

SPEED POST

J 13012/06/2009-IA.II (T)

**Government of India  
Ministry of Environment & Forests**



Ph: 011-2436 3973  
e-mail:plahujarai@yahoo.com  
Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110 003  
Dated: June 3, 2011

To

M/s Maruti Suzuki India Ltd.  
Gurgaon Plant  
Palam Gurgaon Road  
Gurgaon – 122 015  
Haryana

***Sub: Expansion of 77.5 MW to 83.0 MW by addition of 6.0 MW  
Gas Based Captive Power Plant at Gurgaon Plant, in  
Haryana - reg. Environmental Clearance.***

Sir,

The undersigned is directed to refer to your letter no. MSIL:PDRS:EGM:10-11:0074, dated 18.01.2011 on the subject mentioned above seeking environmental clearance under the provisions of EIA Notification, 2006. The Ministry of Environment & Forests has examined the application.

2. It has been noted that the proposal is for expansion of existing 77.5 MW unit by addition of 6.0 MW Gas Based Captive Power Plant at Gurgaon, in Gurgaon Distt., in Haryana. The existing units are 3x20 MW Gas Turbines and 17.5 MW Steam Turbine. Land requirement will be 0.068 hectares, which is within the existing Maruti Plant which is an Industrial area. The co-ordinates of the site are at Latitude 28°29'32.09" N to 28°29'55.58"N and Longitude 77°03'37.43" E to 77°04'36.49"E. Fuel will be natural gas. Natural Gas requirement will be 0.0279 MMSCMD. Water requirement will be 0.002 MLD and will be met from the existing water supplied by Haryana Development Authority. There are no national parks, wildlife sanctuaries, heritage sites, tiger/biosphere reserves etc. within 10 km of the site. Cost of the project will be Rs 30.0 Crores.

3. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006. The proposal is a 'B' Category project. Due to location of project within 10 Km of inert-state boundary, Expert Appraisal Committee (Thermal) in the Ministry has appraised the project as per General Conditions of EIA Notification, 2006.

4. Based on the information submitted by you as at para no.2 above and others and presentation made by you before the Expert Appraisal Committee (Thermal) in the 22<sup>nd</sup> Meeting held during April 4-5, 2011, the Ministry of Environment and Forests hereby *accords environmental clearance* to the above project under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the following Specific and General conditions:

**A. Specific Conditions:**

- i) In case fuel for running the power plant is proposed to be changed from natural gas to other fuel (liquid or solid) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee (Thermal Power).
- ii) Mass Spectrometer based Helium detector to detect the gas leakage shall be installed.
- iii) Concentration for photochemical oxidants shall be monitored along with NO<sub>x</sub> and permanent monitoring stations shall be installed at appropriate location in consultation with the Central / State pollution Control Board.
- iv) COC of 5.0 shall be adopted.
- v) No ground water shall be extracted for the project work at any stage.
- vi) It shall be ensured that the area drainage is not disturbed due to the proposed expansion.
- vii) The treated effluents conforming to the prescribed standards only shall be reused to the extent possible and excess discharged. Arrangements shall be made that effluents and storm water do not get mixed.
- viii) A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.
- ix) Monitoring of ground and surface water quality (if any nearby) shall be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction

of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.

- x) A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within **a period of three months** from the date issue of clearance and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Ministry.
- xi) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires especially during summer season. Measures taken with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- xii) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- xiii) NO<sub>x</sub> emission from each Gas Turbine shall not exceed 50 ppm.
- xiv) Stacks of 70 m shall be provided with continuous online monitoring equipments. Exit velocity of flue gases shall not be less than 22 m/sec.
- xv) Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- xvi) An amount of Rs 0.12 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 0.024 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.
- xvii) CSR scheme shall be identified based on need based assessment in and around the villages within 5 km of the site and in constant

consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. As part of CSR vocational training programme for possible self employment and jobs shall be imparted to identify villagers free of cost.

- xviii) It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
- xix) Green Belt consisting of 3 tiers of plantations around the plant with adequate tree density not less than 2500 per ha and survival rate not less than 80 % shall be developed. The green belt developed shall not be less than 33% of the total area.

**B. General Conditions:**

- i) Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS (if any) shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
- ii) First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- iii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- v) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the

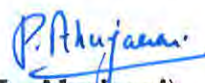


proposal. The clearance letter shall also be put on the website of the Company by the proponent.

- vi) An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the organization.
- vii) The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their 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 SPCB.
- viii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
- ix) **The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.**
- x) Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. **Criteria pollutants levels including NO<sub>x</sub> (from stack & ambient air) shall be displayed at the main gate of the power plant and in public domain.**
- xi) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.

- xii) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- xiii) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.
4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.
5. The environmental clearance accorded **shall be valid for a period of five years** to start operations by the power plant.
6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
7. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

Yours faithfully,

  
(Dr. P.L. Ahujarai)  
Scientist 'F'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary (Environment), Forests and Environment Department Government of Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.

4. The Chairman, Haryana Pollution Control Board, .C-11, Sector-6, Panchkulla.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
6. The Chief Conservator of Forests (C), Regional Office (NZ), Ministry of Environment & Forests, Sector -31A, Dakshin Marg, Chandigarh - 160 030.
7. The District Collector, Gurgaon District, Govt. of Haryana.
8. The Director (EI), MOEF.
9. Guard file.
10. Monitoring file.

(Dr. P.L. Ahujarai)  
Scientist 'F'

MSIL:CUIP:ESEC:ENV:20-21:079

09-Nov-2020

To  
Ministry of Environment, Forest and Climate Change,  
Northern Regional Office  
Bays No 24-25, Sector – 31 A,  
Dakshin Marg  
Chandigarh

**Sub:** Half yearly report for Compliance of Expansion of 77.5 MW to 83.5 MW by addition of 6.0 MW Gas Based Captive Power Plant at Gurgaon Plant, Haryana by M/s Maruti Suzuki India Ltd.

**Ref:** Environment Clearance Letter from MoEF – J-13012/06/2009-IA-II(T) dated :03-June-2011

Dear Sir,

Enclosed please find herewith the half yearly compliance report for the environment clearance.

Thanking You.

Yours Faithfully

 **MADAN BANSODE**  
**DGM (ENVIRONMENT)**  
**MARUTI SUZUKI INDIA LTD.**

Madan Ankush Bansode  
Deputy General Manager (Environment)  
Maruti Suzuki India Limited, Gurgaon.

CC: 1. Haryana State Pollution Control Board, Panchkula  
2. Central Pollution Control Board, Lucknow

**MARUTI SUZUKI INDIA LIMITED****Head Office:**

Maruti Suzuki India Limited,  
1, Nelson Mandela Road, Vasant Kunj,  
New Delhi - 110070, India.  
Tel: 011- 46781000, Fax: 011-46150275/46150276  
E-mail id: contact@maruti.co.in, www.marutisuzuki.com

**Gurgaon Plant:**

Maruti Suzuki India Limited,  
Old Palam Gurgaon Road,  
Gurgaon - 122015, Haryana, India.  
Tel: 0124-2346721, Fax: 0124-2341304

**Manesar Plant:**

Maruti Suzuki India Limited,  
Plot no.1, Phase - 3A, IMT Manesar,  
Gurgaon - 122051, Haryana, India.  
Tel: 0124-4884000, Fax: 0124-4884199

**MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA**

**Ref : Environment clearance letter from MOEF - No. J-13012/06/2009-IA-II (T) dated :03-June-2011**

S. No	Stipulated Condition in Environment Clearance	Compliance status
i	In case fuel for running the power plant is proposed to be changed from natural gas to other fuel (liquid or solid) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee ( Thermal Power).	Natural Gas is used as primary fuel. HSD is used as pilot fuel and standby fuel.
ii	Mass Spectrometer based Helium detector to detect the gas leakage shall be installed.	Installed
iii	Concentration for photochemical oxidants shall be monitored along with NOx and permanent monitoring stations shall be installed at appropriate location in consultation with the Central / State pollution Control Board.	Permanent monitoring stations installed.
iv	COC of 5.0 shall be adopted	Closed cycle air cooled cooling towers are used.
v	No ground water shall be extracted for the project work at any stage.	Canal water supply is used for the proposed project
vi	It shall be ensured that the area drainage is not disturbed due to the proposed expansion.	Maruti Suzuki India Ltd is located in the industrial area and the proposed thermal power plant is located in this premises and area drainage has not been disturbed
vii	The treated effluents conforming to the prescribed standards only shall be reused to the extent possible and excess discharged. Arrangements shall be made that effluents and storm water do not get mixed.	There is no effluent generation as closed cycle air cooled cooling tower is used.
viii	A sewage treatment plant shall be provided ( as applicable) and the treated sewage shall be used for raising greenbelt / plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.	Sewage treatment plant is already installed. The treated sewage is recycled for manufacturing process and horticulture.
ix	Monitoring of ground and surface water quality (if any nearby) shall be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	There is no surface water source. Ground water quality is monitored annually and report is attached at Annex - 1
x	A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization or appropriate rainwater harvesting technology within a period of three month from the date issue of clearance and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Ministry.	Rain water harvesting structures are already constructed in premises.
xi	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires especially during summer season. Measures taken with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Safety measures provided in the EIA report shall be implemented.
xii	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like earplugs/ ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy / less noisy areas.	Noise level is monitored in the area. Reports are attached in Annex - 2. PPE like earplug / ear muffs are provided to person working in high noise area. Periodic audiometric records of persons working in area are maintained.
xiii	NOx emission from each Gas Turbine shall not exceed 50 ppm.	Complied. Reports are attached in Annex - 3.
xiv	Stacks of 70 m shall be provided with continuous online monitoring equipments. Exit velocity of flue gases shall not be less than 22 m/sec.	70 m Chimney installed with continuous online monitoring equipments.

**MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA**

**Ref : Environment clearance letter from MOEF - No. J-13012/06/2009-IA-II (T) dated :03-June-2011**

S. No	Stipulated Condition in Environment Clearance	Compliance status
xv	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , RSPM (PM <sub>10</sub> & PM <sub>2.5</sub> ) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the regional Office of this Ministry. The data shall also be put on the website of the company.	Ambient air quality are monitored quarterly and reports are placed at Annex - 4.
xvi	An amount of Rs 0.12 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 0.024 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Complied. Detailed report placed at Annex - 5.
xvii	CSR scheme shall be identified based on need based assessment in and around the village within 5 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in project after imparting relevant training shall be also undertaken. As part of CSR vocational training programme for possible self employment and jobs shall be imparted to identify villagers free of cost.	
xviii	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	
xix	Green Belt consisting of 3 tiers of plantations around the plant with adequate tree density not less than 2500 per ha and survival rate not less than 80% shall be developed. The green belt developed shall not be less than 33% of the total area.	Green belt of MSIL is placed at Annex - 6.

**MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA**

**Ref : Environment clearance letter from MOEF - No. J-13012/06/2009-IA-II (T) dated :03-June-2011**

S. No	Stipulated Condition in Environment Clearance	Compliance status
	<b>General Condition in Environment Clearance</b>	
i	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/ LSHS (if any) shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	For stand by fuel, existing HSD storage tanks 300 KL x 2 Nos is utilized. License is available for these storage tanks
ii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Are provided during construction phase
iii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	No construction labour stayed at the site during construction.
iv	The project proponent shall advertise in at least two local newspapers widely circulated in region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http:// envfor.nic.in</a> .	Advertised in two local newspapers. Copy of the notice attached herewith at Annex - 7.
v	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal corporation, urban local body and the Local NGO, if any, from whom suggestions/ representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied
vi	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the organization.	A separate Environment Management department has been created.
vii	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their 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 SPCB.	Provided.
viii	The project proponent shall also submit six monthly reports on the status of the stipulated EC conditions including results of monitored data ( both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal OFFICE of CPCB and the SPCB	Six monthly compliance report is submitted in by June and December of every year.
ix	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and forests.	

**MARUTI SUZUKI INDIA LIMITED, GURGAON,HARYANA**

**Ref : Environment clearance letter from MOEF - No. J-13012/06/2009-IA-II (T) dated :03-June-2011**

S. No	Stipulated Condition in Environment Clearance	Compliance status
x	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx(from stack & ambient air) shall be displayed at the main gate of the power plant and in public domain.	Provided
xi	Separate funds shall be allocated for implementation or environmental protection measures measured along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measured shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Funds allocated for environment protection measures are not diverted.
xii	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Maruti Suzuki India Ltd is located in the industrial area and the proposed thermal power plant is located inside the premises. No Land development is required. Plant has been commissioned.
xiii	Full cooperation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry at Bangalore / CPCB / SPCB who would be monitoring the compliance of environmental status.	Full co-operation will be extended to the officers from MoEFCC/CPCB/SPCB.



## DATA SHEET

1.	Project Type	<del>River Valley/Mining/Industry</del> <del>/Refinery/Transportation Tourism</del> / Thermal / <del>Nuclear/Construction Projects</del>
2.	Name of the Project:	Expansion of captive thermal power plant from 77.5 MW to 83.5 MW at Maruti Suzuki India Limited, Gurgaon
3.	Clearance letter (s)/ O.M No. & dates:	J-13012/06/2009-IA.II(T) dated 03.06.2011
4.	Location:  a) District (s) b) State (s) c) Latitudes/Longitudes	District: Gurgaon State: Haryana Latitude: 28°29'42.9"N Longitude: 77°04'28.9"E
5.	Address for correspondence:  a) Address for Correspondence          b) Address of executive Project Incharge	Mr Madan Ankush Bansode Deputy General Manager – Environment Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Madan.Bansode@maruti.co.in">Madan.Bansode@maruti.co.in</a> Phone 0124 – 2346721 ~ 30 Extn : 3583  Mr. Alok Bansal Vice President – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Alok.Bansal@maruti.co.in">Alok.Bansal@maruti.co.in</a> Phone 0124 – 2346721 ~ 30
6.	Salient Features: a) of the project b) of the environmental management plans	Salient Features of the project and Environmental Management Plant details is enclosed in Annexure A
7.	Break up of the project area: a) Submergence area : Forest & Non-forest  b) Others	Not Applicable  The project will be located within MSIL premises in the industrial area.
8.	Break up of the project affected population with enumeration of those losing house /dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/artisans.  a) SC/ST/Adivasis  b) Others	Not Applicable

	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out, give details and year of survey)	
9.	<p>Financial details:</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year or price reference.</p> <p>b) Allocations made for environmental management plans with item wise and year wise break up.</p> <p>c) Benefit cost ratio/Internal Rate of Return and the year of assessment.</p> <p>d) Whether (c) includes the cost of environment management as shown in b) above.</p> <p>e) Actual expenditure incurred on the project so far.</p> <p>f) Actual expenditure incurred on the environmental management plans so far:</p>	<p>Original: 30 Cr.</p> <p>Included above</p> <p>-</p> <p>-</p> <p>-</p> <p>Rs. 6.67 Cr.</p>
10.	<p>Forest land requirement :</p> <p>a) The status of approval for diversion of forest land for non-forestry use.</p> <p>b) The status of clear felling.</p> <p>c) The status of compensatory afforestation of clear felling. If any.</p> <p>d) Comments on the viability &amp; sustainability of compensatory afforestation programmes in the light of actual field experience so far.</p>	Not Applicable
11.	The status of clear feeling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	Not Applicable
12.	<p>Status of construction.</p> <p>a) date of commencement (actual and/ or planned)</p> <p>b) Date of completion (actual and / or planned)</p>	<p>Jun' 11</p> <p>Jan' 13</p>
13.	Reasons for the delay if the project is yet to start:	Not Applicable

**SALIENT FEATURES OF PROJECT:**

- |                        |   |  |
|------------------------|---|--|
| 1. Name of the Project | : | Gas Engine at Maruti Suzuki India Limited,<br>Gurgaon, Haryana |
| 2. Capacity            | : | 6 MW   |
| 3. Location            | : | Maruti Suzuki India Limited, Gurgaon.                          |
| 4. Total project cost  | : | Rs. 30 Crores  |
| 5. Land Area           | : | 680 sq m   |

**ENVIRONMENTAL MANAGEMENT PLAN**

***Water Pollution control***

- The Gas Engine is air cooled hence the waste water generated shall be very minimum. Existing ETP will treat the effluent arising out of the plant operation and the treated waste water will be reused.

***Air Pollution control:***

- Stack of the Gas Engine shall be maintained at 70m.
- The NO<sub>x</sub> emissions will be below 50 ppm.

***Noise Pollution Control***

- The noise from Gas Engine will be controlled by acoustic enclosures. The noise level at the periphery of factory/premises will not exceed the ambient noise level.

***Ground Water***

- Rain water harvesting lagoons have been constructed to take care of surface run off and recharge the aquifers.

***Green belt development***

- Adequate green area with local area species having capacities to reduce SPM and noise levels.



# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES

Annexure 1



**FARE LABS Private Limited**

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,

Gurgaon-122002, Haryana, INDIA

Phone : +91-124-4223207, 4034205

Fax : +91-124-4036038, Cell : +91-95992 21227

E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024

ULR Code: TC5503 20 2 00009471 F

Report Date: 19/09/2020

Sample Receipt Date: 14/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Samples

Brand Name, if any

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **Tubewell Water** (One Sample)

: None

: None

: 5 LitreX2 Pet Can, 500ml Sterilized bottle

: 14/09/2020

: 19/09/2020

: FL/SOP/B/D-1

: 14/09/2020

: Mr. Ankur (FARELABS Representative)

#### Analysis Report



TC-5503

**Physical Description:** Water is clear without any sediments, suspended particles & extraneous matter

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012		Protocol
			Acceptable Limit	Permissible Limit	
Chemical Analysis:					
1	Colour, Hazen	5	5 Max.	15	IS:3025 (P-4)
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)
3	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P-7&8)
4	Turbidity, NTU	0.72	1.0 Max.	5	IS:3025 (P-10)
5	pH Value	7.79	6.5 – 8.5	No Relaxation	IS:3025 (P-11)
6	Total Dissolved Solids, mg/L	945	500 Max.	2000	IS:3025 (P-16)
7	Ammonia, mg/L	ND, [LOQ - 0.01]	0.5 Max.	No Relaxation	APHA 23 <sup>rd</sup> Ed.
8	Anionic detergents (as MBAS), mg/L	ND, [LOQ - 0.01]	0.2 Max.	1.0	APHA 23 <sup>rd</sup> Ed.
9	Chloride (as Cl), mg/L	379.88	250 Max.	1000	IS:3025 (P-32)
10	Calcium (as Ca), mg/L	43.2	75 Max.	200	IS:3025 (P-40)
11	Cyanide (as CN), mg/L	ND, [LOQ - 0.03]	0.05 Max.	No Relaxation	APHA 23 <sup>rd</sup> Ed.
12	Chloramines (as Cl <sub>2</sub> ), mg/L	ND, [LOQ - 0.05]	4 Max.	No Relaxation	APHA 23 <sup>rd</sup> Ed.
13	Fluoride (as F), mg/L	0.18	1.0 Max.	1.5	APHA 23 <sup>rd</sup> Ed.
14	Magnesium (as Mg), mg/L	55.40	30 Max.	100	APHA 23 <sup>rd</sup> Ed.
15	Nitrate (as NO <sub>3</sub> ), mg/L	6.20	45 Max.	No Relaxation	APHA 23 <sup>rd</sup> Ed.
16	Phenolic substances (as C <sub>6</sub> H <sub>5</sub> OH), mg/L	ND, [LOQ - 0.0005]	0.001 Max.	0.002	IS:3025 (P-43)
17	Residual free Chlorine, mg/L	ND, [LOQ - 0.1]	0.2 Min.	1	APHA 23 <sup>rd</sup> Ed.
18	Sulphate (as SO <sub>4</sub> ), mg/L	26.41	200 Max.	400	APHA 23 <sup>rd</sup> Ed.
19	Sulphide (as H <sub>2</sub> S), mg/L	ND, [LOQ - 0.005]	0.05 Max.	No Relaxation	APHA 23 <sup>rd</sup> Ed.
20	Total Alkalinity (as CaCO <sub>3</sub> ), mg/L	295	200 Max.	600	IS:3025 (P-23)
21	Total Hardness (as CaCO <sub>3</sub> ), mg/L	336	200 Max.	600	IS:3025 (P-21)

Testing Section

Prepared By

Nayla Tazeen

Checked By

Satish Kumar Singh

(AUTHORISED SIGNATORY)

D Mathur, Director

Page 1 of 6

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FL / T / GEN / F-05



ISO 9001:2015



ISO 14001:2015



OHSAS 18001:2007



ISO / IEC 27001:2013



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TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



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Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024

ULR Code: TC5503 20 2 00009471 F

Report Date: 19/09/2020

Sample Receipt Date: 14/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Samples

Brand Name, if any

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: Tubewell Water (One Sample)

: None

: None

: 5LitreX2 Pet Can, 500ml Sterilized bottle

: 14/09/2020

: 19/09/2020

: FL/SOP/B/D-1

: 14/09/2020

: Mr. Ankur (FARELABS Representative)



TC-5503

### Analysis Report

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012		Protocol
			Acceptable Limit	Permissible Limit	
Metals Analysis:					
1	Aluminium (as Al), mg/L	ND, [LOQ - 0.01]	0.03 Max.	0.2	FL/SOP/ICPMS-01
2	Arsenic (as As), mg/L	ND, [LOQ - 0.002]	0.01 Max.	No Relaxation	FL/SOP/ICPMS-01
3	Barium (as Ba), mg/L	ND, [LOQ - 0.01]	0.7 Max.	No Relaxation	FL/SOP/ICPMS-01
4	Boron (as B), mg/L	ND, [LOQ - 0.01]	0.5 Max.	2.4	FL/SOP/ICPMS-01
5	Cadmium (as Cd), mg/L	ND, [LOQ - 0.001]	0.003 Max.	No Relaxation	FL/SOP/ICPMS-01
6	Chromium (as Cr), mg/L	ND, [LOQ - 0.005]	0.05 Max.	No Relaxation	FL/SOP/ICPMS-01
7	Copper (as Cu), mg/L	ND, [LOQ - 0.01]	0.05 Max.	1.5	FL/SOP/ICPMS-01
8	Iron (as Fe), mg/L	0.063	1.0 Max.	No Relaxation	FL/SOP/ICPMS-01
9	Lead (as Pb), mg/L	ND, [LOQ-0.002]	0.01 Max.	No Relaxation	FL/SOP/ICPMS-01
10	Manganese (as Mn), mg/L	ND, [LOQ - 0.005]	0.1 Max.	0.3	FL/SOP/ICPMS-01
11	Molybdenum (as Mo), mg/L	ND, [LOQ - 0.002]	0.07 Max.	No Relaxation	FL/SOP/ICPMS-01
12	Mercury (as Hg), mg/L	ND, [LOQ - 0.0005]	0.001 Max.	No Relaxation	FL/SOP/ICPMS-01
13	Nickel (as Ni), mg/L	ND, [LOQ - 0.002]	0.02 Max.	No Relaxation	FL/SOP/ICPMS-01
14	Selenium (as Se), mg/L	ND, [LOQ - 0.005]	0.01 Max.	No Relaxation	FL/SOP/ICPMS-01
15	Silver (as Ag), mg/L	ND, [LOQ - 0.002]	0.1 Max.	No Relaxation	FL/SOP/ICPMS-01
16	Zinc (as Zn), mg/L	ND, [LOQ - 0.01]	5.0 Max.	15	FL/SOP/ICPMS-01

**Note:** FL/SOP/ICPMS-01, Based on APHA 23<sup>rd</sup> Ed. 2017

Testing Section

Prepared By

Omish Kumar

Checked By

Dr. C.S. Joshi

(AUTHORISED SIGNATORY)

D Mathur, Director

Page 2 of 6

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FL / T / GEN / F-05



### TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
 Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024  
 ULR Code: TC5503 20 2 00009471 F  
 Report Date: 19/09/2020  
 Sample Receipt Date: 14/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Samples	: Tubewell Water (One Sample)
Brand Name, if any	: None
Location	: None
Sample Quantity & Packaging	: 5LitreX2 Pet Can, 500ml Sterilized bottle
Test Started on	: 14/09/2020
Test Completed	: 19/09/2020
Method of Sampling	: FL/SOP/B/D-1
Date of Sampling	: 14/09/2020
Sample Collected by	: Mr. Ankur (FARELABS Representative)



#### Analysis Report

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012		Protocol
			Acceptable Limit	Permissible Limit	
1	Mineral Oil, mg/L	ND, [LOQ-0.01]	0.5 Max.	No Relaxation	IS-3025 (P-39)
2	Polynuclear aromatic hydrocarbons (as PAHs), mg/L	ND, [LOQ-0.00001]	0.0001 Max.	No Relaxation	FL/SOP/HPLC-75
3	Polychlorinated Biphenyls (PCBs), mg/L	ND, [LOQ-0.00001]	0.0005 Max.	No Relaxation	FL/SOP/GCMS/P-01
4	<b>Trihalomethanes (THM):</b>				
	Bromoform, mg/L	ND, [LOQ-0.005]	0.1 Max.	No Relaxation	FL/SOP/GC-26
	Dibromochloromethane, mg/L	ND, [LOQ-0.005]	0.1 Max.	No Relaxation	FL/SOP/GC-26
	Bromodichloromethane, mg/L	ND, [LOQ-0.005]	0.06 Max.	No Relaxation	FL/SOP/GC-26
	Chloroform, mg/L	ND, [LOQ-0.005]	0.2 Max.	No Relaxation	FL/SOP/GC-26

**Note:** FL/SOP/HPLC-75, FL/SOP/GCMS/P-01 Based on AOAC 990.06; FL/SOP/GC-26 Based on APHA 23<sup>rd</sup> Ed. 2017

Testing Section

Prepared By  
 Surbhi Kumari

Checked By  
 Mithlesh Kumar

Page 3 of 6

(AUTHORISED SIGNATORY)  
 D Mathur, Director

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## TEST REPORT

**Issued to: MSIL Gurgaon Plant**

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024

ULR Code: TC5503 20 2 00009471 F

Report Date: 19/09/2020

Sample Receipt Date: 14/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample & No. of Samples

Brand Name, if any

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **Tubewell Water** (One Sample)

: None

: None

: 5Litrex2 Pet Can, 500ml Sterilized bottle

: 14/09/2020

: 19/09/2020

: FL/SOP/B/D-1

: 14/09/2020

: Mr. Ankur (FARELABS Representative)



TC-5503

## Analysis Report

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012		Protocol
			Acceptable Limit	Permissible Limit	
Pesticide Residues, µg/L					
1	Alachlor	ND, [LOQ- 0.01]	20	No Relaxation	FL/SOP/GCMS/P-01
2	α -HCH	ND, [LOQ- 0.01]	0.01	No Relaxation	FL/SOP/GCMS/P-01
3	β – HCH	ND, [LOQ- 0.01]	0.04	No Relaxation	FL/SOP/GCMS/P-01
4	γ – HCH	ND, [LOQ- 0.01]	2	No Relaxation	FL/SOP/GCMS/P-01
5	δ –HCH	ND, [LOQ- 0.01]	0.04	No Relaxation	FL/SOP/GCMS/P-01
6	o,p- DDD	ND, [LOQ- 0.01]	1	No Relaxation	FL/SOP/GCMS/P-01
7	p,p- DDD	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
8	o,p-DDE	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
9	p,p-DDE	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
10	o,p-DDT	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
11	p,p-DDT	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
12	Endosulfan - α	ND, [LOQ- 0.01]	0.4	No Relaxation	FL/SOP/GCMS/P-01
13	Endosulfan – β	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
14	Endosulfan Sulfate	ND, [LOQ- 0.01]			FL/SOP/GCMS/P-01
15	Butachlor	ND, [LOQ- 0.01]	125	No Relaxation	FL/SOP/GCMS/P-01

Testing Section

Prepared By

Checked By

(AUTHORISED SIGNATORY)

Nidhi

Mithilesh Kumar

Page 4 of 6

D Mathur, Director

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## TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
 Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024  
 ULR Code: TC5503 20 2 00009471 F  
 Report Date: 19/09/2020  
 Sample Receipt Date: 14/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample & No. of Samples	: Tubewell Water (One Sample)
Brand Name, if any	: None
Location	: None
Sample Quantity & Packaging	: 5LitreX2 Pet Can, 500ml Sterilized bottle
Test Started on	: 14/09/2020
Test Completed	: 19/09/2020
Method of Sampling	: FL/SOP/B/D-1
Date of Sampling	: 14/09/2020
Sample Collected by	: Mr. Ankur (FARELABS Representative)



## Analysis Report

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012		Protocol
			Acceptable Limit	Permissible Limit	
Pesticide Residues, µg/L					
16	Chlorpyrifos	ND, [LOQ- 0.01]	30	No Relaxation	FL/SOP/GCMS/P-01
17	Phorate	ND, [LOQ- 0.01]	2	No Relaxation	FL/SOP/GCMS/P-01
18	Methyl parathion	ND, [LOQ- 0.01]	0.3	No Relaxation	FL/SOP/GCMS/P-01
19	Malathion	ND, [LOQ- 0.01]	190	No Relaxation	FL/SOP/GCMS/P-01
20	Aldrin	ND, [LOQ- 0.01]	0.03	No Relaxation	FL/SOP/GCMS/P-01
21	Dieldrin	ND, [LOQ- 0.01]	0.03	No Relaxation	FL/SOP/GCMS/P-01
22	Ethion	ND, [LOQ- 0.01]	3	No Relaxation	FL/SOP/GCMS/P-01
23	Isoproturon	ND, [LOQ- 0.01]	9	No Relaxation	FL/SOP/LCMS/P-01
24	2,4- D	ND, [LOQ- 0.01]	30	No Relaxation	FL/SOP/LCMS/P-01
25	Atrazine	ND, [LOQ- 0.01]	2	No Relaxation	FL/SOP/LCMS/P-01
26	Monocrotophos	ND, [LOQ- 0.01]	1	No Relaxation	FL/SOP/LCMS/P-01

**Note:** FL/SOP/GCMS/P-01, FL/SOP/LCMS/P-01 Based on AOAC 990.06

Testing Section

Prepared By  
Nidhi

Checked By  
Mithilesh Kumar

Page 5 of 6

(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
 Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/W/14092020-024  
 ULR Code: TC5503 20 2 00009471 F  
 Report Date: 19/09/2020  
 Sample Receipt Date: 14/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Samples	: Tubewell Water (One Sample)
Brand Name, if any	: None
Location	: None
Sample Quantity & Packaging	: 5LitreX2 Pet Can, 500ml Sterilized bottle
Test Started on	: 14/09/2020
Test Completed	: 19/09/2020
Method of Sampling	: FL/SOP/B/D-1
Date of Sampling	: 14/09/2020
Sample Collected by	: Mr. Ankur (FARELABS Representative)



### Analysis Report

S. No.	Parameter	Test Result	Specifications as per IS-10500:2012	Protocol
<b>Microbiological Analysis:</b>				
1	Total Coliform, per 100ml	Absent	Shall not be detectable in any 100ml sample	IS-15185
2	E. coli, per 100ml	Absent		
3.	Faecal coliform, MPN per 100ml	<2*		IS:1622

ND= Not Detected; LOQ= Limit of Quantification

**Inference:** The tested sample of water **conforms** to the specifications of drinking water (IS-10500:2012).

Testing Section

Prepared By  
 Suman Yadav

Checked By  
 Dr. M. Tripathi, QM

Page 6 of 6

(AUTHORISED SIGNATORY)  
 Ms. Meenakshi Bakshi, Scientist-B

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# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES

Annexure 2



**FARE LABS Private Limited**

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Gurgaon-122002, Haryana, INDIA

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/14092020-006

ULR Code: TC5503 20 3 00005729 F

Report Date: 21/09/2020

Sample Receipt Date: 14/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample : **NG Noise**  
Date of Monitoring : 14/09/2020  
Time of Monitoring : 01:00 PM  
Purpose of Monitoring : To Check Noise Level  
Instrument Used : Sound Level Meter  
Test Protocol Followed : CPCB Guidelines  
Name of the emission source monitoring : NG DG Set



TC-5503

### Analysis Report

S. No.	Parameters	Test Results dB(A)	Permissible limit	Test Method
1	NG Noise level, near the Acoustic Enclosure,	98.4	NA	FL/SOP/ENV-08
2	NG Noise level at 1 metre from the enclosure surface,	73.1	75 Max.	FL/SOP/ENV-08

NA= Not Applicable; CPCB = Central Pollution Control Board

**Inference:** The Noise level for the above mentioned DG set **conform** as per the Environment (Protection) Rules, 1986.

Testing Section

Prepared By:  
Arun Chaturvedi

Checked By:  
Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

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FL/T/GEN/F05



# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES

Annexure 3



**FARE LABS Private Limited**

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,

Gurgaon-122002, Haryana, INDIA

Phone : +91-124-4223207, 4034205

Fax : +91-124-4036038, Cell : +91-95992 21227

E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
Old Palam Gurgaon Road,  
122015, Haryana

J.O. No.: FL/ENV/14092020-011  
ULR Code: TC5503 20 3 00005734 F  
Report Date: 21/09/2020  
Sample Receipt Date: 15/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the sample	: <b>Stack Emission Monitoring</b>
Date of sampling	: 14/09/2020
Time of sampling	: 01:15 PM
Test started on	: 15/09/2020
Test Completed On	: 21/09/2020
Purpose of monitoring	: To Check Pollution Load
Name of the emission source monitoring	: NG DG Set
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Natural Gas DG (Wartsila Finland)
Rated capacity	: 6 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 70
Internal Diameter of the stack (m)	: 1.114
Sampling duration (min)	: 54



Certificate No. TC-5503

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 182
Ambient Air Temperature °C	: 36
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 14760

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	34.50	NA	IS-11255 (P-1)
2	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	26.42	50	IS-11255 (P-7)
3	Carbon Monoxide (as CO), mg/Nm <sup>3</sup>	52.36	NA	IS-13270

# As provided by Customer.

Testing Section

Prepared By:  
Arun Chaturvedi

Checked By:  
Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

Page 1 of 2

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## FARE LABS Private Limited

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Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
Old Palam Gurgaon Road,  
122015, Haryana

J.O. No.: FL/ENV/14092020-011  
ULR Code: TC5503 20 3 00005734 F  
Report Date: 21/09/2020  
Sample Receipt Date: 15/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the sample	: <b>Stack Emission Monitoring</b>
Date of sampling	: 14/09/2020
Time of sampling	: 01:15 PM
Test started on	: 15/09/2020
Test Completed On	: 21/09/2020
Purpose of monitoring	: To Check Pollution Load
Name of the emission source monitoring	: NG DG Set
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Natural Gas DG (Wartsila Finland)
Rated capacity	: 6 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 70
Internal Diameter of the stack (m)	: 1.114
Sampling duration (min)	: 54



Certificate No. TC-5503

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 182
Ambient Air Temperature °C	: 36
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 14760

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Non Methane Hydrocarbons, mg/Nm <sup>3</sup>	20.5	NA	FL/SOP/GC-24

# As provided by Customer.

Testing Section

Prepared By:  
Surbhi kumari

Checked By:  
Rita Singh

Page 2 of 2

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-016

ULR Code: TC5503 20 3 00005750 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 14/09/2020

: 03:00 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near DM Plant

: 1.18

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	59.74	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	98.54	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	09.62	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	05.46	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.28	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	30.48	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	40.18	100	IS-5182(P-9)

Testing Section

Prepared By:  
Arun Chaturvedi

Checked By:  
Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-016

ULR Code: TC5503 20 3 00005750 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 14/09/2020
Time of Sampling	: 03:00 PM
Test started on	: 15/09/2020
Test Completed On	: 21/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near DM Plant
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.18
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-016

ULR Code: TC5503 20 3 00005750 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (LPM)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 14/09/2020

: 03:00 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near DM Plant

: 0.2

: 35

: 01 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46
2	Non methane Hydrocarbons (as NMHC) ppm	2.62	NA	FL/SOP/GC-24

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-016

ULR Code: TC5503 20 3 00005750 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 14/09/2020

: 03:00 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near DM Plant

: 1.18

: 35

: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The above tested sample **conforms** as per the NAAQS\*

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

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D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Gurgaon Plant**  
Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-011  
ULR Code: TC5503 20 3 00005795 F  
Report Date: 21/09/2020  
Sample Receipt Date: 16/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 15/09/2020
Time of Sampling	: 03:05 PM
Test started on	: 16/09/2020
Test Completed On	: 21/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near Machine shop 1&2
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs. & 8 hrs. (For CO & O <sub>3</sub> )



### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	59.87	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	98.68	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	08.14	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	05.96	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.16	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	24.78	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	38.46	100	IS-5182(P-9)

Testing Section

Prepared By:  
Arun Chaturvedi

Checked By:  
Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-011

ULR Code: TC5503 20 3 00005795 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 15/09/2020
Time of Sampling	: 03:05 PM
Test started on	: 16/09/2020
Test Completed On	: 21/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near Machine shop 1&2
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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D Mathur, Director

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Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-011

ULR Code: TC5503 20 3 00005795 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (LPM)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 15/09/2020

: 03:05 PM

: 16/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near Machine shop 1&2

: 0.20

: 35

: 01 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46
2	Non methane Hydrocarbons (as NMHC) ppm	2.34	NA	FL/SOP/GC-24

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:  
Surphi Kumari

Checked By:  
Rita Singh

Page 3 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-011

ULR Code: TC5503 20 3 00005795 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 15/09/2020

: 03:05 PM

: 16/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near Machine shop 1&2

: 1.20

: 35

: 24 hrs.



### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The above tested sample **conforms** as per the NAAQS\*

Testing Section Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



### FARE LABS Private Limited

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,

Gurgaon-122002, Haryana, INDIA

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Fax : +91-124-4036038, Cell : +91-95992 21227

E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-012

ULR Code: TC5503 20 3 00005796 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 15/09/2020

: 03:20 PM

: 16/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near Sewage pump house

: 1.20

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	57.43	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	98.64	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	10.92	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	07.30	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.18	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	35.48	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	46.32	100	IS-5182(P-9)

Testing Section

Prepared By:  
Arun Chaturvedi

Checked By:  
Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

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Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/16092020-012  
ULR Code: TC5503 20 3 00005796 F  
Report Date: 21/09/2020  
Sample Receipt Date: 16/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 15/09/2020
Time of Sampling	: 03:20 PM
Test started on	: 16/09/2020
Test Completed On	: 21/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near Sewage pump house
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omesh Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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(AUTHORISED SIGNATORY)

D Mathur, Director

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### TEST REPORT

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J.O. No.: FL/ENV/16092020-012

ULR Code: TC5503 20 3 00005796 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 15/09/2020
Time of Sampling	: 03:20 PM
Test started on	: 16/09/2020
Test Completed On	: 21/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near Sewage pump house
Average flow rate RSPM/SPM (lpm)	: 0.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 01 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46
2	Non methane Hydrocarbons (as NMHC) ppm	2.98	NA	FL/SOP/GC-24

ND= Not Detected; DL= Detection Limit

Testing Section Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh Page 3 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Old Palam Gurgaon Road, 122015, Haryana

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ULR Code: TC5503 20 3 00005796 F

Report Date: 21/09/2020

Sample Receipt Date: 16/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 15/09/2020

: 03:20 PM

: 16/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near Sewage pump house

: 1.20

: 35

: 24 hrs.



### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The above tested sample **conforms** as per the NAAQS\*

Testing Section

Prepared By:

Ayush Agarwal

Checked By:

Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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Website : www.farelabs.com

## TEST REPORT

**Issued to: MSIL Gurgaon Plant**

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-017

ULR Code: TC5503 20 3 00005751 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 14/09/2020

: 03:15 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP Plant

: 1.18

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



TC-5503

## Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	67.85	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	97.66	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	12.36	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	09.48	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.42	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	27.34	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	34.78	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)  
D Mathur, Director

Page 1 of 4

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-017

ULR Code: TC5503 20 3 00005751 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 14/09/2020

: 03:15 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP Plant

: 1.18

: 35

: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Gurgaon Plant

Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-017

ULR Code: TC5503 20 3 00005751 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (LPM)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 14/09/2020

: 03:15 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP Plant

: 0.2

: 35

: 01 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46
2	Non methane Hydrocarbons (as NMHC) ppm	1.86	NA	FL/SOP/GC-24

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Surbhi Kumari

Checked By:

Rita Singh

Page 3 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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Old Palam Gurgaon Road, 122015, Haryana

J.O. No.: FL/ENV/15092020-017

ULR Code: TC5503 20 3 00005751 F

Report Date: 21/09/2020

Sample Receipt Date: 15/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 14/09/2020

: 03:15 PM

: 15/09/2020

: 21/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP Plant

: 1.18

: 35

: 24 hrs.



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The above tested sample **conforms** as per the NAAQS\*

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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## **Report on the CSR initiatives of MSIL in Gurugram District, Haryana**

### **1. Introduction:**

CSR projects of Maruti Suzuki India Limited (MSIL) in Gurugram District, Haryana are focused on community development, road safety and skill development. The projects are implemented as per the Company's CSR Policy through the Maruti Suzuki Foundation.

### **2. Community development initiatives:**

MSIL's community development activities are carried out in 15 villages in Gurugram district including five villages around Gurugram plant (Sirhol, Molahera-U, Dundahera, Chauma-U and Carterpuri) and 10 villages around Manesar plant (Bas Hariya, Dhana, Bas Khusla, Kasan, Khoh, Manesar-U, Bhangrola, Kankrola, Naharpur Kasan and Nakhdola).

**Water:** Potable water is provided through 16 water ATMs benefitting approx. 17,000 households of 5 villages in Gurugram area 10 villages in Manesar area. The ATMs are run on a self-sustainable model in which the user fees paid by community members are used for maintenance of the facility. Approx. 5.5 km water pipeline has been laid in 2 villages in Manesar area. Rooftop rainwater harvesting system has been installed in 1 village in Manesar area.

**Sanitation:** Individual household toilets constructed in Gurugram and Manesar villages are benefitting 665 households. Approx. 35 km sewer pipeline have been laid in 2 villages in Gurugram area and 6 villages in Manesar area. Door-to-door household waste collection is benefitting 4,72,000 community members. Solid waste management plant is benefitting 53,000 community members in 2 villages in Manesar area.

**Community assets:** Community halls have been constructed in villages in Manesar area. Five public parks have been developed in 3 villages in Manesar area. Six school parks are maintained at 4 villages across Gurugram and Manesar. Approx. 25 kms of road has been constructed in 3 villages in Gurugram area and 7 villages in Manesar area. Cremation grounds and play grounds have also been constructed.

**Education:** Up-gradation of school Infrastructure (viz. renovation of classrooms, drinking water stations, construction of toilets) and improvement of learning levels (through provision of

supplementary teachers and learning aids) have benefitted 37 government schools across 15 villages in Gurugram and Manesar areas.

**Health:** Infrastructure at health centres in one village each in Gurugram and Manesar areas has been upgraded.

### **3. Skill Development Initiatives**

**Industrial training:** MSIL has adopted two government Industrial Training Institutes (ITIs) at Gurugram, of which one is dedicated to women. MSIL's interventions include upgrading workshop infrastructure, providing training on automobile and related trades, enhancing industry exposure for trainers and students, and imparting soft skills to make students industry-ready.

MSIL has also set up a model Industrial ITI called Japanese Institute of Manufacturing at Uncha Majra in Gurugram district. This institute is affiliated to National Council for Vocational Training (NCVT) and accredited by Ministry of Economy, Trade and Industry (METI), Japan. The institute offers eight courses, namely Mechanic Motor Vehicle, Welding, Technician, Auto-Body Painting, Auto Body Repair, Mechanic Diesel Engine, Fitter and Electrician. Apart from technical training, the JIM provides the students training on Japanese manufacturing practices and processes covering soft skills such as Kaizen, 5S, and 3G. Unique features of the JIM are mini vehicle assembly line, engine assembly line, safety lab, virtual welding simulators and spot-welding equipment that provide hands-on training to students to make them industry-ready. The first batch of around 250 students is currently enrolled. Hostel facilities are being offered to students belonging to far-off areas, including separate hostels for female students.

### **4. Road Safety initiatives**

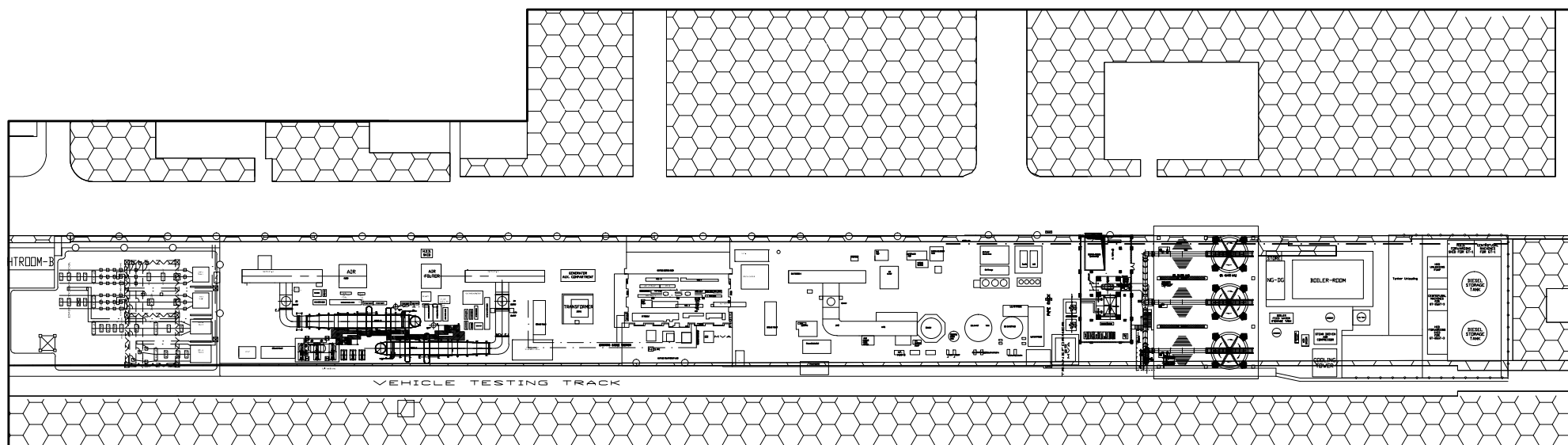
**Traffic management** –Traffic marshals (125 nos.) have been deployed at key road junctions in Gurugram to regulate the vehicular traffic and improve road safety.

**Road safety awareness** – A project called 'Catch Them Young' aimed at creating awareness about road safety among school children has been conducted in two private schools in Gurugram. The project involves formation of road safety clubs by the children.

## **5. CSR spend**

In 2019-20, the Company has spent approx. Rs. 40 Cr. to undertake CSR activities in Gurugram district.

## Green Area Plan





TIMES OF INDIA

**PUBLIC NOTICE****MARUTI  
SUZUKI**

Maruti Suzuki India Limited,  
Regd. Office: 1, Nelson Mandela Road,  
Vasant Kunj, New Delhi-110070.

Ministry of Environment and Forests has accorded environment clearance for the proposed expansion of thermal (captive) power plant at Maruti Suzuki India Limited, Gurgaon Plant. The copies of the clearance letters are available with the Haryana State Pollution Control board and the same can also be seen on the website of Ministry of Environment & Forest at <http://envfor.nic.in>.

Date: 10<sup>th</sup> June, 2011.

Maruti Suzuki India Limited

AMAR UJALA

**सूचना****MARUTI  
SUZUKI**

Maruti Suzuki India Limited,  
Regd. Office: 1, Nelson Mandela Road,  
Vasant Kunj, New Delhi-110070.

पर्यावरण एवं वन मंत्रालय द्वारा मारुति सुजुकी इंडिया लिमिटेड के गुडगांव प्लांट में पावर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोदन प्रदान कर दिया गया है। अनुमोदन पत्र की प्रतियां हरियाणा राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है। अनुमोदन पत्र को पर्यावरण एवं वन मंत्रालय की वेबसाइट <http://envfor.nic.in> पर भी देखा जा सकता है।

दिनांक: 10 जून, 2011

मारुति सुजुकी इंडिया लिमिटेड

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA**  
**Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.**

No. SEIAA/HR/2012 *237 A*

Dated: *30-8-12*.....

To

M/S Maruti Suzuki India Limited,  
 Regd. Office: Plot No. 1, Nelson Mandela Road,  
 Vasant Kunj, New Delhi- 110070

**Subject: Environmental Clearance for 57 MW Captive Power Plant  
 (expansion) at Maruti Suzuki India Limited, Manesar, Gurgaon.**

Dear Sir,

This has reference to your application no. PRDS-EGM-10-11 dated 8.10.2010 addressed to MS, SEIAA and received on 12.10.2010 and subsequent letter dated 3.03.2011 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1 pre-feasibility project report, proposed TOR and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.4.2008/23.3.2012 in its meetings held on 10.12.2010 & 28.06.2012.

[2] It is inter-alia noted that the project is for setting up of 57 MW natural Gas based power project under expansion at Maruti Suzuki India Limited, Manesar, Gurgaon. The existing capacity of captive power plant is 86.2 MW which is based on natural gas and the MOEF, GOI vide letter dated 05-02-2008 has accorded environmental clearance to the project. The power plant is proposed to convert to combined cycle power plant with the addition of 37 MW steam

turbine and it is also proposed to add a gas turbine of 20 MW and after expansion the total capacity of the power plant will be 143.2 MW. It has also been proposed to use HSD as standby fuel. The project proponent intimated that the GAIL has given assurance for supply of 7500 cubic of natural gas through pipeline for the proposed project. The GT stack height will be 30 mtrs. It was noticed that project is covered under item no.1 (d) of EIA notification dated 14.9.06 and SEAC has appraised this project as category B-I project. The TOR's were approved on 10.12.10. The public hearing in this case is not required as the project is located in an Industrial Area. The project proponent on the basis on approved TOR's submitted EIA/EMP on 28-02-2011.

[3] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its meeting held on 29.8.2012 decided to agree with the recommendation of SEAC ~~and~~ to accord necessary environmental clearance for the project under Category 1(d) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

- i) No additional land shall be acquired.
- ii) NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC Observatory.
- iii) Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available.


- iv) Dry Low NO<sub>x</sub> burners shall be provided and it shall be ensured that NO<sub>x</sub> emissions from the stack is less than 100 ppm.
- v) The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, which ever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.
- vi) Air cooled condensers shall be installed.
- vii) Water should be conserved, treated, reused and recycled in order to minimize water consumption. The necessary prior permission for withdrawal of requisite quantity of groundwater for the project as applicable shall be obtained from the Competent Authority before the start of expansion.
- viii) Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant area. No effluents shall be discharged outside the plant boundary.
- ix) Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority and a copy of the same shall be submitted within three months to the SEIAA. Care shall be taken to avoid contamination of ground water through RWH pit.
- x) Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments shall be undertaken. For people working in high noise areas, personal protection devices shall be provided.
- xi) A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be atleast  $\frac{1}{3}^{\text{rd}}$  of the total area.
- xii) First aid and sanitation arrangements shall be made for the drivers and other regular or contract workers during construction phase.

- xiii) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the Haryana State Pollution Control Board. Periodic reports shall be submitted to the Regional Office of the Ministry at Chandigarh.
- xiv) The project proponent shall advertise in atleast two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and on project proponent's website.
- xv) A separate environment management cell with qualified staff shall be set up for the implementation of the stipulated environmental safeguards.
- xvi) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the SEIAA/ Regional Office, MOEF, Chandigarh and HSPCB.
- xvii) Regional Office of the Ministry of Environment & Forests located at Chandigarh will monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan alongwith the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.
- xviii) Separate funds shall be allocated for implementation of environmental protection measures alongwith item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposed and year-wise expenditure shall be reported to the SEIAA, Panchkula and Regional Office, MoEF, Chandigarh.
- xix) Full cooperation shall be extended to the Scientists/Officers from the Regional Office of the Ministry at Chandigarh/HSPCB who would be monitoring the compliance of environmental status.

- xx) The project proponent shall take adequate preparation for fire and other kind of disaster including chemical disaster. On-site and Off-site emergency plan should be rehearsed through regular mock drills.
  - xxi) The project Proponent shall initiate a long term study through a reputed institution to assess the cumulative impact of the power plants on the AAQ of the area. The study shall in particular assess the impact of emission of the gas power plant on the chemistry of upper atmosphere and the impact on radiation budget. It shall be ensured that the study takes into account the worst seasonal atmospheric conditions.
  - xxii) The Project Proponent shall ensure that all possible hazards due to the power plant are contained within the plant premises.
  - xxiii) An Environmental Cell shall be created at the project site itself and shall be headed by qualified officer, who is well versed with the environmental aspects of gas based power plant. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.
  - xxiv) The project Proponent shall also submit the detailed data of last one year during which the HSD was used as standby fuel in the existing captive power plant.
  - xxv) These conditions of expansion project are in addition to conditions imposed by MoEF in original project.
  - xxvi) Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of environment protection rule 1986 shall be complied with.
  - xxvii) Harnessing solar power within the premises of the plants particularly ~~and~~ at available roof tops shall be made and the status of implementation shall be submitted every six months to the SEIAA/MoEF, GoI.
4. The SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA.
  5. The environmental clearance accorded shall be valid for a period of 5 years to start of production operation by the power plant.
  6. In case of any deviation or alteration in the project proposed from that submitted to the SEIAA for clearance, a fresh reference shall be made to the SEIAA to assess the adequacy of the condition (s) imposed and to incorporate additional environmental protection measures required, if any.



7. The above stipulations shall be enforced alongwith others as under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1986, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Waste (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991 and rules there under.
8. The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GoI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012


  
**Member Secretary,  
State Level Environment Impact  
Assessment Authority, Haryana, Panchkula.**

Endst. No. SEIAA/HR/2011

  
Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, CGO Complex, Lodi Road, New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pkl.

  
**Member Secretary,  
State Level Environment Impact  
Assessment Authority, Haryana, Panchkula.**

MSIL:CUIP:ESEC:ENV:20-21:077

09-Nov-2020

To  
Ministry of Environment, Forest and Climate Change  
Northern Regional Office  
Bays No 24-25, Sector – 31 A,  
Dakshin Marg  
Chandigarh

**Sub:** Half yearly report for Compliance of Environmental Condition for Gas turbine,  
Manesar (57 MW)

**Ref:** Environment Clearance Letter from MoEF – No. SEIAA/HR/2012/237A, dated  
30.08.2012.

Dear Sir,

Enclosed please find herewith the half yearly report for the environment clearance  
issued for our Gas turbine.

Thanking You.

Yours Faithfully

 **MADAN BANSODE**  
**DGM (ENVIRONMENT)**  
**MARUTI SUZUKI INDIA LTD.**

Madan Ankush Bansode  
Deputy General Manager (Environment)  
Maruti Suzuki India Limited, Gurgaon.

CC: 1. Haryana State Pollution Control Board, Panchkula  
2. State Environment Impact Assessment Authority, Haryana

**MARUTI SUZUKI INDIA LIMITED****Head Office:**

Maruti Suzuki India Limited,  
1, Nelson Mandela Road, Vasant Kunj,  
New Delhi - 110070, India.

Tel: 011- 46781000, Fax: 011-46150275/46150276

E-mail id: [contact@maruti.co.in](mailto:contact@maruti.co.in), [www.marutisuzuki.com](http://www.marutisuzuki.com)

**Gurgaon Plant:**

Maruti Suzuki India Limited,  
Old Palam Gurgaon Road,  
Gurgaon - 122015, Haryana, India.

Tel: 0124-2346721, Fax: 0124-2341304

**Manesar Plant:**

Maruti Suzuki India Limited,  
Plot no.1, Phase - 3A, IMT Manesar,  
Gurgaon - 122051, Haryana, India.

Tel: 0124-4884000, Fax: 0124-4884199

## MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

Ref: Environment Clearance letter from MoEF no - SEIAA/HR/2012/237A dated 30.8.2012

S. No.	Clearance Conditions	Compliance Status
1	No additional land shall be acquired.	The project will be located within Maruti Suzuki India Limited premises at IMT Manesar and the power plant will be set within 9440 sq.m area.
2	NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC observatory.	NOC obtained from BARC is placed at <b>Annexure-1</b> .
3	Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available.	Natural gas supply has commenced at Manesar plant
4	Dry Low NO <sub>x</sub> burners shall be provided and it shall be ensured that NO <sub>x</sub> emission from the stack is less than 100 ppm.	NO <sub>x</sub> emissions are less than 100 ppm. The stack monitoring report are placed at <b>Annexure-2</b> .
5	The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.	All the stacks of the installed Gas Turbines are of 30 mts height and Continuous online monitoring system installed.
6	Air cooled condensers shall be installed.	Air cooled condenser installed for the Gas Turbines
7	Water should be conserved, treated, reused and recycled in order to minimize water consumption. The necessary prior permission for withdrawal of requisite quantity of groundwater for the project as applicable shall be obtained from the Competent Authority before the start of expansion.	As air cooled condenser is installed for the Gas Turbines, the daily water requirement is very negligible and are met from the existing tube wells. Current water withdrawal is maintained within the quantity permitted by the Competent Authority.
8	Treated effluents conforming to the prescribed standards shall be recirculated and reused within the plant area, No effluents shall be discharged outside the plant boundary.	The treated effluents conform to the prescribed standards and are reused for the process requirements after recycling. Report is placed at <b>Annexure-3</b> .
9	Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with central Ground water Authority and a copy of the same shall be submitted within three months to the SEIAA. Care shall be taken to avoid contamination of ground water through RWH pit.	The location of the lagoon is attached in <b>Annexure-4</b> .
10	Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices shall be provided.	Gas Turbines are provided with the acoustic enclosure to limit the noise level within 75 dBA at plant boundary. The persons working in high noise areas are provided with the personal protection devices.
11	A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be at least 1/3 <sup>rd</sup> of the total area.	Details of Green Belt are placed at <b>Annex: 4</b>
12	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid and necessary sanitation arrangement has been made available for the drivers and other contract workers during construction phase.

13	Regular monitoring of the ambient quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the state pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry at Chandigarh.	Ambient Air quality is being monitored quarterly at the locations fixed based on the modelling results from MoEFCC authorized laboratory and the reports are placed at <b>Annexure-5</b> .
14	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and on project proponent's website.	Notice was published in Amar Ujala (Hindi) and Times of India (English). Copy of the same is attached as <b>Annexure - 6</b> .
15	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environment Management Department has been set up.
16	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the SEIAA/Regional Office, MOEF, Chandigarh and HSPCB.	Half yearly compliance report will be submitted to MoEFCC Regional office.
17	Regional office of the Ministry of Environment & forests located at Chandigarh will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Complied
18	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the SEIAA, Panchkula and Regional Office, MoEF, Chandigarh.	Funds for EMP have been included in the project cost itself. It shall be utilised for this purpose only.
19	Full cooperation shall be extended to the Scientist/Officers from the Ministry/ Regional Office of the Ministry at Chandigarh/the CPCB/THE SPCB who would be Monitoring the Compliance of Environmental status.	Full Cooperation will be extended to the officials from SPCB / CPCB and MoEFCC.

Conditions imposed by MoEFCC for expansion project in addition to conditions in original project		
20	The project proponent shall take adequate preparation for fire and other kind of disaster including chemical disaster. On-site and Off-site emergency plan should be rehearsed through regular mock drills.	Complied.
21	The project proponent shall initiate a long term study through a reputed institution to assess the cumulative impact of the power plants on the AAQ of the area. The study shall in particular assess the impact of emission of the gas power plant on the chemistry of upper atmosphere and the impact on radiation budget. It shall be ensured that the study takes into account the worst seasonal atmospheric conditions.	The study report is placed at <b>Annexure-7</b> .
22	The project proponent shall ensure that all possible hazards due to the power plant are contained within the plant premises.	Completed.
23	An Environment Cell shall be created at the project site itself and shall be headed by qualified officer, who is well versed with the environmental aspects of gas based power plant. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.	A separate Environment Management Department has been set up.
24	The project proponent shall also submit the detailed data of last one year during which the HSD was used as standby fuel in the existing captive power plant.	20 KL HSD was used in existing captive power plants in FY 2020-21 (Till Sept)
25	These conditions of expansion project are in addition to conditions imposed by MoEF in original project.	Noted.
26	Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of environment protection rule 1986 shall be complied with.	Complied
27	Harnessing solar power within the premises of the plants particularly at available roof tops shall be made and the status of implementation shall be submitted every six months to the SE/IAA/MoEF, GoI.	Completed.



**Northern Regional Office**  
**Ministry of Environment & Forests**  
**Chandigarh**  
**DATA SHEET**

<b>1.</b>	<b>Project Type</b>	River Valley/ Mining / Industry /Refinery/Transportation/Tourisms/Thermal /Nuclear/Other(Specify)
<b>2.</b>	<b>Name of the Project:</b>	57 MW Captive Power Plant (expansion) at Maruti Suzuki India Limited, Manesar, Gurgaon, Haryana
<b>3.</b>	<b>Clearance letter (s)/O.M No. &amp; dates:</b>	No. SEIAA/HR/2012/237A dated 30-8-2012
<b>4.</b>	<b>Location:</b> a) District (s) b) State (s) c) Latitudes/longitudes	Gurgaon Haryana Latitude : 28° 22' 08" N Longitude : 76° 52' 45" E
<b>5.</b>	<b>Address for correspondence:</b>  a) Address for Correspondence    b) Address of executive Project In-charge	Mr. Madan Ankush Bansode Deputy General Manager – Environment Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Madan.Bansode@maruti.co.in">Madan.Bansode@maruti.co.in</a> Phone 0124 – 2346721 ~ 30 Extn : 3583  Mr. Alok Bansal Vice President – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Alok.Bansal@maruti.co.in">Alok.Bansal@maruti.co.in</a> Phone 0124 – 2346721 ~ 30
<b>6.</b>	<b>Salient features:</b> a) Of the project b) Of the environmental management plans	Salient features of the project and Environment Management plan details is enclosed in <b>Annexure -A</b>
<b>7.</b>	<b>Break up of the project area:</b> a) Submergence area: Forest & Non- forest. b) Others	Not Applicable The project will be located within MSIL premises in the industrial area
<b>8.</b>	<b>Break up of project affected population with enumeration of those losing houses /dwelling units and agricultural land only both dwelling units and agricultural land and landless labourers/artisans.</b> a) SC/ST/Adivasis b) Others (Please Indicate whether these figures are based on any scientific and systematic survey carried out only provisional figures. If a survey has been carried out , give details and year of survey)	Not Applicable

9.	<p>Financial details:</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year of price reference.</p> <p>b) Allocations made for environmental management plans with item wise and year wise breakup.</p> <p>c) Benefit cost ratio /internal Rate of Return and the year of assessment.</p> <p>d) Whether (c) includes the cost of environmental management as shown in b) above.</p> <p>e) Actual expenditure incurred on the project so far.</p> <p>f) Actual expenditure incurred on the environment management plans so far.</p>	<p>Project Cost: Rs. 314 Crores</p> <p>Rs. 3.7 Crores</p> <p>-</p> <p>-</p> <p>Rs. 324 Crores (approx.)</p> <p>Rs. 4.2 Crores</p>
10.	<p><b>Forest land requirement :</b></p> <p>a) The status of approval for diversion of forest land for non- forestry use.</p> <p>b) The status of clear felling.</p> <p>c) The status of compensatory afforestation if any.</p> <p>d) Comments on the viability &amp; sustainability of compensatory afforestation program in the light of actual field experience so far.</p>	<p>Not Applicable</p>
11.	<p><b>The Status of clear felling in the non-forest areas (Such as submergence area of non reservoir, approach road) if any, with quantitative information.</b></p>	<p>Not Applicable</p>
12.	<p><b>Status of Construction:</b></p> <p>a) Date of Commencement (actual and /or planned)</p> <p>b) Date of completion (actual and /or planned )</p>	<p>20 MW &amp; 37 MW are in operation.</p>
13.	<p><b>Reasons for the delay if the project is yet to start:</b></p>	<p>Not applicable</p>

**SALIENT FEATURES OF PROJECT:**

- |                        |   |   |
|------------------------|---|---|
| 1. Name of the Project | : | Gas turbine at Maruti Suzuki India Limited,<br>Manesar, Haryana |
| 2. Capacity            | : | 57 MW   |
| 3. Location            | : | Maruti Suzuki India Limited, IMT Manesar.                       |
| 4. Total project cost  | : | Rs. 314 Crores  |
| 5. Land Area           | : | 9440 sq m   |

**ENVIRONMENTAL MANAGEMENT PLAN**

***Water Pollution control***

- The Gas Turbine is air cooled hence the waste water generated shall be very minimum. Existing ETP will treat the effluent arising out of the plant operation and the treated waste water will be reused.

***Air Pollution control:***

- Stacks of the GT shall be maintained at 30m.
- NOX emissions will be below 100ppm.
- SPM and SO<sub>2</sub> emissions will be very low as natural gas is a clean fuel and ultra low sulphur diesel will be used initially or in case of emergency operation. Later on after the availability of natural gas, SPM and SO<sub>2</sub> emissions will further go down

***Noise Pollution Control***

- The noise from Gas Turbines will be controlled by acoustic enclosures. The noise level at the periphery of factory/premises will not exceed the ambient noise level.

***Ground Water***

- Rain water harvesting lagoons have been constructed to take care of surface run off and recharge the aquifers.

***Green belt development***

- Adequate green area will be developed with local area species having capacities to reduce SPM and noise levels.

228

Fax

दूरभाष/Tel.: 022 - 2550 5354  
 फैक्स/Fax: 022 - 2550 5151  
 022 - 2550 5353  
 ई-मेल/e-mail: ndsharma@barc.gov.in



भारत सरकार

GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केंद्र

BHABHA ATOMIC RESEARCH CENTRE

सेंट्रल कॉम्प्लेक्स,  
 ट्रॉम्बे, मुंबई - 400 085.  
 Central Complex,  
 Trombay,  
 Mumbai - 400 085.

न. द. शर्मा  
 नियंत्रक  
 N. D. Sharma  
 Controller

Ref: 14/8/91/Admn-I / 3281

April 16, 2008

Maruti Suzuki India Limited,  
 Palam Gurgaon Road,  
 Gurgaon, Haryana - 122 015

Kind Attn: Mr Vinay Varshney, Chief General Manager (Production Services)

Sub: NOC for Expansion of Power Plant at MSIL, IMT Manesar

Sir,

With reference to your letter MSIL:PRDS:EM2:1728 dated 18<sup>th</sup> February, 2008, we confirm that BARC has no objection in expansion of your power plant at IMT Manesar.

Thanking You,

Yours faithfully,

(N. D. Sharma)  
 Controller

16/04/08

संचार अनुभाग / Communication Section  
 फैक्स परिपत्र / Fax Transmission

संदेश सं. / Message No. 6072  
 दिनांक 27/5/08  
 Transmitted on ..... at ..... hrs.

**TEST REPORT****Issued to: MSIL Manesar Vehicle Plant**
 Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

 J.O. No.: FL/ENV/08092020-018  
 ULR Code: TC5503 20 3 00005489 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: GULAB/SEPTESH
**Sample Particulars:**

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 08/09/2020
Time of sampling	: 11:10 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-09
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-09
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 58

**Observations:**

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 242.5
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 99495

**Analysis Report**

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	07.46	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	02.32	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	14.24	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	16.86	NA	IS-13270
6	Carbon Dioxide, %	10.76	NA	IS-13270

# As provided by Customer.

 Testing Section  
 Prepared By:  
 Arun Chaturvedi

 Checked By:  
 Dr. Meenakshi Tripathi, QM

 (AUTHORISED SIGNATORY)  
 D Mathur, Director

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Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/08092020-018  
ULR Code: TC5503 20 3 00005489 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 08/09/2020
Time of sampling	: 11:10 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-09
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-09
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 58

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 242.5
Ambient Air Temperature °C	: 35
Flue Gas Velocity (m/s)	: 6.95
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 99495



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	07.68	NA	FL/SOP/GC-24

# As provided by Customer.

Testing Section

Prepared By:

Surbhi Kumari

Checked By:

Rita Singh

Page 2 of 2

(AUTHORISED SIGNATORY)

D Mathur, Director

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 Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040  
 ULR Code: TC5503 20 2 00009266 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample  
 Location  
 Sample Quantity & Packaging  
 Test Started on  
 Test Completed  
 Method of Sampling  
 Date of Sampling  
 Sample Collected by

: **ETP Outlet Water** (One Sample)  
 : None  
 : 5 Litre Pet can  
 : 08/09/2020  
 : 14/09/2020  
 : FL/SOP/B/D-1  
 : 08/09/2020  
 : Mr. Ankur (FARELABS Representative)



TC-5503

### Analysis Report

**Physical Description:** Clear water

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1	Colour	20	#	Visual
2	Odour	Characteristics	#	IS:3025 (P-5)
3	pH Value	8.03	5.5-9.0	IS-3025 (P-11)
4	Temperature °C	31.4	Shall not exceed 5 °C above the receiving water temperature.	APHA 23 <sup>rd</sup> Ed.
5	Total Suspended Solids, mg/L	10	100	IS-3025 (P-17)
6	Biochemical Oxygen Demand, @ 27°C For 3days, mg/L	2	30	APHA 23 <sup>rd</sup> Ed.
7	Chemical Oxygen Demand, mg/L	20	250	IS-3025 (P-58)
8	Oil & Grease, mg/L	ND, [LOQ - 2.0]	10	IS-3025 (P-39)
9	Dissolved Phosphate, mg/L	4.6	5.0	APHA 23 <sup>rd</sup> Ed.
10	Total kjeldahl Nitrogen(NH <sub>3</sub> ), mg/L	0.56	100	APHA 23 <sup>rd</sup> Ed.
11	Fluoride (as F), mg/L	0.32	2.0	APHA 23 <sup>rd</sup> Ed.
12	Cyanide (as CN), mg/L	ND, [LOQ - 0.03]	0.2	APHA 23 <sup>rd</sup> Ed.
13	Total Residual Chlorine, mg/L	0.3	1.0	APHA 23 <sup>rd</sup> Ed.
14	Ammonical Nitrogen (N), mg/L	0.26	50	APHA 23 <sup>rd</sup> Ed.
15	Sulphide (as S), mg/L	1.8	2.0	APHA 23 <sup>rd</sup> Ed.
16	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), mg/L	ND, [LOQ - 0.1]	1.0	APHA 23 <sup>rd</sup> Ed.
17	Nitrate Nitrogen, mg/L	7.92	10	IS-3025 (P-34)
18	Free Ammonia, mg/L	ND, [LOQ - 0.01]	5.0	APHA 23 <sup>rd</sup> Ed.

Testing Section

Prepared By  
 Nayla Tazeen

Checked By  
 Satish Kumar Singh

Page 1 of 3

(AUTHORISED SIGNATORY)  
 D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040

ULR Code: TC5503 20 2 00009266 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **ETP Outlet Water** (One Sample)

: None

: 5 Litre Pet can

: 08/09/2020

: 14/09/2020

: FL/SOP/B/D-1

: 08/09/2020

: Mr. Ankur (FARELABS Representative)



TC-5503

### Analysis Report

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1	Iron (as Fe), mg/L	0.09	3	FL/SOP/ICPMS-23
2	Zinc (as Zn), mg/L	0.14	5.0	FL/SOP/ICPMS-23
3	Arsenic (as As), mg/L	ND, [LOQ - 0.01]	0.2	FL/SOP/ICPMS-23
4	Cadmium (as Cd), mg/L	ND, [LOQ - 0.002]	2.0	FL/SOP/ICPMS-23
5	Copper (as Cu), mg/L	0.027	3.0	FL/SOP/ICPMS-23
6	Total Chromium (as Cr), mg/L	0.056	2.0	FL/SOP/ICPMS-23
7	Hexavalent Chromium (as Cr), mg/L	ND, [LOQ - 0.001]	0.1	FL/SOP/ICPMS-23
8	Manganese (as Mn), mg/L	0.049	2.0	FL/SOP/ICPMS-23
9	Nickel (as Ni), mg/L	0.037	3.0	FL/SOP/ICPMS-23
10	Lead (as Pb), mg/L	ND, [LOQ - 0.01]	0.1	FL/SOP/ICPMS-23
11	Mercury (as Hg), mg/L	ND, [LOQ - 0.005]	0.01	FL/SOP/ICPMS-23
12	Selenium (as Se), mg/L	ND, [LOQ - 0.01]	0.05	FL/SOP/ICPMS-23
13	Vanadium (as V), mg/L	ND, [LOQ - 0.01]	0.2	FL/SOP/ICPMS-23

Testing Section

Prepared By

Omish Kumar

Checked By

Dr. C.S. Joshi

Page 2 of 3

(AUTHORISED SIGNATORY)

D Mathur, Director

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FL/T/GEN/F-05



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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040

ULR Code: TC5503 20 2 00009266 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **ETP Outlet Water** (One Sample)

: None

: 5 Litre Pet can

: 08/09/2020

: 14/09/2020

: FL/SOP/B/D-1

: 08/09/2020

: Mr. Ankur (FARELABS Representative)



### Analysis Report

S. No.	Parameter	Test Result	Standard Limits*	Protocol
<b>Microbiological Analysis:</b>				
1	Faecal coliform, MPN per 100ml	11	<1000	IS:1622

**ND=** Not Detected; **LOQ=** Limit of Quantification

\*(Schedule VI Of EPA, 1993) For Discharge Into Surface Water

# All efforts should be made to remove colour and unpleasant odour as far as practicable.

**Inference:** The tested sample of water **conforms** to Standard Limits.

Testing Section

Prepared By  
Suman Yadav

Checked By  
Dr. M. Tripathi, QM

Page 3 of 3

(AUTHORISED SIGNATORY)  
Ms. Meenakshi Bakshi, Scientist-B

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## GREEN AREA AND RWH





**TEST REPORT****Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

**Sample Particulars:**

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 08/09/2020  
Time of Sampling : 12:00 PM  
Test started on : 09/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near gate 1  
Average flow rate RSPM/SPM (m<sup>3</sup>/min) : 1.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

**Analysis Report**

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	56.30	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	94.52	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	08.44	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	13.60	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.88	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	30.16	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	35.82	100	IS-5182(P-9)

Testing Section

Prepared By:

Arin Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

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D Mathur, Director

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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:00 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near gate 1
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012

ULR Code: TC5503 20 3 00005539 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 08/09/2020

: 12:00 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near gate 1

: 1.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:00 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near gate 1
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



### FARE LABS Private Limited

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,  
Gurgaon-122002, Haryana, INDIA  
Phone : +91-124-4223207, 4034205  
Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
ULR Code: TC5503 20 3 00005486 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 07/09/2020  
Time of Sampling : 11:30 AM  
Test started on : 08/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near JV material gate  
Average flow rate RSPM/SPM (m<sup>3</sup>/min) : 1.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	46.82	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	70.46	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	08.14	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	17.62	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.98	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	29.62	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	34.86	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

Page 1 of 4

D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/08092020-015

ULR Code: TC5503 20 3 00005486 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 07/09/2020

: 11:30 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near JV material gate

: 1.20

: 35

: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND=Not Detected; DL=Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

(AUTHORISED SIGNATORY)

D Nathur, Director

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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
ULR Code: TC5503 20 3 00005486 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (lpm)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 07/09/2020

: 11:30 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near JV material gate

: 0.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

**ND**=Not Detected; **DL**=Detection Limit

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
 ULR Code: TC5503 20 3 00005486 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 07/09/2020
Time of Sampling	: 11:30 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near JV material gate
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
 16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
 Ayush Agarwal

Checked By:  
 Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
 D. Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013

ULR Code: TC5503 20 3 00005540 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 08/09/2020

: 12:25 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near SND gate

: 1.20

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	49.90	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	78.32	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	07.42	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	11.26	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.78	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	27.46	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	31.24	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

Page 1 of 4

D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-013

ULR Code: TC5503 20 3 00005540 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 08/09/2020

: 12:25 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near SND gate

: 1.20

: 35

: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omresh Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

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D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013

ULR Code: TC5503 20 3 00005540 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (lpm)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 08/09/2020

: 12:25 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near SND gate

: 0.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

**ND= Not Detected; DL= Detection Limit**

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

Page 3 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013  
ULR Code: TC5503 20 3 00005540 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:25 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near SND gate
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016

ULR Code: TC5503 20 3 00005487 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 07/09/2020

: 11:50 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP area

: 1.20

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	55.48	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	88.36	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	12.36	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	21.48	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.18	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	32.48	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	28.76	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

Page 1 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



## FARE LABS Private Limited

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Gurgaon-122002, Haryana, INDIA  
Phone : +91-124-4223207, 4034205  
Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**  
Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016  
ULR Code: TC5503 20 3 00005487 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 07/09/2020
Time of Sampling	: 11:50 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near STP area
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omesh Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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Fax : +91-124-4036038, Cell : +91-95992 21227

E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016

ULR Code: TC5503 20 3 00005487 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (lpm)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 07/09/2020

: 11:50 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP area

: 0.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**  
 Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

J.O. No.: FL/ENV/08092020-016  
 ULR Code: TC5503 20 3 00005487 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 07/09/2020
Time of Sampling	: 11:50 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near STP area
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\***NAAQS** – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
 16.11.2009

**ND**= Not Detected; **DL**= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
 Ayush Agarwal

Checked By:  
 Rita Singh

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 D Mathur, Director

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006720

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description	: One Ambient Air sample was collected by us from 08/06/2020 to 09/06/2020
Name of Industry	: MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point	: Near gate no-1
Date of Sampling	: 08/06/2020 To 09/06/2020
Sampling started at	: 11:00 AM (Dt. 08/06/2020)
Sampling completed at	: 11:00 AM (Dt. 09/06/2020)
Actual time of sampling	: 1440 minutes
Flow rate of sampling	: 1.28 m <sup>3</sup> /minute
Total volume of air sampled	: 1843 m <sup>3</sup> (For PM 10) & 24.002 m <sup>3</sup> (For PM 2.5)
Ambient temperature (°C)	: 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	88.4	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	45.4	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO2)	µg/m <sup>3</sup>	25.9	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO2)	µg/m <sup>3</sup>	15.2	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.152	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH3)	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O3) (8 hours)	µg/m <sup>3</sup>	33.7	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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Email : bmlab@simalab.com

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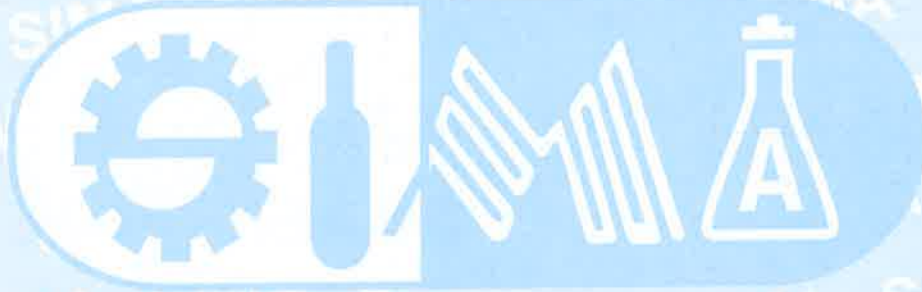
7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611006720

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 15/06/2020

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006820

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description : One Ambient Air sample was collected by us from 08/06/2020 to 09/06/2020

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Location of the Sampling Point : Near Incinerator

Date of Sampling : 08/06/2020 To 09/06/2020

Sampling started at : 12:00 PM (Dt. 08/06/2020)

Sampling completed at : 12:00 PM (Dt. 09/06/2020)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.25 m<sup>3</sup>/minute

Total volume of air sampled : 1800 m<sup>3</sup> (For PM 10) & 24.004 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	85.0	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	42.5	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	26.1	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	16.0	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.08	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	31.4	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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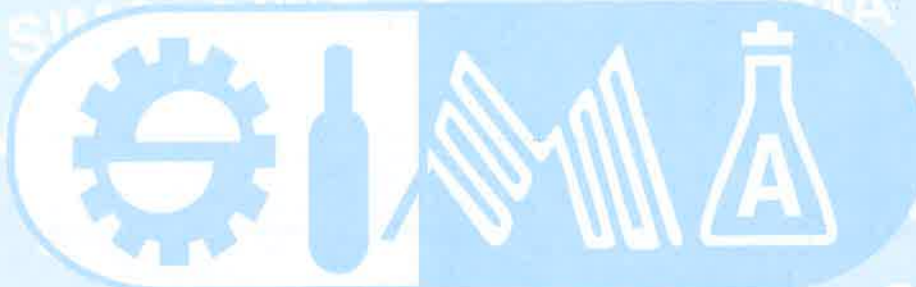
7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611006820

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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Vikram Singh

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REPORT NO. : SN0611007020

REF. NO. : NS

REF. DATE : NS

DT.RECD : 11/06/2020

SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description	: One Ambient Air sample was collected by us from 09/06/2020 to 10/06/2020
Name of Industry	: MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point	: Near material gate
Date of Sampling	: 09/06/2020 To 10/06/2020
Sampling started at	: 11:45 AM (Dt. 09/06/2020)
Sampling completed at	: 11:45 AM (Dt. 10/06/2020)
Actual time of sampling	: 1440 minutes
Flow rate of sampling	: 1.25 m <sup>3</sup> /minute
Total volume of air sampled	: 1800 m <sup>3</sup> (For PM 10) & 24.005 m <sup>3</sup> (For PM 2.5)
Ambient temperature (°C)	: 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	90.1	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	44.6	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	27.9	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	18.2	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.152	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	33.1	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403  
BUILDING MATERIAL LAB : Plot No. 107/11/2 & 107/20, Udhog Nagar Indl Area, Mundka,  
New Delhi-110041Phone : +(91)-(01334)-235552  
Phone : +(91)-93198-28884Email : simaharidwar@simalab.co.in  
Email : bmlab@simalab.com

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**SIMA**



**SIMA LABS****Sophisticated Industrial Materials  
Analytic Labs Pvt. Ltd.**

(GOVT. APPROVED TESTING LABORATORIES)

A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064

Phone : +(91)-(11) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com

TESTING STREAMS : FOOD &amp; AGRI PRODUCTS • NUTRACEUTICALS • DRUGS &amp; COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS

7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611007020

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

- REMARKS**
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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006920

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description : One Ambient Air sample was collected by us from 09/06/2020 to 10/06/2020

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Location of the Sampling Point : Near SND gate

Date of Sampling : 09/06/2020 To 10/06/2020

Sampling started at : 11:20 AM (Dt. 09/06/2020)

Sampling completed at : 11:20 AM (Dt. 10/06/2020)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.28 m<sup>3</sup>/minuteTotal volume of air sampled : 1843 m<sup>3</sup> (For PM 10) & 24.002 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	87.0	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	41.7	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28.6	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	17.7	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.025	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	30.1	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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PARTY CODE : M/HR/12131

REPORT NO. : SN0611006920

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9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

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**SIMA**



Times of India

**MARUTI SUZUKI**  
Way of Life!

**PUBLIC NOTICE**  
**MARUTI SUZUKI INDIA LIMITED**  
Regd. Office: 1 Nelson Mandela Road,  
Vasant Kunj, New Delhi - 110070

SEIAA Haryana has accorded environment clearance for the proposed expansion of thermal (captive) power plant at Maruti Suzuki India Limited, Manesar Plant. The copies of the clearance letters are available with the Haryana State Pollution Control Board and the same can also be seen on the MSIL website <http://www.marutisuzuki.com/ec.html>

Date : 27 September 2012 Maruti Suzuki India Limited

Amar Ujala

**MARUTI SUZUKI**  
Way of Life!

**सूचना**  
**MARUTI SUZUKI INDIA LIMITED**  
Regd. Office: 1 Nelson Mandela Road,  
Vasant Kunj, New Delhi - 110070

SEIAA हरियाणा द्वारा मारुति सुजुकी इंडिया लिमिटेड के मानेसर प्लांट में पॉवर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोदन प्रदान कर दिया गया है। अनुमोदन पत्र की प्रतियाँ हरियाणा राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध हैं। अनुमोदन पत्र को मारुति सुजुकी इंडिया लिमिटेड की वेबसाइट [www.marutisuzuki.com/ec.html](http://www.marutisuzuki.com/ec.html) पर भी देखा जा सकता है।

दिनांक : 27 सितम्बर 2012 मारुति सुजुकी इंडिया लिमिटेड

Long term study  
to  
Assess  
The Cumulative Impact  
of  
the Power Plant (57 MW)  
on  
Ambient Air Quality (AAQ)

Project Proponent



Maruti Suzuki India Ltd.

*Institute :*



Pollution Control Research Institute,  
BHEL, Ranipur, Haridwar – 249 403  
Uttarakhand

## ACKNOWLEDGEMENT

The Institute, Pollution Control Research Institute, Bharat Heavy Electricals Limited, Haridwar convey their deep sense of gratitude and appreciation to the officials of Maruti Suzuki India Limited (MSIL) for the valuable guidance and unstinted co-operation continuously extended to them for carrying out this assignment. Valuable assistance from officials of MSIL in providing relevant data and support have contributed immensely towards the smooth progress of study and have added value to this entire exercise, culminating in the preparation of this report.

We wish to thank officials of MSIL at Gurgaon for the courtesy and help extended to our team from time to time during their work for smooth conduct of this assignment.

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2.2	Upper Atmosphere Chemistry	2
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## **Background**

In the year 2012, State Environment Impact Assessment Authority accorded Environment Clearance for the expansion of captive power plant at Maruti Suzuki India Limited, Manesar.

In the Condition no. 21 of the said clearance, the SEIAA has asked to initiate a long term study through a reputed institution to assess the impact of the power plant on the AAQ of the area, on the chemistry of upper atmosphere and radiation budget.

MSIL has engaged Pollution Control Research Institute (BHEL) to conduct the study on the AAQ of the plant.

## **Objective**

The objective of this study is to conduct a long term study to assess the impact of power plant on the AAQ of the area, on the upper chemistry of upper atmosphere and radiation budget.

## **Power Plant Emissions**

The flue gases from Power Project will be discharged through stack of 30 m height. The data has been monitored since from the inception of the project and shall be continued on regular intervals. The major pollutant in the flue gas are PM, SO<sub>2</sub>, NO<sub>x</sub>, and Ozone.

## **Content of the study** – Impact of power plant operation on the following:

a) **Ambient Air Quality** – The AAQ standard as per National Ambient Air Quality Standard (NAAQS) prescribed under Environment Protection Rule are attached as Annexure A. The parameters are:

1. Sulphur Dioxide (SO<sub>2</sub>)
2. Nitrogen Dioxide (NO<sub>2</sub>)
3. Particulate Matter (PM<sub>10</sub>)
4. Particulate Matter (PM<sub>2.5</sub>)

5. Ozone ( $O_3$ )
6. Lead (Pb)
7. Carbon Monoxide (CO)
8. Ammonia ( $NH_3$ )
9. Benzene ( $C_6H_6$ )
10. Benzo(a) Pyrene (BaP)
11. Arsenic (As)
12. Nickel (Ni)

**So it is proposed to measure the parameters quarterly to include all seasons at well distributed four locations around power plant.**

b) **Upper Atmosphere Chemistry** – The atmospheric chemistry studies the chemical composition of the natural atmosphere, the way gases, liquids, and solids in the atmosphere interact with each other and with the earth's surface and associated biota, and how human activities may be changing the chemical and physical characteristics of the atmosphere.

Certain man made gases interacting with each other and formed environmental pollutants in the upper atmosphere. These gases are mainly:

1. Oxides of Sulphur ( $SO_x$ )
2. Ozone ( $O_3$ )
3. Oxides of Nitrogen ( $NO_x$ )

Thus it is proposed to measure the trend of the above parameters for studying the impact on the chemistry of upper atmosphere in long term study due to gas emission.

c) **Radiation Budget** - The Earth can be considered as a physical system with an energy budget. The shortwave radiation net flow of energy into Earth and the longwave radiation out to Space determine the Earth's radiation budget.

There are various parameters which are affecting the earth's radiation budget. Particulate matter and SO<sub>2</sub> is the major contributor for affecting Sun radiation on earth.

Particulate matter (PM) – are tiny pieces of solid or liquid matter associated with the Earth's atmosphere. They are suspended in the atmosphere as atmospheric aerosol. The aerosol effect consists of any change to the earth's radiative budget due to the modification of clouds by atmospheric aerosols, and consists of several distinct effects.

Sulphur Dioxide (SO<sub>2</sub>) - Sulphur dioxide is a major air pollutant and has significant impacts upon human health. Sulphur dioxide emissions are a precursor to acid rain and atmospheric particulates. It can be reduced by using Diesel of low Sulphur content or Natural Gas for running the gas turbines.

Thus it is proposed to measure the above parameters for long term study on the impact on radiation budget.

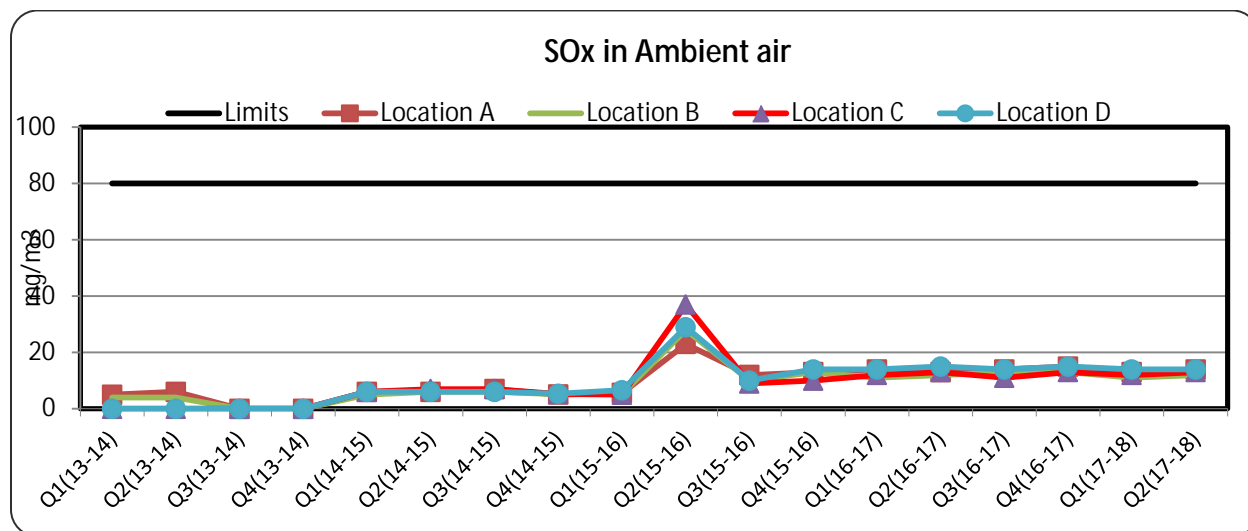
**Measures results and graphs** – The study commenced from April 2013 onwards. The Results are attached as below:

<b>AMBIENT AIR MONITORING DATA 1st Qrt</b>									
	S. No	Location	Starting Date	End Date	SO <sub>2</sub>	NO <sub>x</sub>	Ozone	PM <sub>2.5</sub>	PM <sub>10</sub>
2013-14	1	Site A	26.06.2013	27.06.2013	5	22	105	26	65
	2	Site B	26.06.2013	27.06.2013	4	20	110	26	58
	3	Site C	26.06.2013	27.06.2013	BDL	19	100	22	58
	4	Site D	26.06.2013	27.06.2013	BDL	18	105	23	51
2014-15	5	Site A	29.05.2014	30.05.2014	6	21	106	29	67
	6	Site B	29.05.2014	30.05.2014	5	22	109	27	61
	7	Site C	29.05.2014	30.05.2014	6	23	100	22	24
	8	Site D	29.05.2014	30.05.2014	6	21	105	26	55
2015-16	9	Site A	28.06.2015	29.06.2015	6	20	48	22	39
	10	Site B	28.06.2015	29.06.2015	5	22	60	26	40
	11	Site C	28.06.2015	29.06.2015	5	17	46	23	36
	12	Site D	28.06.2015	29.06.2015	7	23	67	23	45
2016-17	13	Site A	02.06.2016	03.06.2016	14	24	118	42	76
	14	Site B	02.06.2016	03.06.2016	11	24	115	45	75
	15	Site C	02.06.2016	03.06.2016	12	21	111	39	72
	16	Site D	02.06.2016	03.06.2016	14	23	120	43	75
2017-18	17	Site A	02.06.2017	03.06.2017	13	23	107	40	100
	18	Site B	02.06.2017	03.06.2017	11	23	110	41	79
	19	Site C	02.06.2017	03.06.2017	12	23	109	36	78
	20	Site D	02.06.2017	03.06.2017	14	24	111	41	76

<b>AMBIENT AIR MONITORING DATA IIInd Qrt</b>									
	S.No	Location	Starting Date	End Date	SO <sub>2</sub>	NO <sub>x</sub>	Ozone	PM <sub>2.5</sub>	PM <sub>10</sub>
2013-14	1	Site A	26.08.2013	27.08.2013	6	25	110	27	68
	2	Site B	26.08.2013	27.08.2013	4	23	108	26	65
	3	Site C	26.08.2013	27.08.2013	BDL	20	103	23	62
	4	Site D	26.08.2013	27.08.2013	BDL	19	107	25	55
2014-15	5	Site A	12.09.2014	13.09.2014	6	20	115	30	69
	6	Site B	12.09.2014	13.09.2014	6	23	110	28	64
	7	Site C	12.09.2014	13.09.2014	7	22	108	31	67
	8	Site D	12.09.2014	13.09.2014	6	23	105	27	65
2015-16	9	Site A	25.08.2015	26.08.2015	23	57	37	29	64
	10	Site B	25.08.2015	26.08.2015	28	42	82	31	72
	11	Site C	25.08.2015	26.08.2015	37	55	42	23	58
	12	Site D	26.08.2015	27.08.2015	29	43	66	31	47
2016-17	13	Site A	03.09.2016	04.09.2016	14	24	118	42	76
	14	Site B	03.09.2016	04.09.2016	12	23	112	44	76
	15	Site C	03.09.2016	04.09.2016	13	24	116	38	77
	16	Site D	03.09.2016	04.09.2016	15	26	113	40	74
2017-18	17	Site A	24.08.2017	25.08.2017	14	24	107	40	79
	18	Site B	24.08.2017	25.08.2017	12	22	110	41	77
	19	Site C	24.08.2017	25.08.2017	13	23	109	36	78
	20	Site D	24.08.2017	25.08.2017	14	25	111	41	76

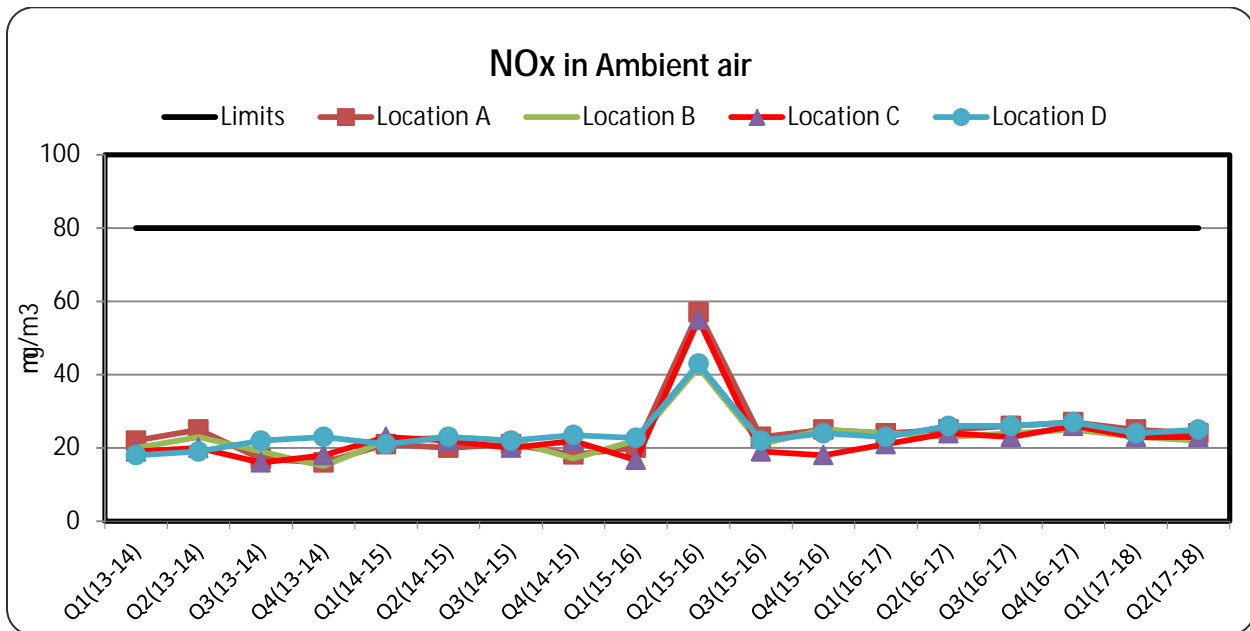
The obtained values are compared with the standard prescribed by Central Pollution Control Board (CPCB)/ MoEFCC. The interpretation of these data is as follows:

**Sulphur Dioxide (SO<sub>2</sub>):** 24 hourly monitoring concentrations at various locations varied between 0 to 37 µg/m<sup>3</sup>. It reflects that their no increase in pollution load in AAQ of the area.

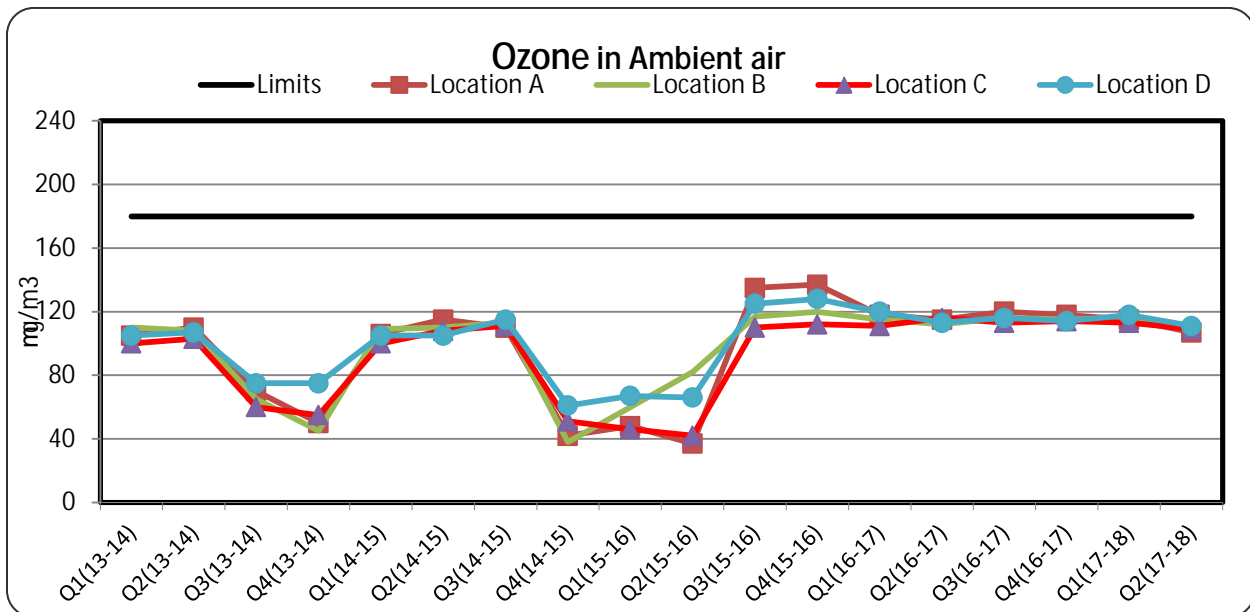




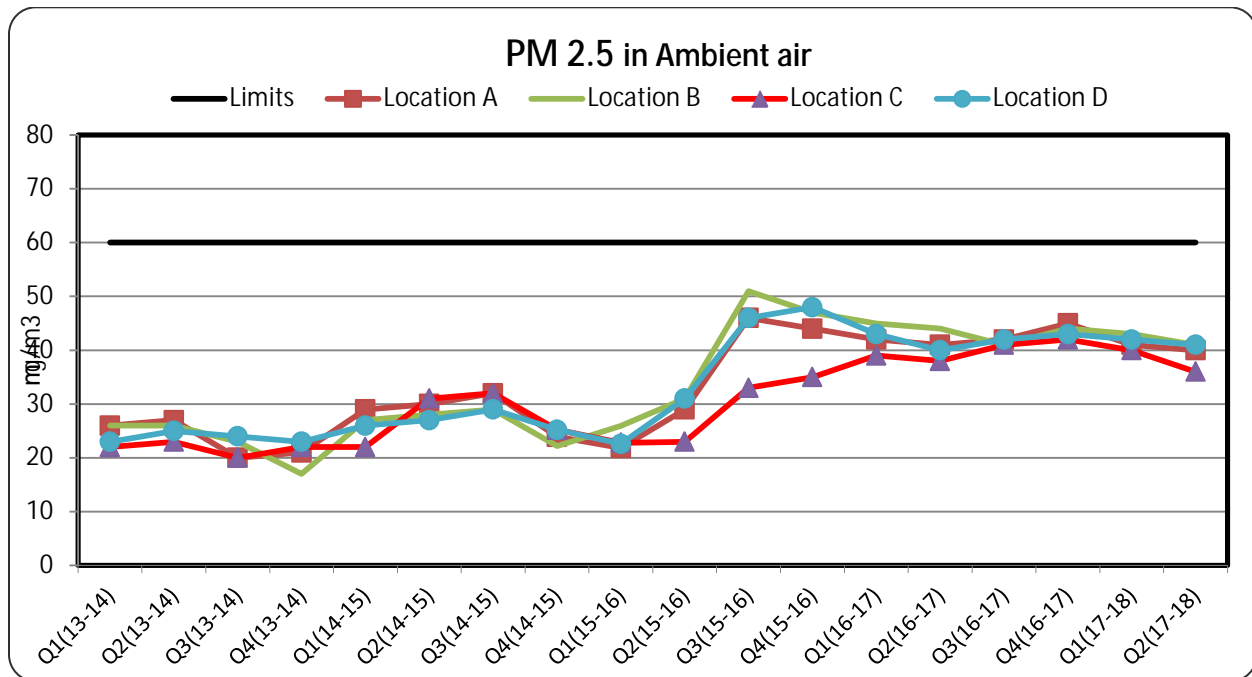
**Nitrogen Oxide (NO<sub>x</sub>):** 24 hourly monitoring concentrations at various locations varied between 15 to 57 µg/m<sup>3</sup>. It reflects that their no increase in pollution load in AAQ of the area.



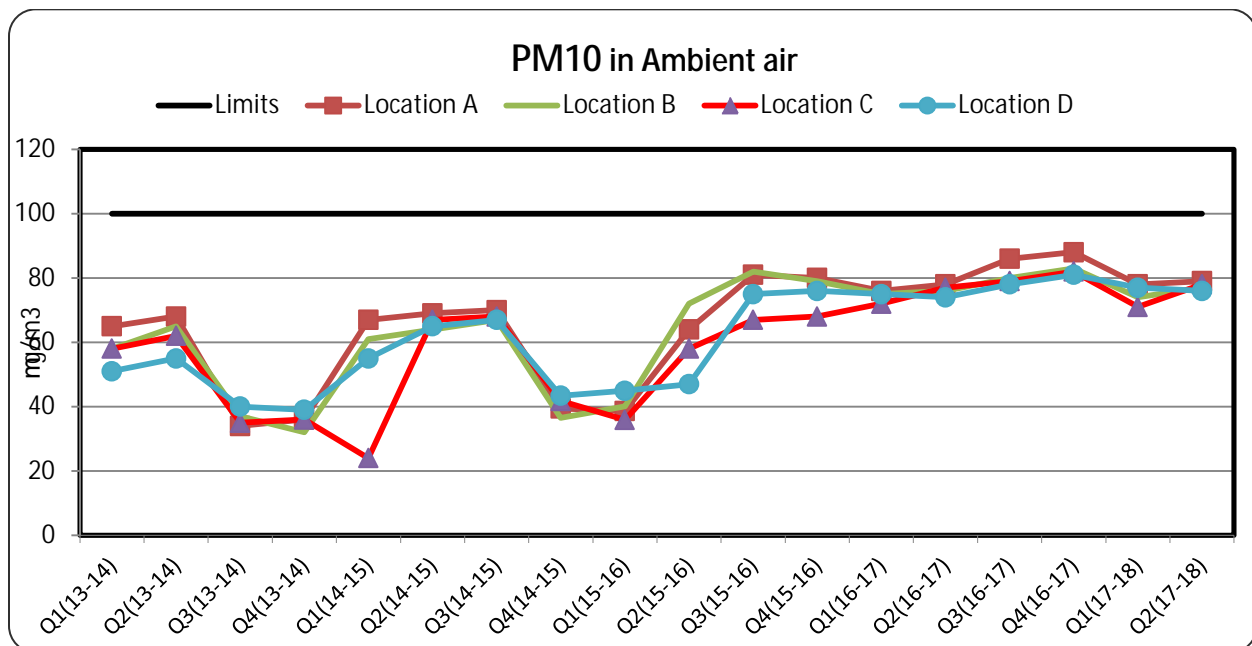
**Ozone(O<sub>3</sub>):** The concentrations are various locations varied between 37 to 137 µg/m<sup>3</sup>. The study reflects that the effect on surrounding area due to the power plant emission is negligible.



PM<sub>(2.5)</sub>: 24 hourly monitoring concentrations at various locations varied between 17 to 51  $\mu\text{g}/\text{m}^3$ . It shows that the increase of pollution load is negligible in AAQ of the area.



PM<sub>(10)</sub>: 24 hourly monitoring concentrations at various locations varied between 24 to 88  $\mu\text{g}/\text{m}^3$ . It shows that the increase of pollution load is negligible in AAQ of the area.



### **Conclusion:**

The total concentrations are compared with National Ambient Air Quality Standards as notified by Central Pollution Control Board. It is concluded that there is no appreciable increase in the concentration of criterion pollutant namely Particulate matter, SO<sub>x</sub>, NO<sub>x</sub> and Ozone, so there is negligible impact on AAQ, chemistry of upper atmosphere and radiation budget.

## NATIONAL AMBIENT AIR QUALITY STANDARDS (2009)

Pollutants	Time Weighted Average	Concentration in Ambient Air		Methods of Measurement
		Industrial, Residential, Rural and other Areas	Ecologically Sensitive Area (Notified by Central Government)	
<b>Sulphur Dioxide (SO<sub>2</sub>), µg/m<sup>3</sup></b>	Annual * 24 Hours **	50 80	20 80	-Improved West and Gaeke Method -Ultraviolet Fluorescence
<b>Nitrogen Dioxide (NO<sub>2</sub>), µg/m<sup>3</sup></b>	Annual * 24 Hours **	40 80	30 80	-Jacob & Hochheiser modified (NaOH-NaAsO <sub>2</sub> ) Method -Gas Phase Chemiluminescence
<b>Particulate Matter (Size less than 10µm) or PM<sub>10</sub>, µg/m<sup>3</sup></b>	Annual * 24 Hours **	60 100	60 100	-Gravimetric -TEOM -Beta attenuation
<b>Particulate Matter (Size less than 2.5µm) or PM<sub>2.5</sub>, µg/m<sup>3</sup></b>	Annual * 24 Hours **	40 60	40 60	-Gravimetric -TEOM -Beta attenuation
<b>Ozone (O<sub>3</sub>) µg/m<sup>3</sup></b>	8 Hours * 1 Hour **	100 180	100 180	-UV Photometric -Chemiluminescence -Chemical Method
<b>Lead (Pb) µg/m<sup>3</sup></b>	Annual * 24 Hours **	0.50 1.0	0.50 1.0	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter paper -ED-XRF using Teflon filter
<b>Carbon Monoxide(CO), mg/m<sup>3</sup></b>	8 Hours ** 1 Hour **	02 04	02 04	-Non dispersive Infrared (NDIR) Spectroscopy
<b>Ammonia (NH<sub>3</sub>), µg/m<sup>3</sup></b>	Annual * 24 Hours **	100 400	100 400	-Chemiluminescence -Indophenol blue method
<b>Benzene (C<sub>6</sub>H<sub>6</sub>), µg/m<sup>3</sup></b>	Annual *	05	05	-Gas Chromatography (GC) based continuous analyzer -Adsorption and desorption followed by GC analysis
<b>Benzo(a)Pyrene (BaP) Particulate phase only, ng/m<sup>3</sup></b>	Annual *	01	01	-Solvent extraction followed by HPLC/GC analysis
<b>Arsenic (As), ng/m<sup>3</sup></b>	Annual *	06	06	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter paper
<b>Nickel (Ni), ng/m<sup>3</sup></b>	Annual *	20	20	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter paper

\* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

**NOTE:** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigations.



**TEST REPORT**

**AMBIENT AIR MONITORING**

Lab. Ref.: PCRI: Air & Noise: 2017-2018 :0116

Date: 17.06.2017

**A. GENERAL INFORMATION:**

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-0-791
3.	Date of sampling	:	02.06.2017 to 03.06.2017
4.	Location of Sampling	:	A: Near Material Gate
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

**B. RESULTS OF AMBIENT AIR MONITORING:**

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	13	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	25	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	78	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	41	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	115	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.3	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	12	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

*R. S. Yadav*  
( R S Yadav )

Dy. Manager (PCRI)

राजेश सिंह यादव/ R. S. Yadav

उप प्रबंधक/ Dy Manager

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of 1986 and CPCB Notification N. Delhi, the 18 Nov. 2009. Also providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
(2) This report is not to be reproduced wholly or partly and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.  
(3) Samples will be disposed off after one month from the date of issue of Test Certificate

## TEST REPORT

### AMBIENT AIR MONITORING

Lab. Ref.:PCRI: Air & Noise: 2017-2018 :0117

Date: 17.06.2017

#### A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-O-791
3.	Date of sampling	:	02.06.2017 to 03.06.2017
4.	Location of Sampling	:	B:Gate No. 1
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999 , NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9) , APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

#### B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	11	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	74	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	43	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	116	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.5	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	13	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

*R. S. Yadav*  
( R S Yadav )

Dy. Manager ( PCRI )

प्रमुख निरीक्षक/ R. S. Yadav

उप निरीक्षक/ Dy. Manager

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPQR and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
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(3) Samples will be disposed off after one month from the date of issue of Test Certificate

प्रदूषण नियन्त्रण अनुसंधान संस्थान  
BHEL, Ranipur, Haridwar



(Approved Lab under Environment (Protection) Act, 1986: EIA Consultancy by NABET, QCI)

## TEST REPORT

### AMBIENT AIR MONITORING

Lab. Ref.:PCRI: Air & Noise: 2017-2018 :0118

Date: 17.06.2017

#### A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-O-791
3.	Date of sampling	:	02.06.2016 to 03.06.2016
4.	Location of Sampling	:	C:SND Gate
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999 , NDIR, Jacob & Hochheiser Modified ( Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9) , APHA-819, AAS, and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

#### B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	71	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	40	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	113	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	1.9	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	11	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

  
( R S Yadav )  
Dy. Manager (PCRI)  
जयदेव सिंह यादव/ R. S. Yadav  
जय देव यादव/Dy. Manager  
प्रदूषण नियन्त्रण अनुसंधान संस्थान  
BHEL, Ranipur, Haridwar

**Services Offered :** Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & Pollution Control Boards. Test reports, Environmental Impact Assessment, Environmental Audits reports

- Remarks :-
- (1) This report refers only to the particular sample/job submitted for testing.
  - (2) This report is not to be reproduced wholly or partly and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.
  - (3) Samples will be disposed off after one month from the date of issue of Test Certificate

## TEST REPORT

### AMBIENT AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2017-2018 :0119  
Date: 17.06.2017

#### A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-O-791
3.	Date of sampling	:	02.06.2016 to 03.06.2016
4.	Location of Sampling	:	D:Near Incinerator
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified ( Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

#### B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	14	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	77	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	42	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	118	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.0	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	13	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

*R. S. Yadav*  
( R S Yadav )  
Dy. Manager ( PCRI )  
रानीपुर, हरिद्वार / R. S. Yadav  
जय प्रकाश / Dy. Manager  
Pollution Control Research Institute  
Ranipur, Haridwar

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & N.P.C.B and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
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(Approved Lab under Environment (Protection) Act, 1986: EIA Consultancy by NABET, QCI)

## TEST REPORT AMBIENT AIR MONITORING

**Lab. Ref.:**PCRI: Air & Noise:2017-2018 :0533  
**Date:** 14.09.2017

### A. GENERAL INFORMATION:


1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-0-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	A:Near Material Gate
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified(Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

### B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	14	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	79	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	40	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	107	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.2	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	10	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009.

  
 ( R S Yadav )  
 Dy. Manager ( PCRI )  
 राजेन्द्र सिंह यादव/ R. S. Yadav  
 उप प्रबन्धक/ Dy Manager  
 Pollution Control Research Institute  
 प्रदूषण नियन्त्रण अनुसंधान संस्थान  
 BHEL, Ranipur, Haridwar

**Services Offered :** Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPCB and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
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**TEST REPORT**  
**AMBIENT AIR MONITORING**

Lab. Ref.:PCRI: Air & Noise:2017-2018 :0534  
Date: 14.09.2017

**A. GENERAL INFORMATION:**

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-0-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	B:Gate No. 1
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

**B. RESULTS OF AMBIENT AIR MONITORING:**

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	22	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	77	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	41	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	110	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.4	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	12	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

*R. S. Yadav*  
( R S Yadav )  
Dy. Manager ( PCRI )  
राजेश सिंह यादव/R. S. Yadav  
उप प्रबन्धक/Dy Manager  
Pollution Control Research Institute  
प्रदूषण नियन्त्रण अनुसंधान संस्थान  
BHEL, Ranipur, Haridwar

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPBES and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
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(Approved Lab under Environment (Protection) Act, 1986: EIA Consultancy by NABET, QCI)

**TEST REPORT**  
**AMBIENT AIR MONITORING**

Lab. Ref.: PCRI: Air & Noise: 2017-2018 : 0535  
Date: 14.09.2017

**A. GENERAL INFORMATION:**

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-O-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	C:SND Gate
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified ( Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

**B. RESULTS OF AMBIENT AIR MONITORING:**

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	13	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	78	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	36	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	109	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	1.85	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	11	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009

*R. S. Yadav*  
( R S Yadav )  
Dy. Manager ( PCRI )  
राजेन्द्र सिंह यादव/ R. S. Yadav  
उप प्रबन्धक/ Dy Manager  
Pollution Control Research Institute  
प्रदूषण नियन्त्रण अनुसंधान संस्थान  
Bharat Heavy Electricals Limited, Haridwar

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SP Act and providing Test reports, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
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(Approved Lab under Environment (Protection) Act, 1986: EIA Consultancy by NABET, QCI)

**TEST REPORT**  
**AMBIENT AIR MONITORING**

Lab. Ref.: PCRI: Air & Noise: 2017-2018: 0536

Date: 14.09.2017

**A. GENERAL INFORMATION:**

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-O-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	D:Near Incinerator
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182( Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

**B. RESULTS OF AMBIENT AIR MONITORING:**

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide ( SO <sub>2</sub> )	µg/m <sup>3</sup>	14	80
2.	Nitrogen Dioxide ( NO <sub>2</sub> )	µg/m <sup>3</sup>	25	80
3.	Particulate Matter less than 10 µm or PM <sub>10</sub>	µg/m <sup>3</sup>	76	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	µg/m <sup>3</sup>	41	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	111	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.1	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic ( As )	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	12	20

BDL: Below Detectable Limit,

\*\* : National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009.

*(Signature)*  
( R S Yadav )  
Dy. Manager ( PCRI )  
राजेन्द्र सिंह यादव/ R. S. Yadav  
उप प्रबन्धक/ Dy Manager  
Pollution Control Research Institute  
प्रदूषण नियन्त्रण अनुसंधान संस्थान  
BHEL, Ranipur, Haridwar

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPCB and performing tests, Environmental Impact Assessment, Environmental Audits reports

Remarks :- (1) This report refers only to the particular sample/job submitted for testing.  
(2) This report is not to be reproduced wholly or partly and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.  
(3) Samples will be disposed off after one month from the date of issue of Test Certificate



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA**  
**Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.**

No. SEIAA/HR/2014/453

Dated: 14.03.2014

To

M/S Maruti Suzuki India Ltd.  
 C/o EGM Department, Palam Gurgaon Road  
 Gurgaon, Haryana 122015

**Subject: Environment Clearance for expansion of captive Power Plant by 13.5 MW at Maruti Suzuki India Ltd. at Plot no. 1, Sector-33B-33C, IMT, Rohtak.**

Dear Sir,

This has reference to your application no. MSIL:PRDS:EGM:11-12:011 dated 25.04.2011 addressed to IA Division Thermal Power Plant and transferred to MS, SEIAA on 16.05.2012 and subsequent letters dated 23-07-2012, 24.08.2012, 12.11.2013, 06.01.2014 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1 pre-feasibility report, EIA/EMP on the basis of approved TOR and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.4.2008/23.3.2012 in its meetings held on 28.06.2012, 29.09.2012, 25.06.2013, 06.08.2013, 16.12.2013 and 08.01.2014.

[2] It is inter-alia noted that the project is for the project is for expansion of captive power plant from 4.8 MW capacity to total capacity of 13.5 MW based on ultra low sulphur HSD at Plot no. 1, Sector-33B-33C, IMT, Rohtak on plot area of 6000 sqmt which is available within the proposed R&D centre of Maruti Suzuki India Ltd. at IMT Rohtak. The fuel requirement is 400 Lt /hr and project proponent shall provide 200 KL HSD tank for storage of fuel. The requisite clearance from Petroleum and Explosives Safety Organization (PESO) for HSD shall be taken. The project proponent has proposed to develop 30% of plant area as green belt. Acoustic noise curtain shall be provided to reduce noise pollution. The stack height shall be 30 mtrs. The system is based on air cooled technology and closed circuit air cool condenser will be used. The water requirement shall be 2 KLD which will be met from HSIIDC.

[3] It was noticed that project is covered under item no.1 (d) of EIA notification dated 14.9.06 and SEAC has appraised this project as category B-I project. The TOR's were approved on 28.06.2012. The public hearing in this case was exempted as the proposed project is located in Notified Industrial Estate. The project proponent on the basis on approved TOR's submitted EIA/EMP on 12.11.2013.

[4] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its 67<sup>th</sup> meeting held on 28.02.2014 decided to accord necessary environmental clearance for the project under Category 1(d) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

**SPECIFIC CONDITIONS:-**

- [1] The proposed project shall be set up on plot area of 6000 sqmt within the proposed R&D centre of Maruti Suzuki India Ltd. at IMT Rohtak
- [2] Ultra low sulphur HSD shall only be used as fuel.
- [3] The project proponent shall appoint well qualified fire supervisor.
- [4] Dry Low NO<sub>x</sub> burners shall be provided and it shall be ensured that NO<sub>x</sub> emissions from the stack are less than 100 ppm.
- [5] The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.
- [6] Air cooled condensers shall be installed.
- [7] The drinking water requirement during construction and operation phase shall be met by HSIIDC Supply.
- [8] Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to the SEIAA.
- [9] Leg of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.
- [10] The project proponent shall develop 3 meter wide green belt as buffer zone around the plant boundary as sound barrier. The area under greenbelt shall be at least 30% of the total area.
- [11] First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- [12] The project proponent shall take adequate preparation for fire and other kinds of disaster including chemical disaster. On-site, off-site emergency plan should be prepared and rehearsed in regular mock drills.
- [13] The project Proponent shall initiate a long term study through a reputed institution to assess the cumulative impact of the power plants on the AAQ of the area. The study shall in particular assess the impact of emission of the HSD based power



plant on the chemistry of upper atmosphere and on concentration of  $PM_{10}$ ,  $PM_{2.5}$ . It shall be ensured that the worst seasonal atmospheric conditions are taken into account in the above said study.

[14] The Project Proponent shall ensure that all possible hazards due to the power plant are contained within the plant premises.

[15] The project proponent shall use only treated water for cooling system.

**General Conditions:**

- [i] The Project Proponent shall ensure the commitments made in Form-1, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguards are complied with in letter and spirit. In case of contradiction between two or more documents on any point, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.
- [ii] The project proponent shall set up continuous online AAQ monitoring system (supervisory control & data acquisition) in the project area to monitor the parameters viz  $PM_{2.5}$ ,  $PM_{10}$ ,  $NO_x$ ,  $SO_x$  and CO. The project proponent shall ensure that the values of these parameters are within the prescribed limits of CPCB/HSPCB. .
- [iii] The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.
- [iv] The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the northern Regional Office of MoEF, the respective Zonal Office of CPCB, HSPCB and SEIAA Haryana.
- [v] Regional Office of the Ministry of Environment & Forests located at Chandigarh will monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.
- [vi] Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures

shall not be diverted for other purposed and year-wise expenditure shall be reported to the SEIAA, Panchuka.

- [vii] Full cooperation shall be extended to the Scientists/Officers from the Regional Office of the Ministry at Chandigarh/HSPCB who would be monitoring the compliance of environmental status.
- [viii] An Environmental Cell shall be created at the project site itself and shall be headed by qualified officer, who is well versed with the environmental aspects of gas based power plant. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.
- [ix] The project proponent shall display Material Safety Data Sheet (MSDS) of fuel in big fonts at suitable locations within project site. One copy of MSDS shall be supplied to DC Rohtak also.
- [x] Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of environment protection rule 1986 shall be complied with.
- [xi] The SEIAA, Haryana reserves the right to add additional safeguard measures subsequently, if found necessary. Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.
- [xii] The environmental clearance accorded shall be valid for a period of 5 years to start of production operation by the power plant.
- [xiii] In case of any deviation or alteration in the project proposed from that submitted to the SEIAA for clearance, a fresh reference shall be made to the SEIAA to assess the adequacy of the condition (s) imposed and to incorporate additional environmental protection measures required, if any.
- [xiv] The above stipulations shall be enforced along with others as under the Water Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1986, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Waste (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991 and rules there under.
- [xv] The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GoI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012 within 3 months period. Latest Corporate Environment Policy should be submitted to SEIAA within 3 months of issuance of this letter.
- [xvi] The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal.



- [xvii] Any appeal against the this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- [xviii] The fund ear-marked for environment protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MoEF, GoI under rules prescribed for Environment Audit.
- [xix] The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.
- [xx] The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their 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 SPCB. The criteria pollutant levels namely; PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- [xxi] The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- [xxii] The project proponent shall conduct environment audit at every three months interval and thereafter corrected measures shall be taken without any delay. Details of environmental audit and corrective measures shall be submitted in the monitoring report.



**Member Secretary,  
State Level Environment Impact  
Assessment Authority, Haryana, Panchkula.**

Endst. No. SEIAA/HR/2014

Dated:.....



A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, CGO Complex, Lodi Road, New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pk1.

**Member Secretary,  
State Level Environment Impact  
Assessment Authority, Haryana, Panchkula.**

MSIL:CUIP:ESEC:ENV:20-21:083

09-Nov-2020

To  
Ministry of Environment, Forest and Climate Change,  
Northern Regional Office  
Bays No 24-25, Sector – 31 A,  
Dakshin Marg  
Chandigarh

**Sub:** Half yearly report for Compliance of Expansion by 13.5 MW Captive Power Plant at Maruti Suzuki India Ltd. At Plot No. 1, Sector 33B-33C, IMT, Rohtak

**Ref: 1. Environment Clearance Letter from MoEF - No .SEIAA/HR/2014/453 dated 14.03.2014**

**2. MoEFCC letter No. J-13012/36/2012/-IA-II (T) dated 17<sup>th</sup> March 2015**

**3. MSIL Letter No. MSIL:CUIM:16-17:015 dated 20-May-2016**

**4. SEIAA Memo No. SEIAA/HR/2016/585 dated 29-07-2016**

Dear Sir,

MoEFCC has issued a clarification vide letter no. J-13012/36/2012/-IA-II (T) dated 17th March 2015, that Environment Clearance is not required for Diesel Generating Sets (captive not supplying power to grid). So the Environment Clearance is not required for the proposed 13.5 MW captive power plant expansion.

Now SEIAA, Haryana has clarified that "submission of Six Monthly Compliance Report is now not required as the activity is not covered under Thermal Power Plant category of EIA notification as per clarification rendered by MoEF&CC, GOI vide office memorandum 17.03.2015".

Thanking You.

Yours Faithfully

  
**MADAN BANSODE**  
**DGM (ENVIRONMENT)**  
**MARUTI SUZUKI INDIA LTD.**

Madan Ankush Bansode  
Deputy General Manager (Environment)  
Maruti Suzuki India Limited, Gurgaon

**CC:** 1. Haryana State Pollution Control Board, Panchkula  
2. Central Pollution Control Board, Lucknow  
3. State Environment Impact Assessment Authority, Haryana

**MARUTI SUZUKI INDIA LIMITED**

Head Office:  
Maruti Suzuki India Limited,  
1, Nelson Mandela Road, Vasant Kunj,  
New Delhi - 110070, India.  
Tel: 011- 46781000, Fax: 011-46150275/46150276  
E-mail id: contact@maruti.co.in, www.marutisuzuki.com

Gurgaon Plant:  
Maruti Suzuki India Limited,  
Old Palam Gurgaon Road,  
Gurgaon - 122015, Haryana, India.  
Tel: 0124-2346721, Fax: 0124-2341304

Manesar Plant:  
Maruti Suzuki India Limited,  
Plot no.1, Phase - 3A, IMT Manesar,  
Gurgaon - 122051, Haryana, India.  
Tel: 0124-4884000, Fax: 0124-4884199

**State Environment Impact Assessment Authority, Haryana,  
Bays No.55-58, Prayatan Bhawan, Sector-2 Panchkula.**

Telephone No. 0172-2565232

Memo No: SEIAA/HR/2016/585

Date: 29-07-2016

To,

Maruti Suzuki India Limited,  
Plot No. 1, Sector 33B-33C,  
IMT, Rohtak

**Subject: Half yearly Report for Compliance of Expansion by 13.5 MW Captive Power Plant by M/S Maruti Suzuki India Ltd at Plot No. 1, sector 33B-33C, IMT, Rohtak.**

Sir,

Reference is invited to your letter no. MSIL:CUIM:ENV:16-17:016 dated 20.05.2016. The Environment Clearance to Project Proponent was granted by SEIAA vide letter no. SEIAA/HR/2014/453 dated 14.03.2014.

It is informed that submission of Six Monthly Compliance Report is now not required as the activity is not covered under Thermal Power Plant category of EIA notification as per clarification rendered by MOEF & CC, GOI vide office memorandum 17.03.2015.

  
Member Secretary  
SEIAA, Haryana



**By Speed Post**

No. J-13011/71/2007-IA.II(T)  
Government of India  
Ministry of Environment & Forests

Prayavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110 003

Dated: 5<sup>th</sup> February, 2008

To

M/s Maruti Suzuki India Ltd.  
Palam – Gurgaon Road,  
Gurgaon- 122 015  
Haryana.

**Sub: 10x7 MW Gas turbine at Manesar, Gurgaon, Haryana by M/s Maruti Suzuki India Ltd - Environmental Clearance regarding.**

The undersigned is directed to refer your communication no. MUL: PRDS: EM2:1654 dated 3<sup>rd</sup> Oct, 2007 on the subject mentioned above. Subsequent information furnished vide letter no. MSIL:PRDS:EM2:1707 dated 7.1.2008 has also been considered.

2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 2006 for expansion of existing 16.2 MW power plant by adding 10x7 MW units. The power plant is captive power plant. The land requirement is 8500 m<sup>2</sup>. The coordinates of the proposed project site are latitude 27° 39' N to 28° 32' N and Longitude 76° 39' E to 77° 20' E. Gas will be used as fuel, however, HSD will be used as standby fuel in emergency when gas is not available. Gas requirement will be 1580 m<sup>3</sup>/day. Water requirement will be 2451 KL/day, which will be sourced from bore well. The project was exempted from public hearing being located in a notified industrial estate. Cost of the project is Rs 389.00 crores, which includes Rs 42.5 crores for environmental protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) No additional land shall be acquired in excess of 8500 m<sup>2</sup> for any utilities/facilities relating to the proposed project.



- (ii) NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC Observatory.
- (iii) Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available. However, the 3 turbines scheduled to be installed during 2008 may be operated on HSD till January, 2009 when gas would become available. Thereafter, gas shall be used as fuel.
- (iv) Dry Low NO<sub>x</sub> burners shall be provided and it shall be ensured that NO<sub>x</sub> emissions from the stack is less than 100 ppm.
- (v) The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.
- (vi) Air cooled condensers shall be installed.
- (vii) Water requirement shall not exceed the 2451 KL/day and shall be met from existing bore wells. The necessary prior permission for drawl of requisite quantity of groundwater for the project as applicable shall be obtained from the Competent Authority.
- (viii) Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant area. No effluents shall be discharged outside the plant boundary.
- (ix) Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/ State Ground Water Board and a copy of the same shall be submitted within three months to this Ministry.
- (x) Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.
- (xi) A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be at least 1/3<sup>rd</sup> of the total area.
- (xii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.

- (xiii) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the State Pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry at Chandigarh.
  - (xiv) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
  - (xv) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
  - (xvi) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry, the Regional Office, and the CPCB/SPCB.
  - (xvii) Regional Office of the Ministry of Environment & Forests located at Chandigarh will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring
  - (xviii) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.
  - (xix) Full cooperation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry at Chandigarh /the CPCB/the SPCB who would be monitoring the compliance of environmental status.
4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
  5. The environmental clearance accorded shall be valid for a period of 5 years to start of production operation by the power plant.
  6. In case of any deviation or alteration in the project proposed from that submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess

the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations shall be enforced along with others as under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991 and rules there under.



(Dr. S.K. AGGARWAL)  
Director

**Copy to:-**

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110001.
2. The Secretary (Environment), Deptt. of Environment, Haryana Civil Secretariat, Government of Haryana, Chandigarh.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana - **with a request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.**
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Northern Regional Office, Ministry of Environment & Forests, SCO 132-133, Sector 34-A, Chandigarh-160022.
7. The Director (EI), MOEF.
8. Guard file.
9. Monitoring file.



(Dr. S.K. AGGARWAL)  
Director

MSIL:CUIP:ESEC:ENV:20-21:076

09-Nov-2020

To  
Ministry of Environment, Forest and Climate Change  
Northern Regional Office  
Bays No 24-25, Sector – 31 A,  
Dakshin Marg  
Chandigarh

**Sub:** Half yearly report for Compliance of Environmental Condition for Gas turbine,  
Manesar (70 MW)

**Ref:** Environment Clearance Letter from Moef – No. J-13011/71/2007-IA-II (T), dated  
05.02.2008.

Dear Sir,

Enclosed please find herewith the half yearly report for the environment clearance  
issued for our Gas turbine.

Thanking You.

Yours Faithfully



MADAN BANSODE  
DGM (ENVIRONMENT)  
MARUTI SUZUKI INDIA LTD.

Madan Ankush Bansode  
Deputy General Manager (Environment)  
Maruti Suzuki India Limited, Gurgaon.

CC: 1. Haryana State Pollution Control Board, Panchkula  
2. Central Pollution Control Board, Lucknow

**MARUTI SUZUKI INDIA LIMITED**

## Head Office:

Maruti Suzuki India Limited,  
1, Nelson Mandela Road, Vasant Kunj,  
New Delhi - 110070, India.

Tel: 011- 46781000, Fax: 011-46150275/46150276

E-mail id: [contact@maruti.co.in](mailto:contact@maruti.co.in), [www.marutisuzuki.com](http://www.marutisuzuki.com)

## Gurgaon Plant:

Maruti Suzuki India Limited,  
Old Palam Gurgaon Road,  
Gurgaon - 122015, Haryana, India.

Tel: 0124-2346721, Fax: 0124-2341304

## Manesar Plant:

Maruti Suzuki India Limited,  
Plot no.1, Phase - 3A, IMT Manesar,  
Gurgaon - 122051, Haryana, India.

Tel: 0124-4884000, Fax: 0124-4884199



S. No.	Clearance Conditions	Compliance Status
1	No additional land shall be acquired in excess of 8500 m <sup>2</sup> for any utilities / facilities relating to the project.	The project is located within Maruti Suzuki India Limited premises at IMT Manesar and the power plant is set within 8500 sq.m area.
2	NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC observatory.	NOC obtained from BARC is placed at <a href="#">Annexure-1</a> .
3	Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available. However, the 3 turbines scheduled to be installed during 2008 may be operated on HSD till January,2009 when gas would become available. Thereafter, gas shall be used as fuel.	Natural gas supply has commenced at Manesar plant
4	Dry Low NO <sub>x</sub> burners shall be provided and it shall be ensured that NO <sub>x</sub> emission from the stack is less than 100 ppm.	NOx emissions are less than 100 ppm. The stack monitoring reports are placed at <a href="#">Annexure-2</a> .
5	The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.	All the stacks of the installed Gas Turbines are of 30 mts height and Continuous online monitoring system installed.
6	Air cooled condensers shall be installed.	Air cooled condenser installed for the Gas Turbines.
7	Water requirement shall not exceed the 2451 KL/day and shall be met from existing bore wells. The necessary prior permission for drawl of requisite quantity of groundwater for the project as applicable shall be obtained from the Competent Authority.	As air cooled condenser is installed for the Gas Turbines, the daily water requirement is very negligible and are met from the existing tube wells. Current water withdrawal is maintained within the quantity permitted by the Competent Authority.
8	Treated effluents conforming to the prescribed standards shall be recirculated and reused within the plant area, No effluents shall be discharged outside the plant boundary.	The treated effluents conform to the prescribed standards and are reused for the process requirements after recycling. Report is placed at <a href="#">Annexure-3</a> .
9	Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with central Ground water Authority/ State Ground Water Board and a copy of the same shall be submitted within three months to this Ministry.	The location of the lagoon is attached in <a href="#">Annexure-4</a> .
10	Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.	Gas Turbines are provided with the acoustic enclosure to limit the noise level within 75 dBA at plant boundary. The persons working in high noise areas are provided with the personal protection devices.
11	A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be at least 1/3 <sup>rd</sup> of the total area.	Details of Green Belt are placed at <a href="#">Annex: 4</a>
12	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid and necessary sanitation arrangement has been made available for the drivers and other contract workers during construction phase.
13	Regular monitoring of the ambient quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the state pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry at Chandigarh.	Ambient Air quality is being monitored quarterly at the locations fixed based on the modelling results from MoEFCC authorized Laboratory and the reports are placed at <a href="#">Annexure-5</a> .

14	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee 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> .	Notice was published in Amar Ujala (Hindi) and Tribune (English). Copy of the same is attached as <b>Annexure - 6</b>
15	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environment Management Department has been set up.
16	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry, the Regional Office and the CPCB/SPCB.	Half yearly compliance report will be submitted to MoEFCC Regional office.
17	Regional office of the Ministry of Environment & forests located at Chandigarh will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Complied
18	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.	Funds for EMP have been included in the project cost itself. It is utilised for this purpose only.
19	Full cooperation shall be extended to the Scientist/Officers from the Ministry/ Regional Office of the Ministry at Chandigarh/the CPCB/THE SPCB who would be Monitoring the Compliance of Environmental status.	Full Cooperation will be extended to the officials from SPCB / CPCB and MoEFCC.

## DATA SHEET

1.	Project Type	<del>River Valley/Mining/Industry /Transportation</del> <del>Tourism/Thermal/Nuclear/Other (Specify)</del>
2.	Name of the Project:	70 MW Gas turbine at Maruti Suzuki India Limited, Manesar, Haryana
3.	Clearance letter (s)/ O.M No. & dates:	No. J-13011/71/2007-IA.II(T) Dated: 5 <sup>th</sup> February, 2008
4.	Location: a) District (s) b) State (s) c) Latitudes/Longitudes	District: Gurgaon (South) State: Haryana Latitude: 27 <sup>0</sup> 39' N to 28 <sup>0</sup> 32'N Longitude: 76 <sup>0</sup> 39'E to 77 <sup>0</sup> 20'E
5.	a) Address of Correspondence (with Pin Code/ Tel No./Telex/Fax No./E mail address)  b) Address of executive Project Engineer/ Manager (with Pin Code/ Tel No./Telex/Fax No./Email address)	Mr. Madan Ankush Bansode Deputy General Manager – Environment Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Madan.Bansode@maruti.co.in">Madan.Bansode@maruti.co.in</a> Phone 0124 – 2346721 ~ 30 Extn : 3583  Mr. Alok Bansal Vice President – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <a href="mailto:Alok.Bansal@maruti.co.in">Alok.Bansal@maruti.co.in</a> Phone 0124 – 2346721 ~ 30
6.	Salient Features: a) of the project b) of the environmental management plans	Salient Features of the project and Environmental Management Plant details is enclosed in <b>Annexure A</b>
7.	Break up of the project area: a) Submergence area : Forest & Non-forest b) Others	The project is located within MSIL premises in the Industrial Area.
8.	Break up of the project affected population with enumeration of those losing house /dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/artisans. a) SC/ST/Adivasis b) Others (Please indicate whether these figure are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out, give details and year of survey)	Not Applicable

9.	<p>Financial details:</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year or price reference.</p> <p>b) Allocations made for environmental management plans with item wise and year wise break up.</p> <p>c) Benefit cost ratio/Internal Rate of Return and the year of assessment.</p> <p>d) Whether (c) includes the cost of environment management as shown in b) above.</p> <p>e) Actual expenditure incurred on the project so far.</p> <p>f) Actual expenditure incurred on the environmental management plans so far:</p>	<p>Rs. 389 Crores</p> <p>-</p> <p>-</p> <p>-</p> <p>Rs. 319 Crores</p> <p>Rs. 52.4 Crores</p>
10.	<p>Forest land requirement :</p> <p>a) The status of approval for diversion of forest land for non-forestry use.</p> <p>b) The status of clear felling.</p> <p>c) The status of compensatory afforestation of clear felling. If any.</p> <p>d) Comments on the viability &amp; sustainability of compensatory afforestation programmes in the light of actual field experience so far.</p>	Not Applicable
11.	The status of clear feeling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	Not Applicable
12.	<p>Status of construction.</p> <p>1. date of commencement (actual and/ or planned)</p> <p>2. Date of completion (actual and / or planned)</p>	<p>2X20MW GT are under operation.</p> <p>3X10 MW GT has been dismantled.</p>
13.	Reasons for the delay if the project is yet to start:	Not Applicable



**SALIENT FEATURES OF PROJECT:**

- |                        |   |   |
|------------------------|---|---|
| 1. Name of the Project | : | Gas turbine at Maruti Suzuki India Limited,<br>Manesar, Haryana |
| 2. Capacity            | : | 70 MW   |
| 3. Location            | : | Maruti Suzuki India Limited, IMT Manesar.                       |
| 4. Total project cost  | : | Rs. 389 Crores  |
| 5. Land Area           | : | 8500 sq m   |

**ENVIRONMENTAL MANAGEMENT PLAN**

***Water Pollution control***

- The Gas Turbine is air cooled hence the waste water generated shall be very minimum. Existing ETP will treat the effluent arising out of the plant operation and the treated waste water will be reused.

***Air Pollution control:***

- Stacks of the GT shall be maintained at 30 m.
- NO<sub>x</sub> emissions will be below 100 ppm.
- SPM and SO<sub>2</sub> emissions will be very low as natural gas is a clean fuel and ultra low sulphur diesel will be used initially or in case of emergency operation. Later on after the availability of natural gas, SPM and SO<sub>2</sub> emissions will further go down

***Noise Pollution Control***

- The noise from Gas Turbines will be controlled by acoustic enclosures. The noise level at the periphery of factory/premises will not exceed the ambient noise level.

***Ground Water***

- Rain water harvesting lagoons have been constructed to take care of surface run off and recharge the aquifers.

***Green belt development***

- Adequate green area will be developed with local area species having capacities to reduce SPM and noise levels.

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Fax

दूरभाष/Tel.: 022 - 2550 5354  
 फैक्स/Fax: 022 - 2550 5151  
 022 - 2550 5353  
 ई-मेल/e-mail: ndsharma@barc.gov.in



भारत सरकार

GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केंद्र

BHABHA ATOMIC RESEARCH CENTRE

सेंट्रल कॉम्प्लेक्स,  
 ट्रॉम्बे, मुंबई - 400 085.  
 Central Complex,  
 Trombay,  
 Mumbai - 400 085.

न. द. शर्मा  
 नियंत्रक  
 N. D. Sharma  
 Controller

Ref: 14/8/91/Admn-I / 3281

April 16, 2008

Maruti Suzuki India Limited,  
 Palam Gurgaon Road,  
 Gurgaon, Haryana - 122 015

Kind Attn: Mr Vinay Varshney, Chief General Manager (Production Services)

Sub: NOC for Expansion of Power Plant at MSIL, IMT Manesar

Sir,

With reference to your letter MSIL:PRDS:EM2:1728 dated 18<sup>th</sup> February, 2008, we confirm that BARC has no objection in expansion of your power plant at IMT Manesar.

Thanking You,

Yours faithfully,

(N. D. Sharma)  
 Controller

16/04/08

संचार अनुभाग / Communication Section  
 फैक्स परिपत्र / Fax Transmission

संदेश सं. / Message No. 6072  
 दिनांक 27/5/08  
 Transmitted on ..... at ..... hrs.

**TEST REPORT****Issued to: MSIL Manesar Vehicle Plant**
 Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

 J.O. No.: FL/ENV/09092020-015  
 ULR Code: TC5503 20 3 00005542 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 09/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: GULAB/SEPTESH
**Sample Particulars:**

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 09/09/2020
Time of sampling	: 02:40 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine -1
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine -1
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 57

**Observations:**

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 226.2
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20474

**Analysis Report**

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	13.46	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	02.98	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	17.54	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	21.26	NA	IS-13270
5	Carbon Dioxide, %	10.34	NA	IS-13270

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

Page 1 of 2

(AUTHORISED SIGNATORY)

D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-015

ULR Code: TC5503 20 3 00005542 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 09/09/2020
Time of sampling	: 02:40 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine -1
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine -1
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 57

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 226.2
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20474



### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	06.10	NA	FL/SOP/GC-24

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Surbhi Kumari

Checked By:

Rita Singh

(AUTHORISED SIGNATORY)

D Mathur, Director

Page 2 of 2

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Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-017  
ULR Code: TC5503 20 3 00005544 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 09/09/2020
Time of sampling	: 12:20 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine -2
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine -2
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Make & model No.	: NA
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 58

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 245
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20194



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	14.58	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	05.76	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	18.56	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	24.76	NA	IS-13270
5	Carbon Dioxide, %	09.80	NA	IS-13270

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

Page 1 of 2

(AUTHORISED SIGNATORY)

D Mathur, Director

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## TEST REPORT

### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

J.O. No.: FL/ENV/09092020-017  
 ULR Code: TC5503 20 3 00005544 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 09/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: GULAB/SEPTESH

### Sample Particulars:

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 09/09/2020
Time of sampling	: 12:20 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine -2
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine -2
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Make & model No.	: NA
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 58

### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 245
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20194



### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	06.34	NA	FL/SOP/GC-24

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:  
 Surbhi Kumari

Checked By:  
 Rita Singh

Page 2 of 2

(AUTHORISED SIGNATORY)  
 D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-016

ULR Code: TC5503 20 3 00005543 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 09/09/2020
Time of sampling	: 11:00 AM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-3
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-3
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 58

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 227
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20144



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	13.92	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	04.10	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	17.44	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	21.92	NA	IS-13270
5	Carbon Dioxide, %	09.96	NA	IS-13270

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-016

ULR Code: TC5503 20 3 00005543 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 09/09/2020
Time of sampling	: 11:00 AM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-3
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-3
Rated capacity	: 4.3 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 1.35
Sampling duration (min)	: 58

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 227
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 20144



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	04.82	NA	FL/SOP/GC-24

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

(AUTHORISED SIGNATORY)  
D Mathur, Director

Page 2 of 2

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FL/T/ GEN / F05





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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**  
Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-018  
ULR Code: TC5503 20 3 00005545 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 08/09/2020
Time of sampling	: 11:10 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-07
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-07
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 60

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 247.5
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 98434



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	10.56	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	03.70	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	14.64	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	19.72	NA	IS-13270
6	Carbon Dioxide, %	10.58	NA	IS-13270

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

Page 1 of 2

(AUTHORISED SIGNATORY)

D-Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**  
Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-018  
ULR Code: TC5503 20 3 00005545 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: <b>Stack Emissions Monitoring</b>
Date of sampling	: 08/09/2020
Time of sampling	: 11:10 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine-07
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine-07
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 60

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 247.5
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 98434



### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	7.42	NA	FL/SOP/GC-24

**NA=** Not Applicable

# As provided by Customer.

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

Page 2 of 2

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Fax : +91-124-4036038, Cell : +91-95992 21227

E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-014

ULR Code: TC5503 20 3 00005541 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 09/09/2020
Time of sampling	: 01:30 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine - 8
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine 8
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 57

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 215
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 102691



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Particulate matter (PM), mg/Nm <sup>3</sup>	14.52	NA	IS-11255 (P-1)
2	Sulphur Dioxide (as SO <sub>2</sub> ), ppm	03.60	NA	IS-11255 (P-2)
3	Oxides of Nitrogen (as NO <sub>x</sub> ), ppm	15.84	100	IS-11255 (P-7)
4	Carbon Monoxide (as CO), ppm	22.66	NA	IS-13270
5	Carbon Dioxide, %	10.42	NA	IS-13270

NA= Not Applicable

# As provided by Customer.

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

Page 1 of 2

(AUTHORISED SIGNATORY)

D Mathur, Director

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Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-014  
ULR Code: TC5503 20 3 00005541 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: GULAB/SEPTESH

#### Sample Particulars:

Nature of the sample	: Stack Emissions Monitoring
Date of sampling	: 09/09/2020
Time of sampling	: 01:30 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Check Pollution Load
Name of the emission source monitoring	: Gas Turbine - 8
Sampling method	: IS-11255 (P-7) & FL/SOP/ENV/D-02
Stack identification	: Stack attached to Gas Turbine 8
Rated capacity	: 20 MW
Type of fuel used & its consumption	: Natural Gas
Normal operating schedule	: As per requirement
Type of stack /duct	: Mild Steel
Stack height from Ground Level (m)	: 30
Internal Diameter of the stack (m)	: 3
Sampling duration (min)	: 57

#### Observations:

Number of Traverse Points	: 4
Flue Gas Temperature °C	: 215
Ambient Air Temperature °C	: 35
Volumetric Flow Rate (Nm <sup>3</sup> /Hr)	: 102691



TC-5503

### Analysis Report

S. No.	Parameters	Test Results	Allowable limit#	Test Method
1	Total Hydrocarbons, ppm	03.64	NA	FL/SOP/GC-24

# As provided by Customer.

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

Page 2 of 2

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D Mathur, Director

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FL / T / GEN / F05





# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

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Annexure 3



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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040  
ULR Code: TC5503 20 2 00009266 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample  
Location  
Sample Quantity & Packaging  
Test Started on  
Test Completed  
Method of Sampling  
Date of Sampling  
Sample Collected by

: **ETP Outlet Water** (One Sample)  
: None  
: 5 Litre Pet can  
: 08/09/2020  
: 14/09/2020  
: FL/SOP/B/D-1  
: 08/09/2020  
: Mr. Ankur (FARELABS Representative)



TC-5503

### Analysis Report

**Physical Description:** Clear water

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1	Colour	20	#	Visual
2	Odour	Characteristics	#	IS:3025 (P-5)
3	pH Value	8.03	5.5-9.0	IS-3025 (P-11)
4	Temperature °C	31.4	Shall not exceed 5 °C above the receiving water temperature.	APHA 23 <sup>rd</sup> Ed.
5	Total Suspended Solids, mg/L	10	100	IS-3025 (P-17)
6	Biochemical Oxygen Demand, @ 27°C For 3days, mg/L	2	30	APHA 23 <sup>rd</sup> Ed.
7	Chemical Oxygen Demand, mg/L	20	250	IS-3025 (P-58)
8	Oil & Grease, mg/L	ND, [LOQ - 2.0]	10	IS-3025 (P-39)
9	Dissolved Phosphate, mg/L	4.6	5.0	APHA 23 <sup>rd</sup> Ed.
10	Total kjeldahl Nitrogen(NH <sub>3</sub> ), mg/L	0.56	100	APHA 23 <sup>rd</sup> Ed.
11	Fluoride (as F), mg/L	0.32	2.0	APHA 23 <sup>rd</sup> Ed.
12	Cyanide (as CN), mg/L	ND, [LOQ - 0.03]	0.2	APHA 23 <sup>rd</sup> Ed.
13	Total Residual Chlorine, mg/L	0.3	1.0	APHA 23 <sup>rd</sup> Ed.
14	Ammonical Nitrogen (N), mg/L	0.26	50	APHA 23 <sup>rd</sup> Ed.
15	Sulphide (as S), mg/L	1.8	2.0	APHA 23 <sup>rd</sup> Ed.
16	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), mg/L	ND, [LOQ - 0.1]	1.0	APHA 23 <sup>rd</sup> Ed.
17	Nitrate Nitrogen, mg/L	7.92	10	IS-3025 (P-34)
18	Free Ammonia, mg/L	ND, [LOQ - 0.01]	5.0	APHA 23 <sup>rd</sup> Ed.

Testing Section

Prepared By  
Nayla Tazeen

Checked By  
Satish Kumar Singh

Page 1 of 3

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040

ULR Code: TC5503 20 2 00009266 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **ETP Outlet Water** (One Sample)

: None

: 5 Litre Pet can

: 08/09/2020

: 14/09/2020

: FL/SOP/B/D-1

: 08/09/2020

: Mr. Ankur (FARELABS Representative)



TC-5503

### Analysis Report

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1	Iron (as Fe), mg/L	0.09	3	FL/SOP/ICPMS-23
2	Zinc (as Zn), mg/L	0.14	5.0	FL/SOP/ICPMS-23
3	Arsenic (as As), mg/L	ND, [LOQ - 0.01]	0.2	FL/SOP/ICPMS-23
4	Cadmium (as Cd), mg/L	ND, [LOQ - 0.002]	2.0	FL/SOP/ICPMS-23
5	Copper (as Cu), mg/L	0.027	3.0	FL/SOP/ICPMS-23
6	Total Chromium (as Cr), mg/L	0.056	2.0	FL/SOP/ICPMS-23
7	Hexavalent Chromium (as Cr), mg/L	ND, [LOQ - 0.001]	0.1	FL/SOP/ICPMS-23
8	Manganese (as Mn), mg/L	0.049	2.0	FL/SOP/ICPMS-23
9	Nickel (as Ni), mg/L	0.037	3.0	FL/SOP/ICPMS-23
10	Lead (as Pb), mg/L	ND, [LOQ - 0.01]	0.1	FL/SOP/ICPMS-23
11	Mercury (as Hg), mg/L	ND, [LOQ - 0.005]	0.01	FL/SOP/ICPMS-23
12	Selenium (as Se), mg/L	ND, [LOQ - 0.01]	0.05	FL/SOP/ICPMS-23
13	Vanadium (as V), mg/L	ND, [LOQ - 0.01]	0.2	FL/SOP/ICPMS-23

Testing Section

Prepared By

Omish Kumar

Checked By

Dr. C.S. Joshi

Page 2 of 3

(AUTHORISED SIGNATORY)

D Mathur, Director

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FL/T/GEN/F-05





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Website : www.farelabs.com

### TEST REPORT

**Issued to: MSIL Manesar vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar, gurgaon Haryana

J.O. No.: FL/W/08092020-040

ULR Code: TC5503 20 2 00009266 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample & No. of Sample

Location

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sample Collected by

: **ETP Outlet Water** (One Sample)

: None

: 5 Litre Pet can

: 08/09/2020

: 14/09/2020

: FL/SOP/B/D-1

: 08/09/2020

: Mr. Ankur (FARELABS Representative)



### Analysis Report

S. No.	Parameter	Test Result	Standard Limits*	Protocol
<b>Microbiological Analysis:</b>				
1	Faecal coliform, MPN per 100ml	11	<1000	IS:1622

**ND=** Not Detected; **LOQ=** Limit of Quantification

\*(Schedule VI Of EPA, 1993) For Discharge Into Surface Water

# All efforts should be made to remove colour and unpleasant odour as far as practicable.

**Inference:** The tested sample of water **conforms** to Standard Limits.

Testing Section

Prepared By  
Suman Yadav

Checked By  
Dr. M. Tripathi, QM

Page 3 of 3

(AUTHORISED SIGNATORY)  
Ms. Meenakshi Bakshi, Scientist-B

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## GREEN AREA AND RWH





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Analytic Labs Pvt. Ltd.**

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

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Annexure 5

7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006720

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description	: One Ambient Air sample was collected by us from 08/06/2020 to 09/06/2020
Name of Industry	: MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point	: Near gate no-1
Date of Sampling	: 08/06/2020 To 09/06/2020
Sampling started at	: 11:00 AM (Dt. 08/06/2020)
Sampling completed at	: 11:00 AM (Dt. 09/06/2020)
Actual time of sampling	: 1440 minutes
Flow rate of sampling	: 1.28 m <sup>3</sup> /minute
Total volume of air sampled	: 1843 m <sup>3</sup> (For PM 10) & 24.002 m <sup>3</sup> (For PM 2.5)
Ambient temperature (°C)	: 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	88.4	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	45.4	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO2)	µg/m <sup>3</sup>	25.9	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO2)	µg/m <sup>3</sup>	15.2	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.152	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C6H6)	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH3)	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O3) (8 hours)	µg/m <sup>3</sup>	33.7	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

<b>REMARKS</b>	1. Results listed refer only to the tested sample & applicable parameters. Endorsement of products is neither inferred nor implied. 2. Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only. 3. This Report is not to be reproduced wholly or in part and cannot be used as an evidence in the Court of law and should not be used in any advertising media without special permission in writing. 4. Sample shall be disposed off after issue of Test Report unless specified. 5. A complaint register is available with the laboratory.	Page : 1 of 2 Vikram Singh
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New Delhi-110041Phone : +(91)-(01334)-235552  
Phone : +(91)-93198-28884Email : simaharidwar@simalab.co.in  
Email : bmlab@simalab.com

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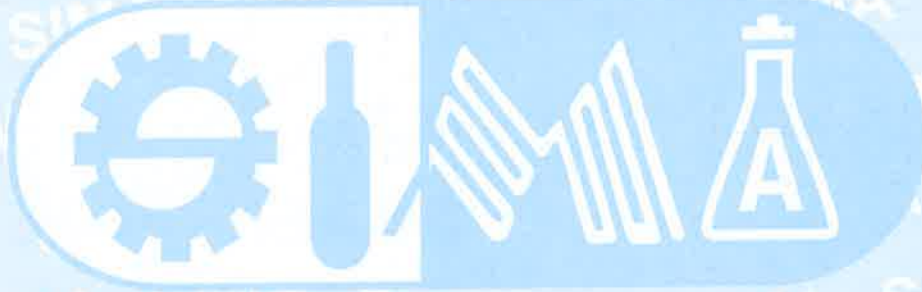
7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611006720

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 15/06/2020

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**BUILDING MATERIAL LAB** : Plot No. 107/11/2 & 107/20, Udhog Nagar Indl Area, Mundka,  
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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006820

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description : One Ambient Air sample was collected by us from 08/06/2020 to 09/06/2020

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Location of the Sampling Point : Near Incinerator

Date of Sampling : 08/06/2020 To 09/06/2020

Sampling started at : 12:00 PM (Dt. 08/06/2020)

Sampling completed at : 12:00 PM (Dt. 09/06/2020)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.25 m<sup>3</sup>/minute

Total volume of air sampled : 1800 m<sup>3</sup> (For PM 10) & 24.004 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	85.0	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	42.5	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	26.1	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	16.0	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.08	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	31.4	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

AUTHORISED SIGNATORY

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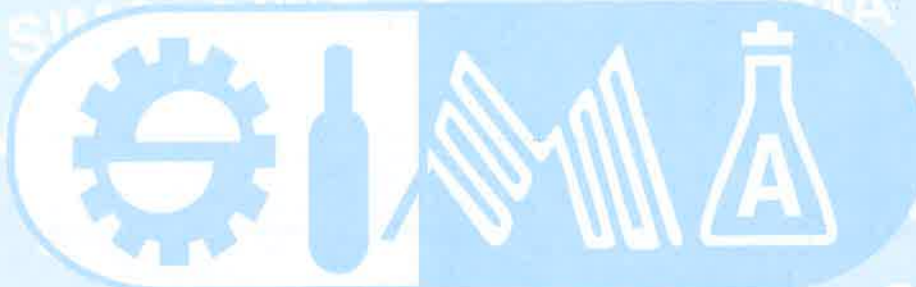
7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611006820

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 15/06/2020

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611007020

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020

SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description	: One Ambient Air sample was collected by us from 09/06/2020 to 10/06/2020
Name of Industry	: MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point	: Near material gate
Date of Sampling	: 09/06/2020 To 10/06/2020
Sampling started at	: 11:45 AM (Dt. 09/06/2020)
Sampling completed at	: 11:45 AM (Dt. 10/06/2020)
Actual time of sampling	: 1440 minutes
Flow rate of sampling	: 1.25 m <sup>3</sup> /minute
Total volume of air sampled	: 1800 m <sup>3</sup> (For PM 10) & 24.005 m <sup>3</sup> (For PM 2.5)
Ambient temperature (°C)	: 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	90.1	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	44.6	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	27.9	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	18.2	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.152	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	33.1	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

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**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611007020

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131  
ISSUED TO : MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0611006920

REF. NO. : NS

(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,  
Gurugram, Haryana

REF. DATE : NS

DT.RECD : 11/06/2020



SAMPLE NAME : AMBIENT AIR

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Description : One Ambient Air sample was collected by us from 09/06/2020 to 10/06/2020

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Location of the Sampling Point : Near SND gate

Date of Sampling : 09/06/2020 To 10/06/2020

Sampling started at : 11:20 AM (Dt. 09/06/2020)

Sampling completed at : 11:20 AM (Dt. 10/06/2020)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.28 m<sup>3</sup>/minuteTotal volume of air sampled : 1843 m<sup>3</sup> (For PM 10) & 24.002 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 40

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	87.0	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	41.7	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	28.6	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	17.7	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.025	2.0	NDIR - Spectroscopy	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	Methods of Air sampling & Analysis-401	0.05
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	30.1	100	Methods of Air sampling & Analysis-411	NA

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

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**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0611006920

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
9.	Lead (as Pb)	$\mu\text{g}/\text{m}^3$	BDL	1.0	Methods of Air sampling & Analysis-822	0.05
10.	Arsenic (as As)	$\text{ng}/\text{m}^3$	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	$\text{ng}/\text{m}^3$	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	$\text{ng}/\text{m}^3$	BDL	1.0	USEPA 8270-C	0.1



Date of performance : 11/06/2020 to 15/06/2020

BDL : Below Detection Limit

NA : Not Applicable

**SAMPLE COLLECTED BY US**

Date of completion : 15/06/2020

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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 08/09/2020  
Time of Sampling : 12:00 PM  
Test started on : 09/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near gate 1  
Average flow rate RSPM/SPM (m<sup>3</sup>/min) : 1.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	56.30	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	94.52	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	08.44	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	13.60	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.88	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	30.16	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	35.82	100	IS-5182(P-9)

Testing Section

Prepared By:

Arin Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

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Page 1 of 4

D Mathur, Director

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E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:00 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near gate 1
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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# FARELABS

## FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



### FARE LABS Private Limited

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,  
Gurgaon-122002, Haryana, INDIA  
Phone : +91-124-4223207, 4034205  
Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012

ULR Code: TC5503 20 3 00005539 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 08/09/2020

: 12:00 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near gate 1

: 1.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

Page 3 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-012  
ULR Code: TC5503 20 3 00005539 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:00 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near gate 1
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
ULR Code: TC5503 20 3 00005486 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 07/09/2020  
Time of Sampling : 11:30 AM  
Test started on : 08/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near JV material gate  
Average flow rate RSPM/SPM (m<sup>3</sup>/min) : 1.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	46.82	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	70.46	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	08.14	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	17.62	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.98	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	29.62	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	34.86	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

Page 1 of 4

D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
ULR Code: TC5503 20 3 00005486 F  
Report Date: 14/09/2020  
Sample Receipt Date: 08/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 07/09/2020  
Time of Sampling : 11:30 AM  
Test started on : 08/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near JV material gate  
Average flow rate RSPM/SPM (m<sup>3</sup>/min) : 1.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND=Not Detected; DL=Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

(AUTHORISED SIGNATORY)

D Nathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-015

ULR Code: TC5503 20 3 00005486 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (lpm)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 07/09/2020

: 11:30 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near JV material gate

: 0.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

**ND**=Not Detected; **DL**=Detection Limit

Testing Section Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

J.O. No.: FL/ENV/08092020-015  
 ULR Code: TC5503 20 3 00005486 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 07/09/2020
Time of Sampling	: 11:30 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near JV material gate
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
 16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
 Ayush Agarwal

Checked By:  
 Rita Singh

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(AUTHORISED SIGNATORY)  
 D. Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013

ULR Code: TC5503 20 3 00005540 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 08/09/2020

: 12:25 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near SND gate

: 1.20

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	49.90	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	78.32	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	07.42	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	11.26	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	0.78	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	27.46	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	31.24	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

Page 1 of 4

D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
Gurgaon Haryana

J.O. No.: FL/ENV/09092020-013

ULR Code: TC5503 20 3 00005540 F

Report Date: 14/09/2020

Sample Receipt Date: 09/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 08/09/2020

: 12:25 PM

: 09/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near SND gate

: 1.20

: 35

: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omish Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

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D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013  
ULR Code: TC5503 20 3 00005540 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 08/09/2020  
Time of Sampling : 12:25 PM  
Test started on : 09/09/2020  
Test Completed On : 14/09/2020  
Purpose of Monitoring : To Assess the Pollution Load  
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01  
Sampling Location : Near SND gate  
Average flow rate RSPM/SPM (lpm) : 0.20  
Ambient Temperature (°C) : 35  
Duration of Sampling : 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

ND= Not Detected; DL= Detection Limit

Testing Section Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

(AUTHORISED SIGNATORY)  
D Mathur, Director

Page 3 of 4

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# FARELABS

FOOD ANALYSIS & RESEARCH LABORATORY

TESTING, CALIBRATION, PROFICIENCY TESTING, R&D & TRAINING SERVICES



## FARE LABS Private Limited

L-17/3, DLF Phase-II, IFFCO Chowk, M.G. Road,  
Gurgaon-122002, Haryana, INDIA  
Phone : +91-124-4223207, 4034205  
Fax : +91-124-4036038, Cell : +91-95992 21227  
E-mail : farelabs@farelabs.com  
Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/09092020-013  
ULR Code: TC5503 20 3 00005540 F  
Report Date: 14/09/2020  
Sample Receipt Date: 09/09/2020  
Account Manager: Swati Singh  
Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample	: Ambient Air Quality Monitoring
Date of Sampling	: 08/09/2020
Time of Sampling	: 12:25 PM
Test started on	: 09/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near SND gate
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
16.11.2009

ND= Not Detected; DL= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
Ayush Agarwal

Checked By:  
Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
D Mathur, Director

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E-mail : farelabs@farelabs.com

Website : www.farelabs.com

## TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016

ULR Code: TC5503 20 3 00005487 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: **Ambient Air Quality Monitoring**

: 07/09/2020

: 11:50 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP area

: 1.20

: 35

: 24 hrs. & 8 hrs. (For CO & O<sub>3</sub>)



Certificate No. TC-5503

## Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Chemical Analysis:</b>				
1	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	55.48	60	FL/SOP/ENV-01
2	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	88.36	100	IS-5182(P-23)
3	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	12.36	80	IS-5182(P-2)
4	Nitrogen Di-Oxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	21.48	80	IS-5182(P-6)
5	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.18	2	IS-5182(P-10)
6	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	32.48	400	Methods of Air Sampling & Analysis (401)
7	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup>	28.76	100	IS-5182(P-9)

Testing Section

Prepared By:

Arun Chaturvedi

Checked By:

Dr. Meenakshi Tripathi, QM

(AUTHORISED SIGNATORY)

Page 1 of 4

D Mathur, Director

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Website : www.farelabs.com

### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016

ULR Code: TC5503 20 3 00005487 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (m<sup>3</sup>/min)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 07/09/2020

: 11:50 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP area

: 1.20

: 35

: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
<b>Metals Analysis:</b>				
1	Nickel (as Ni), ng/m <sup>3</sup>	ND, [DL-1]	20	FL/SOP/ENV-18
2	Arsenic (as As), ng/m <sup>3</sup>	ND, [DL-0.5]	6	FL/SOP/ENV-18
3	Lead (as Pb), µg/m <sup>3</sup>	ND, [DL-0.5]	1	FL/SOP/ENV-18

ND= Not Detected; DL= Detection Limit

Testing Section

Prepared By:

Omesh Kumar

Checked By:

Dr. Meenakshi Tripathi, QM

Page 2 of 4

(AUTHORISED SIGNATORY)

D Mathur, Director

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### TEST REPORT

#### Issued to: MSIL Manesar Vehicle Plant

Plot No 1, Phase 3A, IMT Manesar,  
gurgaon Haryana

J.O. No.: FL/ENV/08092020-016

ULR Code: TC5503 20 3 00005487 F

Report Date: 14/09/2020

Sample Receipt Date: 08/09/2020

Account Manager: Swati Singh

Credit Manager: Gulab/Septesh

#### Sample Particulars:

Nature of the Sample

Date of Sampling

Time of Sampling

Test started on

Test Completed On

Purpose of Monitoring

Method of Sampling

Sampling Location

Average flow rate RSPM/SPM (lpm)

Ambient Temperature (°C)

Duration of Sampling

: Ambient Air Quality Monitoring

: 07/09/2020

: 11:50 AM

: 08/09/2020

: 14/09/2020

: To Assess the Pollution Load

: IS-5182 (P-14) & FL/SOP/ENV/D-01

: Near STP area

: 0.20

: 35

: 01 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzene (as C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	ND, [DL-0.5]	5	FL/SOP/GC-46

Testing Section

Prepared By:  
Surbhi Kumari

Checked By:  
Rita Singh

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(AUTHORISED SIGNATORY)  
D Mathur, Director

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### TEST REPORT

**Issued to: MSIL Manesar Vehicle Plant**  
 Plot No 1, Phase 3A, IMT Manesar,  
 gurgaon Haryana

J.O. No.: FL/ENV/08092020-016  
 ULR Code: TC5503 20 3 00005487 F  
 Report Date: 14/09/2020  
 Sample Receipt Date: 08/09/2020  
 Account Manager: Swati Singh  
 Credit Manager: Gulab/Septesh

### Sample Particulars:

Nature of the Sample	: <b>Ambient Air Quality Monitoring</b>
Date of Sampling	: 07/09/2020
Time of Sampling	: 11:50 AM
Test started on	: 08/09/2020
Test Completed On	: 14/09/2020
Purpose of Monitoring	: To Assess the Pollution Load
Method of Sampling	: IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location	: Near STP area
Average flow rate RSPM/SPM (m <sup>3</sup> /min)	: 1.20
Ambient Temperature (°C)	: 35
Duration of Sampling	: 24 hrs.



Certificate No. TC-5503

### Analysis Report

S. No.	Parameters	Test Results	NAAQS*	Protocol Followed
1	Benzo(a)pyrene (as BAP), ng/m <sup>3</sup>	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)

\***NAAQS** – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]  
 16.11.2009

**ND**= Not Detected; **DL**= Detection Limit

**Inference:** The tested sample of Ambient Air for above mentioned location **conforms** to NAAQS 2009.

Testing Section

Prepared By:  
 Ayush Agarwal

Checked By:  
 Rita Singh

Page 4 of 4

(AUTHORISED SIGNATORY)  
 D Mathur, Director

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TRIBUNE

22 - Feb - 2008

**PUBLIC NOTICE****MARUTI  
SUZUKI****Maruti Suzuki India Limited**

11th Floor, Jeevan Prakash Building,  
25 Kasturba Gandhi Marg, New Delhi - 110001.  
Ph: 011-23316831. Fax: 011-23316754

Ministry of Environment and Forests has accorded environment clearance for the proposed expansion of thermal (captive) power plant at Maruti Suzuki India Limited, Manesar Plant. The copies of the clearance letters are available with the Haryana State Pollution Control Board and the same can also be seen on the website of Ministry of Environment & Forest at <http://envfor.nic.in>

**Date: 22nd February, 2008.****Maruti Suzuki India Limited**

AMAR Ujala 22-Feb-2008

**सूचना****MARUTI  
SUZUKI****Maruti Suzuki India Limited**

11th Floor, Jeevan Prakash Building,  
25 Kasturba Gandhi Marg, New Delhi - 110001.  
Ph: 011-23316831. Fax: 011-23316754

पर्यावरण एवं वन मंत्रालय द्वारा मारुति सुजुकी इण्डिया लिमिटेड के मानेसर प्लांट में पावर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोदन प्रदान कर दिया गया है। अनुमोदन पत्र की प्रतियां हरियाणा राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है। अनुमोदन पत्र को पर्यावरण एवं वन मंत्रालय की वेबसाइट <http://envfor.nic.in> पर भी देखा जा सकता है।

**दिनांक: 22 फरवरी, 2008****मारुति सुजुकी इण्डिया लिमिटेड**