.	Reporting Date: 19.05.2015	11.	Sample Collected By: Mr.Vipul Dabhi
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓ Bladder: Clamped✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		D.G.Set - 2 N-181 (DK # 41)
2.	Height	m	-
3.	Diameter	mm	-
4.	Temperature	°C	174
5.	Velocity	m/s	9.4
6.	Type of fuel used		-
7.	Quantity of fuel used	lit/day	-

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	120	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	ppm	17.34	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	ppm	4.91	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	1.47	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/015/02

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)			
2.	Sample ID: 1520618246– 015MY15SE02	3.	Client Representative: Miss. Palak Kharadi	
4.	Sample Date: 04.05.2015	5.	Sampling Location : MUD Pump – 2 (N-181) (DK#41)	
6.	Sampling Time: 14:50 hr	7.	Sampling Duration:10 Mins	
8.	Analysis commenced on: 11.05.2015	9.	Analysis Completed on : 15.05.2015	
10.	Reporting Date: 19.05.2015	11.	Sample Collected By: Mr.Vipul Dabhi	
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method	
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓	Bladder: Clamped ✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		MUD Pump - 2 (N-181) (DK#41)
2.	Height	m	-
3.	Diameter	mm	-
4.	Temperature	°C	164
5.	Velocity	m/s	14.0
6.	Type of fuel used		-
7.	Quantity of fuel used	lit/day	-

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	45	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	2.82	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	mg/Nm ³	3.93	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	1.42	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

Authorized By -

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DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 00
Effective Date: 01-01-2015	Issue Date: 01-01-2015	Revision Date: 01-01-2015

REPORT NO.: MAY15/099/01

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad - 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246- 099MY15SE01	3.	Client Representative: Miss. Palak Kharadi
4.	Sample Date: 29.05.2015	5.	Sampling Location : D.G.Set - 1 (500 KVA) N-283 (DK #42)
6.	Sampling Time: 12:00 hr	7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 30.05.2015	9.	Analysis Completed on : 02.06.2015
10.	Reporting Date: 03.06.2015	11.	Sample Collected By: Mr. Sinha
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓ Bladder: Clamped✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		: D.G.Set - 1 (500 KVA) (N-283 CDK #42)
2.	Height	m	: -
3.	Diameter	mm	: -
4.	Temperature	°c	: 220
5.	Velocity	m/s	: 9.9
6.	Type of fuel used		: Diesel
7.	Quantity of fuel used	lit/day	: -

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	: 83	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	ppm	: 18.22	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	ppm	: 5.01	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	: 1.47	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	: N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	: N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

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REPORT NO.: MAY15/099/02

SAMPLE DETAILS

1.	Name & Address of Client: M/s.Joshi Technologies International Inc, 701,Parshwanath E Square Pralhad Nagar, Corporate Road,Satelite. Ahmedabad – 380 015, Gujarat (Oilfield)		
2.	Sample ID: 1520618246– 099MY15SE02	3.	Client Representative: Miss. Palak Kharadi
4.	Sample Date: 29.05.2015	5.	Sampling Location : Water Pump Eng (1200 H.P) N-283 (DK #42)
6.	Sampling Time: 12:40 hr	7.	Sampling Duration:10 Mins
8.	Analysis commenced on: 30.05.2015	9.	Analysis Completed on : 02.06.2015
10.	Reporting Date: 03.06.2015	11.	Sample Collected By: Mr. Sinha
12.	Test Requirement: Stack Air Monitoring	13.	Sampling Procedure: IS Method
14.	Description of Sample:	Sampling Bottles: Sealed ✓	Thimble:Packed✓ Bladder: Clamped ✓

STACK DETAILS

S.No.	Parameters	Unit (SI)	Description
1.	Source		Water Pump Eng (1200 H.P) (N-283 CDK #42)
2.	Height	m	-
3.	Diameter	mm	-
4.	Temperature	°C	236
5.	Velocity	m/s	9.0
6.	Type of fuel used		-
7.	Quantity of fuel used	lit/day	-

S.No.	Parameters	Unit	Results	Specification/ SPCB Norms	Method Used
1.	Particulate Matter	mg/Nm ³	95	N.A.	IS 11255 (Part 1) : 1985
2.	Sulphur Dioxide(SO ₂)	mg/Nm ³	N.D.	N.A.	IS 11255 (Part 2) : 1985
3.	Oxides of Nitrogen (NOx)	mg/Nm ³	4.66	N.A.	IS 5182 (Part 6) : 2006
4.	Hydrocarbon(HC)	mg/Nm ³	1.54	N.A.	Gas Chromatography
5.	VOC	mg/Nm ³	N.D.	N.A.	Gas Chromatography
6.	Mercury	mg/Nm ³	N.D.	N.A.	APHA: (3500 Hg A) 21 st Edition

Remark : N.D :- Not Detected

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