



Momentive Performance Materials (India) Pvt. Ltd.

B-3, SIPCOT Industrial Growth Centre, Oragadam  
Sriperumbudur Taluk, Kancheepuram Dist  
Tamil Nadu - 602 105 INDIA  
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www.momentive.com

26/12/2017

To,

The Additional Principle Chief Conservator of Forests  
Ministry of Environment and Forests, Climate Change  
1<sup>st</sup> and 11<sup>nd</sup> Floor, Handloom Export Promotion Council  
34, Cathedral Garden Road, Nungambakkam  
Chennai -600034

Sir,

Sub: Submission of Compliance Report for period of April 2017 – September 2017- Momentive Performance Materials India Private Limited, Oragadam- Regd.

Ref: 1. EC issued vide MoEF Letter No. J-11011/518/2011-IA,II(I) dt. 07.12.2012  
2. EC issued vide MoEF Letter No. J-11011/603/2007-IA,II(I) dt. 01.04.2008

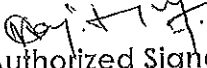
With reference to the above, Environmental Clearance has been accorded for the project of multi-product specialty silicones product plant at B-3, SIPCOT Industrial Estate, Oragadam, Sriperumbudur, Kanchipuram District, Tamil Nadu. Our project is implemented and operational.

In compliance to general condition of above-mentioned EC, we hereby enclosed the EC Compliance report for a period of April 2017 – September 2017 for your kind ready reference and records.

Thanking you.

Yours sincerely,

For Momentive Performance Material India (P) Limited,

  
Authorized Signatory

B. Balaji

GM - Operations & Supply Chain

Mobile No. 95000 33561, b.balaji@momentive.com

Encl: EC Compliance Statement and it's Annexures

**Momentive Performance Materials (India) Pvt. Ltd**  
**Compliance Status of Environmental Clearance Conditions**  
**F.No: J-11011/518/2011-IA II (I) Dated 07<sup>th</sup> Dec 2012**  
**April 2017 – September 2017**

1	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended time to time shall be followed by the unit.	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended time to time is being followed by the unit. The monitoring reports for the month of April 2017 to September 2017 are enclosed in <b>Annexure II</b> . Condition complied
2	Compliance to all the specific and general conditions mentioned in the existing environmental clearance letter no. J-11011/603/2007-IAII (I) dated 1 <sup>st</sup> April, 2008 shall be ensured.	Compliance to all the specific and general conditions mentioned in the existing environmental clearance letter no. J-11011/603/2007-IAII (I) dated 1 <sup>st</sup> April, 2008 are complied. Detailed compliance report enclosed with this report.
3	Stack of adequate height shall be provided to the FO fired boiler to disperse gaseous emissions. Boiler shall be provided with the automatic modulation control systems to ensure right air to fuel ratio to reduce the emission.	No FO is being used. We are using HSD for boiler and to that stack height of 30 m are provided to disperse gaseous emissions. The photograph was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Boiler is provided with the automatic modulation control systems to ensure right air to fuel ratio to reduce the emission. Stack emission is monitored on a monthly basis through external agency and all parameters are within the limit. Detailed compliance report enclosed with this report.
4	Adequate scrubbing arrangement shall be provided to process stack to control process emissions. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.	Scrubbing arrangements (Off Gas System) are provided to process stack to control process emissions. The waste water from scrubbing media is treated through effluent treatment plant (ETP). Efficiency of scrubber is monitored regularly and the monitoring reports are enclosed in <b>Annexure II</b> .
5	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM10, SO2, NOX, VOC and CO shall be monitored in the	Ambient air quality is monitored through external lab as per NAAQS standards. The monitored levels of PM10, SO2, NOX, VOC and CO in the ambient air and emissions from the stacks are displayed at main gate of the company.

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	<p>ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Tamil Nadu Pollution Control Board (TNPCB).</p>	<p>Regular monitoring reports are submitted every month to the TNPCB and once in every Six months to Regional office of MOEF at Chennai. Also uploaded in our company website:- <a href="http://www.momentive.com/MPMIndia">www.momentive.com/MPMIndia</a>.</p>
6	<p>In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling &amp; conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the TNPCB.</p>	<p>Necessary control measures for checking fugitive emissions from all the vulnerable sources are provided in the plant.</p> <p>No dust evolved in our loading and unloading area.</p> <p>Fugitive emissions in the work zone environment, product, raw materials storage area etc. are regularly monitored and it is in compliance with TNPCB Standards. (Reports enclosed in <b>Annexure II</b>). Condition complied.</p>
7	<p>For further control of fugitive emissions, following steps shall be followed:</p> <p>a. Closed handling system shall be provided for chemicals.</p> <p>b. Reflux condenser shall be provided over reactor.</p>	<p>The specific measures are in place to control of fugitive emissions, such as</p> <p>a. Closed handling system provided for chemicals. The photograph of the same was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015.</p> <p>b. Reflux condenser provided over reactor.</p>

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	<p>c. System of leak detection and repair of pump/pipeline based on preventive maintenance.</p> <p>d. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</p> <p>e. Cathodic protection shall be provided to the underground solvent storage tanks.</p>	<p>c. Preventive maintenance system for leak detection and repair of pump/pipeline in place.</p> <p>d. No acids are used in our site. Storage tanks are provided with vents through scrubber.</p> <p>e. No underground storage at our site.</p>
8	<p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p>	<p>2 Nos. of 700 KVA DG sets are provided with proper acoustic enclosures to reduce noise pollution while operation with a stack height of 15 m each. A photograph of the DG set &amp; Stack was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015.</p>
9	<p>Total fresh water requirement from SIPCOT water supply shall not exceed 231 m<sup>3</sup>/day and prior permission shall be obtained from the concerned Authority. No ground water should be used. Copy of permission from the CGWA/SGWA shall be submitted to the Ministry's Regional Office.</p>	<p>Our project requirement will not exceed 231 m<sup>3</sup>/day of fresh water which is obtained from SIPCOT. The agreement with SIPCOT was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. No ground water is being used. Condition complied.</p>
10	<p>Trade effluent shall be treated in effluent treatment plant (ETP) followed by reverse osmosis (RO). Treated effluent shall be recycled /reused in the process. RO rejects shall be evaporated in multiple effect evaporators (MEE). Treated water shall be recycled / reused within factory premises. Sewage shall be treated in STP.</p>	<p>We are operating ETP with reverse osmosis and the treated water is recycled to process. RO reject is evaporated in multiple effect evaporators as Zero Liquid Discharge concept. Sewage is treated in STP and the treated sewage water is reused for our gardening purposes. ETP &amp; STP are monitored on a monthly basis through external agency and all parameters are within the limit. Detailed compliance report enclosed with this report.</p>

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		The Photographs and adequacy report for STP & ETP was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Condition complied.
1 1	No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be adopted.	Our ETP is based on ZLD concept hence no liquid is discharged outside our factory premises. Condition Complied.
1 2	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Storm water drain network is maintained around the plant in such a way that the process effluent or any wastewater will not mix with storm water and it passes through guard pond. Storm Water Drain Photographs was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Condition Complied.
1 3	All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Solvent storage tanks are not available in our facility.
1 4	As proposed, Silicone residue, MEE salt and ETP sludge shall be sent to the TSDF. Spent catalyst/ resin and spent oil shall be sent to authorized recycler/re-processor.	We are disposing Silicone residue, MEE salt and ETP sludge to the TSDF, Gummidipoondi. The TSDF agreement was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Spent solvent & Oil is being disposed to authorized recyclers. Agreement copy of the same was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Condition Complied.
1 5	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for	The company has obtained authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB is obtained for disposal of solid / hazardous waste in the TSDF. Copy of Hazardous Waste Authorization submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015. Condition Complied.

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	firefighting facilities in case of emergency.	
1 6	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	We are following the compliance with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the Motor Vehicle Act (MVA), 1989.
1 7	The company shall undertake following waste minimization measures : a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapor recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	We have taken action to minimize waste as prescribed and a separate team is appointed for waste minimization project.  a. Raw materials consumption is reduced by process optimization. b. By-products are being reused in the process. c. Filling process is fully automated. d. Closed feed system is used in the batch reactors. e. High pressure hoses are being used for equipment clearing to reduce waste water generation.
1 8	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the OISD 117 norms.	We have made arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire license obtained from Tamil Nadu Fire & Rescue Service was submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015. Condition Complied.
1 9	The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report. Risk assessment shall be included in the safety Manual.	We have complied with the recommendation in EMP and risk assessment as stipulated in EIA report.

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20	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Training is being imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are undertaken on regular basis. Training to all employees on handling of chemicals is being imparted. Occupational health surveillance of the workers is done on a regular basis and records maintained as per the Factories Act. Photographs of regular training events conducted were submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.
21	As proposed, green belt shall be developed in 4.98 acres out of total land 15.10 acres. Selection of plant species shall be as per the CPCB guidelines.	The green belt is maintained in the area of 4.98 acres earmarked in our plant premises. Plant species grown are as per CPCB guidelines and The photographs & list of plant species was submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.
22	Provision shall be made for the housing for the construction Labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Conditions were complied.
<b>GENERAL CONDITIONS</b>		
1	The project authorities shall strictly adhere to the stipulations made by the T.N. Pollution Control Board.	We have strictly adhered to the conditions as stipulated by TNPCB.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project	No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment and Forests. Now we have proposed to further expand our Silicone derivatives production capacity in our site. For

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	proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	the reason, now we are in the process of applying for Environmental Clearance to SEIAA, Tamilnadu due to the increase in the production capacity as per the conditions stipulated in EIA notification, 2006. Also, we request the earlier EC Compliance certificate from MoEF Regional Office. Condition Complied.
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Based on TNPCB direction, we have 6 Ambient air quality monitoring sampling points covering all boundaries of the factory premises corresponding to the predominant wind direction. Condition complied.
4	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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise prone area such as DG sets are covered with acoustic enclosures and once in a month noise monitoring around the plant is carried out by an external approved lab the results of which are submitted to TNPCB on monthly basis. The results are enclosed in <b>Annexure II</b> . Conditions complied.
5	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	We are harvesting rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and using the same water for the process activities of the project to conserve fresh water. The photograph of the rainwater and storm water drain was submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.
6	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical	Training is being imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are undertaken

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	medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	on regular basis. Training to all employees on handling of chemicals is being imparted. Photographs of regular training events conducted were submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.
7	Usage of Personnel Protection Equipment's (PPEs) by all employees/workers shall be ensured.	Necessary PPEs are provided to all employees in our plant and are encouraged to use PPE at all times through management program to ensure PPEs adherence and effectiveness.
8	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	We have complied with all environmental protection measures based on EIA/EMP recommendations for environmental management and risk mitigation.
9	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	We have undertaken measures for improving the socio-economic conditions of the surrounding area. CSR activities are undertaken by involving local villages and administration. Photographs of some of our CSR activities were submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015.
10	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We have undertaken eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. Photographs of some of our community welfare activities were submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.
11	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring	Condition Complied. The Environmental Management Cell details were submitted along with EC compliance statement to MoEF Regional Office on 07/10/2015.

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	functions.	
1 2	The company shall earmark sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	We have earmarked sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1 3	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	A copy of the clearance letter was sent to y the project proponent to Vaipur Panchayat. We have complied with the stipulated condition.
1 4	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the T.N. Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	We have submitted environmental compliance statement to MoEF Regional Office, Chennai and monthly monitoring reports are being submitted to TNPCB regularly. The submitted copies of EC compliance report was submitted along with EC compliance statement to MoEF Regional Office, Chennai on 07/10/2015.
1 5	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection)	Condition Complied. A copy of recently submitted Form-V is enclosed as <b>Annexure III</b> .

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	Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	
1 6	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This also advertised within seven days from the date of issue of the clearance letter, in two local newspapers that are widely circulated in the region of which one in Tamil and a copy of the same was forwarded to the concerned Regional Office of Ministry. Condition Complied.
1 7	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We have informed the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. We have adhered to the stipulated condition.

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S.No	Conditions	Compliance
<b>EC Conditions</b>		
1.0	<p>This has reference to your letter no nil dated 11<sup>th</sup> June, 2007 on the above subject along with form I pre-feasibility report, EIA/EMP and subsequent communications vide letter dated 12<sup>th</sup> October 2007 and 1<sup>st</sup> November, 2007.</p>	Noted.
2.0	<p>The ministry has examined the proposal and it is noted that the proposal involves manufacturing of multi - product specialty silicon plant at B-3,SIPCOT Industrial Estate oragadam , sriperumbudur, Kancheepuram, TamilNadu .The unit will be located in notified SIPCOT industrial area. Total project area is 15.10 acres Total cost of the project is RS 88.60 Crores.Following will be manufactured:</p>	<p>We have strictly adhered to the conditions as stipulated by MoEF.</p> <p>The Total area of the plot is 15.10 acres. The SIPCOT allotment letter was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p> <p>The total cost of the project is 88.60 cores. The latest balance sheet was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p> <p>The production details enclosed in <b>Annexure I</b>.</p>
3.0	<p>Two-stage gas cleaning system with stacks of adequate height and ventury scrubbers will be provided to control air emissions from both specialty and Elastomer plants. The raw water (231m3/day) will be sourced from SIPCOT supply .The wastewater will be treated in ETP and used for green belt development. Reverse osmosis plant will be installed to recycle and reuse the maximum wastewater and reduce</p>	<p>Boiler is provided with the automatic modulation control systems to ensure right air to fuel ratio to reduce the emission Stack height of 30 m is provided to the HSD fired boiler to disperse gaseous emissions. The photograph was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p> <p>Our project requirement will not exceed 231 m<sup>3</sup>/day of fresh water</p>

M/s. Momentive Performance Materials (India) Pvt. Ltd.,

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	<p>water consumption .No effluent will be discharged outside the premises and 'zero' discharge will be adopted .organic residue will be incinerated in the incinerator, ETP sludge will be sent to TSDF of TNPCB.</p>	<p>which is obtained from SIPCOT. The agreement with SIPCOT was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p> <p>No ground water is being used.</p> <p>We are operating ETP with reverse osmosis and the treated water is recycled to process. RO reject is evaporated in multiple effect evaporators as ZLD concept. Sewage is treated in STP and the treated sewage is reused for our gardening purposes. The Adequacy report &amp; Photographs for STP &amp; ETP was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p> <p>We are disposing silicone residue, MEE salt and ETP sludge to the TSDF. The TSDF agreement was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai. Spent solvent is being disposed to authorized recyclers. Agreement copy of the same was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p>
4.0	<p>No public hearing/consultation is required due to location of the project in notified SIPCOT Industrial Estate.T.N.as per section (iii).stage (3),para(i) (b)of the EIA Notification 2006.</p>	<p>Noted</p>
5.0	<p>The ministry of environment and forest hereby accords environmental clearance to the above project under the EIA Notification 2006 subject to the compliance of the terms and conditions mentioned below.</p>	<p>Noted.</p>

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A. Specific Conditions		
I	<p>The gaseous (SO<sub>2</sub>, NOx) and particulate matter emissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the particulate emissions from the cement plant shall exceed TNPCB limit. Stacks of appropriate height as per the CPCB guidelines shall be provided to control process emissions. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit is shut down automatically. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p>	<p>Conditions complied. Emission monitoring is done on monthly basis as per the monitoring program stipulated and the results are found to be within the prescribed limits. A copy of the reports is enclosed in <b>Annexure II</b>. Stacks of appropriate height as per the CPCB guidelines are provided to control process emissions.</p>

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II	<p>Venturi scrubbers shall be provided to control air emissions from both specialty and Elastomer plants. Two - Stage-cleaning system with stacks of adequate height shall be provided to control process emissions before discharging into the atmosphere. The flue gas and process emissions shall conform to the standards prescribed by the T.N. Pollution control board and reports submitted to the ministry of regional office at Bangalore, CPCB and TNPCB.</p>	<p>Instead of Venturi Scrubbers, we have provided advanced Packed bed counter flow water spray scrubber. The scrubbers are provided to control air emissions from both specialty and Elastomer plants. The emissions from the scrubbers are monitored on monthly basis and the results are found to be in compliance with the norms specified. A copy of the reports is enclosed in <b>Annexure II</b>.</p> <p>The following process specific APC Measures have been installed:</p> <table border="1" data-bbox="750 134 1005 1052"> <thead> <tr> <th>S.No</th> <th>Source</th> <th>APC Measures</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Off gas from Elastomer and specialty plants storage tank vents</td> <td>Packed bed counter flow water spray scrubber</td> </tr> </tbody> </table> <p>Process emissions are controlled by stacks provided at an elevation of 13 mts from the ground level. The six monthly reports are being sent to MoEF &amp; CC Regional Office along with compliance statement. A copy of the reports is enclosed in <b>Annexure II</b>.</p>	S.No	Source	APC Measures	1	Off gas from Elastomer and specialty plants storage tank vents	Packed bed counter flow water spray scrubber
S.No	Source	APC Measures						
1	Off gas from Elastomer and specialty plants storage tank vents	Packed bed counter flow water spray scrubber						
III	<p>One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the state authorities. Monitoring of ambient air quality and stack emissions</p>	<p>Conditions complied. We have tie up with an authorized laboratory to undertake the emission monitoring and ambient air quality survey, wherein the stack emission and waste water analysis are being done on monthly basis. The AAQ survey is done on all four locations [directions</p>						

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	shall be carried out regularly in consultation with TNPCB and report submitted to the TNPCB quarterly and to the ministry regional office at Bangalore half - yearly.	commensurate with the wind pattern] around the project boundary. Regular monitoring reports are submitted every month to the TNPCB and once in every Six months to Regional office of MoEF & CC.
	All the transfer points shall be connected with the bag filters to avoid fugitive emissions and vents of suitable height shall be provided for dispersion of pollutants. Adequate arrangements such as water sprinkling, asphaltting of the road etc. shall be made to control fugitive emissions in the work place environment, product, raw material storage areas. Fugitive emissions including VOCs shall be regularly monitored in the work zone environment and report submitted to the ministry/s regional office at Bangalore, TNPCB and CPCB. The emissions shall conform to the limits imposed by TNPCB.	Conditions complied. All the process transfer points have been duly addressed with extraction hoods connected to an air pollution control device [Scrubber].  As far as the process area the entire zone is properly ventilated and air exhaust systems with vents of suitable height provided.
IV		The road / pathways and the areas around the project boundary is asphalted and addressed with water sprinklers so as to mitigate the dust propagation if at all arises.  VOC's are regularly monitored, though, the usage of solvents in our process is very less and specific to only selective products. Monitoring report submitted to the ministry's regional office at Chennai, TNPCB and CPCB. The emissions results within the limits prescribed by TNPCB.
V	The company shall undertake following waste minimization measures: <ul style="list-style-type: none"> <li>• Metering of quantities of active ingredients to minimize waste.</li> <li>• Reuse of by- products from the process as raw materials or as raw material substitutes in other processes.</li> </ul>	We undertake the measures as suggested to minimize the waste during the process activities.  i) Measured quantity of solid handled & required quantity of

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	<ul style="list-style-type: none"> <li>• Maximizing recoveries.</li> <li>• Use of automated material transfer system to minimize spillage.</li> <li>• Use of / close Feed/ system into batch reactors.</li> </ul>	<p>liquid ingredients handled through pipelines to minimize wastage.</p> <p>ii) No By- products from the process.          iii) No By- products from the process.          iv) Automated material transfer system available to minimize spillage.          v) Close feed system into the batch reactor is in usage.</p>
VI	<p>Total water requirement from SIPCOT water supply and effluent generation shall not exceed 231m<sup>3</sup>/ day and 67m<sup>3</sup>/ day respectively. Permission for the drawl of 231-m<sup>3</sup>/ day water shall be obtained from the concerned department. The process effluent shall be treated in the effluent treatment plant (ETP) to meet the TNPCB norms and used for green belt development. Reverse osmosis plant shall be installed to recycle and reuse the maximum waste water and reduce water consumption. No effluent will be discharged outside the premises and zero discharge will be adopted. Domestic effluent shall be treated in septic tank followed by soak pit.</p>	<p>Our project requirement will not exceed 231 m<sup>3</sup>/day of fresh water which is obtained from SIPCOT. The agreement with SIPCOT was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai. No ground water is used.</p> <p>We ensure that the quantity of effluent generation not exceed 54 KLD. The effluent generated is treated in the ETP of capacity 70 KLD followed by two stage RO system and the treated water is reused in the process activities. Hence zero discharge concepts are compiled.</p> <p>The sewage shall be treated through STP of capacity 11 KLD and ensure to reuse the treated sewage for gardening within the premises</p>
VII	<p>During transfer of materials spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains</p>	<p>Dikes are provided for all Bulk storage to contain leaks / spills, if at all. Proper drains has been provided for domestic waste and storm drains</p>
VIII	<p>As reflected in the EIA / EMP report, the solid waste in the form of organic residue shall be incinerated in the incinerator. ETP sludge shall</p>	<p>Since TNPCB imposed restrictions on installation of incinerator and advised to join with the common facilitator no incinerator is installed for</p>

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	<p>be disposed of in the hazardous waste disposal facility of TNPCB. Waste oil shall be sold to the registered recyclers/ re-processors</p>	<p>in house disposal of the solid waste generated out of the facility production. The solid waste to be generated from the facility have been disposed through authorized facilitators along with ETP sludge after securing due authorization from TNPCB. Used oil generated from the unit stored in MS drums in kept separate shed and same is being sold to the registered recyclers/reprocesses. A copy of agreement with TSDF facility was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p>
IX	<p>Project authorities shall ensure valid membership to hazardous waste disposal facility of TNPCB all the time</p>	<p>We have already secured the membership and have also signed up with the authorized facilitator authorized by TNPCB. Disposal of Hazardous waste to the authorized facilitator is regularly done. A copy of agreement with TSDF facility was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p>
X	<p>The incinerator shall be installed as per the guidelines of CPCB to meet the standards / norms prescribed by the CPCB.</p>	<p>Since TNPCB imposed restrictions on installation of incinerator and advised to join with the common facilitator no incinerator is installed for in house disposal of the solid waste generated out of the facility production.</p>
XI	<p>As proposed, green belt shall be developed in 4.5 acre out of total 15 acre to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.</p>	<p>The green belt is maintained in the area of 4.98 acres earmarked in our plant premises. The photographs and the list of plant species grown are as per CPCB guidelines was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p>

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### B. General conditions

SNo	Conditions	Compliance
I	The project authority shall adhere to the stipulations made by T. N Pollution Control Board (TNPCB) and State Government	We have strictly adhered to the conditions as stipulated by TNPCB.
II	No further expansion or modification of the plant shall be carried out without prior approval of this ministry.	Condition Complied. Now we have proposed to further expand our Silicone derivatives production capacity in our site. For the reason, now we are in the process of applying for Environmental Clearance to SEIAA, Tamilnadu due to the increase in the production capacity as per the conditions stipulated in EIA notification, 2006. Also, we request EC Compliance certificate from MoEF & CC Regional Office, Chennai for our existing EC.
III	The Company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Condition Complied. Implemented Rainwater harvest from the rooftops with percolation pits to recharge the ground water, A open reservoir of capacity 2023 KL storage is also constructed to collect the runoff and use it for various applications within the facility after due treatment. The photograph of the rainwater and storm water drain was submitted on 28/12/2015 to MoEF & CC Regional Office, Chennai.
IV	The Company shall undertake eco-development measures including community welfare measures in the project area.	Condition Complied. Photographs of some of our CSR activities were submitted on 28/12/2015 to MoEF & CC Regional Office, Chennai.
V	The overall noise levels in and around the plant area shall be kept well	Conditions complied. Noise prone area such as DG sets are covered with

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	within the standards (85 dBA) by providing Noise control measures including acoustic hoods, Silencers,, enclosures ect on all sources of Noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rues, 1989 viz. 75 dBA (Day time and 70- dBA (Night time)	acoustic enclosures and once in a month noise monitoring around the plant is carried out by an external approved lab the results of which are submitted to TNPCB on monthly basis. The results are within the limits as prescribed under Environmental (Protection) Act, 1986 Rues, 1989 viz. 75 dBA (Day time) and 70 dBA (Night time). A copy of the Noise monitoring reports is enclosed in <b>Annexure II.</b>
VI	Proper Housekeeping and adequate Occupational Health programmes shall be taken up.	Condition Complied. Housekeeping is given top priority and frequently monitored the environment to ensure Housekeeping. Adequate Occupational Health programmes have been taken up.
VII	A Separate environmental Management cell to carry out various management and monitoring functions shall be setup under the control of Senior Executive.	Condition Complied. The Environmental Management Cell detail was submitted on 28/12/2015 to MoEF & CC Regional Office, Chennai.
VIII	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Condition Complied. The Occupational Health surveillance of the workers done on regular basis and records maintained as per the Factories Act.
IX	All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for chemical plants shall be implemented.	Conditions Complied.
X	Adequate funds shall be allocated towards capital cost and recurring cost/annum for environmental pollution control measures and judiciously used to implement the conditions stipulated by the Ministry	Separate funds are earmarked for environment management/pollution control measures for implementation of MoEF conditions. Also, We are not be diverted this funds for any other purpose.

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	<p>of Environment and forest as well as the State Government. The funds so provided shall not be diverted for any other purpose.</p>	
XI	<p>The Regional office of this Ministry at Bangalore / CPCB/TNPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be substituted to them regularly.</p>	<p>We have been submitting six monthly environmental compliance statement to MoEF Regional Office, Chennai and monthly monitoring reports are being submitted to TNPCB regularly.</p>
XII	<p>The project Authorities shall inform the Regional Office as well as Ministry, the date of Finance closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<p>Condition complied. Informed the Regional Office, Bangalore.</p>
XIII	<p>The Project proponent shall inform the public that the project has been accorded Environmental clearance by the Ministry and copies of the clearance letter are available with the T N Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This should be advertised within seven days from the date of issue of the clearance letter at least in tow local newspaper that are widely circulated in the region of which one shall be in the vernacular of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bangalore.</p>	<p>Condition Complied. The copy of the newspaper advertisement was submitted on 28/12/2015 to MoEF &amp; CC Regional Office, Chennai.</p>
6.0	<p>The ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities.</p>	<p>Noted.</p>

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	The condition shall be monitored by the Regional office of this ministry located at Bangalore.	
7.0	The ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.	Noted.
8.0	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	We have strictly adhered to the conditions as stipulated.
9.0	Any appeal against this environmental clearance shall lie with national Environment appellate Authority, if preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act 1997.	Noted.
10.0	The above conditions shall be enforced inter - alia under the provision of the water (prevention and control of pollution) Act, 1981 the Environment (protection) Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and rules.	We have strictly adhered to the conditions as stipulated.

## ANNEXURE - I

Momentive Performance Materials India Pvt Ltd											
Production Details of Period of April 17' - September 17'											
S.No	Product MT/month	CTO	Apr 17'	May '17	Jun 17'	Jul 17'	Aug 17'	Sep 17'			
1	Silicones Fluids-(Aminos/PDMS)	141	105.695	83.605	142.168	135.694	122.72	130.126			
2	(AB)n/Quarts	78	15.481	67.046	4.333	23.005	32.903	52.431			
3	Silicone Emulsion	156	158.73	114.328	103.041	99.905	50.101	59.808			
4	Hard Coats	27	10.236	1.800	11.486	9.900	5.012	12.060			
5	Silicone Polymer & Elastomers- (HCR)	135	34.493	32.454	29.593	22.785	10.914	4.092			
6	Silicone sealant Repacking	125	9.943	6.412	26.846	24.117	27.589	65.779			
7	Silicone Surfactants (UA/Personal Care blend)	243	329.147	318.345	307.049	298.499	198.532	303.369			
	By-products Details										
1	Octa Methyl Cyclo Tetra Siloxane(OMCTS)/Poly dimethyl siloxane (PDMS)	150	65.624	92.680	91.919	41.992	16.515	58.347			
2	Heat Cured Rubber (HCR) Gum	49									
	<b>Total</b>	<b>1104</b>	<b>729.349</b>	<b>716.670</b>	<b>716.435</b>	<b>655.897</b>	<b>464.286</b>	<b>686.012</b>			