

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 22nd 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_x 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 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_x 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 SO₂, NO_x, RSPM (PM₁₀ & PM_{2.5}) 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_x (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.

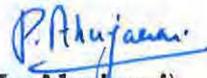
5. The environmental clearance accorded **shall be valid for a period of five years** to start operations by the power plant.

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. Ahujara)
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:2022-23:085

22-Nov-2022

To
Ministry of Environment, Forest and Climate Change
Integrated Regional Office
Bays No 24-25, Sector – 31 A
Dakshin Marg
Chandigarh - 160030

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 period of April, 22 to September, 22 related to environment clearance.

Thanking You

Yours Faithfully


Madan Ankush Bansode
DGM (Environment)
Maruti Suzuki India Limited

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,
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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 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 of adequate capacity is already installed. The treated sewage is recycled for manufacturing process and horticulture.

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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. All borewells in MSIL Gurgaon are closed now and intimation in this regard is already submitted to Central Ground Water Authority (CGWA) and Haryana Water Resources (Conservation, Regulation and Management) Authority (HWRA). Intimation letter is attached as Annexure 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 Annexure 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 for stack emission monitoring are attached in Annexure 3.
xiv.	Stacks of 70 m shall be provided with continuous online monitoring equipment's. Exit velocity of flue gases shall not be less than 22 m/sec.	70 m Chimney installed with continuous online monitoring equipment's.

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

xv.	Regular monitoring of ground level concentration of SO ₂ , Nox, RSPM (PM ₁₀ & PM _{2.5}) 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 is monitored quarterly by NABL approved third party and reports are placed at Annexure 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 of CSR is placed at Annexure 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	Green belt of GT area is placed at Annexure 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

	developed shall not be less than 33% of the total area.	
General Condition in Environment Clearance		
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 http://envfor.nic.in .	Advertised in two local newspapers. Copy of the notice attached herewith at Annexure 7.
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.	Complied.

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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.	
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 update the same from time to time at least six-monthly basis. Criteria pollutants levels including	Provided.

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

	NO _x (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 or environmental protection measures measured along with item-wise break-up. These costs 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 (River Valley/Mining/Industry /Refinery/Transportation Tourism / Thermal / Nuclear/Construction Projects)	Thermal
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 ^o 29'42.9"N Longitude: 77 ^o 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: Madan.Bansode@maruti.co.in Phone 0124 – 2346721 ~ 30 Extn : 3583 Mr. Bineet Arora General Manager – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: Bineet.arora@maruti.co.in 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 (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)	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>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 & sustainability of compensatory afforestation programmes in the light of actual field experience so far.</p>	<p>Not Applicable</p>
11.	<p>The status of clear feeling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.</p>	<p>Not Applicable</p>
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.	<p>Reasons for the delay if the project is yet to start:</p>	<p>Not Applicable</p>

SALIENT FEATURES OF PROJECT:

1. Name of the Project : Gas Engine at Maruti Suzuki India Limited, 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_x 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.

MARUTI SUZUKI

Way of Life!

Date: 22/10/2021

MSIL: 21-22/EMU/015

To,
The Chairperson,
Haryana Water Resource Authority (HWRA),
Sinchai Bhawan, Sector 5
Panchkula, Haryana 134109.

Sub: Request for obtaining the certificate for closure of borewells (12 Nos) in the premises of Maruti Suzuki India Ltd. (MSIL), Palam Gurgaon Road, Gurgaon (Haryana).

Ref: 1) Online NOC application no: 21-4/1978/HR/IND/2019 dated: 22/07/2019.
2) Query raised by CGWA on the online application on 22-Oct-2020 via email.
3) Reply to the query via letter no. EMU/EMM-G2/02/20-21 dated 09-Nov-2020.
4) Query raised by CGWA on the online application on 27-Nov-2020 via email.
5) MSIL request letter for closure of all borewells via letter no. EMU/EMM-G2/03/20-21 dated 24-Mar-21
6) HWRA communication on email dated 06 Oct 2021

Dear Sir,

With reference to the HWRA communication with subject "Notice to cases pending with CGWA" dated, we wish submit to your kind office that we had applied an online application for obtaining "NOC" for extracting ground water in our premises of Maruti Suzuki India Ltd, Palam Gurgaon Road, District Gurugram, Haryana.

However, considering the availability of canal water from govt. supply, it was decided to close all the 12 tube wells. In this regards, an intimation letter was already submitted to Central Ground Water Board, Chandigarh on 24 March 2021 (attached as Annexure A).

As per the notification of CGWA 2020, all tube wells (12 Nos) were properly filled upto the ground level and sealed. The photographic evidence of closed tube wells is attached as Annexure B.

Therefore, we request your good office to close our Online NOC application No: 21-4/1978/HR/IND/2019 dated: 22/07/2019 and issue a certificate for confirming the closure of tube wells in MSIL premises.

In case any further information is required in this regard, we request your good office to let us know and we shall submit the same.

Yours Sincerely,
For **Maruti Suzuki India Ltd.**

Bineet Arora
22/10/21
Bineet Arora
General Manager (EMU Division)
BINEET ARORA
GENERAL MANAGER
MARUTI SUZUKI INDIA LTD.
GURUGRAM-122015 (HR.)

Enclosure: Annexure A – Letter of intimation for closure of tube wells
Annexure B – Photographs for tube wells closure.

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

"Annexure - A"

MARUTI SUZUKI
Way of Life!

MSIL: EMU/EMM-G2/ 03/20-21

Date: 24/03/2021

To,

Regional Director,
Central Ground Water Board,
North Western Region,
Bhujal Bhawan, Plot # 3-B,
Sector 27-A, Madhya Marg,
Chandigarh- 160019.

Sub: Request for closure of online application "NOC" for extracting ground water at our Maruti Suzuki Palam Gurgaon Road, Gurgaon & District Gurgaon, Haryana.

Ref: 1) Online NOC application no: 21-4/1978/HR/IND/2019 dated: 22/07/2019.
2) Query raised by CGWA on the online application on 22-Oct-2020 via email.
3) Reply to the query via letter no. EMU/EMM-G2/02/20-21 dated 09-Nov-2020.
4) Query raised by CGWA on the online application on 27-Nov-2020 via email.

Dear Sir,

With reference to above, we had applied an online application for obtaining "NOC" for extracting ground water in our premises of Maruti Suzuki India Ltd, Palam Gurgaon Road, District Gurugram, Haryana.

However, considering the availability of canal water from govt. supply, it is decided to close all the-12 registered tube wells as per the application.

So we request you to close the Online NOC application No: 21-4/1978/HR/IND/2019 dated: 22/07/2019.

We also request you to consider this letter as intimation for the closure of all 12 tube wells of MSIL Gurgaon Plant.

Yours Sincerely,

For Maruti Suzuki India Ltd.

Naresh
Naresh Kumar Garg

Asst. Gen. Manager (EMM-M2)

MSIL (Cash) Tax 2.0
<Track on www.indiapost.gov.in>



EN613493300IN IPR:6972613493300
SP PALAM ROAD SO (122015)
Counter No:3.25/03/2021.13:39
To:REGIONAL DIRECTOR,C
PIN:160019, Sector 19 Chandigarh SO
From:MSI LTD,G
M:2021

MSIL (Cash) Tax 2.0

Enclosure: Online application 21-4/1978/HR/IND/2019 dated: 22/07/2019.

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

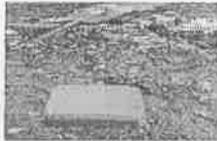
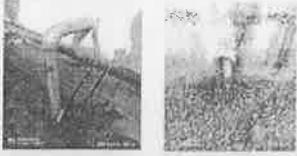
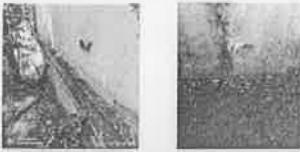
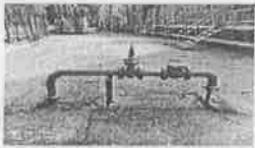
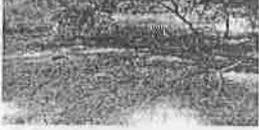
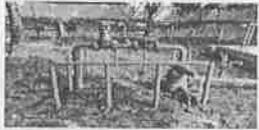
Plot no.1, Phase - 3A, IMT Manesar

Gurgaon - 122051, Haryana, India

Tel: 0124-4884000, Fax: 0124-4884199

CIN: L34109DL1931PLC011375

Tubewell List "Annexure-B" 7

Sr No.	Tube well	Location	Before Dismantling Picture	After Dismantling Picture	After Civil Work Complete	Remarks
1	Tube well# 1	Front Diesel Shop Park				Closed
2	Tube well# 2	Near Main gate				Closed
3	Tube well# 3	SND near Car washing area				Closed
4	Tube well# 4	Gas Turbine				Closed
5	Tube well# 5	Coil Store				Closed
6	Tube well# 6	Near Raw water tank-4				Closed
7	Tube well# 7	ED Paint Shop				Closed
8	Tube well# 8	South Drain				Closed
9	Tube well# 9	Contacto Yard Park				Closed
10	Tube well# 10	Material Gate				Closed
11	Tube well# 11	Canteen-1				Closed
12	Tube well# 12	North drain				Closed

**FARE LABS Private Limited**

Unit - 1

L-17/3, DLF Phase-II, IFFCO Chowk,

M.G. Road, Gurugram - 122 002, Haryana, INDIA.

Tel. : +91-124-4223207-08, 4034205 | Cell : +91-9599221227

Email : farelabs@farelabs.com | Website : www.farelabs.co.in

TEST REPORT**Issued to :**

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220503-009-027
ULR Code : TC5503 22 3 00004413 F
Report Date : 09-05-2022
Sample Receipt Date : 03-05-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **NG Noise**
Date of Monitoring : 03-05-2022
Time of Monitoring : 02:10 PM
Name of the Emission Source Monitoring : NGDG set
Purpose of Monitoring : To Check Noise Level
Instrument used : Sound Level Meter
Test Protocol Followed : CPCB Guidelines
Rated Capacity : 6 MW

**Analysis Report**

S. No.	Parameters	Unit	Test Results	Allowable limit#	Test Method
Physical Analysis					
1	NG Noise Level at 1 Meter from the enclosure Surface	dB(A)	73.5	75 Max.	FL/SOP/ENV-08
2	NG Noise Level, Near the Acoustic Enclosure	dB(A)	99.6	NA	FL/SOP/ENV-08
3	Insertion Loss	dB(A)	26.1	NA	FL/SOP/ENV-08

NA= Not Applicable

#As per MoEF&CC L.No.-J13012/06/2009-IA.II (T), Dated: June 3, 2011 Issued to MSIL Gurgaon Plant Palam Gurgaon Road.

Reviewed By

Authorised Signatory
D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at feedback@farelabs.com and call at +91 9599221222

*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220727-012-021
ULR Code : TC5503 22 3 00007491 F
Report Date : 01-08-2022
Sample Receipt Date : 27-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **NG Noise**
Date of Monitoring : 27-07-2022
Time of Monitoring : 03:55 PM
Name of the Emission Source Monitoring : NGDG Set
Purpose of Monitoring : To Check Noise Level
Instrument used : Sound Level Meter
Test Protocol Followed : CPCB Guidelines
Rated Capacity : 6 MW

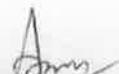


Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable Limit#	Test Method
Physical Analysis					
1	NG Noise Level at 1 Meter from the enclosure Surface	dB(A)	74.1	75 Max.	FL/SOP/ENV-08
2	NG Noise Level, Near the Acoustic Enclosure	dB(A)	99.3	NA	FL/SOP/ENV-08
3	Insertion Loss	dB(A)	25.2	NA	FL/SOP/ENV-08

NA= Not Applicable

#As per MoEF&CC L.No.-J13012/06/2009-IA.II (T), Dated: June 3, 2011 issued to MSIL Gurgaon Plant Palam Gurgaon Road


Reviewed By


Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT**Issued to :**

MSIL Gurgaon Plant
 Old Palam Gurgaon Road
 Gurgaon-122015
 Haryana, India

J.O. No. : ENV20220503-008-025
 ULR Code : TC5503 22 3 00004411 F
 Report Date : 09-05-2022
 Sample Receipt Date : 03-05-2022
 Account Manager : Swati Singh
 Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Stack Emission Monitoring**
 Date of Sampling : 03-05-2022
 Time of sampling : 02:10 PM
 Test Started On : 03-05-2022
 Test Completed On : 09-05-2022
 Purpose of Monitoring : To Check Pollution Load
 Name of the Emission Source Monitoring : NG DG Set
 Sampling Method : IS-11255 (P-7, P-3)& FL/SOP/ENV/D-02
 Stack Identification : Stack attached to Natural Gas DG (Wartsila Finland)
 Rated Capacity : 6 MW
 Normal Operating Schedule : As per requirement
 Type of Stack /Duct : Mild Steel
 Stack Height from Ground Level (m) : 70
 Diameter of the Stack (m) : 1.114
 Sampling Duration (min) : 53
 Type of Fuel used & its Consumption : Natural Gas
 Operation Load During Monitoring : 5.1 MW

**Observations:**

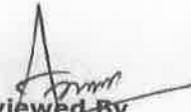
Number of Traverse Points : 12
 Flue Gas Temperature °C : 181.2
 Ambient Air Temperature °C : 35.6
 Flue Gas Velocity (m/s) : 23.2
 Volumetric Flow Rate (Nm³/h) : 53382.59

Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable limit#	Test Method
Chemical Analysis					
1	Non methane hydrocarbon	ppm	18.62	NA	FL/SOP/GC-24
2	Particulate Matter at 15% O ₂	mg/Nm ³	38.52	NA	IS:11255(P-1)
3	Oxides of Nitrogen (as NO ₂) at 15% O ₂	ppm	28.63	50	IS:11255 (P-7)
4	Carbon Monoxide at 15% O ₂	ppm	54.68	NA	IS:13270

NA= Not Applicable.

#As per MoEF&CC L.No.-J13012/06/2009-IA.II (T), Dated: June 3, 2011 Issued to MSIL Gurgaon Plant Palam Gurgaon Road.


 Reviewed By


 Authorised Signatory
 D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220727-011-019
ULR Code : TC5503 22 3 00007489 F
Report Date : 01-08-2022
Sample Receipt Date : 27-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Stack Emissions Monitoring**
Date of Sampling : 27-07-2022
Time of sampling : 03:55 PM
Test Started On : 27-07-2022
Test Completed On : 01-08-2022
Purpose of Monitoring : To Check Pollution Load
Name of the Emission Source Monitoring : NG DG Set
Sampling Method : IS-11255 (P-7, P-3)& FL/SOP/ENV/D-02
Stack Identification : Stack attached to Natural Gas DG (Wartsila Finland)
Rated Capacity : 6 MW
Normal Operating Schedule : As per requirement
Type of Stack /Duct : Metal
Stack Height from Ground Level (m) : 70
Diameter of the Stack (m) : 1.114
Sampling Duration (min) : 51
Type of Fuel used & Its Consumption : Natural Gas
Operation Load During Monitoring : 5.1 MW



Observations:

Number of Traverse Points : 12
Flue Gas Temperature °C : 173.5
Ambient Air Temperature °C : 33.5
Flue Gas Velocity (m/s) : 23.4
Volumetric Flow Rate (Nm³/h) : 54771.32

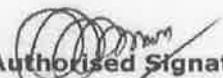
Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable Limit#	Test Method
Chemical Analysis					
1	Carbon Monoxide at 15% O ₂	ppm	52.16	NA	IS:13270
2	Oxides of Nitrogen (as NO ₂) at 15% O ₂	ppm	26.43	50	IS:11255 (P-7)
3	Particulate Matter at 15% O ₂	mg/Nm ³	35.29	NA	IS:11255 (P-1)
4	Non methane Hydrocarbon	ppm	21.53	NA	FL/SOP/GC-24

NA= Not Applicable

*As per MoEF&CC L.No.-J13012/06/2009-IA.II (T), Dated: June 3, 2011 issued to MSIL Gurgaon Plant Palam Gurgaon Road.


Reviewed By


Authorised Signatory
D. Mathur, Director

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*****End of Report*****

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

Ambient Air Monitoring Report

Four number ambient air monitoring stations were selected based on the modelling done by M/s PCRI BHEL Haridwar.

MSIL have procured equipments for measuring AAQ

Inhouse sampling for AAQ started from third quarter in 2004-05.

Station Name	Parameter	Unit	Value	Standard
Station 1	PM10	µg/m ³	150	400
Station 1	PM2.5	µg/m ³	80	150
Station 1	SO2	ppb	10	80
Station 1	NO2	ppb	15	40
Station 1	O3	ppb	20	120
Station 2	PM10	µg/m ³	120	400
Station 2	PM2.5	µg/m ³	60	150
Station 2	SO2	ppb	8	80
Station 2	NO2	ppb	12	40
Station 2	O3	ppb	18	120
Station 3	PM10	µg/m ³	100	400
Station 3	PM2.5	µg/m ³	50	150
Station 3	SO2	ppb	6	80
Station 3	NO2	ppb	10	40
Station 3	O3	ppb	15	120
Station 4	PM10	µg/m ³	90	400
Station 4	PM2.5	µg/m ³	45	150
Station 4	SO2	ppb	5	80
Station 4	NO2	ppb	8	40
Station 4	O3	ppb	12	120

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220503-004-016
ULR Code : TC5503 21 3 00014159 F.
Report Date : 09-05-2022
Sample Receipt Date : 03-05-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 02-05-2022
Time of Sampling : 10:00 AM
Test Started On : 03-05-2022
Test Completed On : 09-05-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : DM Plant
Average Flow Rate (m³/min) (PM₁₀) : 1.14
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	93.16	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	183.26	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	7.52	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.34	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.58	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	17.96	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	59.73	100	IS:5182 (P-9)
8	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
11	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
12	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
13	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

[Signature]
Reviewed By

[Signature]
Authorised Signatory
D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at feedback@farelabs.com and call at +91 9599221227.

*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220726-007-014
ULR Code : TC5503 21 3 0001759Q F
Report Date : 01-08-2022
Sample Receipt Date : 26-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 25-07-2022
Time of Sampling : 10:00 AM
Test Started On : 26-07-2022
Test Completed On : 01-08-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : DM Plant
Average Flow Rate (m³/min) (PM₁₀) : 1.18
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 30.5
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	46.39	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	85.26	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.08	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.52	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.62	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	41.29	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	18.93	100	IS:5182 (P-9)
8	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
Heavy Metals					
11	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18
12	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
13	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18

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

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

Reviewed By

Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220507-002-018
ULR Code : TC5503 21 3 00014340 F
Report Date : 12-05-2022
Sample Receipt Date : 07-05-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambeint Air**
Date of Sampling : 06-05-2022
Time of Sampling : 10:04 AM
Test Started On : 07-05-2022
Test Completed On : 12-05-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Machine shop No. 1 & 2
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39.6
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	91.74	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	184.28	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	6.38	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	7.45	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.9	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	19.82	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	50.72	100	IS:5182 (P-9)
8	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
11	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
12	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
13	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

[Signature]
Reviewed By

[Signature]
Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220727-007-011
ULR Code : TC5503 21 3 00Q17627 F
Report Date : 01-08-2022
Sample Receipt Date : 27-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 27-07-2022
Time of Sampling : 11:15 AM
Test Started On : 27-07-2022
Test Completed On : 01-08-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Machine Shop No. 1 & 2
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 31.6
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	41.29	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	78.42	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	3.96	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.54	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.59	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	40.18	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	30.26	100	IS:5182 (P-9)
8	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
Heavy Metals					
11	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18
12	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
13	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18

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

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

Reviewed By 

Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220507-002-016
ULR Code : TC5503 21 3 00014338 F
Report Date : 12-05-2022
Sample Receipt Date : 07-05-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 06-05-2022
Time of Sampling : 10:20 AM
Test Started On : 07-05-2022
Test Completed On : 12-05-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Sewage Pump House
Average Flow Rate (m³/min) (PM₁₀) : 1.14
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	84.73	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	193.26	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	7.26	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	8.96	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.85	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	17.83	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	58.73	100	IS:5182 (P-9)
8	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
11	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
12	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
13	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

[Signature]
Reviewed By

[Signature]
Authorised Signatory
D. Mathur, Director

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TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220727-007-012
ULR Code : TC5503 21 3 00017628 F
Report Date : 01-08-2022
Sample Receipt Date : 27-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 27-07-2022
Time of Sampling : 11:30 AM
Test Started On : 27-07-2022
Test Completed On : 01-08-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Sewage Pump House
Average Flow Rate (m³/min) (PM₁₀) : 1.18
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 31.2
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	43.62	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	83.26	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.59	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	8.47	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.46	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	49.72	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	26.48	100	IS:5182 (P-9)
8	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
Heavy Metals					
11	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18
12	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
13	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18

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

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

Reviewed By
[Signature]

Authorised Signatory
D. Mathur, Director

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TEST REPORT

Issued to :

MŞIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220507-002-017
ULR.Code : TC5503.21 3 00014339 F
Report Date : 12-05-2022
Sample Receipt Date : 07-05-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 06-05-2022
Time of Sampling : 10:12 AM
Test Started On : 07-05-2022
Test Completed On : 12-05-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Sewage Treatment Plant
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	109.64	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	219.36	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	6.54	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.13	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.73	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	13.46	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	63.14	100	IS:5182 (P-9)
8	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
11	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
12	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
13	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Reviewed By 

Authorised Signatory 
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Gurgaon Plant
Old Palam Gurgaon Road
Gurgaon-122015
Haryana, India

J.O. No. : ENV20220726-007-015
ULR Code : TC5503 21 3 00017591 F
Report Date : 01-08-2022
Sample Receipt Date : 26-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 26-07-2022
Time of Sampling : 10:25 AM
Test Started On : 26-07-2022
Test Completed On : 01-08-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : Sewage Treatment Plant
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 30.7
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	51.92	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	91.74	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	3.26	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.48	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.53	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	46.59	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	22.03	100	IS:5182 (P-9)
8	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
9	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
10	Non methane hydrocarbon	ppm	ND, [DL-0.1]	NA	FL/SOP/GC-24
Heavy Metals					
11	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18
12	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
13	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18

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

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

Am
Reviewed By

D. Mathur
Authorised Signatory
D. Mathur, Director

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*****End of Report*****

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

FY- 2021-22

1. Introduction:

Maruti Suzuki India Limited strives to be a people's Company. It is completely dedicated to the people around the facilities through its Corporate Social Responsibility (CSR initiatives). As part of CSR policy, Maruti Suzuki India Limited (MSIL) in Gurugram District, Haryana has focused on the thematic areas of Community Development, Road Safety and Skill Development. During the Financial year 2021-22, the company also supported the Government's effort in handling the COVID crisis.

2. Community development initiatives:

MSIL's community development activities focus on well-being of immediate communities. The projects are carried out across 15 villages in Gurugram district including five villages around Gurugram plant (Sarhaul, Molahera-U, Dundahera, Chauma-U and Carterpuri) and 10 villages around Manesar plant (Bas Hariya (Aliyar), Dhana, Bas Khusla, Kasan, Khoh, Manesar-U, Bhangrola, Kankrola, Naharpur Kasan and Nakhdola).

Water: Potable water is made available and accessible to the local community through 18 water ATMs benefitting 28,482 registered households across 15 villages in Gurgaon and Manesar area. The water ATMs operate on a self-sustainable model in which the user fees paid by community members are used for maintenance and upkeep of the facility. During Financial year 2021-22, more than 138 lac liters of safe water was dispensed through these water ATMs.

Sanitation: In order to improve the hygienic condition in villages, cleanliness support is provided to 10 villages in Manesar area through 43 sweepers and 13 waste collection vans. A Solid Waste Management Plant installed by the Company in Bas Hariya village, Manesar is benefitting approx. 53,000 residents of 2 villages in Manesar area (Bas Hariya and Dhana). During the Financial year 2021-22, more than 653 tonnes of waste was processed.

Common Community assets: A patch of broken boundary wall of a community pond was constructed and paver tiles were laid in one of the community parks in Dhana village. Cleaning of sewer line laid in 5 villages of Manesar was also accomplished in Financial Year 2021-22.

COVID related activities: COVID-19 pandemic has brought unprecedented health crises and humanitarian challenges. Due to the sudden surge in the cases, Maruti Suzuki through its' CSR has donated 152 units of oxygen cylinders and installed 4 oxygen generating plants with total capacity of 3.5 tonnes in Financial Year 2021-22.

3. Skill Development Initiatives:

Skill development and skill enhancement are imperative for growth and socio-economic development of a country. MSIL as a sector leader in manufacturing has taken the responsibility of the skill development & industrial training of youth under its CSR wing.

MSIL has adopted 2 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 & students and imparting soft skills to make students industry-ready. Total 1,828 trainees benefitted through our initiatives in these two ITIs in FY 2021-22.

MSIL is supporting a model ITI called Japan-India Institute for Manufacturing (JIM) 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, Welder, Technician Mechatronics, Mechanic Auto-Body Painting, Mechanic Auto-Body Repair, Mechanic Diesel Engine, Fitter and Electrician. Apart from technical trainings, JIM provides 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, mini engine assembly line, safety lab, VR based welding simulators and spot-welding equipment that provide actual simulation of the automotive industry and hands-on training to students to make them industry-ready. A total of 254 students graduated from JIM Uncha Majra in the academic year 2021-22.

4. Road Safety initiatives:

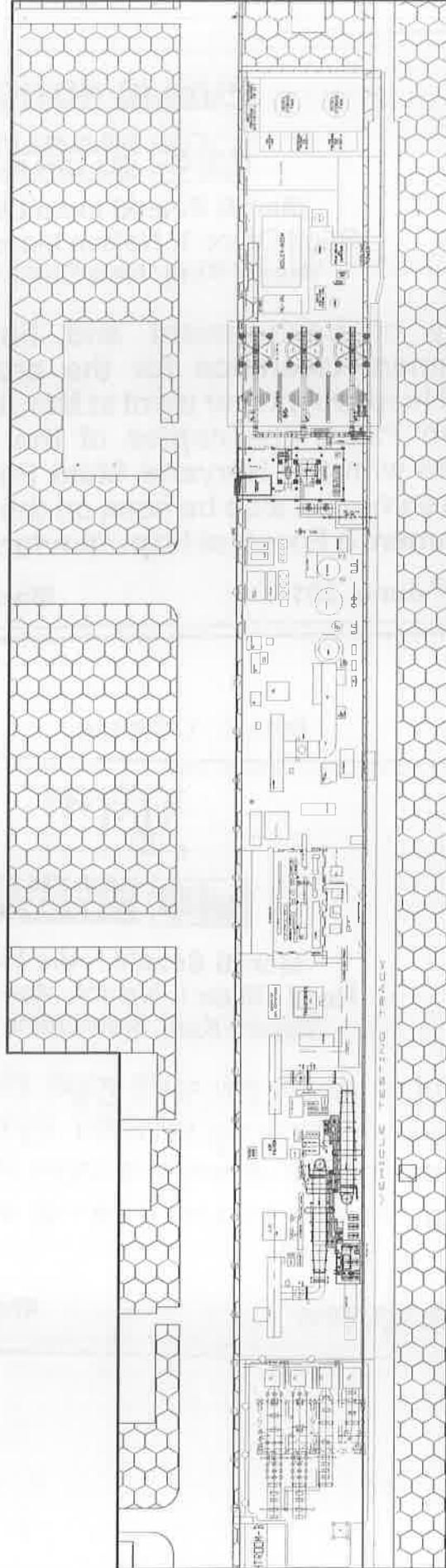
With rapid increase in the number of vehicles and the congested Indian roads, road safety has turned into a factor of utmost importance for the country's citizens. Keeping the same in mind Maruti Suzuki India Limited has set up two Road Safety Knowledge Centers in Gurugram with

objective to promote road safety awareness by training to license aspirants and traffic violators. These centers are run in partnership with Gurugram Traffic Police. A total of 21,185 people have been benefitted with this initiative in Financial Year 2021-22.

5. CSR spend

In 2020-21, the Company has spent approx. Rs. 3.38 Cr. to undertake CSR activities in Gurugram district.

Green Area Plan



TIMES OF INDIA

PUBLIC NOTICE

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: 10th June, 2011.

Maruti Suzuki India Limited

AMAR UJALA

सूचना

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 गुड़गांव 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 *237A*

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:-

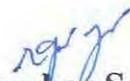
- i) No additional land shall be acquired.
- ii) NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC Observatory.
- iii) Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when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

- iv) Dry Low NO_x burners shall be provided and it shall be ensured that NO_x 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 1/3rd 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:22-23:080

22-Nov-2022

To
Ministry of Environment, Forest and Climate Change
Integrated Regional Office
Bays No 24-25, Sector – 31 A,
Dakshin Marg
Chandigarh - 160030

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 Ankush Bansode
Madan Ankush Bansode
DGM (Environment)
Maruti Suzuki India Limited

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, 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 Annexure-1.
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 _x burners shall be provided and it shall be ensured that NO _x emission from the stack is less than 100 ppm.	NO _x emissions are less than 100 ppm. The stack monitoring report are placed at Annexure-2.
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 Annexure-3.
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 Annexure-4.
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 rd of the total area.	Details of Green Belt are placed at Annex: 4
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 Annexure-5.
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 Annexure - 6.
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.	We are submitting the half yearly compliance reports to concerned offices on or before June and Dec of every year.
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 Annexure-7.
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.	No HSD was used in 20MW & 37MW captive power plant for FY 2022-23 till september.
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 SEIAA/MoEF, Gol.	Completed.

Northern Regional Office
Ministry of Environment & Forests
Chandigarh
DATA SHEET

1.	Project Type	River Valley/ Mining / Industry /Refinery/Transportation/Tourisms/Thermal /Nuclear/Other(Specify)
2.	Name of the Project:	57 MW Captive Power Plant (expansion) at Maruti Suzuki India Limited, Manesar, Gurgaon, Haryana
3.	Clearance letter (s)/O.M No. & dates:	No. SEIAA/HR/2012/237A dated 30-8-2012
4.	Location: a) District (s) b) State (s) c) Latitudes/longitudes	Gurgaon Haryana Latitude : 28° 22' 08" N Longitude : 76° 52' 45" E
5.	Address for correspondence: 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: Madan.Bansode@maruti.co.in Phone 0124 – 2346721 ~ 30 Extn : 3583 Mr. Bineet Arora General Manager – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: Bineet.Arora@maruti.co.in Phone 0124 – 2346721 ~ 30
6.	Salient features: a) Of the project b) Of the environmental management plans	Salient features of the project and Environment Management plan 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 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. 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

<p>9. 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>Rs. 324 Crores (approx.)</p> <p>Rs. 4.2 Crores</p>
<p>10. 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 if any.</p> <p>d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far.</p>	<p>Not Applicable</p>
<p>11. The Status of clear felling in the non-forest areas (Such as submergence area of non reservoir, approach road) if any, with quantitative information.</p>		<p>Not Applicable</p>
<p>12. 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>20 MW & 37 MW are in operation.</p>
<p>13. Reasons for the delay if the project is yet to start:</p>		<p>Not applicable</p>

SALIENT FEATURES OF PROJECT:

1. Name of the Project : Gas turbine at Maruti Suzuki India Limited, 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 SO₂ 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 SO₂ 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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दूरभाष/Tel: 022 - 2550 5354
फैक्स/Fax: 022 - 2550 5151
022 - 2550 5353
ई-मेल/e-mail: ndsharma@barc.gov.in



सत्यमेव जयते

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 18th 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

(N. D. Sharma)
Controller

16/04/08

संचार अनुभाग / Communication Section

फैक्स परिवहन / Fax Transmission

संदेश सं. / No.

दिनांक 29/5/08

Transmitted on at hrs.

TEST REPORT**Issued to :**

MSIL Manesar Vehicle Plant
 Plot No-1, Phase 3A, IMT Manesar, Gurgaon
 Haryana, India

J.O. No. : ENV20220427-015-043
 ULR Code : TC5503 22 3 00004150 F
 Report Date : 02-05-2022
 Sample Receipt Date : 27-04-2022
 Account Manager : Swati Singh
 Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Stack Emissions Monitoring**
 Date of Sampling : 26-04-2022
 Time of sampling : 12:35 PM
 Test Started On : 27-04-2022
 Test Completed On : 02-05-2022
 Purpose of Monitoring : To Check Pollution Load
 Name of the Emission Source Monitoring : Gas Turbine- 09
 Sampling Method : IS-11255 (P-7, P-3)& FL/SOP/ENV/D-02
 Stack Identification : Stack attached to Gas Turbine- 09
 Rated Capacity : 20 MW
 Normal Operating Schedule : As per requirement
 Type of Stack /Duct : Mild Steel
 Stack Height from Ground Level (m) : 30
 Sampling Duration (min) : 57
 Internal Diameter of the Stack (m) : 3
 Type of Fuel used & its Consumption : Natural Gas
 Operation Load During Monitoring : 17.2 MW

Observations:

Number of Traverse Points : 32
 Flue Gas Temperature °C : 245.7
 Ambient Air Temperature °C : 38.6
 Flue Gas Velocity (m/s) : 30.1
 Volumetric Flow Rate (Nm³/h) : 439826.28

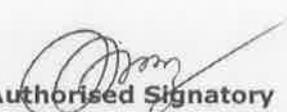
Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable limit#	Test Method
Chemical Analysis					
1	Carbon Dioxide	%	11.02	NA	IS:13270
2	Carbon Monoxide at 15% O ₂	ppm	11.24	NA	IS:13270
3	Oxides of Nitrogen (as NO ₂) at 15% O ₂	ppm	19.62	100	IS:11255 (P-7)
4	Particulate Matter at 15% O ₂	mg/Nm ³	10.48	NA	IS:11255 (P-1)
5	Sulphur Dioxide	ppm	2.82	NA	IS:11255 (P-2)
6	Total Hydrocarbons	mg/Nm ³	9.76	NA	FL/SOP/GC-24

NA= Not Applicable.

#As per MoEF&CC and SEIAA L.No. SEIAA/HR/2012/237-A, Dated: August 30, 2012 issued to MSIL Manesar, Gurgaon.


 Reviewed By


 Authorised Signatory
 D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only.

If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at feedback@farelabs.com and call at +91 959922122

*****End of Report*****



FARE LABS Private Limited,
Unit - 1

L-17/3, DLF Phase-II, IFFCO Chowk,

M.G. Road, Gurugram - 122 002, Haryana, INDIA.

Tel : +91-124-4223207-08, 4034205 | Cell : +91-9599221227

Email : farelabs@farelabs.com | Website : www.farelabs.co.in

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1 Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr. Ankur (FARE LABS Representative)



Analysis Report

Physical Description : Clear water

S. No.	Parameters	Unit	Test Results	Standard Limits*	Test Method
Chemical Analysis					
1	Ammonical Nitrogen (as N)	mg/L	0.331	50	APHA 23 rd Ed.
2	Biochemical Oxygen Demand, @ 27°C For 3days	mg/L	3	30	IS: 3025 (P-44)
3	Chemical Oxygen Demand	mg/L	20	250	IS-3025 (P-58)
4	Colour	Hazen	10	#	IS:3025 (P-4)
5	Cyanide (as CN)	mg/L	ND, (LOQ-0.03)	0.2	APHA 23 rd Ed.
6	Dissolved Phosphate	mg/L	ND, (LOQ-0.2)	5	APHA 23 rd Ed.
7	Fluoride (as F)	mg/L	0.24	2	APHA 23 rd Ed.
8	Free Ammonia(as NH ₃)	mg/L	ND, (LOQ-0.01)	5	APHA 23 rd Ed.
9	Hexavalent Chromium (as Cr)	mg/L	ND, (LOQ-0.01)	0.1	IS:3025 (P-52)
10	Nitrate Nitrogen	mg/L	1.74	10	IS-3025 (P-34)
11	Odour	--	Characteristics	#	IS:3025 (P-5)
12	Oil & Grease	mg/L	ND, (LOQ-2)	10	IS-3025 (P-39)
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	ND, (LOQ-0.1)	1.0	APHA 23 rd Ed.
14	Sulphide (as S)	mg/L	0.2	2	APHA 23 rd Ed.
15	Temperature	mg/L	27.1	Shall not exceed 5 °C above the receiving water temperature.	APHA 23 rd Ed.
16	Total Residual Chlorine	mg/L	ND, (LOQ-0.1)	1	APHA 23 rd Ed.
17	Total Suspended Solids	mg/L	4	100	IS-3025 (P-17)
18	Total kjeldahl Nitrogen(as NH ₃)	mg/L	0.84	100	APHA 23 rd Ed.

Reviewed By

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, India

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr.Ankur (FARE LABS Representative)



TC-5503

Analysis Report

S. No.	Parameters	Unit	Test Results	Standard Limits*	Test Method
Chemical Analysis					
19	pH Value	mg/L	7.70	5.5-9.0	IS-3025 (P-11)
Metal Analysis					
20	Arsenic (as As)	mg/L	ND, (LOQ-0.01)	0.2	FL/SOP/ICPMS-23
21	Cadmium (as Cd)	mg/L	ND, (LOQ-0.002)	2	FL/SOP/ICPMS-23
22	Copper (as Cu)	mg/L	ND, (LOQ-0.25)	3	FL/SOP/ICPMS-23
23	Iron (as Fe)	mg/L	0.074	3	FL/SOP/ICPMS-23
24	Lead (as Pb)	mg/L	ND, (LOQ-0.01)	0.1	FL/SOP/ICPMS-23
25	Manganese (as Mn)	mg/L	ND, (LOQ-0.25)	2	FL/SOP/ICPMS-23
26	Mercury (as Hg)	mg/L	ND, (LOQ-0.001)	0.01	FL/SOP/ICPMS-23
27	Nickel (as Ni)	mg/L	ND, (LOQ-1)	3	FL/SOP/ICPMS-23
28	Selenium (as Se)	mg/L	ND, (LOQ-1)	0.05	FL/SOP/ICPMS-23
29	Total Chromium (as Cr)	mg/L	ND, (LOQ-0.5)	2	FL/SOP/ICPMS-23
30	Vanadium (as V)	mg/L	ND, (LOQ-0.01)	0.2	FL/SOP/ICPMS-23
31	Zinc (as Zn)	mg/L	ND, (LOQ-0.01)	5	FL/SOP/ICPMS-23

Reviewed By

Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant

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

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1 Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr. Ankur (FARE LABS Representative)



Analysis Report

S. No.	Parameters	Unit	Test Results	HSPCB Limits***	Test Method
Biological					
1	Faecal coliform	MPN per 100ml	<1.8	<100	APHA 23 rd Ed.

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

Note: FL/SOP/ICPMS-23, Based on APHA 23rd Ed. 2017

*(Schedule VI Of EPA, 1993) For Discharge into Surface Water **as per CPCB Guidelines September 2019

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

*****HSPCB=** Haryana state pollution Control board.

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

Reviewed By
[Signature]

Authorised Signatory
[Signature]
Ms. Meenakshi Bakshi, Scientist B

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*****End of Report*****

TEST REPORT

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

J.O. No.: FL/W/SL/08072022-008
 Report Date: 13-07-2022
 Sample Receipt Date: 08-07-2022
 Account Manager: BD Team 7
 Credit Manager: Gulab/Septesh

Customer Provided Information:

Nature of the Sample & No. of Sample
 Location

: **ETP Outlet Water**
 : ETP Outlet Sampling Point

Laboratory Provided Information:

Sample Quantity & Packaging
 Test Started on
 Test Completed
 Method of Sampling
 Date of Sampling
 Sample Collected by

: 1Litre x 3 Pet Bottle, 500ml Sterilized Bottle
 : 08-07-2022
 : 13-07-2022
 : FL/SOP/B/D-1
 : 08-07-2022
 : Mr. Ankur (FARELABS Representative)

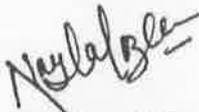
Analysis Report

Physical Description: Clear water.

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1.	Particle Size of Suspended Solids	All particles are passes from 850 micron IS Sieve	Shall pass 850 micron IS Sieve	EPR 1986

*(Schedule VI Of EPA, 1993) For Discharge into Surface Water.

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


 Reviewed By

Page 1 of 1


 Authorised Signatory
 H D Mathur, Director

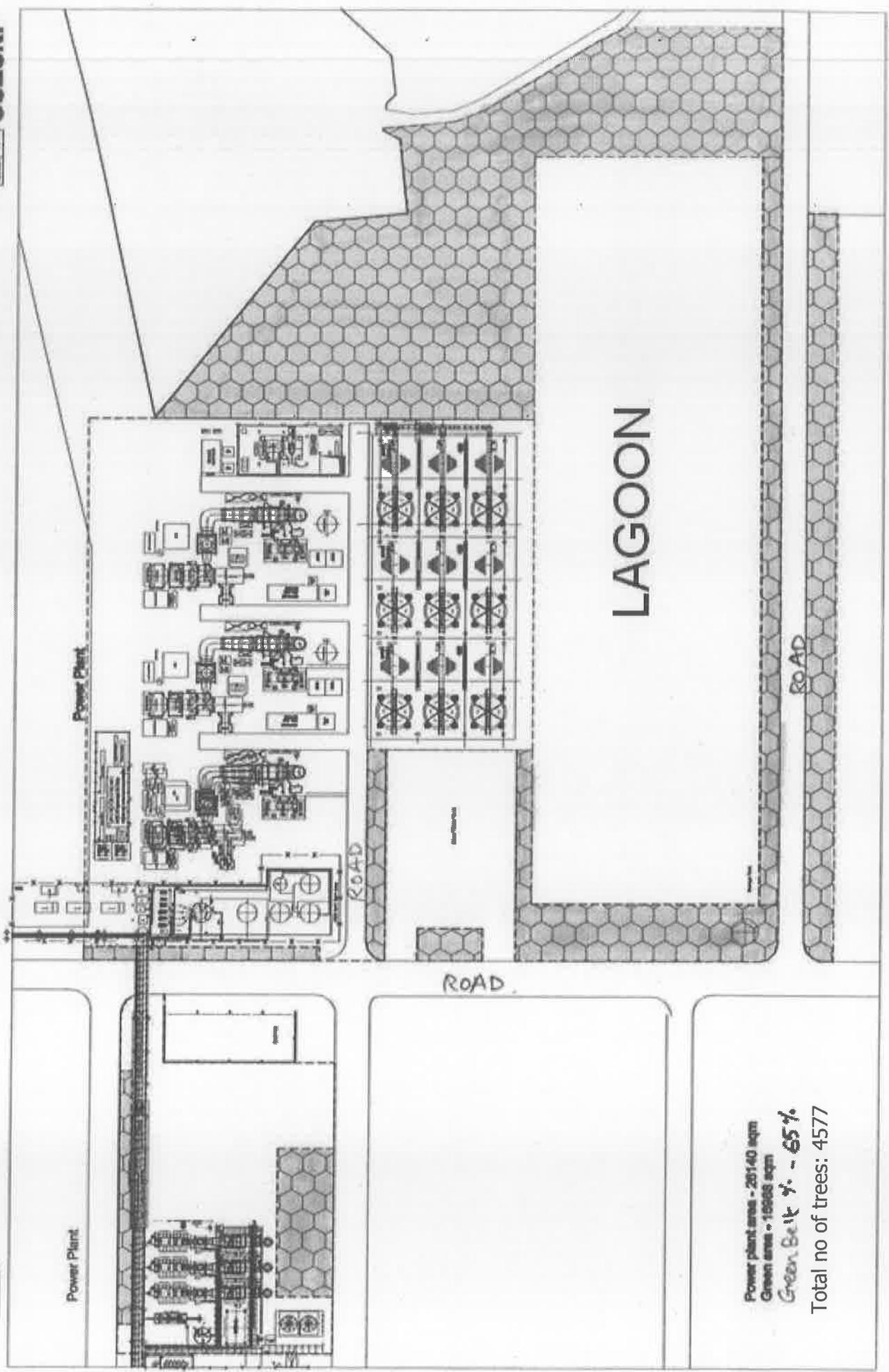
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#: The details are received from Customer on its own responsibility. FARE Labs does not Confirm about it and hence does not take any responsibility whatsoever.

*****End of Report*****

GREEN AREA AND RWTH



Power plant area - 28140 sqm
Green area - 19988 sqm
Green Belt % - 65%
Total no of trees: 4577

TEST REPORT**Issued to :**

MSIL Manesar Vehicle Plant
 Plot No-1, Phase 3A, IMT Manesar, Gurgaon
 Haryana, India

J.O. No. : ENV20220707-015-039
 ULR Code : TC5503 21 3 00016753 F
 Report Date : 12-07-2022
 Sample Receipt Date : 07-07-2022
 Account Manager : BD Team 7
 Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
 Date of Sampling : 06-07-2022
 Time of Sampling : 09:45 AM
 Test Started On : 07-07-2022
 Test Completed On : 12-07-2022
 Purpose of Monitoring : To Assess the Pollution Load
 Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
 Sampling Location : SND Gate
 Average Flow Rate (m³/min) (PM₁₀) : 1.16
 Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
 Ambient Temperature (°C) : 33.6
 Duration of Sampling : 24hrs

**Analysis Report**

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	63.28	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	130.69	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	1.68	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	13.29	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.36	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	22.14	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	38.76	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

Am
 Reviewed By

D. Mathur
 Authorised Signatory
 D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220707-015-040
ULR Code : TC5503 21 3 00016754 F
Report Date : 12-07-2022
Sample Receipt Date : 07-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 06-07-2022
Time of Sampling : 09:55 AM
Test Started On : 07-07-2022
Test Completed On : 12-07-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : STP Area
Average Flow Rate (m³/min) (PM_{1.0}) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 36.2
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	71.24	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	117.42	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.03	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.74	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.48	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.98	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	32.19	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Am
Reviewed By

[Signature]
Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant

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

J.O. No. : ENV20220706-008-030
ULR Code : TC5503 21 3 00016694 F
Report Date : 11-07-2022
Sample Receipt Date : 06-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 05-07-2022
Time of Sampling : 10:00 AM
Test Started On : 06-07-2022
Test Completed On : 11-07-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : COP Lab Area
Average Flow Rate (m³/min) (PM₁₀) : 1.18
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 34.1
Duration of Sampling : 24hrs



TC-5503

Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	73.12	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	123.06	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.14	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.28	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.53	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.74	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	29.83	100	IS:5182 (P-9)
8	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
9	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
10	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
11	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.


Reviewed By


Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant

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

J.O. No. : ENV20220706-008-031
ULR Code : TC5503 21 3 00016695 F
Report Date : 11-07-2022
Sample Receipt Date : 06-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 05-07-2022
Time of Sampling : 10:25 AM
Test Started On : 06-07-2022
Test Completed On : 11-07-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : JV Gate Area
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 34.3
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	83.54	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	115.42	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	1.92	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.63	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.48	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	23.19	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	34.15	100	IS:5182 (P-9)
8	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
9	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
10	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
11	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

Reviewed By

Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-004-008
ULR Code : TC5503 21 3 00013609 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 20-04-2022
Time of Sampling : 10:20 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : COP Lab Area
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 38.5
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	105.84	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	208.74	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	7.43	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	10.46	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.53	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	18.92	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	65.49	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

(Signature)
Reviewed By

(Signature)
Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-004-009
ULR Code : TC5503 21 3 00013610 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 20-04-2022
Time of Sampling : 10:25 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : JV Gate Area
Average Flow Rate (m³/min) (PM_{1.0}) : 1.18
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 38.4
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	125.68	60	FL/SOP/ENV-01
2	Particulate Matter (PM _{1.0})	µg/m ³	239.64	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	8.25	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.74	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.67	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	21.76	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	75.43	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM_{1.0} & PM_{2.5} values.

[Signature]
Reviewed By

[Signature]
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, India

J.O. No. : ENV20220420-006-017
ULR Code : TC5503 21 3 00013618 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 19-04-2022
Time of Sampling : 11:10 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : SND Gate
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39.2
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	119.73	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	198.76	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.52	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	8.96	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.63	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.39	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	54.09	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Reviewed By

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, India

J.O. No. : ENV20220420-006-018
ULR Code : TC5503 21 3 00013619 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 19-04-2022
Time of Sampling : 11:20 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : STP Area
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39.5
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	104.52	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	205.64	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	11.4	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.47	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.54	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	16.58	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	60.94	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Reviewed By


Authorised Signatory

D. Mathur, Director

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*****End of Report*****

Times of India

MARUTI SUZUKI
Way of Life

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

SEIAA हरियाणा द्वारा मारुति सुजुकी इंडिया लिमिटेड को सरोवर फ्लाइट में पॉवर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोदन प्रदान कर दिया गया है। अनुमोदन पत्र की प्रतियां हरियाणा राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध हैं। अनुमोदन पत्र को मारुति सुजुकी इंडिया लिमिटेड की वेबसाइट 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
Way of Life!

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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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, SO₂, NO_x, 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 (SO₂)
2. Nitrogen Dioxide (NO₂)
3. Particulate Matter (PM₁₀)
4. Particulate Matter (PM_{2.5})

5. Ozone (O₃)
6. Lead (Pb)
7. Carbon Monoxide (CO)
8. Ammonia (NH₃)
9. Benzene (C₆H₆)
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 (O₃)
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 SO₂ 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 (SO₂) - 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.

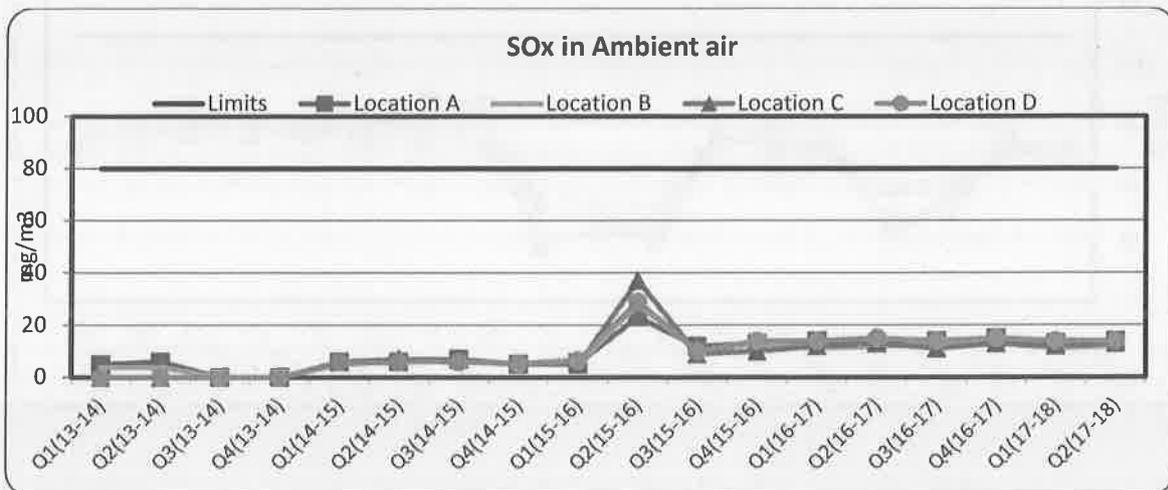
Measures results and graphs – The study commenced from April 2013 onwards. The Results are attached as below:

AMBIENT AIR MONITORING DATA 1st Qrt									
	S. No	Location	Starting Date	End Date	SO ₂	NO _x	Ozone	PM _{2.5}	PM ₁₀
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

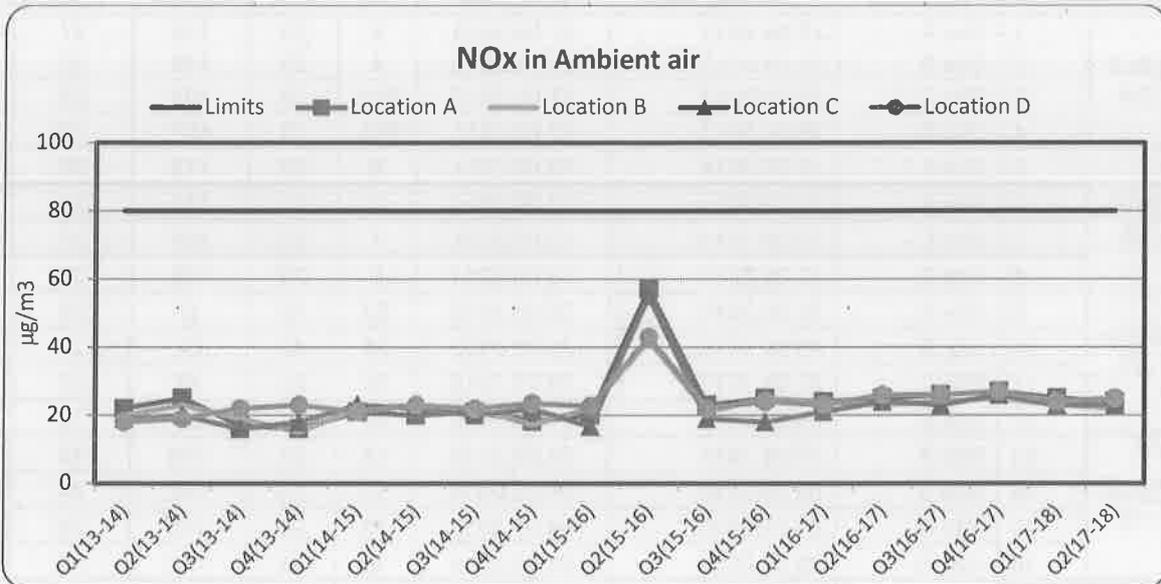
AMBIENT AIR MONITORING DATA IIInd Qrt									
	S.No	Location	Starting Date	End Date	SO ₂	NO _x	Ozone	PM _{2.5}	PM ₁₀
2013-14	1	Site A	26.08.2013	27.08.2013	6	25	110	27	68
	2	Site B	26.08.2013	27.08.2013	4	23	108	26	65
	3	Site C	26.08.2013	27.08.2013	BDL	20	103	23	62
	4	Site D	26.08.2013	27.08.2013	BDL	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:

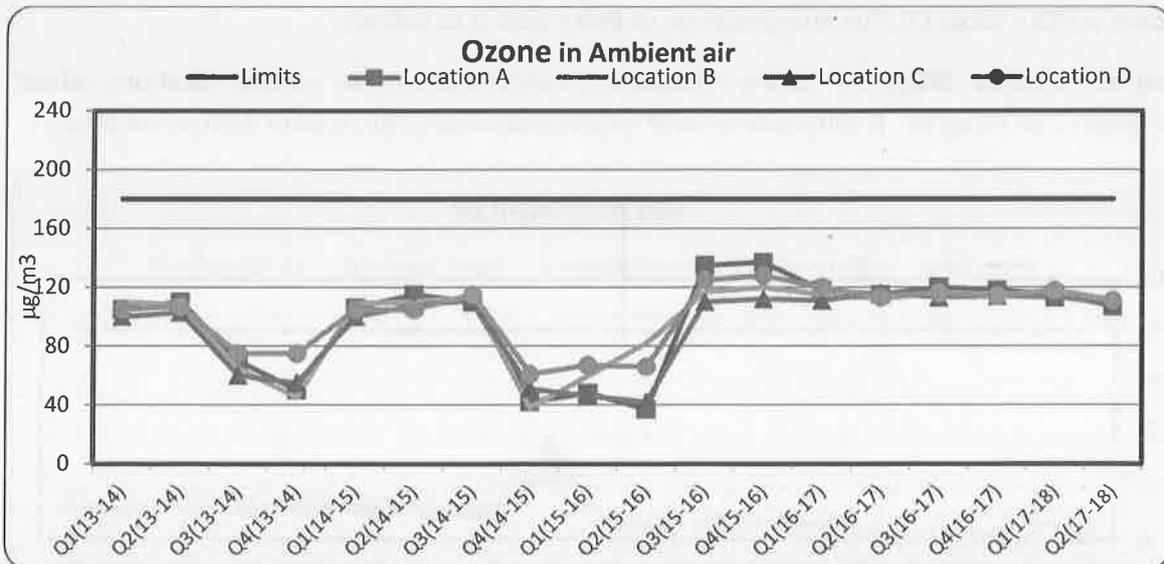
Sulphur Dioxide (SO₂): 24 hourly monitoring concentrations at various locations varied between 0 to 37 µg/m³. It reflects that their no increase in pollution load in AAQ of the area.



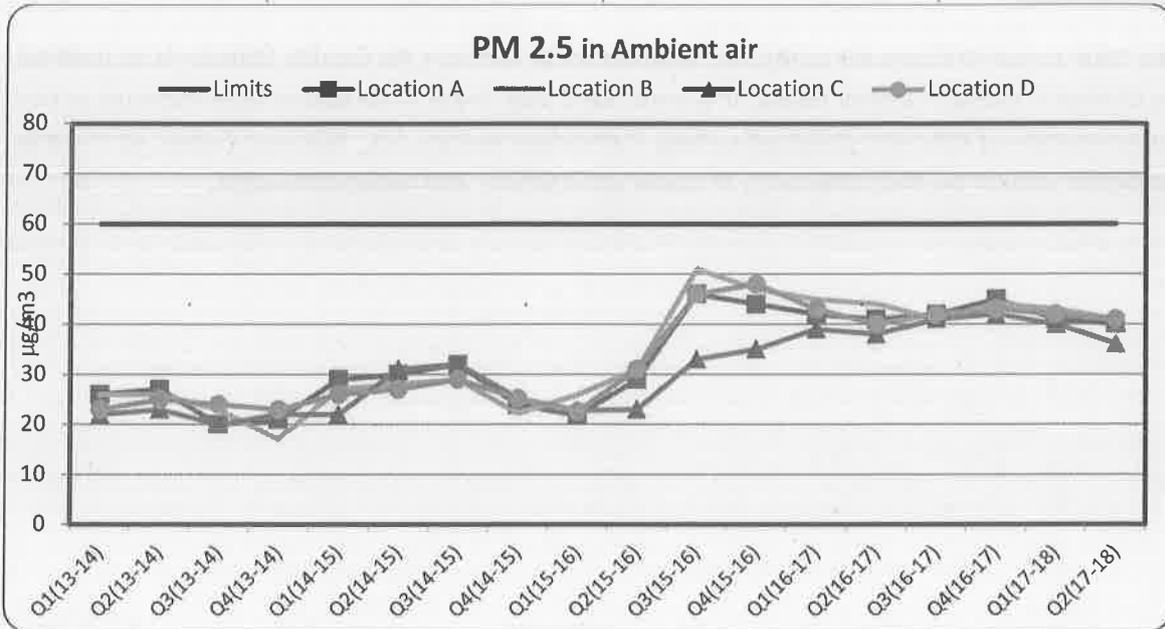
Nitrogen Oxide (NO_x): 24 hourly monitoring concentrations at various locations varied between 15 to 57 µg/m³. It reflects that their no increase in pollution load in AAQ of the area.



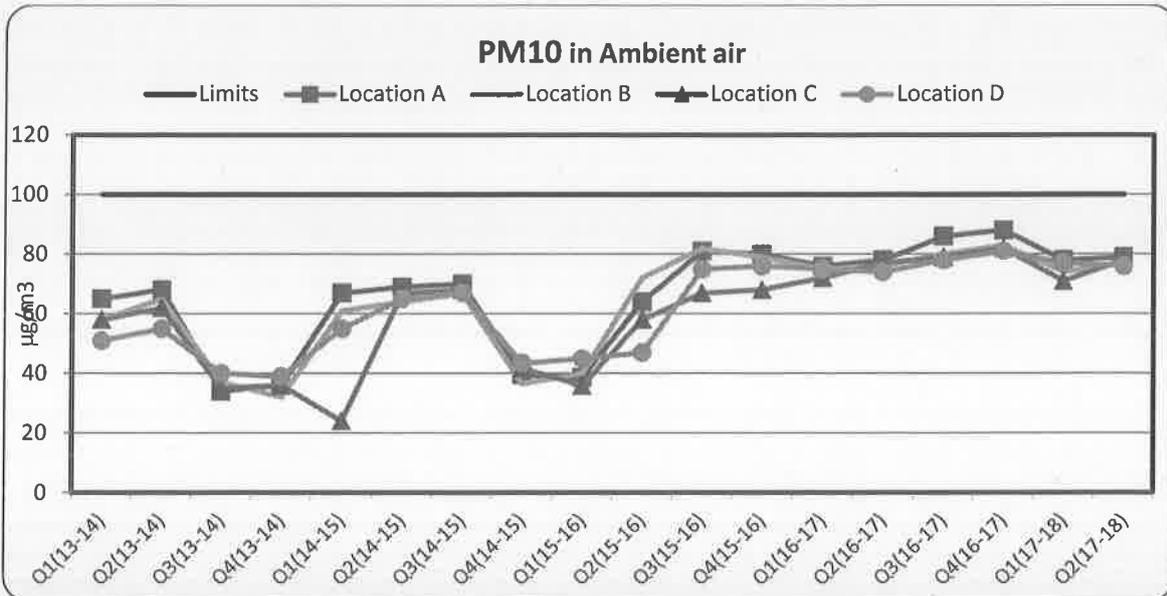
Ozone(O₃): The concentrations are various locations varied between 37 to 137 µg/m³. The study reflects that the effect on surrounding area due to the power plant emission is negligible.



PM_(2.5): 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₍₁₀₎: 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_x, NO_x 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)	
Sulphur Dioxide (SO ₂), µg/m ³	Annual *	50	20	-Improved West and Gaeke Method -Ultraviolet Fluorescence
	24 Hours **	80	80	
Nitrogen Dioxide (NO ₂), µg/m ³	Annual *	40	30	-Jacob & Hochheiser modified (NaOH-NaAsO ₂) Method -Gas Phase Chemiluminescence
	24 Hours **	80	80	
Particulate Matter (Size less than 10µm) or PM ₁₀ , µg/m ³	Annual *	60	60	-Gravimetric -TEOM -Beta attenuation
	24 Hours **	100	100	
Particulate Matter (Size less than 2.5µm) or PM _{2.5} , µg/m ³	Annual *	40	40	-Gravimetric -TEOM -Beta attenuation
	24 Hours **	60	60	
Ozone (O ₃) µg/m ³	8 Hours *	100	100	-UV Photometric -Chemiluminescence -Chemical Method
	1 Hour **	180	180	
Lead (Pb) µg/m ³	Annual *	0.50	0.50	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter paper -ED-XRF using Teflon filter
	24 Hours **	1.0	1.0	
Carbon Monoxide(CO), mg/m ³	8 Hours **	02	02	-Non dispersive Infrared (NDIR) Spectroscopy
	1 Hour **	04	04	
Ammonia (NH ₃), µg/m ³	Annual *	100	100	-Chemiluminescence -Indophenol blue method
	24 Hours **	400	400	
Benzene (C ₆ H ₆), µg/m ³	Annual *	05	05	-Gas Chromatography (GC) based continuous analyzer -Adsorption and desorption followed by GC analysis
Benzo(a)Pyrene (BaP) Particulate phase only, ng/m ³	Annual *	01	01	-Solvent extraction followed by HPLC/GC analysis
Arsenic (As), ng/m ³	Annual *	06	06	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter paper
Nickel (Ni), ng/m ³	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.



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RANIPUR, HARIDWAR (U.K.) - 249 403

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

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 ₂)	µg/m ³	13	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	25	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	78	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	41	60
5.	Ozone (O ₃)	µg/m ³	115	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.3	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	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

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BHARAT HEAVY ELECTRICALS LIMITED

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ISO 9001-2008 OHSAS 18001-2007

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 ₂)	µg/m ³	11	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	74	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	43	60
5.	Ozone (O ₃)	µg/m ³	116	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.5	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	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)

उप-प्रबंधक/ Dy. Manager

पर्यावरण नियंत्रण अनुसंधान संस्थान

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TEST REPORT

AMBIENT AIR MONITORING

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

Date: 17.06.2017

A. GENERAL INFORMATION:

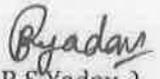
1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-O-791
3.	Date of sampling	:	02.06.2016 to 03.06.2016
4.	Location of Sampling	:	C:SND Gate
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999 , NDIR, Jacob & Hochheiser Modified (Na-Arsenite) 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 ₂)	µg/m ³	12	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	71	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	40	60
5.	Ozone (O ₃)	µg/m ³	113	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	1.9	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	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)
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Dy. Manager
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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 :0119
Date: 17.06.2017

A. GENERAL INFORMATION:

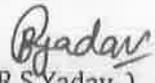
1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0062-O-791
3.	Date of sampling	:	02.06.2016 to 03.06.2016
4.	Location of Sampling	:	D:Near Incinerator
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) 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 ₂)	µg/m ³	14	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	24	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	77	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	42	60
5.	Ozone (O ₃)	µg/m ³	118	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.0	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	13	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)
रानीपुर/ Dy. Manager
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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 ₂)	µg/m ³	14	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	24	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	79	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	40	60
5.	Ozone (O ₃)	µg/m ³	107	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.2	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	10	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

Pollution Control Research Institute

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TEST REPORT
AMBIENT AIR MONITORING

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

A. GENERAL INFORMATION:

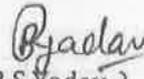
1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-0-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	B:Gate No. 1
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) 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 ₂)	µg/m ³	12	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	22	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	77	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	41	60
5.	Ozone (O ₃)	µg/m ³	110	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.4	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	12	20

BDL: Below Detectable Limit,

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


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 - (3) Samples will be disposed off after one month from the date of issue of Test Certificate



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भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड)-249403

POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)
BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403



(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:

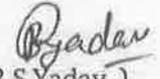
1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd., Manesar, Haryana
2.	Work Order No.	:	17-0135-0-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	:	D:Near Incinerator
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) 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 ₂)	µg/m ³	14	80
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	25	80
3.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	76	100
4.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	41	60
5.	Ozone (O ₃)	µg/m ³	111	180
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Carbon Monoxide (CO)	mg/m ³	2.1	4
8.	Ammonia (NH ₃)	µg/m ³	BDL	400
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	12	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)
राजेश सिंह यादव/R. S. Yadav
उप प्रबन्धक/Dy Manager
Pollution Control Research Institute
प्रदूषण नियन्त्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar, U.K.

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPCB and Environment (Protection) Act, 1986, 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

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: 5th 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 3rd 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 m². The coordinates of the proposed project site are latitude 27⁰ 39' N to 28⁰ 32'N and Longitude 76⁰ 39' E to 77⁰ 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 m³/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 m² 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 NOx burners shall be provided and it shall be ensured that NOx 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 $1/3^{\text{rd}}$ 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:22-23:079

22-Nov-2022

To
Ministry of Environment, Forest and Climate Change
Integrated Regional Office
Bays No 24-25, Sector – 31 A
Dakshin Marg,
Chandigarh - 160030

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

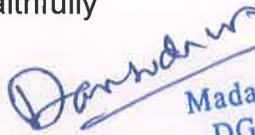
Ref: Environment Clearance Letter from MoEF – No. J-13011/71/2007-IA-II (T), dated
05.02.2008.

Dear Sir,

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

Thanking You.

Yours Faithfully


Madan Ankush Bansode
DGM (Environment)
Maruti Suzuki India Limited

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-13011/71/2007-IA,II (T) dated 5.2.2008

S. No.	Clearance Conditions	Compliance Status
1	No additional land shall be acquired in excess of 8500 m ² 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 Annexure-1.
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 _x burners shall be provided and it shall be ensured that NO _x emission from the stack is less than 100 ppm.	NO _x emissions are less than 100 ppm. The stack monitoring reports are placed at Annexure-2.
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 with in 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 Annexure-3.
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 Annexure-4.
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 rd of the total area.	Details of Green Belt are placed at Annex: 4
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 Annexure-5.

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 http://envfor.nic.in .	Notice was published in Amar Ujala (Hindi) and Tribune (English). Copy of the same is attached as Annexure - 6
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.	We are submitting the half yearly compliance reports to concerned offices on or before June and Dec of every year.
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	River Valley/Mining/Industry /Transportation Tourism/Thermal/Nuclear/Other (Specify)
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 th February, 2008
4.	Location: a) District (s) b) State (s) c) Latitudes/Longitudes	District: Gurgaon (South) State: Haryana Latitude: 27 ^o 39' N to 28 ^o 32'N Longitude: 76 ^o 39'E to 77 ^o 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: Madan.Bansode@maruti.co.in Phone 0124 – 2346721 ~ 30 Extn : 3583 Mr. Bineet Arora General Manager – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: bineet.arora@maruti.co.in 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 Plan details is enclosed in Annexure A
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 & sustainability of compensatory afforestation programmes in the light of actual field experience so far.</p>	<p>Not Applicable</p>
11.	<p>The status of clear feeling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.</p>	<p>Not Applicable</p>
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.	<p>Reasons for the delay if the project is yet to start:</p>	<p>Not Applicable</p>

SALIENT FEATURES OF PROJECT:

1. Name of the Project : Gas turbine at Maruti Suzuki India Limited,
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_x emissions will be below 100 ppm.
- SPM and SO₂ 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 SO₂ 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.

दूरभाष/Tel: 022 - 2550 5354
 फैक्स/Fax: 022 - 2550 5161
 022 - 2550 5353
 ई-मेल/e-mail: ndsharma@barc.gov.in



भारत सरकार

GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केंद्र

BHABHA ATOMIC RESEARCH CENTRE

228
 Fax

संदेश 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 18th 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

(N. D. Sharma)
 Controller

16/04/08

संचार अनुभाग / Communication Section

फैक्स परिवहन / Fax Transmission

संदेश सं. / Message No.

दिनांक 27/5/08

Transmitted on..... at..... hrs.

6072

यदि भेज दिया गया।

TEST REPORT**Issued to :**

MSIL Manesar Vehicle Plant
 Plot No-1, Phase 3A, IMT Manesar, Gurgaon
 Haryana, India

J.O. No. : ENV20220421-007-034
 ULR Code : TC5503 22 3 00003900 F
 Report Date : 26-04-2022
 Sample Receipt Date : 21-04-2022
 Account Manager : Swati Singh
 Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Stack Emissions Monitoring**
 Date of Sampling : 21-04-2022
 Time of sampling : 11:55 AM
 Test Started On : 21-04-2022
 Test Completed On : 26-04-2022
 Purpose of Monitoring : To Check Pollution Load
 Name of the Emission Source Monitoring : Gas Turbine- 7
 Sampling Method : IS-11255 (P-7, P-3)& FL/SOP/ENV/D-02
 Stack Identification : Stack attached to Gas Turbine- 7
 Rated Capacity : 20 MW
 Normal Operating Schedule : As per requirement
 Type of Stack /Duct : Mild Steel
 Stack Height from Ground Level (m) : 30
 Sampling Duration (min) : 57
 Internal Diameter of the Stack (m) : 3
 Type of Fuel used & Its Consumption : Natural Gas
 Operation Load During Monitoring : 16.9 MW

**Observations:**

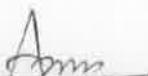
Number of Traverse Points : 32
 Flue Gas Temperature °C : 253.4
 Ambient Air Temperature °C : 39.5
 Flue Gas Velocity (m/s) : 30.4
 Volumetric Flow Rate (Nm³/h) : 437712.18

Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable limit#	Test Method
Chemical Analysis					
1	Carbon Monoxide at 15% O ₂	ppm	18.94	NA	IS:13270
2	Carbon Dioxide	%	10.38	NA	IS:13270
3	Oxides of Nitrogen (as NO ₂) at 15% O ₂	ppm	20.36	100	IS:11255 (P-7)
4	Particulate Matter at 15% O ₂	mg/Nm ³	14.73	NA	IS:11255 (P-1)
5	Sulphur Dioxide	ppm	3.18	NA	IS:11255 (P-2)
6	Total Hydrocarbons	mg/Nm ³	9.24	NA	FL/SOP/GC-24

NA= Not Applicable.

#As per MoEF&CC L.No. J-13012/71/2007-IA.II(T) Dated: February 05, 2008 issued to MSIL Manesar, Gurgaon.


 Reviewed By


 Authorised Signatory
 D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only.

If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at feedback@farelabs.com and call at +91 9599221222

*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220427-015-042
ULR Code : TC5503 22 3 00004149 F
Report Date : 02-05-2022
Sample Receipt Date : 27-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample	: Stack Emissions Monitoring
Date of Sampling	: 26-04-2022
Time of sampling	: 11:30 AM
Test Started On	: 27-04-2022
Test Completed On	: 02-05-2022
Purpose of Monitoring	: To Check Pollution Load
Name of the Emission Source Monitoring	: Gas Turbine- 08
Sampling Method	: IS-11255 (P-7, P-3)& FL/SOP/ENV/D-02
Stack Identification	: Stack attached to Gas Turbine- 08
Rated Capacity	: 20 MW
Normal Operating Schedule	: As per requirement
Type of Stack /Duct	: Mild Steel
Stack Height from Ground Level (m)	: 30
Sampling Duration (min)	: 56
Internal Diameter of the Stack (m)	: 3
Type of Fuel used & its Consumption	: Natural Gas
Operation Load During Monitoring	: 17.5 MW



Observations:

Number of Traverse Points	: 32
Flue Gas Temperature °C	: 226.3
Ambient Air Temperature °C	: 38.7
Flue Gas Velocity (m/s)	: 30.7
Volumetric Flow Rate (Nm ³ /h)	: 466023.42

Analysis Report

S. No.	Parameters	Unit	Test Results	Allowable limit#	Test Method
Chemical Analysis					
1	Carbon Dioxide	%	10.38	NA	IS:13270
2	Carbon Monoxide at 15% O ₂	%	20.43	NA	IS:13270
3	Oxides of Nitrogen (as NO ₂) at 15% O ₂	ppm	22.63	100	IS:11255 (P-7)
4	Particulate Matter at 15% O ₂	mg/Nm ³	13.2	NA	IS:11255 (P-1)
5	Sulphur Dioxide	ppm	2.54	NA	IS:11255 (P-2)
6	Total Hydrocarbons	mg/Nm ³	8.26	NA	FL/SOP/GC-24

NA= Not Applicable.

#As per MoEF&CC L.No. J-13012/71/2007-IA.II(T) Dated: February 05, 2008 issued to MSIL Manesar, Gurgaon.

Am
Reviewed By

[Signature]
Authorised Signatory
D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only.
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*****End of Report*****



FARE LABS Private Limited

Unit - 1

L-17/3, DLF Phase-II, IFFCO Chowk,

M.G. Road, Gurugram - 122 002, Haryana, INDIA.

Tel : +91-124-4223207-08, 4034205 | Cell : +91-9599221227

Email : farelabs@farelabs.com | Website : www.farelabs.co.in

TEST REPORT**Issued to :**

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1 Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr. Ankur (FARE LABS Representative)

**Analysis Report**

Physical Description : Clear water

S. No.	Parameters	Unit	Test Results	Standard Limits*	Test Method
Chemical Analysis					
1	Ammonical Nitrogen (as N)	mg/L	0.331	50	APHA 23 rd Ed.
2	Biochemical Oxygen Demand, @ 27°C For 3days	mg/L	3	30	IS: 3025 (P-44)
3	Chemical Oxygen Demand	mg/L	20	250	IS-3025 (P-58)
4	Colour	Hazen	10	#	IS:3025 (P-4)
5	Cyanide (as CN)	mg/L	ND, (LOQ-0.03)	0.2	APHA 23 rd Ed.
6	Dissolved Phosphate	mg/L	ND, (LOQ-0.2)	5	APHA 23 rd Ed.
7	Fluoride (as F)	mg/L	0.24	2	APHA 23 rd Ed.
8	Free Ammonia(as NH ₃)	mg/L	ND, (LOQ-0.01)	5	APHA 23 rd Ed.
9	Hexavalent Chromium (as Cr)	mg/L	ND, (LOQ-0.01)	0.1	IS:3025 (P-52)
10	Nitrate Nitrogen	mg/L	1.74	10	IS-3025 (P-34)
11	Odour	--	Characteristics	#	IS:3025 (P-5)
12	Oil & Grease	mg/L	ND, (LOQ-2)	10	IS-3025 (P-39)
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	ND, (LOQ-0.1)	1.0	APHA 23 rd Ed.
14	Sulphide (as S)	mg/L	0.2	2	APHA 23 rd Ed.
15	Temperature	mg/L	27.1	Shall not exceed 5 °C above the receiving water temperature.	APHA 23 rd Ed.
16	Total Residual Chlorine	mg/L	ND, (LOQ-0.1)	1	APHA 23 rd Ed.
17	Total Suspended Solids	mg/L	4	100	IS-3025 (P-17)
18	Total kjeldahl Nitrogen(as NH ₃)	mg/L	0.84	100	APHA 23 rd Ed.

Reviewed By

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, India

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1 Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr.Ankur (FARE LABS Representative)



Analysis Report

S. No.	Parameters	Unit	Test Results	Standard Limits*	Test Method
Chemical Analysis					
19	pH Value	mg/L	7.70	5.5-9.0	IS-3025 (P-11)
Metal Analysis					
20	Arsenic (as As)	mg/L	ND, (LOQ-0.01)	0.2	FL/SOP/ICPMS-23
21	Cadmium (as Cd)	mg/L	ND, (LOQ-0.002)	2	FL/SOP/ICPMS-23
22	Copper (as Cu)	mg/L	ND, (LOQ-0.25)	3	FL/SOP/ICPMS-23
23	Iron (as Fe)	mg/L	0.074	3	FL/SOP/ICPMS-23
24	Lead (as Pb)	mg/L	ND, (LOQ-0.01)	0.1	FL/SOP/ICPMS-23
25	Manganese (as Mn)	mg/L	ND, (LOQ-0.25)	2	FL/SOP/ICPMS-23
26	Mercury (as Hg)	mg/L	ND, (LOQ-0.001)	0.01	FL/SOP/ICPMS-23
27	Nickel (as Ni)	mg/L	ND, (LOQ-1)	3	FL/SOP/ICPMS-23
28	Selenium (as Se)	mg/L	ND, (LOQ-1)	0.05	FL/SOP/ICPMS-23
29	Total Chromium (as Cr)	mg/L	ND, (LOQ-0.5)	2	FL/SOP/ICPMS-23
30	Vanadium (as V)	mg/L	ND, (LOQ-0.01)	0.2	FL/SOP/ICPMS-23
31	Zinc (as Zn)	mg/L	ND, (LOQ-0.01)	5	FL/SOP/ICPMS-23

Reviewed By

Authorised Signatory
D Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : W20220708-038-089
ULR Code : TC5503 22 2 00014549 F
Report Date : 13-07-2022
Sample Receipt Date : 08-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample : **ETP Outlet Water**
Location : ETP Plant

Laboratory Provided Information:

Sample Quantity & Packaging : 1 Litre x 3 Pet Bottle, 500ml Sterilized Bottle
Test started on : 08-07-2022
Test Completed : 13-07-2022
Method of Sampling : FL/SOP/B/D-1
Date of Sampling : 08-07-2022
Sample Collected by : Mr. Ankur (FARE LABS Representative)



Analysis Report

S. No.	Parameters	Unit	Test Results	HSPCB Limits***	Test Method
Biological					
1	Faecal coliform	MPN per 100ml	<1.8	<100	APHA 23 rd Ed.

ND= Not Detected; LOQ= Limit of Quantification

Note: FL/SOP/ICPMS-23, Based on APHA 23rd Ed. 2017

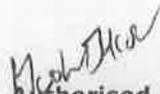
*(Schedule VI Of EPA, 1993) For Discharge into Surface Water **as per CPCB Guidelines September 2019

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

***HSPCB= Haryana state pollution Control board.

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

Reviewed By 

Authorised Signatory 
Ms. Meenakshi Bakshi, Scientist B

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*****End of Report*****

TEST REPORT

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

J.O. No.: FL/W/SL/08072022-008
 Report Date: 13-07-2022
 Sample Receipt Date: 08-07-2022
 Account Manager: BD Team 7
 Credit Manager: Gulab/Septesh

Customer Provided Information:

Nature of the Sample & No. of Sample
 Location

: **ETP Outlet Water**
 : ETP Outlet Sampling Point

Laboratory Provided Information:

Sample Quantity & Packaging
 Test Started on
 Test Completed
 Method of Sampling
 Date of Sampling
 Sample Collected by

: 1Litre x 3 Pet Bottle, 500ml Sterilized Bottle
 : 08-07-2022
 : 13-07-2022
 : FL/SOP/B/D-1
 : 08-07-2022
 : Mr. Ankur (FARELABS Representative)

Analysis Report

Physical Description: Clear water.

S. No.	Parameter	Test Result	Standard Limits*	Protocol
1.	Particle Size of Suspended Solids	All particles are passes from 850 micron IS Sieve	Shall pass 850 micron IS Sieve	EPR 1986

*(Schedule VI Of EPA, 1993) For Discharge into Surface Water.

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


Reviewed By

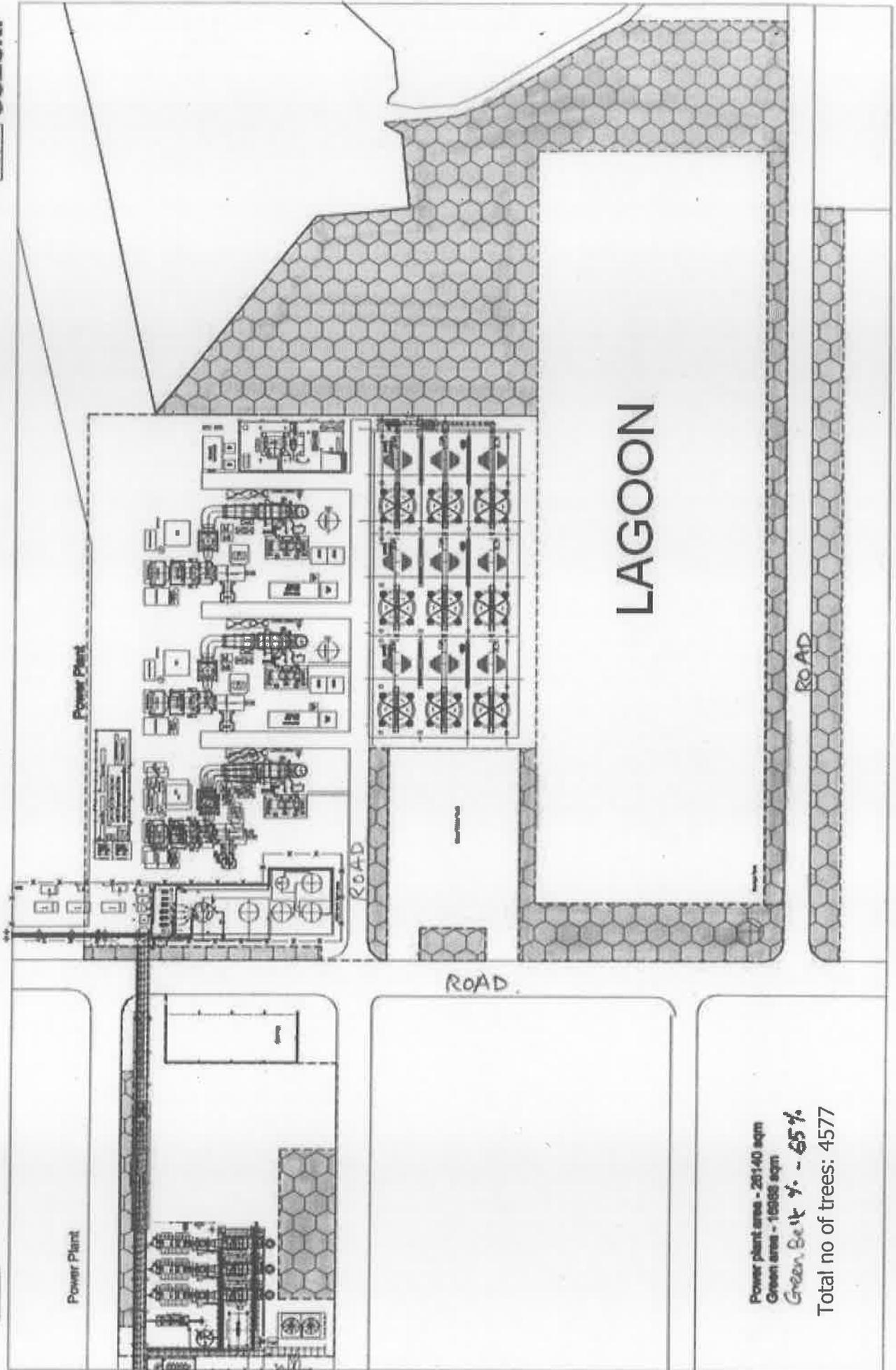
Page 1 of 1


Authorized Signatory
 D Mathur, Director

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*****End of Report*****

GREEN AREA AND RWTH



Power plant area - 26140 sqm
Green area - 15939 sqm
Green Belt % - 65 %
Total no of trees: 4577

TEST REPORT**Issued to :**

MSIL Manesar Vehicle Plant
 Plot No-1, Phase 3A, IMT Manesar, Gurgaon
 Haryana, India

J.O. No. : ENV20220706-008-030
 ULR Code : TC5503 21 3 00016694 F
 Report Date : 11-07-2022
 Sample Receipt Date : 06-07-2022
 Account Manager : BD Team 7
 Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
 Date of Sampling : 05-07-2022
 Time of Sampling : 10:00 AM
 Test Started On : 06-07-2022
 Test Completed On : 11-07-2022
 Purpose of Monitoring : To Assess the Pollution Load
 Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
 Sampling Location : COP Lab Area
 Average Flow Rate (m³/min) (PM₁₀) : 1.18
 Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
 Ambient Temperature (°C) : 34.1
 Duration of Sampling : 24hrs

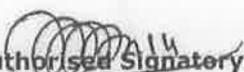
**Analysis Report**

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	73.12	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	123.06	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.14	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.28	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.53	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.74	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	29.83	100	IS:5182 (P-9)
8	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
9	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
10	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
11	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.


 Reviewed By


 Authorised Signatory
 D. Mathur, Director

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*****End of Report*****

TEST REPORT
Issued to :

MSIL Manesar Vehicle Plant
 Plot No-1, Phase 3A, IMT Manesar, Gurgaon
 Haryana, India

J.O. No. : ENV20220706-008-031
 ULR Code : TC5503 21 3 00016695 F
 Report Date : 11-07-2022
 Sample Receipt Date : 06-07-2022
 Account Manager : BD Team 7
 Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
 Date of Sampling : 05-07-2022
 Time of Sampling : 10:25 AM
 Test Started On : 06-07-2022
 Test Completed On : 11-07-2022
 Purpose of Monitoring : To Assess the Pollution Load
 Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
 Sampling Location : JV Gate Area
 Average Flow Rate (m³/min) (PM₁₀) : 1.16
 Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
 Ambient Temperature (°C) : 34.3
 Duration of Sampling : 24hrs


Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	83.54	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	115.42	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	1.92	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	9.63	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.48	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	23.19	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	34.15	100	IS:5182 (P-9)
8	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
9	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
10	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
11	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

Reviewed By

Authorised Signatory
 D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220707-015-039
ULR Code : TC5503 21 3 00016753 F
Report Date : 12-07-2022
Sample Receipt Date : 07-07-2022
Account Manager : BD Team 7
Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 06-07-2022
Time of Sampling : 09:45 AM
Test Started On : 07-07-2022
Test Completed On : 12-07-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : SND Gate
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 33.6
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	63.28	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	130.69	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	1.68	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	13.29	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.36	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	22.14	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	38.76	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

[Signature]
Reviewed By

[Signature]
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, India

J.O. No. : ENV20220707-015-040
 ULR Code : TC5503 21 3 00016754 F
 Report Date : 12-07-2022
 Sample Receipt Date : 07-07-2022
 Account Manager : BD Team 7
 Credit Manager : Gulab/Septesh

Sample Particulars:

Nature of the Sample : **Ambient Air**
 Date of Sampling : 06-07-2022
 Time of Sampling : 09:55 AM
 Test Started On : 07-07-2022
 Test Completed On : 12-07-2022
 Purpose of Monitoring : To Assess the Pollution Load
 Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
 Sampling Location : STP Area
 Average Flow Rate (m³/min) (PM₁₀) : 1.16
 Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
 Ambient Temperature (°C) : 36.2
 Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	71.24	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	117.42	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.03	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.74	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.48	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.98	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	32.19	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for PM₁₀ & PM_{2.5} values.

Amr
 Reviewed By

D. Mathur
 Authorised Signatory
 D. Mathur, Director

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. Samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability at FARELABS Pvt. Ltd. is limited to invoiced amount only. The recipient of this report is requested to kindly confirm with FARE Labs through email the authenticity and genuineness of this report. FARE Labs is not responsible for any unconfirmed Test Report.

If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at feedback@farelabs.com and call at +91 9599221227.

*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-004-008
ULR Code : TC5503 21 3 00013609 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 20-04-2022
Time of Sampling : 10:20 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : COP Lab Area
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 38.5
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	105.84	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	208.74	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	7.43	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	10.46	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.53	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	18.92	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	65.49	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

(Signature)
Reviewed By

(Signature)
Authorised Signatory
D. Mathy, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-004-009
ULR Code : TC5503 21 3 00013610 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 20-04-2022
Time of Sampling : 10:25 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : JV Gate Area
Average Flow Rate (m³/min) (PM₁₀) : 1.18
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 38.4
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	125.68	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	239.64	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	8.25	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.74	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.67	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	21.76	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	75.43	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

(Signature)
Reviewed By

(Signature)
Authorised Signatory
D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-006-017
ULR Code : TC5503 21 3 00013618 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 19-04-2022
Time of Sampling : 11:10 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : SND Gate
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39.2
Duration of Sampling : 24hrs



Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	119.73	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	198.76	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	10.52	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	8.96	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.63	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	20.39	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	54.09	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Reviewed By

Authorised Signatory

D. Mathur, Director

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*****End of Report*****

TEST REPORT

Issued to :

MSIL Manesar Vehicle Plant
Plot No-1, Phase 3A, IMT Manesar, Gurgaon
Haryana, India

J.O. No. : ENV20220420-006-018
ULR Code : TC5503 21 3 00013619 F
Report Date : 25-04-2022
Sample Receipt Date : 20-04-2022
Account Manager : Swati Singh
Credit Manager : Gulab Singh/Septesh Kumar

Sample Particulars:

Nature of the Sample : **Ambient Air**
Date of Sampling : 19-04-2022
Time of Sampling : 11:20 AM
Test Started On : 20-04-2022
Test Completed On : 25-04-2022
Purpose of Monitoring : To Assess the Pollution Load
Method of Sampling : IS-5182 (P-14) & FL/SOP/ENV/D-01
Sampling Location : STP Area
Average Flow Rate (m³/min) (PM₁₀) : 1.16
Avg. Flow Rate of Air (lpm) (for Benzene) : 0.2
Ambient Temperature (°C) : 39.5
Duration of Sampling : 24hrs



TC-5503

Analysis Report

S. No.	Parameters	Unit	Test Results	NAAQS*	Test Method
Chemical Analysis					
1	Particulate Matter (PM _{2.5})	µg/m ³	104.52	60	FL/SOP/ENV-01
2	Particulate Matter (PM ₁₀)	µg/m ³	205.64	100	IS:5182 (P-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	11.4	80	IS:5182 (P-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	11.47	80	IS:5182 (P-6)
5	Carbon Monoxide (CO)	mg/m ³	0.54	2	IS:5182 (P-10)
6	Ammonia (NH ₃)	µg/m ³	16.58	400	Methods of Air Sampling & Analysis (401)
7	Ozone (O ₃)	µg/m ³	60.94	100	IS:5182 (P-9)
Heavy Metals					
8	Nickel (Ni)	ng/m ³	ND, [DL-0.5]	20	FL/SOP/ENV-18
9	Arsenic (As)	ng/m ³	ND, [DL-0.5]	6	FL/SOP/ENV-18
Chemical Analysis					
10	Benzene (C ₆ H ₆)	µg/m ³	ND, [DL-0.5]	5	FL/SOP/GC-46
11	Benzo (a) Pyrene (BaP)	ng/m ³	ND, [DL-0.5]	1	Methods of Air Sampling & Analysis (102)
Heavy Metals					
12	Lead (as Pb)	µg/m ³	ND, [DL-0.5]	1	FL/SOP/ENV-18

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

Inference: The tested sample of Ambient Air for above mentioned location conforms to NAAQS 2009 Except for **PM₁₀** & **PM_{2.5}** values.

Reviewed By

Authorised Signatory

D. Mathur, Director

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*****End of Report*****

TRIBUNE

22 - Feb - 2008

PUBLIC NOTICE

Maruti Suzuki India Limited
 11th Floor, Jeevan Prakash Building,
 25 Kasturba Gandhi Marg, New Delhi - 110001.
 Ph: 011-23316831. Fax: 011-23318754

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 India Limited
 11th Floor, Jeevan Prakash Building,
 25 Kasturba Gandhi Marg, New Delhi - 110001.
 Ph: 011-23316831. Fax: 011-23318754

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