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

То

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-sate boundary, Expert Appraisal Committee (Thermal) in the Ministry has appraised the project as per General Conditions of EIA Notification, 2006.

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

## A. Specific Conditions:

- i) In case fuel for running the power plant is proposed to be changed from natural gas to other fuel (liquid or solid) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee (Thermal Power).
- ii) Mass Spectrometer based Helium detector to detect the gas leakage shall be installed.
- iii) Concentration for photochemical oxidants shall be monitored along with  $NO_x$  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.
- Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires especially during summer season.
   Measures taken with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- xii) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- xiii) NO<sub>x</sub> emission from each Gas Turbine shall not exceed 50 ppm.
- xiv) Stacks of 70 m shall be provided with continuous online monitoring equipments. Exit velocity of flue gases shall not be less than 22 m/sec.
- xv) Regular monitoring of ground level concentration of SO<sub>2</sub>, NOx, RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- xvi) An amount of Rs 0.12 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 0.024 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.
- xvii) CSR scheme shall be identified based on need based assessment in and around the villages within 5 km of the site and in constant

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

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

## **B.** General Conditions:

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

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

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

- xii) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- xiii) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.

4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.

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

6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

7. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

Yours faithfully,

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

Copy to:

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

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

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

Way of Life!

18-Nov-2021

## MSIL:CUIP:ESEC:ENV:21-22:053

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

- **Sub:** Half yearly report for Compliance of Expansion of 77.5 MW to 83.5 MW by addition of 6.0 MW Gas Based Captive Power Plant at Gurgaon Plant, Haryana by M/s Maruti Suzuki India Ltd.
- Ref: Environment Clearance Letter from MoEF J-13012/06/2009-IA-II(T) dated :03-June-2011

Dear Sir,

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

Thanking You.

Yours Faithfully

Dermo de MADAN BANSODE DGM (ENVIRONMENT) MARUTI SUZUKI INDIA LTD.

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

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

### MARUTI SUZUKI INDIA LIMITED

Head Office: Maruti Suzuki India Limited, 1, Nelson Mandela Road, Vasant Kunj, New Delhi - 110070, India. Tel: 011- 46781000, Fax: 011-46150275/46150276 E-mail id: contact@maruti.co.in, www.marutisuzuki.com Gurgaon Plant: Maruti Suzuki India Limited, Old Palam Gurgaon Road, Gurgaon - 122015, Haryana, India. Tel: 0124-2346721, Fax: 0124-2341304 Manesar Plant: Maruti Suzuki India Llmited, Plot no.1, Phase - 3A, IMT Manesar, Gurgaon - 122051, Haryana, India. Tel: 0124-4884000, Fax: 0124-4884199

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

S. No	Stipulated Condition in Environment Clearance	Compliance status
xv	Regular monitoring of ground level concentration of SO2, Nox, RSPM (PM10 & PM2.5) 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 are monitored quarterly and reports are placed at Annex 3.
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 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.	Complied. Detailed report placed at Annex 4.
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 that 80% shall be developed. The green belt developed shall not be less than 33% of the total area.	Green belt of MSIL is placed at Annex 5.

S. No	Stipulated Condition in Environment Clearance	Compliance status
	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 <u>http://envfor.nic.in</u> .	Advertised in two local newspapers. Copy of the notice attached herewith at Annex 6.
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
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	
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.	Six monthly compliance report is submitted in by June and December of every year.

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

## 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.

1.	Project Type	River Valley/Mining/Industry /Refinery/Transportation Tourism / Thermal / Nuclear/Construction Projects
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:	
	<ul> <li>a) District (s)</li> <li>b) State (s)</li> <li>c) Latitudes/Longitudes</li> </ul>	District: Gurgaon State: Haryana Latitude: 28 <sup>0</sup> 29'42.9"N Longitude: 77 <sup>0</sup> 04'28.9"E
5.	Address for correspondence: a) Address for Correspondence	Mr Madan Ankush Bansode Deputy General Manager – Environment Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <u>Madan.Bansode@maruti.co.in</u> Phone 0124 – 2346721 ~ 30 Extn : 3583
	b) Address of executive Project Incharge	Mr. Bineet Arora General Manager – EMU Maruti Suzuki India Limited Palam Gurgaon Road Gurgaon, Haryana Email: <u>Bineet.arora@maruti.co.in</u> Phone 0124 – 2346721 ~ 30
6.	<ul><li>Salient Features:</li><li>a) of the project</li><li>b) of the environmental management plans</li></ul>	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	Not Applicable
	b) Others	The project will be located within MSIL premises in the industrial area.
8.	Break up of the project affected population with enumeration of those losing house /dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/artisans. a) SC/ST/Adivasis b) Others	Not Applicable

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

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Name of plant & Section	: NGDG sect	ion			
Emission Source Monitored	: NGDG stac	k			
Type of Fuel Used	: Natural gas				
Stack Identification	: NGDG stac	k (6 MW)			
Normal Operating Schedule (Hrs/day)	: As & when	required			
Location of sampling Point	: As per norm	ns			
Type of Chimney (ACC/Metal) Stack Height (Meters)	: Mild steel				
a. From source of Emission					
b. From Roof Level	70				
c. From Ground Level	: 70	$\Omega$	$\neg$		
Diameter of stack (cm)	: 111.4				
Sampling Duration (minutes)	: 30				
Parameters Monitored	: PM, NOX, C				
Purpose of Monitoring	Assessmen	auto mobilo Mfg			
Products Manufactured	: Integrated a	auto mobile wig.			
Control measures (if any)	- INII				
Ceneral Sensory observations	• Nu				
Eugitivo Emissions (if any)	* Nil				
Stack Temperature (%C)	289				
Ambient Temperature (°C)	: 35				
Avrage Stack Velocity (m/second)					
Quantity of Emission (Nm <sup>3</sup> /Hr)	: 25331				
	Units	Results	Limits (Max.)	Protocols	
S.NO. Parameters		00.0 (=+ 450/ 0)		IS:11255 (P-1)	
1. Particulate Matter	mg/Nm3	28.6 (at 15% 0. Corr.)		10.11200 (1-1)	
2. Nitrogen Oxides ( as NOx )	ppm	49.1 (at 15% O	2 50	IS:11255 (P-7)	
3. Carbon Monoxide ( as CO )	ppm	35.4 (at 15% O	2 NA	IS:13270	
		17 1 (0+ 150/ 0	2 NA	IS:5182 (P-21)	1
4. Non Methane Hydrocarbons	ppm	17.1 (at 15% U		10.010= (1 = 1)	_

## SAMPLE COLLECTED BY US

Date of completion : 02/06/2021

admin

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

**Phone :** +(91)-(01334)-235552 **Phone :** +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

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Page: 1 of 2

MA LABS

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

histicate

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

Phone : +(91)-(11) 43854300

- Email : reports@simalab.com
- **CIN No** : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com

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

trial Materials

## **TEST REPORT**



29/05/2021 to 02/06/2021 Date of performance : NA- Not Applicable

SAMPLE COLLECTED BY US

--- End of Test Report ----

Date of completion : 02/06/2021

admin

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE VALID WITHOUT A HOLOGRAM

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Page: 2 of 2

A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064 : +(91)-(11) 43854300 Phone So Materials : reports@simalab.com Email Analytic Labs Pvt. Ltd. CIN No : U74899DL1988PTC031785 (GOVT. APPROVED TESTING LABORATORIES) : www.simalab.net | www.simalab.com Website TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS 7.8 F-01 TEST REPORT REPORT NO. : SE0529000121/O PARTY CODE : M/HR/12232 REF. NO. : NS MARUTI SUZUKI INDIA LIMITED **ISSUED TO** 

Old Palam, Gurgaon Road, Gurugram-122015, Haryana

### REF. DATE : NS : 29/05/2021 DT.RECD

### SAMPLE NAME : NOISE MONITORING

	RESULTS O Reference : EP Act Sta	F ANALYSIS andards & IS:9989-1981	
Desc	ription : NG D.G. (6 MW) Noise level from different monitored by us on 25/05/2021	t points of M/S MARUTI SI	JZUKI INDIA LIMITED was
S.No.	Location of Sampling Point	Avg. Instant Value dB(A)	Permissible Limit dB(A) (Max.)
1.	When NGDG kept Off :-	1 A 511914	-
(i)	Background Noise Level	68.5	SIMA
2.	When NGDG kept ON :-	-	-
(i)	Noise at 1.0 meter distance from acoustic room (Door open)	104.9	WA SI
(ii)	Noise at 1.0 meter distance from acoustic room (Door closed)	74.1	Less than 75
3.	Insertion Loss at 1.0 meter distance	30.8	

Date of performance : 29/05/2021 to 29/05/2021

Date of completion : 29/05/2021

--- End of Test Report ---

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Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 WITHOUT A HOLOGRAM THIS CERTIFICA

Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

SIMA

	Sophisticated Inc Analytic La (GOVT. APPROVED TES	LABS dustrial bs Pvt. STING LABOR	Materials Ltd. ATORIES)	A-3/7, Mayapuri II Phone : +(9 Email : rep CIN No : U7 Website : ww	idustrial Area, Ph- II, New Deini - 110 I1)-(11) 43854300 iorts@simalab.com 4899DL1988PTC031785 w.simalab.net   www.simalab.com	004
STRE.	AMS : FOOD & AGRI PRODUCTS • NUTRA	CEUTICALS .	DRUGS & COSMI	ETICS • AYUSH PRODU	JCTS • ENVIRONMENT • WATER • B	UILDING M
S	IMA SIMA		TEST	REPORT	SINCE	8 F-01
PAF	RTY CODE : M/HR/12232 UED TO MARUTI SUZUKI II	NDIA LIMIT	ED SI	REP	ORT NO. : SE0820004821/N . NO. : NS	
SAM		n Road, Gu	rrugram-12201	5, Haryana REF DT.I	DATE : NS RECD : 20/08/2021	
	The RAME - AMBIENT AIR	- 51	RESULTS	OF ANALYSIS	Same S	t title
1	CIMA SIMA		Reference : A	s Per EP Act-198	a Sinia y	
Dat	te of Sampling	: 16/08/2	021 To 17/08/2	2021	NA SINIA	
Dat Sar Sar Act Flow Tota	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	: 16/08/2 : 10:30 A : 10:30 A : 1440 m : 1.28 m <sup>3</sup> : 1843 m : 30	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes /minute <sup>3</sup> (For PM 10) &	2021 021) 021) & 24.012 m³ (For Pl		
Dat Sar Sar Act Flov Tota Am	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	: 16/08/2 : 10:30 A : 10:30 A : 1440 m : 1.28 m <sup>3</sup> : 1843 m : 30 Units	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes //minute <sup>3</sup> (For PM 10) 8	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl	VI 2.5)	Detecti Limit
Dat Sar Sar Act Flow Tota Ami S.No	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>μg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes Vminute 3 (For PM 10) 8 Results 177	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100	M 2.5)	Detecti Limit NA
Dati Sar Sar Act Flov Tota <b>S.Nc</b> 1.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes /minute <sup>3</sup> (For PM 10) 8 Results 177 77.9	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100 60	M 2.5) Protocols IS:5182 (P-23) Gravimetric	Detecti Limit NA NA
Dati Sar Sar Act Flov Tota Ami S.No 2. 3.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) <b>o.</b> Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1428 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 AM (Dt. 16/08/2 AM (Dt. 17/08/2 inutes Vminute <sup>3</sup> (For PM 10) 8 Results 177 77.9 34.2	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100 60 80	VI 2.5)  Protocols  IS:5182 (P-23)  Gravimetric  IS:5182 (P-6)	Detecti Limit NA NA NA
Data Sar Sar Act Flov Tota Ami S.No 1. 2. 3. 4.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) b. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 SO21 To 17/08/2 SOM (Dt. 16/08/2 SOM (Dt. 17/08/2 inutes 'Minute 'Minute 'A (For PM 10) & Results 177 77.9 34.2 20.9 	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100 60 80 80	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2)	Detecti Limit NA NA NA NA
Data           Data           Sar           Sar           Act           Flow           Tota           Amin           S.No           1.           2.           3.           4.           5.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) <b>D.</b> Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>mg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 2021 To 17/08/2 204 (Dt. 16/08/2 205 (Dt. 17/08/2) 207 (Dt. 17/08/2) 207 (Dt. 17/08/2) 20.9 20.9 1.207	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100 60 80 80 2.0	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy	Detecti Limit NA NA NA NA NA
Data           Data           Sarr           Sarr           Act           Flow           Tota           Amil           S.No           1.           2.           3.           4.           5.           6.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) b. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 177 77.9 34.2 20.9 1.207 BDL	2021 021) 021) & 24.012 m <sup>3</sup> (For Pl Limit (Max) 100 60 80 80 80 2.0 5.0	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11)	Detecti Limit NA NA NA NA NA O.05
2.000 Dati Sar Sar Act Flow Tota Ami S.No 2. 3. 4. 5. 6. 7.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) o. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 2021 To 17/08/2 204 (Dt. 16/08/2 205 (For PM 10) 8 205 (For PM 10) 8	2021 021) 021) <b>Limit (Max)</b> 100 60 80 2.0 5.0 400	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detecti Limit NA NA NA NA NA 0.05 0.05
Data           Data           Sar           Sar           Act           Flow           Tota           Amil           S.No           1.           2.           3.           4.           5.           6.           7.           8.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) Particulate Matter (as PM - 10) Particulate Matter (as PM - 10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3) Ozone (as O3) (8 hours)	<ul> <li>16/08/2</li> <li>10:30 A</li> <li>10:30 A</li> <li>1440 m</li> <li>1.28 m<sup>3</sup></li> <li>1843 m</li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	2021 To 17/08/2 M (Dt. 16/08/2 M (Dt. 17/08/2 inutes /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 177 77.9 34.2 20.9 1.207 BDL BDL BDL 26.9	2021 021) 021) <b>Limit (Max)</b> 100 60 80 2.0 5.0 400 100	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-2) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detecti Limit NA NA NA NA 0.05 0.05 NA

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Diwakar

**DGM** - Environment

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Page: 1 of 2

SIMA L ABS Sophisticated al Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)

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

Phone : +(91)-(11) 43854300

- : reports@simalab.com
- Email CIN No : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com



## **TEST REPORT**



PART	Y CODE : M/HR/12232			REPC	DRT NO. : SE0820004821/N	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1
13.	Non Methane Hydrocarbon	ppm	BDL	NA	IS:5182 (P-21)	NA

Date of performance : 20/08/2021 to 24/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

--- End of Test Report ---

0 **DGM** - Environment AUTHORISED SIGNATORY

Page: 2 of 2

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, LLE SUDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 & 107/20, Udhyog Nagar Indi Area, Mundka, Phone: +(91)-(01334)-235552 Phone: +(91)-93198-28884 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

	Sophisticated In Analytic La (GOVT. APPROVED TE	dustrial abs Pvt.	Materials Ltd.	Phone : + Email : r CIN No : U Website : w	(91)-(11) 43854300 eports@simalab.com J74899DL1988PTC031785 www.simalab.net   www.simalab.com	
STRE	AMS FOOD & AGRI PRODUCTS • NUTR	ACEUTICALS •	DRUGS & COSMET	FICS • AYUSH PRO	DUCTS • ENVIRONMENT • WATER • B	UILDING MA
	IMA SIMA	SIM	TEST F	REPORT	SIMA SIN	8 F-01
PAR	RTY CODE : M/HR/12232 UED TO MARUTI SUZUKI I	INDIA LIMIT	ed SI	RE	EPORT NO. : SE0820004721/N EF. NO. : NS	N .e
	Old Palam, Gurgad	on Road, Gu	irugram-122015,	Haryana RE	F. DATE : NS	
SAN	IPLE NAME : AMBIENT AIR			AM		
-	eiMA	्डा	RESULTS O	OF ANALYSI	s: antA S	thir a
			Reference : As	Per EP Act-19	86	
Loc Date San San	e of Sampling npling started at npling completed at ual time of sampling	: Near m : 17/08/2 : 12:10 F : 12:10 F	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes	2) 21 21) 21)	MA SIMA	A
Loc Date San San Actu Flow Tota Amb	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	<ul> <li>Near m</li> <li>17/08/2</li> <li>12:10 F</li> <l< th=""><th>achine shop 1 &amp; 2021 To 18/08/20 PM (Dt. 17/08/20) PM (Dt. 18/08/20) inutes n³/minute 3 (For PM 10) &amp;</th><th>2 )21 21) 21) 21) 23.996 m<sup>3</sup> (For</th><th>PM 2.5)</th><th>IA SIN</th></l<></ul>	achine shop 1 & 2021 To 18/08/20 PM (Dt. 17/08/20) PM (Dt. 18/08/20) inutes n³/minute 3 (For PM 10) &	2 )21 21) 21) 21) 23.996 m <sup>3</sup> (For	PM 2.5)	IA SIN
Loc Date San San Actu Flow Tota Amb	autor of the Sampling Point ie of Sampling npling started at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	<ul> <li>Near m</li> <li>17/08/2</li> <li>12:10 F</li>     &lt;</ul>	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes n <sup>3</sup> /minute 3 (For PM 10) & Results	2 21 21) 23.996 m <sup>3</sup> (For Limit (Max)	PM 2.5)	Detectio
Loc Dat San San Actu Flow Tota Amb	ie of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM -10)	: Near m : 17/08/2 : 12:10 F :	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes h <sup>3</sup> /minute <sup>3</sup> (For PM 10) & Results 203	2 21 21) 23.996 m <sup>3</sup> (For Limit (Max) 100	PM 2.5) Protocols IS:5182 (P-23)	Detectio Limit
Loc Dat San Actu Flov Tota Amb S.No	ie of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5)	<ul> <li>Near m</li> <li>17/08/2</li> <li>12:10 F</li> <li>12:10 F</li> <li>12:10 F</li> <li>1440 m</li> <li>1.265 m</li> <li>1822 m</li> <li>31</li> <li>Units</li> <li>µg/m³</li> <li>µg/m³</li> </ul>	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes 3°/minute 3° (For PM 10) & Results 203 106	2 21) 21) 21) 23.996 m <sup>3</sup> (For Limit (Max) 100 60	PM 2.5) Protocols IS:5182 (P-23) Gravimetric	Detectio Limit NA NA
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Loc Dat San Actu Flov Tota Amt S.No 1. 2. 3. 4. 5. 6. 7.	<ul> <li>autori of the Sampling Point</li> <li>ie of Sampling</li> <li>mpling started at</li> <li>mpling completed at</li> <li>ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM -2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> </ul>	<ul> <li>Near m</li> <li>17/08/2</li> <li>12:10 F</li> <li>12:10 F</li> <li>12:10 F</li> <li>1440 m</li> <li>1.265 m</li> <li>1822 m</li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes n <sup>3</sup> /minute <sup>3</sup> (For PM 10) & <b>Results</b> 203 106 38.6 22.7 1.347 BDL BDL BDL	<ul> <li>2</li> <li>21</li> <li>21)</li> <li>21)</li> <li>23.996 m<sup>3</sup> (For</li> <li>Limit (Max)</li> <li>100</li> <li>60</li> <li>80</li> <li>80</li> <li>2.0</li> <li>5.0</li> <li>400</li> </ul>	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detection Limit NA NA NA NA NA O.05 O.05
Loc Dat San San Actu Flov Tota Amt <b>S.No</b> 1. 2. 3. 4. 5. 6. 7. 8.	<ul> <li>autori of the Sampling Point</li> <li>ie of Sampling</li> <li>mpling started at</li> <li>mpling completed at</li> <li>ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM -2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> <li>Ozone (as O3) (8 hours)</li> </ul>	<ul> <li>Near m</li> <li>17/08/2</li> <li>12:10 F</li> <li>12:10 F</li> <li>12:10 F</li> <li>1440 m</li> <li>1.265 m</li> <li>1822 m</li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	achine shop 1 & 2021 To 18/08/20 2M (Dt. 17/08/20) 2M (Dt. 18/08/20) inutes <sup>a</sup> (For PM 10) & <b>Results</b> 203 106 38.6 22.7 1.347 BDL BDL 27.3	<ul> <li>2</li> <li>21</li> <li>21)</li> <li>23.996 m<sup>3</sup> (For</li> <li>Limit (Max)</li> <li>100</li> <li>60</li> <li>80</li> <li>80</li> <li>2.0</li> <li>5.0</li> <li>400</li> <li>100</li> </ul>	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-2) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detectio Limit NA NA NA NA 0.05 0.05

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Deihi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

**Phone**: +(91)-(01334)-235552 **Phone**: +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

Mr. Diwakar Jha

AUTHORISED SIGNATORY

SIMA

Page: 1 of 2

## SIMA LABS

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

Sophisticate

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

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- Email : reports@simalab.com
- CIN No : U74899DL1988PTC031785 Website : www.simalab.net | www.simalab.com

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

trial Materials



## TEST REPORT



PARI	Y CODE : MI/FIR/12232			REPORT NO. : SE0820004721/N				
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit		
10.	Arsenic (as As)	ng/m³	BDL.	6	Methods of Air sampling & Analysis-822	0.05		
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05		
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1		
13.	Non Methane Hydrocarbon	ppm	BDL	NA	IS:5182 (P-21)	NA		

Date of performance : 20/08/2021 to 24/08/2021 BDL : Below Detection Limit NA : Not Applicable

CARLES AND	SAMPLE COLLEC	CTED BY US	Duced
Date of completion : 24/08/2021	End of Tes	t Report	Mr. Diwakar Jha
Vikram Singh		SIMA SI	Page : 2 of
IDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDC	UL, Haridwar - 249403	Phone : +(91)-(01334)-235552	Email : simaharidwar@simalab.co.in

 

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 Phone : +(91)-93198-28884

 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Email : simaharidwar@simalab. Email : bmlab@simalab.com

SIMA

M	Sophisticated Inc Analytic La (GOVT. APPROVED TEST	LABS Justrial I bs Pvt. L TING LABORAT	<b>Vaterials</b> .td. <sup>TORIES)</sup>	A-3/7, Mayapuri Phone : + Email : re CIN No : U Website : w	(91)-(11) 43854300 eports@simalab.com J74899DL1988PTC031785 /ww.simalab.net   www.simalab.com	TC-4
TREA	MS : FOOD & AGRI PRODUCTS • NUTRA	CEUTICALS • D	RUGS & COSME	TICS • AYUSH PRO	DUCTS • ENVIRONMENT • WATER • BU	JILDING MA
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		211	RESULTS (	OF ANALYS		
De	scription	· One Ami	biont Air samn	le was collected	by us from 16/08/2021 to 17/08/2	021
Dat Sar Sar	te of Sampling npling started at npling completed at	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AN</li> <li>11:10 AN</li> <li>1440 mir</li> </ul>	vage pump ho 21 To 17/08/2 // (Dt. 16/08/20 // (Dt. 17/08/20 putes	use 021 021) 021)	MA SIMA S	
Dat Sar Sar Act Flor Tota	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AN</li> <li>11:10 AN</li> <li>1440 mir</li> <li>1.275 m<sup>3</sup></li> <li>1836 m<sup>3</sup></li> <li>30</li> </ul>	vage pump ho 21 To 17/08/2 // (Dt. 16/08/20 // (Dt. 17/08/20 hutes //minute (For PM 10) &	use 021 021) 021) 021) 24.014 m <sup>3</sup> (For	PM 2.5)	
Dat Sar Sar Act Flor Tot Am	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AN</li> <li>11:10 AN</li> <li>1440 mir</li> <li>1.275 m<sup>3</sup></li> <li>1836 m<sup>3</sup></li> <li>30</li> <li>Units</li> </ul>	vage pump ho 21 To 17/08/2 A (Dt. 16/08/20 A (Dt. 17/08/20 hutes //minute (For PM 10) & Results	use 021 021) 021) 24.014 m <sup>3</sup> (For Limit (Max)	PM 2.5)	Detecti Limit
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Dat           Dat           Sar           Sar           Act           Flov           Tot:           Arm           1.           2.           3.           4.           5.           6.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) b. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6)	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AM</li> <li>11:10 AM</li> <li>1440 mir</li> <li>1275 m<sup>3</sup></li> <li>1836 m<sup>3</sup></li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	vage pump ho 21 To 17/08/2 A (Dt. 16/08/20 A (Dt. 17/08/20 hutes //minute (For PM 10) & Results 164 70.0 31.9 20.3 1.349 BDL	use 021 021) 021) 24,014 m <sup>3</sup> (For Limit (Max) 100 60 80 80 80 2.0 5,0	PM 2.5           Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)           NDIR - Spectroscopy           IS:5182 (P-11)	Detecti Limit NA NA NA NA NA O.05
Lot           Dat           Sar           Sar           Act           Flor           Tot:           Arm           S.No           1.           2.           3.           4.           5.           6.           7.	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) <b>D.</b> Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3)	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AN</li> <li>11:10 AN</li> <li>1440 mir</li> <li>1.275 m<sup>3</sup></li> <li>1836 m<sup>3</sup></li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	vage pump ho 21 To 17/08/2 A (Dt. 16/08/20 A (Dt. 17/08/20 hutes //minute (For PM 10) & Results 164 70.0 31.9 20.3 1.349 BDL BDL BDL	use 021 021) 021) 24.014 m <sup>3</sup> (For Limit (Max) 100 60 80 2.0 5.0 400	PM 2.5) Protocols Protocols IS:5182 (P-23) Gravimetric Gravimetric IS:5182 (P-6) IS:5182 (P-2) IS:5182 (P-2) IS:5182 (P-2) IS:5182 (P-11) IS:	Detecti Limit NA NA NA NA NA 0.05 0.05
Loc           Dat           Sar           Sar           Act           Floo           Tot:           Arm           S.No           1.           2.           3.           4.           5.           6.           7.           8.           .	te of Sampling mpling started at mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) <b>D</b> . Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3) Ozone (as O3) (8 hours)	<ul> <li>Near sev</li> <li>16/08/20</li> <li>11:10 AN</li> <li>11:10 AN</li> <li>1440 mir</li> <li>1.275 m<sup>3</sup></li> <li>1836 m<sup>3</sup></li> <li>30</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	vage pump ho         21 To 17/08/2         A (Dt. 16/08/20         A (Dt. 17/08/20         B (For PM 10) &         A (Dt. 17/08/20         B (Dt. 10)	use 021 021) 021) 24,014 m <sup>3</sup> (For Limit (Max) 100 60 80 80 2.0 5.0 400 100	PM 2.5) Protocols Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-2) IS:5182 (P-2) IS:5182 (P-2) IS:5182 (P-2) IS:5182 (P-11)	Detecti Limit NA NA NA NA 0.05 0.05 0.05

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 219403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WE THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884

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Page: 1 of 2

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- Phone : +(91)-(11) 43854300
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- **CIN No** : U74899DL1988PTC031785
- Website www.simalab.net | www.simalab.com 1

41

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

**TEST REPORT** 



5361

S No	Parametere	Unite	Poculto	Limit (Max)	Destaud	
3.140	SMA	Units	Results		Protocols	Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1
13.	Non Methane Hydrocarbon	ppm	BDL	NA	IS:5182 (P-21)	NA

Date of performance : 20/08/2021 to 24/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE	COLLECTED	BYUS
	OOLLEOILD	0100

Date of completion : 24/08/2021

Vikram Singh

--- End of Test Report ---

8890 Jha **DGM** - Environment AUTHORISED SIGNATORY

Page: 2 of 2

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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<u>,</u>	Soph (	SIMA isticated Inc Analytic La	LABS dustrial bs Pvt. STING LABOR	Materials Ltd. ATORIES)	Phone Email CIN No Website	: +(91)-(11) 43 : reports@sim : U74899DL19 : www.simalab	9854300 alab.com 988PTC031785 9.net   www.simalab.com	004
STRE	AMS : FOOD & AGR	I PRODUCTS • NUTRA	CEUTICALS •	DRUGS & COSME	TICS • AYUSH	PRODUCTS • EN	VIRONMENT • WATER • B	UILDING M
	N R		SIM					8 F-01
		SIMA		TEST F	REPORT	ra si		
PAF	RTY CODE :	M/HR/12232				REPORT NO.	: SE0820004621/N	
ISS	UED TO	MARUTI SUZUKI II		ED		REF. NO.	: NS SI	100
2	SIMA ,	Old Palam, Gurgao	on Road, Gu	rugram-122015	, Haryana	REF. DATE DT.RECD	: NS : 20/08/2021	
SAN	IPLE NAME :	AMBIENT AIR		Ś	AM			
	eiliA	SIMA	Su	RESULTS ( Reference : As	OF ANAL	<b>YSIS</b> t-1986	SIMA S	U.VIC
Loc Dat	cation of the San te of Sampling poling started at	npling Point	: Near S <sup>-</sup> : 17/08/2	FP Plant 021 To 18/08/20 M (Dt 17/08/20	021			SIM
Loc Dat Sar Sar Act Flor Tota	cation of the San te of Sampling mpling started at mpling complete ual time of samplin w rate of samplin al volume of air bient temperatur	npling Point t d at bling ng sampled re (°C)	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1.29 m<sup>3</sup></li> <li>1858 m<sup>3</sup></li> <li>31</li> </ul>	TP Plant 021 To 18/08/20 M (Dt. 17/08/20 M (Dt. 18/08/20 inutes /minute <sup>3</sup> (For PM 10) &	021 )21) )21) 24.015 m³ ((	For PM 2.5)	SIMA LA SIM MA SIT	
Loc Dat Sar Sar Act Flov Tot Am	cation of the San te of Sampling mpling started at mpling complete ual time of samp w rate of samplin al volume of air bient temperatur b. Parameters	npling Point t d at bling ng sampled re (°C)	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1440 mi</li> <li>1858 m<sup>3</sup></li> <li>31</li> <li>Units</li> </ul>	TP Plant 021 To 18/08/20 M (Dt. 17/08/20 inutes /minute <sup>3</sup> (For PM 10) & Results	021 )21) )21) 24.015 m <sup>3</sup> ( Limit (Max)	For PM 2.5)	SIMA SIW NA SI	Detecti
Loc Dat Sar Act Flov Tot Am S.No	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperature b. Parameters Particulate Ma	npling Point t d at bling ng sampled re (°C) atter (as PM -10)	: Near S <sup>-</sup> : 17/08/2 : 11:40 A : 11:40 A : 1440 m : 1440 m : 149 m <sup>3</sup> : 1858 m <sup>3</sup> : 31 Units µg/m <sup>3</sup>	TP Plant 021 To 18/08/20 M (Dt. 17/08/20 inutes /minute <sup>3</sup> (For PM 10) & Results 187	021 )21) )21) 24.015 m <sup>3</sup> ( Limit (Max) 100	For PM 2.5)	otocols	Detecti Limit
Loc Dat Sar Sar Act Flov Tot Am S.No 1.	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperature p. Parameters Particulate Ma Particulate Ma	npling Point t d at oling ng sampled re (°C) atter (as PM -10) atter (as PM - 2.5)	: Near S <sup>-</sup> : 17/08/2 : 11:40 A : 11:40 A : 1440 m : 1440 m : 149 m <sup>3</sup> : 31 Units µg/m <sup>3</sup> µg/m <sup>3</sup>	TP Plant 021 To 18/08/20 M (Dt. 17/08/20 M (Dt. 18/08/20 inutes /minute <sup>3</sup> (For PM 10) & Results 187 83.7	021 021) 021) 021) 24.015 m <sup>3</sup> ( Limit (Max) 100 60	For PM 2.5)	otocols :5182 (P-23) avimetric	Detecti Limit NA NA
Loc Dat Sar Act Flor Tota Am S.No 1. 2: 3.	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperatur b. Parameters Particulate Ma Nitrogen Dioxi	npling Point t d at bling ng sampled re (°C) atter (as PM -10) atter (as PM - 2.5) ides (as NO2)	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1440 mi</li> <li>14858 m<sup>3</sup></li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	TP Plant 021 To 18/08/20 M (Dt. 17/08/20 M (Dt. 18/08/20 inutes /minute <sup>3</sup> (For PM 10) & Results 187 83.7 34.8	021 021) 021) 021) 021) 021) 021) 021) 0	For PM 2.5)	otocols :5182 (P-23) avimetric :5182 (P-6)	Detecti Limit NA NA
Loc Dat Sar Sar Act Flou Tot Am S.No 1. 2: 3. 4.	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperatur bient temperatur p. Parameters Particulate Ma Nitrogen Dioxid Sulphur Dioxid	npling Point t d at bling ng sampled re (°C) atter (as PM -10) atter (as PM - 2.5) ides (as NO2) de (as SO2).	: Near S <sup>-</sup> : 17/08/2 : 11:40 A : 11:40 A : 1440 m : 1.29 m <sup>3</sup> : 1858 m : 31 Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	IP Plant         021 To 18/08/20         M (Dt. 17/08/20         M (Dt. 18/08/20         M (Dt. 18/08/20         inutes         /minute         3 (For PM 10) &         Results         187         83.7         34.8         21.5	021 021) 021) 021) 24.015 m³ (1 Limit (Max) 100 60 80 80	For PM 2.5)	otocols :5182 (P-23) :5182 (P-6) :5182 (P-2)	Detecti Limit NA NA NA NA
Loc Dat Sar Act Flor Tota Am S.No 2: 3. 4. 5.	cation of the San te of Sampling mpling started at mpling complete ual time of samp w rate of samplin al volume of air bient temperatur bient temperatur particulate Ma Particulate Ma Nitrogen Dioxi Sulphur Dioxio hours)	npling Point t d at oling ng sampled re (°C) atter (as PM -10) atter (as PM - 2.5) ides (as NO2) de (as SO2). kide (as CO) (8	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1429 m<sup>3</sup></li> <li>1858 m<sup>3</sup></li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>mg/m<sup>3</sup></li> </ul>	IP Plant         021 To 18/08/20         M (Dt. 17/08/20         M (Dt. 18/08/20         inutes         /minute         3 (For PM 10) &         Results         187         83.7         34.8         21.5         1.286	021 021) 021) 021) 021) 021) 021) 021) 0	For PM 2.5)	otocols :5182 (P-23) :avimetric :5182 (P-6) :5182 (P-2) DIR - Spectroscopy	Detecti Limit NA NA NA NA NA
Loc Dat Sar Act Flo Tot Am <b>S.No</b> <b>1</b> . 2: 3. 4. 5.	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperatur bient temperatur p. Parameters Particulate Ma Particulate Ma Nitrogen Dioxi Sulphur Dioxio Carbon Monos hours) Benzene (as C	npling Point t d at oling ng sampled re (°C) atter (as PM - 10) atter (as PM - 2.5) ides (as NO2) de (as SO2). kide (as CO) (8	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1440 mi</li> <li>14858 mi</li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	IP Plant         021 To 18/08/20         M (Dt. 17/08/20         M (Dt. 18/08/20         inutes         /minute         3 (For PM 10) &         Results         187         83.7         34.8         21.5         1.286         BDL	021 021) 021) 021) 021) 021) 021) 021 021 021 021 021 021 021 021 021 021	For PM 2.5) Pr IS Gr IS IS IS IS IS IS IS IS IS	otocols :5182 (P-23) :avimetric :5182 (P-2) DIR - Spectroscopy 5182 (P-11)	Detecti Limit NA NA NA NA NA O.05
Loc Dat Sar Act Flov Tota Am S.No 2: 3. 4. 5.	cation of the San te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperatur bient temperatur b	npling Point t d at obling ng sampled re (°C) atter (as PM -10) atter (as PM -2.5) ides (as NO2) de (as SO2). kide (as CO) (8 C6H6) NH3)	: Near S <sup>-</sup> : 17/08/2 : 11:40 A : 11:40 A : 1440 m : 1440 m : 129 m <sup>3</sup> : 31 Units Units Up/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	IP Plant         021 To 18/08/20         M (Dt. 17/08/20         M (Dt. 18/08/20         M (Dt. 18/08/20         M (Dt. 18/08/20         inutes         /minute         3 (For PM 10) &         Results         34.8         21.5         1.286         BDL         BDL	021 021) 021) 021) 021) 021) 021) 021) 021 021 021 021 021 021 021 021	For PM 2.5) Pr IS	otocols :5182 (P-23) :avimetric :5182 (P-6) :5182 (P-6) :5182 (P-2) DIR - Spectroscopy :5182 (P-11) ethods of Air sampling Analysis-401	Detecti Limit NA NA NA NA NA 0.05 0.05
Loc Dat Sar Sar Act Flo Tot Am S.No 1. 2: 3. 4. 5. 6. 7.	cation of the Sam te of Sampling mpling started at mpling complete ual time of sampling w rate of sampling al volume of air bient temperatur b. Parameters Particulate Ma Nitrogen Dioxi Sulphur Dioxio Carbon Monos hours) Benzene (as O Ammonia (as D	npling Point t d at oling ng sampled re (°C) atter (as PM -10) atter (as PM -10) atter (as PM -2.5) ides (as NO2) de (as SO2). kide (as CO) (8 C6H6) NH3) ) (8 hours)	<ul> <li>Near S<sup>-</sup></li> <li>17/08/2</li> <li>11:40 A</li> <li>11:40 A</li> <li>1440 mi</li> <li>1429 m<sup>3</sup></li> <li>1858 m<sup>3</sup></li> <li>31</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	IP Plant         021 To 18/08/20         M (Dt. 17/08/20         M (Dt. 18/08/20         inutes         /minute         3 (For PM 10) &         187         83.7         34.8         21.5         1.286         BDL         BDL         26.9	021 021) 021) 021) 021) 021) 021) 021) 021 021 021 021 021 021 021 021	For PM 2.5)	otocols 5182 (P-23) avimetric 5182 (P-2) 5182 (P-2) DIR - Spectroscopy 5182 (P-11) ethods of Air sampling Analysis-401 ethods of Air sampling Analysis-411	Detecti       Limit       NA       NA       NA       NA       NA       0.05       0.05       NA

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Now Dahi 40044 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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DGM - Environment AUTHORISED SIGNATORY

Diwakar Jha

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Mr.

SIMA

- Page : 1 of 2

### SIMA LABS Sophisticate Materials Analytic Labs Pvt. Ltd.

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

## **TEST REPORT**



TC -5361

Y CODE : M/HR/12232			REPORT NO. : SE0820004621/N			
Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit	
Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05	
Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05	
Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1	
Non Methane Hydrocarbon	ppm	BDL	NA	IS:5182 (P-21)	0.05	
	Y CODE : M/HR/12232 Parameters Arsenic (as As) Nickel (as Ni) Benzo (a) Pyrene (Bap) Non Methane Hydrocarbon	Y CODE       : M/HR/12232         Parameters       Units         Arsenic (as As)       ng/m³         Nickel (as Ni)       ng/m³         Benzo (a) Pyrene (Bap)       ng/m³         Non Methane Hydrocarbon       ppm	Y CODE       : M/HR/12232         Parameters       Units       Results         Arsenic (as As)       ng/m³       BDL         Nickel (as Ni)       ng/m³       BDL         Benzo (a) Pyrene (Bap)       ng/m³       BDL         Non Methane Hydrocarbon       ppm       BDL	Y CODE       : M/HR/12232       REPC         Parameters       Units       Results       Limit (Max)         Arsenic (as As)       ng/m³       BDL       6         Nickel (as Ni)       ng/m³       BDL       20         Benzo (a) Pyrene (Bap)       ng/m³       BDL       1.0         Non Methane Hydrocarbon       ppm       BDL       NA	Y CODE       : M/HR/12232       REPORT NO. : SE0820004621/N         Parameters       Units       Results       Limit (Max)       Protocols         Arsenic (as As)       ng/m³       BDL       6       Methods of Air sampling & Analysis-822         Nickel (as Ni)       ng/m³       BDL       20       Methods of Air sampling & Analysis-822         Benzo (a) Pyrene (Bap)       ng/m³       BDL       1.0       USEPA 8270-C         Non Methane Hydrocarbon       ppm       BDL       NA       IS:5182 (P-21)	

Date of performance : 20/08/2021 to 24/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 24/08/2021

Vikram Singh

--- End of Test Report ---

GM EBVIRONMENT Page: 2 of 2

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HARIDWAR LABORATORY Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 Phone: +(91)-(01334)-235552 Phone : +(91)-93198-28884 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

M

AD

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Diwakar

SIMA

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

## 1. Introduction:

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

## 2. Community development initiatives:

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

**Water:** Potable water is provided through 16 water ATMs benefitting approx. 17.000 households of 5 villages in Gurugram area 10 villages in Manesar area. During Financial year 20-21, two new water ATMs were set up in Kasan, Manesar and Sirhol, Gurugram. The ATMs are run on a self-sustainable model in which the user fees paid by community members are used for maintenance of the facility. All the water ATM's were kept operational during the entire COVID lockdown period.

**Sanitation:** Individual household toilets constructed in Gurugram and Manesar villages are benefitting 665 households. Village cleanliness support is provided to 10 villages in Manesar area through deploying 40 sweepers and 13 waste collection vans. Maintenance of Solid waste management plant is benefitting 53,000 community members in 2 villages in Manesar area (Aliyar and Dhana).

**Common Community assets:** Maintenance of Community halls and five public parks of three villages in Manesar area are carried out. Six school parks are maintained at 4 villages across Gurugram and Manesar. Cremation grounds and play grounds have also been constructed in the project villages.

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

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

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

**COVID related activities:** Food and essential supply support was provided to village communities during COVID-19. More than 10000 Dry Ration were distributed at Gurugram

## 3. Skill Development Initiatives

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

MSIL has supported a model Industrial ITI called Japanese Institute of Manufacturing at Uncha Majra in Gurugram district. This institute is affiliated to National Council for Vocational Training (NCVT) and accredited by Ministry of Economy, Trade and Industry (METI), Japan. The institute offers eight courses, namely Mechanic Motor Vehicle, Welding, Technician, Auto-Body Painting, Auto Body Repair, Mechanic Diesel Engine, Fitter and Electrician. Apart from technical training, the JIM provides the students training on Japanese manufacturing practices and processes covering soft skills such as Kaizen, 5S, and 3G. Unique features of the JIM are mini vehicle assembly line, engine assembly line, safety lab, virtual welding simulators and spot-welding equipment that provide hands-on training to students to make them industry-ready. Currently 344 students benefitted through JIM Uncha Majra. Hostel facilities are being offered to students belonging to far-off areas, including separate hostels for female students.

## 4. Road Safety initiatives

**Traffic management** – Traffic marshals (115 nos.) have been deployed at key road junctions in Gurugram to regulate the vehicular traffic and improve road safety.

## 5. CSR spend

In 2020-21, the Company has spent approx. Rs. 27 Cr. to undertake CSR activities in Gurugram district.

# Green Area Plan



Annexure 7

TI	MES	OF	INDIA
			-

PUBLIC NOTICE MARUT SUZUKI Maruti Suzuki India Limited. Regd.Office:1, Nelson Mandela Road, Vasant Kunj, New Delhi-110070. Ministry of Environment and Forests has accorded environment clearance for the proposed expansion of thermal (captive) power plant at Maruti Suzuki India Limited, Gurgaon Plant. The copies of the clearance letters are available with the Haryana State Pollution Control board and the same can also be seen on the website of Ministry of Environment & Forest at http://envfor.nic.in. Date: 10<sup>th</sup> June, 2011. Maruti Suzuki India Limited AMAR UJALA 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 एव वन मंत्रालय की वेबसाइट http://envfor.nic.in पर भी देखा जा सकता है. मारुति सुजुकी इंडिया लिमिटेड दिनांकः 10 जून, 2011

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

No. SEIAA/HR/2012 237 A

Dated: 30-8-12

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,

5

To

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 though 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 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, 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 recirculated 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.
- 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.
- 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 1/3<sup>rd</sup> 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.
- 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 arred 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:

- 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.

- ad .
MARUTI M SUZUKI

Way of Life!

### MSIL:CUIP:ESEC:ENV:21-22:057

18-Nov-2021

То

W.

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

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

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

Dear Sir,

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

Thanking You.

Yours Faithfully

MADAN BANSODE DGM (ENVIRONMENT) MARUTI SUZUKI INDIA LTD.

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

CC: 1. Haryana State Pollution Control Board, Panchkula2. 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. Tol: 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, Fex: 0124-2341304

Manesar Plant: Maruti Suzuki India Limited, Plot no.1, Phase - 3A, IMT Manesar, Gurgaon - 122051, Haryana, India. Tel: 0124-4804000, 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 in 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.	NOx 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, which ever 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 with in the plant area, No effluents shall be discharged outside the plant boundary.	The treated effluents confirm 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 <sup>rd</sup> of the total area.	Details of Green Belt are placed at Annex: 4

	First aid and sanitation arrangements shall be made for	First aid and necessary sanitation arrangement has
12	the drivers and other contract workers during	been made available for the drivers and other contract
	construction phase.	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 <mark>Annexure - 6</mark> .
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	ct 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.	9 KL HSD was used in existing captive power plants in FY 2021-22 till Sep.
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, GoI.	Completed.

#### Northern Regional Office Ministry of Environment & Forests Chandigarh <u>DATA SHEET</u>

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)	Gurgaon
	b) State (s)	Haryana
	c) Latitudes/longitudes	Latitude : 28º 22' 08" N
		Longitude : 76º 52' 45" E
5.	Address for correspondence:	
	a) Address for Correspondence	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
	b) Address of executive Project In-charge	Mr. Bineet Arora
		General Manager – FMU
		Maruti Suzuki India Limited
		Palam Gurgaon Road
		Gurgaon, Harvana
		Email: Bineet.Arora@maruti.co.in
		Phone 0124 – 2346721 ~ 30
6.	Salient features:	
	a) Of the project	Salient features of the project and
	b) Of the environmental management plans	Environment Management plan details is
		enclosed in Annexure -A
7.	Break up of the project area:	
	a) Submergence area: Forest & Non- forest.	Not Applicable
	b) Others	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.	Not Applicable
	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)	

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

### SALIENT FEATURES OF PROJECT:

1.	Name of the Project	:	Gas turbine at Maruti Suzuki India Limited,
			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 SO<sub>2</sub> emissions will further go down

#### Noise Pollution Control

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

#### Ground Water

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

#### Green belt development

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

Fax

सेंटल कॉम्स्लेक्स,

ट्रॉम्बे, मुंबई - 400 085. Central Complex,

Trombay, Mumbai - 400 085.

दूरभाष/Tel.: 022 - 2550 5354 फेक्स/Fax: 022 - 2550 5161 022 - 2550 5353 ई-मेल/e-mail: ndshama@bera.gov.in

ন. ব. স্থাদা নিয়নক N. D. Sharma Controller



भारत सरकार GOVERNMENT OF INDIA भाभा परमाणु अनुसंधान केंद्र BHABHA ATOMIC RESEARCH CENTRE

Ref: 14/8/91/Admn-1 / 32 81

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 104/18 (N. D. Sharma) Controller

Sophisticated I Analytic L (GOVT. APPROVED		Materials L. Ltd. DRATORIES)	Phone : +( Email : re CIN No : U Website : w	91)-(11) 43854300 ports@simalab.com 74899DL1988PTC031 ww.simalab.net   www.	785 simalab.com TC-5
TREAMS : FOOD & AGRI PRODUCTS • NUT	RACEUTICALS	DRUGS & COSME	TICS • AYUSH PROD	OUCTS • ENVIRONMENT	• WATER • BUILDING
PARTY CODE ISSUED TO : M/HR/12131 MARUTI SUZUKI (Manesar Plant) Pl Gurugram, Haryan	INDIA LIMITE ot No.1, Phas a	TEST RE ED se-3A, IMT Manesa	PORT REPOR REF. NC ar, REF. DA DT.REC	T NO. : SE0813006; D. : NS NTE : NS DD : 13/08/2021	7.8 F-01
SAMPLE NAME : STACK EMISSION	- eil				
A SIMA		RESULTS OF	ANALYSIS	N SIMP	a contrar
Description	: One sta	ack emission sampl	e was collected by	V US OD 11/08/2021 b	etween 11:40 AM to
	12:10 P	M	o muo condoted by	, as on 11/00/2021 D	
Name of plant & Section Emission Source Monitored Type of Fuel Used Stack Identification Normal Operating Schedule (Hrs/day Location of sampling Point Type of Chimney (ACC/Metal) Stack Height (Meters) a. From source of Emission b. From Roof Level c. From Ground Level Diameter of stack (cm) Sampling Duration (minutes) Parameters Monitored Purpose of Monitoring Products Manufactured Control measures (if any) Recovery of Material (if any) General Sensory observations Fugitive Emissions (if any) Stack Temperature (°C) Ambient Temperature (°C) Quantity of Emission (Nm³/Hr)	Gas turb Gas turb Gas turb Natural g Gas turb Double s As per n Mild stee Gas turb Mild stee C C C C C C C C C C C C C C C C C C	A SOZOK INDIA LIM ine section ine stack gas ine stack no. 9 (20 M shift orms al	w) SIMA SIMA SIMA C		A SIMA SIMA A SIMA MA SI SIMA
S.No. Parameters	Units	Results	Limits (Max.)	Protocols	Detection Limit
1. Particulate Matter	mg/Nm3	37.1	NA	IS:11255 (P-1)	NA
2. Nitrogen Oxides ( as NOx )	mga	59.5	100	IS:11255 (P-7)	NA
3. Sulphur Dioxide ( as SO2 )	opm	BDL	NA	IS:11255 (P-2)	1.0
	pp	0.01		10.40070	1.0
4. Carbon Monoxide ( as CO )	ppm	34.1	INA	15:13270	INA
4. Carbon Monoxide ( as CO )	ppm	34.1		IS:13270	

Date of performance : 13/08/2021 to 17/08/2021

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

--- End of Test Report ---

Iha wa kar

DGM - Environment AUTHORISED SIGNATORY

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WIT THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 1 of 1

AL VIII	Sophisticated In Analytic L (GOVT. APPROVED T	dustri abs Pv	S al Materials rt. Ltd. soratories)	Phone : Email : CIN No : Website :	+(91)-(11) 43854300 reports@simalab.com U74899DL1988PTC031785 www.simalab.net   www.simalab.com	m TC-536
TREAM	S : FOOD & AGRI PRODUCTS • NUTF	RACEUTICAL	S • DRUGS & COSM	ETICS • AYUSH PR	RODUCTS • ENVIRONMENT • WATER •	BUILDING MAT
	Sum		IA SI	MA S		7.8 F-01 民業
			TEST	FPORT		<u>51/1</u>
			IESTI			
ARTY	CODE : M/HR/12131		S	MA R R	EPORT NO. : SE0805003021/N EF. NO. : NS	v ()
550EI	(Manesar Plant) P Gurugram, Haryar	lot No.1, P na	hase-3A, IMT Ma	nnesar, R E	REF. DATE : NS DT.RECD : 05/08/2021	CE UMA
		ER (ETP-C	UTLET)	AIM A	Sillin	
SAMPI	LE NAME : EFFLOLINI W.		RESULTS	OF ANALYS		
			Reference	EP Act Standa	ard	-
SAM	PLING DATE : 04/08/20	21		SA	MPLE QTY. : 1 LTR.	Detectio
SAM	Parameters	Units	Results	Limit (Max.)	Protocois	Limit
S.No.	Parameters	Units	Results	Limit (Max.)	Protocois	Limit
S.No.	Parameters	Units	Results	5.5 to 9.0	IS:3025 (P-11)	Limit
S.No.	Parameters pH	Units	Results           7.38	5.5 to 9.0	IS:3025 (P-11) IS:3025 (P-17)	NA NA
S.No.	Parameters pH Total Suspended Solids	Units NA mg/L	Results           7.38           <5	5.5 to 9.0 100 250	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58)	NA NA NA
S.No. 1. 2. 3.	Parameters pH Total Suspended Solids Chemical Oxygen Demand	Units NA mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44)	NA NA NA NA NA
S.No. 1. 2. 3. 4.	Parameters pH Total Suspended Solids Chemical Oxygen Demand Biochemical Oxygen Demand (for 3 days at 27 Deg C)	NA mg/L mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44)	NA NA NA NA NA
S.No. 1. 2. 3. 4. 5	Parameters pH Total Suspended Solids Chemical Oxygen Demand Biochemical Oxygen Demand (for 3 days at 27 Deg C) Oil & Grease	Units NA mg/L mg/L mg/L mg/L	Results       7.38       <5	5.5 to 9.0 100 250 30 10	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44) IS:3025 (P-39)	NA NA NA NA NA NA 1.0
S.No. 1. 2. 3. 4. 5. 6	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)	Units NA mg/L mg/L mg/L mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)	NA           NA           NA           NA           NA           NA           NA           NA           NA           0.01
S.No. 1. 2. 3. 4. 5. 6. 7.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)	Units NA mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as C6H5OH)         Cyanide (as CN)	NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.005
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.01 0.10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)         IS:3025 (P-2)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.005
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.01 0.20	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-43)         IS:3025 (P-43)         IS:3025 (P-2)	Deteom           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.10 0.1	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-43)         IS:3025 (P-2)	Deteom           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           NA
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)Arsenic (as As)Colour	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results   7.38   <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 NA NA	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-44)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-5)	Detection           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA
S.No. S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)         Colour         Odour	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.10 0.20 NA NA 10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)         IS:3025 (P-3)         IS:3025 (P-3)	Detect           Limit           NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA           NA
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 14. 15.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)Arsenic (as As)ColourOdourNitrate Nitrogen (as NO3-N)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.01 0.10 0.20 NA NA 10 50	Protocols         IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-29)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-34)         IS:3025 (P-34)	Dector           Limit           NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA           NA
S.No. S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 15. 16.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)         Colour         Odour         Nitrate Nitrogen (as NO3-N)         Ammonical Nitrogen (as NH3-N	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.20 0.01 0.10 0.20 NA NA 10 50 5.0	Protocois         IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-3)         IS:3025 (P-34)         IS:3025 (P-34)         IS:3025 (P-34)         IS:3025 (P-34)	Dector           Limit           NA           0.01           0.02           0.02           0.02           0.05           NA           NA

SAMPLE COLLECTED BY US

Mr. Diwakar Jha RUMOR SEVISIONANDRY

Date of completion : 11/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WIT THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

SIMA

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Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

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- CIN No : U74899DL1988PTC031785

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

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

ustrial Materials



# TEST REPORT



536

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols	Detection Limit
18.	Mangnese (as Mn)	mg/L	0.09	NA	IS:3025 (P-2)	NA
19.	Fluorides (as F)	mg/L	BDL	2.0	APHA-4500 F-D	0.05
20.	Temperature	°C	25.6	NA	IS:3025 (P-9)	NA
21.	Total Kjeldahl Nitrogen	mg/L	3.4	100	IS:3025 (P-34)	NA
22.	Nickle (as Ni)	mg/L	0.26	3.0	IS:3025(P-2)	NA
23.	Zinc (as Zn)	mg/L	BDL	5.0	IS:3025(P-2)	0.02
24.	Cadmium (as Cd)	mg/L	BDL	2.0	IS:3025(P-2)	0.01
25.	Copper (as Cu)	mg/L	BDL	3.0	IS:3025(P-2)	0.05
26.	Total Chromium (as Cr)	mg/L	BDL	2.0	IS:3025(P-2)	0.005
27.	Total Residual Chlorine (as Cl2)	mg/L	BDL	1.0	IS:3025(P-26)	0.1
28.	Faecal Coliform	MPN/100 ml	34	NA	APHA, 23rd Edition, 9221F: 2017	NA
29.	Iron (as Fe)	mg/L	BDL	3.0	IS:3025 (P-2)	0.05
30.	Selenium (as Se)	mg/L	BDL	0.05	IS:3025 (P-2)	0.005

Date of performance : 05/08/2021 to 11/08/2021

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SIMU	A SHILL SIM	Mr. Diwakar Jh
Date of completion : 11/08/2021	End of Test Report	AUTHORISED SIGNATOR
Vikram Singh		Page

 HARIDWAR LABORATORY :
 Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403
 Phone : +(91)-(01334)-235552

 BUILDING MATERIAL LAB :
 Plot No. 107/11/2 & 107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041
 Phone : +(91)-93198-28884

 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

01334)-235552 Email : simal 03198-28884 Email : bmla

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

	Sophisticate Analyti (GOVT. APPRO	MA LABS d Industria c Labs Pvt ved testing labo	Al Materials L. Ltd. DRATORIES)	A-3/7, Mayapuri Phone : 4 Email : n CIN No : U Website : v	i Industrial Area, Ph- II, New Delhi - 1 -(91)-(11) 43854300 eports@simalab.com J74899DL1988PTC031785 www.simalab.net   www.simalab.cor	n
TREAM	S : FOOD & AGRI PRODUCTS •	NUTRACEUTICALS	• DRUGS & COSM	IETICS • AYUSH PRO	DUCTS • ENVIRONMENT • WATER •	BUILDING MATE
						7.8 F-01
			TEST	REPORT		影響
			SIMA			
DAD	TX CODE • M/HR/1213	1		MA S	REPORT NO. : SE0805003021	10
ISSU	IED TO MARUTI SU	JZUKI INDIA LIN	MITED	F	REF. NO. : NS	the add on
	(Manasar P	Plant) Plot No 1	Phase-34 IMT	Manesar F	REF. DATE : NS	
	Gurugram,	Haryana	F 11256-57, 110111	[	DT.RECD : 05/08/2021	
SAM						
	LE NAME : EFFLUENT		RESULT	S OF ANALYS		STUD
1			Reference	e : EP Act Standa	ard	
SAM	IPLING DATE : 04/	/08/2021	SIMA	SA	MPLE QTY. : 1 LTR.	SIM
SAN S.No	MPLING DATE : 04/	/08/2021	Results	SA Limit (Max.)	MPLE QTY. : 1 LTR.	Detection
SAN S.No	MPLING DATE : 04/	/08/2021 Units mg/L	Results	SA Limit (Max.) 5.0	MPLE QTY. : 1 LTR.	Detection Limit
SAN S.No 1. 2.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V)	/08/2021 Units mg/L mg/L	Results BDL BDL	SA Limit (Max.) 5.0 0.2	MPLE QTY. : 1 LTR.	Detection Limit
SAN S.No 1. 2. 3.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size	/08/2021 Units mg/L mg/L	Results           BDL           BDL           DV (10) 25.071	SA Limit (Max.) 5.0 0.2 NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer	Detection Limit 0.5 0.002 NA
SAN S.No 1. 2. 3. 4.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size	/08/2021 Units 	Results BDL BDL DV (10) 25.071 DV (50) 74.916	SA Limit (Max.) 5.0 0.2 NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer	Detection Limit 0.5 0.002 NA NA
SAN S.No 1. 2. 3. 4. 5.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size Particle Size	/08/2021 Units mg/L mg/L μm μm	Results           BDL           BDL           DV (10) 25.071           DV (50) 74.916           DV (90)           199.208	SA Limit (Max.) 5.0 0.2 NA NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer By Particle Analyzer	Detecti Limit 0.5 0.002 NA NA NA
SAM S.NC 1. 2. 3. 4. 5.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size Particle Size	/08/2021 Units mg/L μm μm μm	Results         BDL         BDL         DV (10) 25.071         DV (50) 74.916         DV (90)         199.208	SA Limit (Max.) 5.0 0.2 NA NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer By Particle Analyzer	Detecti Limit 0.5 0.002 NA NA NA

Date of performance :	05/08/2021 to 11/08/2021
NA-Not Applicable, BDL-	Below Detection Limit

	SAMPLE COLLECTED BY US	Allele )
CINER SINU	A SIM	Mr. Diwakar Jha
Date of completion : 11/08/2021	End of Toot Poport	AUTHORISEEDIGNATION
Vikram Singh	End of Test Report	Page : 1 of

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WIT Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Annexure 4



Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

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

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- Email : reports@simalab.com
- CIN No : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com



			TEST	REPORT	SIMA SIN	8 F-01
PA	RTY CODE : M/HR/12131 SUED TO MARUTI SUZUKI I	NDIA LIMIT	ED	REI	PORT NO. : SE0421007021/N F. NO. : NS	
SAI	(Manesar Plant) Pl Gurugram, Haryan MPI E NAME · AMPIENT AIP	ot No.1, Pha a	ase-3A, IMT M	anesar, REI DT	E DATE : NS RECD : 21/04/2021	
		Sf	RESULTS Reference : A	OF ANALYSIS As Per EP Act-198	<b>6</b>	(With
Da Sa Sa Act Flo Tot	ate of Sampling mpling started at mpling completed at tual time of sampling w rate of sampling tal volume of air sampled mbient temperature (°C)	<ul> <li>Near ga</li> <li>12/04/2</li> <li>11:10 A</li> <li>11:10 A</li> <li>1440 m</li> <li>1.26 m<sup>3</sup></li> <li>1814 m</li> <li>37</li> </ul>	ate no2 2021 To 13/04/ M (Dt. 12/04/2 M (Dt. 13/04/2 inutes //minute <sup>3</sup> (For PM 10)	2021 2021) 2021) & 24.048 m³ (For F	PM 2.5)	
		Lot a		2 1111		
S.N	o. Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
S.N 1.	Parameters Particulate Matter (as PM -10)	Units µg/m³	Results 215	Limit (Max)	Protocols IS:5182 (P-23)	Detection Limit
S.N( 1. 2.	Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5)	Units µg/m <sup>3</sup> µg/m <sup>3</sup>	215 112	Limit (Max) 100 60	Protocols IS:5182 (P-23) Gravimetric	Detection Limit NA NA
S.N( 1. 2. 3.	o.       Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)         Nitrogen Dioxides (as NO2)	Units µg/m³ µg/m³ µg/m³	Results           215           112           35.9	Limit (Max) 100 60 80	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)	Detectior Limit NA NA NA
S.No 1. 2. 3.	o.       Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)         Nitrogen Dioxides (as NO2)         Sulphur Dioxide (as SO2)	Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	Results           215           112           35.9           25.0	Limit (Max) 100 60 80 80	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)	Detection Limit NA NA NA NA
S.No 1. 2. 3. 4. 5.	ParametersParticulate Matter (as PM -10)Particulate Matter (as PM - 2.5)Nitrogen Dioxides (as NO2)Sulphur Dioxide (as SO2)Carbon Monoxide (as CO) (8 hours)	Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> mg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389	Limit (Max) 100 60 80 80 2.0	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)           NDIR - Spectroscopy	Detection Limit NA NA NA NA NA
<b>S.N</b> ( 1. 2. 3. 4. 5.	<ul> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> mg/m <sup>3</sup> µg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389           BDL	Limit (Max) 100 60 80 80 2.0 5.0	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)           NDIR - Spectroscopy           IS:5182 (P-11)	Detection Limit NA NA NA NA NA NA O.05
1. 2. 3. 4. 5. 6.	o.       Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)         Nitrogen Dioxides (as NO2)         Sulphur Dioxide (as SO2)         Carbon Monoxide (as SO2)         Carbon Monoxide (as CO) (8         hours)         Benzene (as C6H6)         Ammonia (as NH3)	Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> mg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389           BDL           BDL	Limit (Max) 100 60 80 80 2.0 5.0 400	Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detection LimitNANANANANA0.050.05
<ol> <li>S.Ne</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>3.</li> </ol>	<ul> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> <li>Ozone (as O3) (8 hours)</li> </ul>	Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> mg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	Results         215         112         35.9         25.0         1.389         BDL         BDL         24.1	Limit (Max) 100 60 80 80 2.0 5.0 400 100	Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detection Limit NA NA NA NA 0.05 0.05 0.05

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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AL

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SIMA

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(GOVT. APPROVED TESTING LABORATORIES)

Units

ng/m³

ng/m<sup>3</sup>

ng/m³

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41

Methods of Air sampling

Methods of Air sampling

& Analysis-822

& Analysis-822

**USEPA 8270-C** 

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

BDL

BDL

BDL

# **TEST REPORT**

6

20

1.0



0.05

0.05

0.1

PARTY CODE : M/HR/12131

Parameters

Arsenic (as As)

Nickel (as Ni)

Benzo (a) Pyrene (Bap)

S.No.

10.

11.

12.

REPORT NO. : SE0421007021/N Results Limit (Max) Protocols Detection Limit

Date of performance :	21/04/2021	to 26/04/2021
<b>BDL : Below Detection Lim</b>	it	
NA : Not Applicable		

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

ATORY AU Page: 2 of 2

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SI/DCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS GERTIFICATE IS NOT VALID WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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REF. NO.

- CIN No : U74899DL1988PTC031785
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### **TEST REPORT**

PARTY CODE **ISSUED TO** 

: M/HR/12131 MARUTI SUZUKI INDIA LIMITED

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

REF. DATE	:	NS
DT.RECD		21/04/2021

: NS



SAMPLE NAME : AMBIENT AIR

			RESULTS	OF ANALYSIS As Per EP Act-1986	SIMA S	100m
Des	cription	: One A	mbient Air sam	ple was collected by	us from 12/04/2021 to 13/04/2	2021
Nan Loca Date Sam Sam Actu Flow Tota Amb	ne of Industry ation of the Sampling Point e of Sampling upling started at upling completed at al time of sampling rate of sampling I volume of air sampled ient temperature (°C)	: MARUT : Near ir : 12/04/2 : 11:30 / : 11:30 / : 11:30 m : 1.30 m : 1872 m : 37	T SUZUKI INDIA Icinerator area 2021 To 13/04/ AM (Dt. 12/04/2 M (Dt. 13/04/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10)	& LIMITED 2021 2021) 2021) 2021) & 23.904 m <sup>3</sup> (For PM	2.5)	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m³	210	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m³	105	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO2)	µg/m³	34.5	80	IS:5182 (P-6)	NA
1.	Sulphur Dioxide (as SO2)	µg/m³	24.2	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m³	1.359	2.0	NDIR - Spectroscopy	NA
i.	Benzene (as C6H6)	µg/m³	BDL	5.0	IS:5182 (P-11)	0.05
•	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05
•	Ozone (as O3) (8 hours)	µg/m³	23.9	100	Methods of Air sampling & Analysis-411	NA
	Lead (as Pb)	µg/m³	BDL	1.0	Methods of Air sampling & Analysis-822	0.05

#### SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

AUT SIGNATORY Page: 1 of 2

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- Phone : +(91)-(11) 43854300
- Email : reports@simalab.com
- CIN No : U74899DL1988PTC031785

2

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



## **TEST REPORT**



TC-5361

				REPO	DRT NO. : SE0421007121/N	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ńi)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 21/04/2021 to 26/04/2021 BDL : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

ORISED AU SIGNATORY Page: 2 of 2

 HARIDWAR LABORATORY :
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 :
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A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064 SIMA LABS Phone : +(91)-(11) 43854300 Sophisticated Industrial Materials Emall : reports@simalab.com Analytic Labs Pyt. Ltd. CIN No : U74899DL1988PTC031785 (GOVT. APPROVED TESTING LABORATORIES) Website : www.simalab.net | www.simalab.com TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS





SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

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

# **TEST REPORT**



7.8 F-01 H. 886

PARTY CODE : M/HR/12131

PARI	Y CODE : M/HR/12131			REPO	DRT NO. : SE0421006921/N	
S.No	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 21/04/2021 to 26/04/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

IORIS AUT GNATORY Page: 2 of 2

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone: +(91)-(01334)-235552 Phone: +(91)-93198-28884 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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A-3/7, Mayapuri Industrial Area, Ph-II, New Delhi - 110064 SIMA LABS : +(91)-(11) 43854300 Phone Sophisticated Industrial Materials Emall : reports@simalab.com Analytic Labs Pvt. Ltd. CIN No : U74899DL1988PTC031785 (GOVT. APPROVED TESTING LABORATORIES) Website : www.simalab.net | www.simalab.com TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS



36

### **TEST REPORT**

PARTY CODE **ISSUED TO** 

: M/HR/12131 MARUTI SUZUKI INDIA LIMITED

Gurugram, Harvana

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

REPORT NO. : SE0421006821/N REF. NO. : -NS

**REF. DATE** : NS DT.RECD : 21/04/2021



SAMPLE NAME : AMBIENT AIR

	- und SIMA	- 50	RESULTS Reference : /	OF ANALYSIS As Per EP Act-1986		1000 c	
Des	cription	: One Ar	nbient Air sam	ple was collected by u	s from 13/04/2021 to 14/04/2	2021	
Nam	ne of Industry	: MARUT	I SUZUKI INDIA	LIMITED			
LOCa	ation of the Sampling Point	: SND gate					
Date	e of Sampling	: 13/04/2	021 To 14/04/	2021			
Sam	ipling started at	: 10:30 A	M (Dt. 13/04/2	2021)			
Sam	pling completed at	: 10:30 A	M (Dt. 14/04/2				
Actu	al time of sampling	: 1440 m	inutes				
Flow	rate of sampling	: 1.30 m <sup>3</sup>	/minute	AN			
Tota	I volume of air sampled	: 1872 m	<sup>3</sup> (For PM 10)	& 23.761 m <sup>3</sup> (For PM 2	5)		
Amb	ient temperature (°C)	: 36		9 WW 7			
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit	
×	Particulate Matter (as PM -10)	µg/m³	219	100	IS:5182 (P-23)	NA	
	Particulate Matter (as PM - 2.5)	µg/m³	102	60	Gravimetric	NA	
•	Nitrogen Dioxides (as NO2)	µg/m³	32.5	80	IS:5182 (P-6)	NA	
	Sulphur Dioxide (as SO2)	µg/m³	23.5	80	IS:5182 (P-2)	NA	
•	Carbon Monoxide (as CO) (8 hours)	mg/m³	1.315	2.0	NDIR - Spectroscopy	NA	
	Benzene (as C6H6)	µg/m³	BDL	5.0	IS:5182 (P-11)	0.05	
•	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05	
	Ozone (as O3) (8 hours)	µg/m³	24.2	100	Methods of Air sampling & Analysis-411	NA	
	Lead (as Ph)	ua/m <sup>3</sup>	BDI	10	Methods of Air complian	0.05	

#### SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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



### TEST REPORT



#### PARTY CODE : M/HR/12131 REPORT NO. : SE0421006821/N S.No. Parameters Units Results Limit (Max) Protocols Detection Limit 10. Arsenic (as As) ng/m<sup>3</sup> BDL 6 Methods of Air sampling 0.05 & Analysis-822 11. Nickel (as Ni) ng/m<sup>3</sup> BDL 20 Methods of Air sampling 0.05 & Analysis-822 12. Benzo (a) Pyrene (Bap) ng/m<sup>3</sup> BDL 1.0 **USEPA 8270-C** 0.1

Date of performance : 21/04/2021 to 26/04/2021 BDL : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

SIGNATORY Page: 2 of 2

 
 HARIDWAR LABORATORY
 Plot No. 37, Sector - 7, LLE SILDCUL, Haridwar - 249403
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- Website : www.simalab.net | www.simalab.com

		SIM	TEST I	REPORT	SIMA SI	8 F-01
PAF	RTY CODE : M/HR/12131			REI	PORT NO. : SE0813005421/N	
ISS	UED TO MARUTI SUZUKI II		ED	REI	F. NO. : NS	4
	(Manesar Plant) Plo	ot No.1, Pha	ase-3A, IMT Ma	nesar, REI	F. DATE : NS	
	Gurugram, Haryana			DT.	RECD : 13/08/2021	EQ.
SAN	PLE NAME : AMBIENT AIR					
			RESULTS	OF ANALYSIS		ti della
			Reference : A	s Per EP Act-198	6 ) SIN .	
De	scription	: One Ar	nbient Air samp	le was collected b	by us from 05/08/2021 to 06/08/2	2021
Sar Act Flor	mpling completed at ual time of sampling w rate of sampling	: 12:50 F : 1440 m : 1.32 m <sup>2</sup>	PM (Dt. 06/08/20 inutes Vminute	021)	π sw	
Sar Act Flor Tota Am	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	: 12:50 F : 1440 m : 1.32 m <sup>3</sup> : 1901 m : 36	PM (Dt. 06/08/20 inutes Pminute 3 (For PM 10) & Results	23.904 m³ (For F	PM 2.5)	Detectio
Sar Act Floy Tota Am S.No	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	: 12:50 F : 1440 m : 1.32 m <sup>2</sup> : 1901 m : 36 Units	M (Dt. 06/08/20 inutes Vminute <sup>3</sup> (For PM 10) & Results	221) 221) 23.904 m³ (For F Limit (Max)	PM 2.5)	Detectio
Sar Act Flor Tota Am S.No 1.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM - 10) Particulate Matter (as PM - 2.5)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %minute 3 (For PM 10) & Results 126 71 1	221) 221) 23.904 m <sup>3</sup> (For F Limit (Max)	PM 2.5) Protocols IS:5182 (P-23) Gravimetric	Detecti- Limit NA
Sar Act Flov Tot: Am S.No 1. 2.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes 9/minute 3 (For PM 10) & Results 126 71.1 32.1	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6)	Detection Limit NA NA
Sar Act Flor Tot: Am S.No 2. 3. 4.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %/minute 3 (For PM 10) & Results 126 71.1 32.1 22.4	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2)	Detection Limit NA NA NA NA
Sar Act Flov Tot: Am S.No 3. 4. 5.	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p. Parameters</li> <li>particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %minute 3 (For PM 10) & Results 126 71.1 32.1 22.4 1.205	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy	Detecti- Limit NA NA NA NA NA
Sar Act Flo Tot Am S.No 1. 2. 3. 4. 5.	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p.</li> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>Units</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes M (Dt. 06/08/20 M (Dt. 0	23.904 m <sup>3</sup> (For F 23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0 5.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11)	Detectio Limit NA NA NA NA NA NA O.05
Sar Act Flov Tot: Am S.No 3. 4. 5. 6. 7,	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p.</li> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes //minute <sup>3</sup> (For PM 10) & Results 126 71.1 32.1 22.4 1.205 BDL BDL BDL	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0 5.0 400	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detection Limit NA NA NA NA NA O.05 0.05
Sar Act Flor Tot: Am S.No S.No 1. 2. 3. 4. 5. 6. 6. 8.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters p. Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3) Ozone (as O3) (8 hours)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes "Minute " (For PM 10) & Results 126 71.1 32.1 22.4 1.205 BDL BDL BDL 24.1	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0 5.0 400 100	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detection Limit NA NA NA NA NA 0.05 0.05 0.05

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SI/DCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, Now Dolhi 110041 THIS CERTIFICATE IS NOT VALID WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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41

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

Materials

MA LABS

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

## **TEST REPORT**



		1	1	1		
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

--- End of Test Report ---

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 2 of 2

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- Email : reports@simalab.com
- CIN No : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com

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

	TEST REPORT							
PAF	RTY CODE : M/HR/12131	1.175 		REF	PORT NO. : SE0813005621/N			
ISS	UED TO MARUTI SUZUKI II	NDIA LIMIT	ED	REF	<sup>≂</sup> . NO. : NS			
0.44	(Manesar Plant) Plo Gurugram, Haryana	ot No.1, Pha a	ase-3A, IMT Ma	anesar, REF DT.	E DATE : NS RECD : 13/08/2021			
SAN	IPLE NAME : AMBIENT AIR	SÍ	RESULTS	OF ANALYSIS		<b>W</b>		
	EINE SINC		Reference : A	As Per EP Act-198	6			
Sar Act	npling completed at ual time of sampling	: 12:00 F : 1440 m	PM (Dt. 05/08/2 linutes	2021)	<b>H</b> 5m			
Sar Act Flow Tota Am	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	: 12:00 F : 1440 m : 1.29 m : 1858 m : 36 Units	PM (Dt. 05/08/2 ninutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 Results	2021) & 23.851 m <sup>3</sup> (For P	Protocols	Dete		
Sar Act Flor Tota Am S.No	npling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM -10)	: 12:00 F : 1440 m : 1.29 m <sup>2</sup> : 1858 m : 36 Units µg/m <sup>3</sup>	PM (Dt. 05/08/2 linutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 Results 139	2021) & 23.851 m <sup>3</sup> (For P Limit (Max)	Protocols	Dete Limit		
Sar Act Flor Tot Am S.No 1.	npling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5)	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60	PM 2.5) Protocols IS:5182 (P-23) Gravimetric	Dete Limit NA		
Sar Act Flo Tot Am S.No 2.	<ul> <li>mpling completed at ual time of sampling wrate of sampling</li> <li>al volume of air sampled bient temperature (°C)</li> <li>p. Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6)	Deter Limit NA NA		
Sar Act Flov Tot Am S.No 2. 3. 4.	<ul> <li>mpling completed at ual time of sampling wrate of sampling al volume of air sampled bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6 22.8	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2)	Dete Limit NA NA NA		
Sar Act Flov Tot <b>S.No</b> <b>3.</b> 4. 5.	<ul> <li>mpling completed at ual time of sampling wrate of sampling al volume of air sampled bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6 22.8 1.237	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80 80 2.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy	Deter Limit NA NA NA NA NA		
Sar Act Flo <sup>1</sup> Tot Am <b>S.No</b> <b>1</b> . <b>2</b> . <b>3</b> . <b>4</b> . <b>5</b> . <b>6</b> .	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>2</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>µg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80 80 2.0 5.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11)	Detec Limit NA NA NA NA NA O.05		
Sar Act Flov Tot. Am <b>S.No</b> <b>2</b> . 3. 4. 5. 6. 7.	<ul> <li>mpling completed at ual time of sampling wrate of sampling al volume of air sampled bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM -2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL BDL	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80 80 2.0 5.0 400	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detec Limit NA NA NA NA 0.05 0.05		
Sar Act Flov Tot. Am S.No S.No 2. 3. 4. 5. 6. 7. 8.	<ul> <li>mpling completed at ual time of sampling wrate of sampling al volume of air sampled bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> <li>Ozone (as O3) (8 hours)</li> </ul>	<ul> <li>12:00 F</li> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> </ul>	PM (Dt. 05/08/2 inutes <sup>3</sup> /minute <sup>3</sup> (For PM 10) 8 <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL BDL BDL 24.7	2021) & 23.851 m <sup>3</sup> (For P Limit (Max) 100 60 80 80 2.0 5.0 400 100	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-2) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detec Limit NA NA NA NA O.05 0.05		

#### SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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

### TEST REPORT





PART	Y CODE : M/HR/12131			REPORT NO. : SE0813005621/N			
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit	
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05	
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05	
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1	

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

--- End of Test Report ---

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Page: 2 of 2

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No: 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884 New Delhi 110041 THIS CERTIFICATE VALID WITHOUT A HOLOGRAM

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	(GOVT. APPROVED TESTING LABORATORIES)	Website	:	www.simalab.net   www.simalab.com
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ER • BUILDING MATERIALS

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PARTY CODE ISSUED TO	: M/HR/12131 MARUTI SUZUKI INDIA LIMITED	REPORT NO. : SE0813005321/N REF. NO. : NS					
	(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar, Gurugram, Haryana	REF. DATE : NS DT.RECD : 13/08/2021					
SAMPLE NAME	AMBIENT AIR	51000					

**RESULTS OF ANALYSIS** Reference : As Per EP Act-1986 Description One Ambient Air sample was collected by us from 05/08/2021 to 06/08/2021 : Name of Industry MARUTI SUZUKI INDIA LIMITED Location of the Sampling Point ź Near material gate Date of Sampling 05/08/2021 To 06/08/2021 Sampling started at 12:20 PM (Dt. 05/08/2021) 5 Sampling completed at 12:20 PM (Dt. 06/08/2021) • Actual time of sampling 1440 minutes Flow rate of sampling 1.34 m<sup>3</sup>/minute Total volume of air sampled 1930 m3 (For PM 10) & 24.048 m3 (For PM 2.5) Ambient temperature (°C) 36 S.No. Parameters Units Results Limit (Max) Protocols Detection Limit 1. Particulate Matter (as PM -10) µg/m³ 132 100 IS:5182 (P-23) NA 2. Particulate Matter (as PM - 2.5) µg/m³ 73.2 60 NA Gravimetric 3. 32.5 Nitrogen Dioxides (as NO2) 80 µg/m³ IS:5182 (P-6) NA 4. Sulphur Dioxide (as SO2) 22.7 80 µg/m<sup>3</sup> IS:5182 (P-2) NA 5. Carbon Monoxide (as CO) (8 1.219 2.0 mg/m<sup>3</sup> NDIR - Spectroscopy NA hours) 6. Benzene (ac C6H6) BDL 5.0 µg/m³ IS:5182 (P-11) 0.05 7. Ammonia (as NH3) BDL ug/m<sup>a</sup> 400 Methods of Air sampling 0.05 & Analysis-401 8. Ozone (as O3) (8 hours) 24.8 100 µg/m³ Methods of Air sampling NA & Analysis-411 9. Lead (as Pb) BDL 1.0 µg/m³ Methods of Air sampling 0.05 & Analysis-822

#### SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Phone: +(91)-(01334)-235552 Phone: +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com



SIMA LABS Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)

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

- Phone : +(91)-(11) 43854300
- Email : reports@simalab.com
- **CIN No** : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com

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

## **TEST REPORT**





PART	Y CODE : M/HR/12131			REPORT NO. : SE0813005321/N				
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit		
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05		
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05		
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1		

Date of performance : 13/08/2021 to 17/08/2021 BDL : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Diwakar Jha M AUTHORISED SIGNATORY

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Now Delhi 110041 Phone: +(91)-93198-28884 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

--- End of Test Report ---

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Page: 2 of 2

SIMA LABS Phone : +(91)-(11) 43854300 Sophisticated Industrial Materials Email reports@simalab.com Analytic Labs Pvt. Ltd. CIN No U74899DL1988PTC031785 5 (GOVT. APPROVED TESTING LABORATORIES) Website www.simalab.net | www.simalab.com : TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATER



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

#### 7.8 F-01 TEST REPORT PARTY CODE : M/HR/12131 REPORT NO. : SE0813005521/N **ISSUED TO** MARUTI SUZUKI INDIA LIMITED REF. NO. NS (Manesar Plant) Plot No.1, Phase-3A, IMT Manesar, REF. DATE : NS Gurugram, Haryana DT.RECD : 13/08/2021 SAMPLE NAME : AMBIENT AIR **RESULTS OF ANALYSIS** Reference : As Per EP Act-1986 Description ł One Ambient Air sample was collected by us from 04/08/2021 to 05/08/2021 Name of Industry MARUTI SUZUKI INDIA LIMITED ż Location of the Sampling Point 1 Near STP Area Date of Sampling 04/08/2021 To 05/08/2021 1 Sampling started at 11:30 AM (Dt. 04/08/2021) Sampling completed at 11:30 AM (Dt. 05/08/2021) Actual time of sampling 1440 minutes Flow rate of sampling 1.31 m<sup>3</sup>/minute Total volume of air sampled 1886 m3 (For PM 10) & 23.761 m3 (For PM 2.5) Ambient temperature (°C) 36 ÷ S.No. Parameters Units Results Limit (Max) Detection Protocols Limit 1. Particulate Matter (as PM -10) µg/m³ 129 100 IS:5182 (P-23) NA 2. 60 NA Particulate Matter (as PM - 2.5) µg/m³ 71.5 Gravimetric 3. Nitrogen Dioxides (as NO2) µg/m³ 31.8 80 IS:5182 (P-6) NA 4. 22.5 80 Sulphur Dioxide (as SO2) µg/m³ IS:5182 (P-2) NA 5. Carbon Monoxide (as CO) (8 mg/m<sup>3</sup> 1.211 2.0 NDIR - Spectroscopy NA hours) 6. Benzene (as C6I I6) BDL 5.0 IS:5182 (P-11) 0.05 µg/m<sup>3</sup> 400 0.05 7. Ammonia (as NH3) µg/m<sup>3</sup> BDL Methods of Air sampling & Analysis-401 23.9 100 NA 8. Ozone (as O3) (8 hours) µg/m³ Methods of Air sampling & Analysis-411 9. BDL 0.05 Lead (as Pb) µg/m³ 1.0 Methods of Air sampling & Analysis-822

#### SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Diwakar

SIMA

MA LABS ohisticate Materials Analytic Labs Pvt. Ltd.

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

# **TEST REPORT**



PARTY CODE : M/HR/12131				REPORT NO. : SE0813005521/N			
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit	
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05	
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05	
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1	

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

--- End of Test Report ---

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALUE WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Phone: +(91)-(01334)-235552

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Jha Diwakar M ADGAD RISED SRINAFORY

Page: 2 of 2

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

Times of India MARUTI SUZUK Way of Life! PUBLIC NOTICE MARUTI SUZUKI INDIA LIMITED Rogd. Office: 1 Nelson Mandela Road, Vasiont 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 Viala सूचना MARUTI SUZUKI INDIA LIMITED Regd. Office: 1 Nelson Mandela Road, Vasant Kunj, New Delhi - 110070 SEIAA हरियाणा द्वारा मारुति सुजुकी इंडिया लिमिटेड के मानेसर प्लाट में पॉकर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोर्क्स प्रवान कर दिया गया है अनुमोदन पत्र की प्रतियाँ हरियाणा राज्य प्रदुषण निर्यत्रण 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 मारुति सुजुकी इंडिया लिमिटेड दिनांक : 27 सितम्बर 2012

Long term study

to

Assess

The Cumulative Impact

of

the Power Plant (57 MW)

on

Ambient Air Quality (AAQ)

**Project Proponent** 

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 cooperation 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.



1	INTRODUCTION	1
	1.1 Background	1
	1.2 Objective of AAQ study	1
2	CONTENT OF THE STUDY	1
	2.1 Ambient Air Quality	1
	2.2 Upper Atmosphere Chemistry	2
	2.3 Radiation Budget	2
3	MEASURES RESULTS AND GRAPHS	3
	3.1 Ambient Air Monitoring	3
	3.2 SO <sub>2</sub>	4
	3.3 NO <sub>2</sub>	5
	3.4 Ozone (O <sub>3</sub> )	5
	3.5 PM <sub>2.5</sub>	6
	3.6 PM <sub>10</sub>	6
4	CONCLUSION	7



### **Background**

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

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

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

### **Objective**

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

### **Power Plant Emissions**

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

**<u>Content of the study</u>** – Impact of power plant operation on the following:

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

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



- 5. Ozone (O<sub>3</sub>)
- 6. Lead (Pb)
- 7. Carbon Monoxide (CO)
- 8. Ammonia (NH<sub>3</sub>)
- 9. Benzene (C<sub>6</sub>H<sub>6</sub>)
- 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<sub>x)</sub>
- 2. Ozone (O<sub>3</sub>)
- 3. Oxides of Nitrogen (NO<sub>x)</sub>

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

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


There are various parameters which are affecting the earth's radiation budget. Particulate matter and  $SO_2$  is the major contributor for affecting Sun radiation on earth.

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

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

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

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

	AMBIENT AIR MONITORING DATA 1st Qrt								
	S. No	Location	Starting Date	End Date	SO <sub>2</sub>	NO <sub>X</sub>	Ozone	PM <sub>2.5</sub>	<b>PM</b> <sub>10</sub>
	1	Site A	26.06.2013	27.06.2013	5	22	105	26	65
2013-	2	Site B	26.06.2013	27.06.2013	4	20	110	26	58
14	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
	5	Site A	29.05.2014	30.05.2014	6	21	106	29	67
2014-	6	Site B	29.05.2014	30.05.2014	5	22	109	27	61
15	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
	9	Site A	28.06.2015	29.06.2015	6	20	48	22	39
2015-	10	Site B	28.06.2015	29.06.2015	5	22	60	26	40
16	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
	13	Site A	02.06.2016	03.06.2016	14	24	118	42	76
2016-	14	Site B	02.06.2016	03.06.2016	11	24	115	45	75
17	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-	17	Site A	02.06.2017	03.06.2017	13	23	107	40	100
18	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 IInd Qrt								
	S.No	Location	Starting Date	End Date	<b>S0</b> <sub>2</sub>	NO <sub>X</sub>	Ozone	PM <sub>2.5</sub>	<b>PM</b> <sub>10</sub>
	1	Site A	26.08.2013	27.08.2013	6	25	110	27	68
2013-	2	Site B	26.08.2013	27.08.2013	4	23	108	26	65
14	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
	5	Site A	12.09.2014	13.09.2014	6	20	115	30	69
2014-	6	Site B	12.09.2014	13.09.2014	6	23	110	28	64
15	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
	9	Site A	25.08.2015	26.08.2015	23	57	37	29	64
2015-	10	Site B	25.08.2015	26.08.2015	28	42	82	31	72
10	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
	13	Site A	03.09.2016	04.09.2016	14	24	118	42	76
2016-	14	Site B	03.09.2016	04.09.2016	12	23	112	44	76
17	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-	17	Site A	24.08.2017	25.08.2017	14	24	107	40	79
18	18	Site B	24.08.2017	25.08.2017	12	22	110	41	77
	19	Site C	24.08.2017	25.08.2017	13	23	109	36	78
	20	Site D	24.08.2017	25.08.2017	14	25	111	41	76

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

Sulphur Dioxide (SO<sub>2</sub>): 24 hourly monitoring concentrations at various locations varied between 0 to  $37 \,\mu\text{g/m}^3$ . It reflects that their no increase in pollution load in AAQ of the area.





Pollution Control Research Institute, BHEL, Haridwar

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



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





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



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





Pollution Control Research Institute, BHEL, Haridwar

# 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.



Annexure A

## NATIONAL AMBIENT AIR QUALITY STANDARDS (2009)

Pollutants	Time	Concentration	in Ambient Air	Methods of Measurement
	Weighted	Industrial,	Ecologically	
	Average	Residential,	Sensitive Area	
		<b>Rural and</b>	(Notified by	
		other Areas	Central	
			Government)	
Sulphur Dioxide	Annual *	50	20	-Improved West and Gaeke Method
(SO <sub>2</sub> ), μg/m <sup>3</sup>	24 Hours **	80	80	-Ultraviolet Fluorescence
Nitrogen Dioxide	Annual *	40	30	-Jacob & Hochheiser modified
(NO <sub>2</sub> ), μg/m <sup>3</sup>	24 Hours **	80	80	(NaOH-NaAsO <sub>2</sub> ) Method
				-Gas Phase Chemiluminescence
Particulate Matter	Annual *	60	60	-Gravimetric
(Size less than 10µm)	24 Hours **	100	100	-TEOM
or PM <sub>10</sub> , μg/m <sup>3</sup>				-Beta attenuation
Particulate Matter	Annual *	40	40	-Gravimetric
(Size less than 2.5µm)	24 Hours **	60	60	-TEOM
or PM <sub>2.5</sub> , μg/m <sup>3</sup>				-Beta attenuation
Ozone (O <sub>3</sub> )	8 Hours *	100	100	-UV Photometric
μg/m <sup>3</sup>	1 Hour **	180	180	-Chemiluminescence
				-Chemical Method
Lead (Pb)	Annual *	0.50	0.50	-AAS/ICP Method after sampling on
μg/m <sup>3</sup>	24 Hours **	1.0	1.0	EPM 2000 or equivalent filter paper
				-ED-XRF using Teflon filter
Carbon Monoxide(CO),	8 Hours **	02	02	-Non dispersive Infrared (NDIR)
mg/m <sup>3</sup>	1 Hour **	04	04	Spectroscopy
Ammonia (NH <sub>3</sub> ),	Annual *	100	100	-Chemiluminescence
μg/m <sup>3</sup>	24 Hours **	400	400	-Indophenol blue method
Benzene (C <sub>6</sub> H <sub>6</sub> ),	Annual *	05	05	-Gas Chromatography (GC) based
µg/m³				continuous analyzer
				-Adsorption and desorption followed
				by GC analysis
Benzo(a)Pyrene (BaP)	Annual *	01	01	-Solvent extraction followed by
Particulate phase only,				HPLC/GC analysis
ng/m <sup>3</sup>				
Arsenic (As),	Annual *	06	06	-AAS/ICP Method after sampling on
ng/m³				EPM 2000 or equivalent filter paper
Nickel (Ni),	Annual *	20	20	-AAS/ICP Method after sampling on
ng/m <sup>3</sup>				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.



# प्रदूषण नियन्त्रण अनुसंधान संस्थान

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 :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	4	02.06.2017 to 03.06.2017
4.	Location of Sampling	1	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	4	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

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

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

**BDL**: Below Detectable Limit.

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

Yadav ) Mana R. S. खप प्रवन्धक/ Dy Manager

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPOINTER CONTRACTOR INSURPORTS, प्रदूषण नियन्त्रण अनुमधान विभाव Environmental Impact Assessment, Environmental Audits reports BHEL Rat por the aut Remarks :-

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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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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: 2017-2018:0117 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.		17-0062-0-791
3.	Date of sampling	:	02.06.2017 to 03.06.2017
4.	Location of Sampling	1	B:Gate No. 1
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

## B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	11	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m <sup>3</sup>	23	80
3.	Particulate Matter less than 10 $\mu$ m or PM <sub>10</sub>	$\mu g/m^3$	74	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	$\mu g/m^3$	43	60
5.	Ozone ( 0 <sub>3</sub> )	$\mu g/m^3$	116	180
6.	Lead ( Pb )	$\mu g/m^3$	BDL	1
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	2.5	4
8.	Ammonia ( NH <sub>3</sub> )	$\mu g/m^3$	BDL	400
9.	Benzene ( $C_6H_6$ )	$\mu g/m^3$	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m <sup>3</sup>	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	13	20

BDL: Below Detectable Limit,

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

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Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB SPGR out and Environmental Impact Assessment, Environmental Audits reports Street and General Ports Remarks :-

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

BHEL, Ranipur, Haridwar



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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 :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.	:	17-0062-0-791
3.	Date of sampling		02.06.2016 to 03.06.2016
4.	Location of Sampling	1	C:SND Gate
5.	Method of Sampling		IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS, and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

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

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m³	23	80
3.	Particulate Matter less than 10 $\mu m$ or PM <sub>10</sub>	µg/m³	71	100
4.	Particulate Matter less than $2.5 \ \mu m$ or $PM_{2.5}$	µg/m³	40	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	113	180
6.	Lead ( Pb )	μg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	1.9	4
8.	Ammonia ( NH <sub>3</sub> )	μg/m <sup>3</sup>	BDL	400
9.	Benzene ( $C_6H_6$ )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	11	20

**BDL**: Below Detectable Limit,

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

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Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & Solid Common and Antice and ण निवन्त्रण अनुसंधान संस्थान. Environmental Impact Assessment, Environmental Audits reports BHEL, Ranipur, Haridwar

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

POLLUTION CONTROL RESEARCH INSTITUTE

South Asia ISO 9001-2008 OHSAS 18001-2007

(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 :0119 Date: 17.06.2017

### A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s Maruti Suzuki India Ltd. Manesar, Harwana
2.	Work Order No.	1	17-0062-0-791
3.	Date of sampling	:	02.06.2016 to 03.06.2016
4.	Location of Sampling	4	D:Near Incinerator
5.	Method of Sampling	:	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

## B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	$\mu g/m^3$	14	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu g/m^3$	24	80
3.	Particulate Matter less than 10 $\mu$ m or PM <sub>10</sub>	$\mu g/m^3$	77	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	$\mu g/m^3$	42	60
5.	Ozone ( O <sub>3</sub> )	ug/m <sup>3</sup>	118	180
6.	Lead ( Pb )	$\mu g/m^3$	BDL	100
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.0	1
8.	Ammonia ( NH <sub>3</sub> )	ug/m <sup>3</sup>	BDL	400
9.	Benzene ( $C_6H_6$ )	ug/m <sup>3</sup>	BDL	
10.	Benzo(a)pyrene (BaP)	$\frac{r_{\rm B}}{m_{\rm m}}$		5
11.	Arsenic (As)	ng/m3		1
. 12.	Nickel ( Ni )	ng/m <sup>3</sup>	13	20

**BDL**: Below Detectable Limit.

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

RS (adav)

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

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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)

# 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:

SI. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	80
3.	Particulate Matter less than 10 $\mu$ m or PM <sub>10</sub>	µg/m <sup>3</sup>	79	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	μg/m <sup>3</sup>	40	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	107	180
6.	Lead ( Pb )	µg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( 0)	mg/m <sup>3</sup>	2.2	4
8.	Ammonia ( NH <sub>3</sub> )	μg/m <sup>3</sup>	BDL	400
9.	Benzene ( C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5
10.	·Benzo(a)pyrene ( Ba <sup>12</sup> )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	10	20

BDL: Below Detectable Limit,

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

Bjadar (RSYadav) Dy. Manager (PCRI) राजेन्द्र सिंह यादय/ R. S. Yadav उप प्रवन्धक/ Dy Manager **Pollution Control Research Institute** प्रदूषण नियन्त्रण अनुसंधान संस्थान

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

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# REPORT 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, Harvana
2.	Work Order No.	1	17-0135-0-791
3.	Date of sampling	:	24.08.2017 to 25.08.2017
4.	Location of Sampling	2	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-IJ.K.

## B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	12	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22	80
3.	Particulate Matter less than 10 µm or PM10	$\mu g/m^3$	77	100
4.	Particulate Matter less than 2.5 µm or PM <sub>2.5</sub>	$\mu g/m^3$	41	60
5.	Ozone ( 0 <sub>3</sub> )	$\mu g/m^3$	110	180
6.	Lead ( Pb )	ug/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )		2.4	4
8.	Ammonia ( NH <sub>3</sub> )	$\mu g/m^3$	BDL	400
9.	Benzene ( $C_6H_6$ )	$\mu g/m^3$	BDL	5
10.	Benzo(a)pyrene (BaP)	$ng/m^3$	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel (Ni)	ng/m <sup>3</sup>	12	20

**BDL**: Below Detectable Limit,

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

( RSYa Dy. Manager ( PCRI) त्तजेन्द्र सिंह वादव/ R. S. Yadav

उप प्रबन्धक/Dy Manager Pollution Control Research Institute प्रदेषण विग

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPEREnd Rest ding last seports, Environmental Impact Assessment, Environmental Audits reports

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# AMBIENT AIR MONITORING

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

## A. GENERAL INFORMATION:

1.	Name and address of Plant	1	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	:	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	1	24 Hours
7.	Sample collection by	:	PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

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

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	13	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23	80
3.	·Particulate Matter less than 10 $\mu m$ or PM <sub>10</sub>	µg/m <sup>3</sup>	78	100
4.	Particulate Matter less than 2.5 $\mu$ m or PM <sub>2.5</sub>	µg/m <sup>3</sup>	36	60
5.	Ozone ( O <sub>3</sub> )	µg/m <sup>3</sup>	109	180
6.	Lead ( Pb )	μg/m <sup>3</sup>	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	1.85	4
8.	Ammonia ( NH <sub>3</sub> )	μg/m <sup>3</sup>	BDL	400
9.	Benzene ( $C_6H_6$ )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene ( BaP )	ng/m <sup>3</sup>	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	11	20

BDL: Below Detectable Limit,

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

adar (RSYadav)

Dy. Manager (PCRI)

राजेन्द्र सिंह यादय/R. S. Yadav उप प्रयन्धयः/ Dy Manager Pollution Control Research Institute

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPERENDER MARKET STREAM FORTS, Environmental Impact Assessment, Environmental Audits reports

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

# 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.	4	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	4	IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS and PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by		PCRI, B.H.E.L., Ranipur, Haridwar-U.K.

### B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	Allowable Limit**
1.	Sulphur Dioxide (SO <sub>2</sub> )	μg/m <sup>3</sup>	14	80
2.	Nitrogen Dioxide (NO <sub>2</sub> )	μg/m <sup>3</sup>	25	80
3.	Particulate Matter less than 10 $\mu$ m or PM <sub>10</sub>	µg/m³	76	100
4.	Particulate Matter less than 2.5 $\mu$ m or PM <sub>2.5</sub>	μg/m <sup>3</sup>	41	60
5.	Ozone ( O <sub>3</sub> )	µg/m³	111	180
6.	Lead ( Pb )	µg/m³	BDL	1
7.	Carbon Monoxide ( CO )	mg/m <sup>3</sup>	2.1	4
8.	Ammonia ( NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400
9.	Benzene ( $C_6H_6$ )	µg/m <sup>3</sup>	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m <sup>3</sup>	BDL	1
11.	Arsenic (As)	ng/m <sup>3</sup>	BDL	6
12.	Nickel ( Ni )	ng/m <sup>3</sup>	12	20

BDL: Below Detectable Limit,

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

(RSYadav) Dy. Manager ( PCRI)

राजेन्द्र सिंह यावव/ R. S. Yadav **34 प्रमन्द्रक/ Dy Manager** Pollution Control Research Institute प्रदूषण नियन्त्रण अनुसंधान संस्थान

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPC Billing Romany Mandepairts, 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: 5<sup>th</sup> February, 2008

To

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

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

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

2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 2006 for expansion of existing 16.2 MW power plant by adding 10x7 MW units. The power plant is captive power plant. The land requirement is 8500 m<sup>2</sup>. The coordinates of the proposed project site are latitude  $27^{\circ}$  39' N to  $28^{\circ}$  32'N and Longitude  $76^{\circ}$  39' E to  $77^{\circ}$  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:-

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

- (ii) NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC Observatory.
- (iii) Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available. However, the 3 turbines scheduled to be installed during 2008 may be operated on HSD till January, 2009 when gas would become available. Thereafter, gas shall be used as fuel.
- (iv) Dry Low 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, 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 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 recirculated and reused with in the plant area. No effluents shall be discharged outside the plant boundary.
- (ix) Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/ State Ground Water Board and a copy of the same shall be submitted within three months to this Ministry.
- (x) Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.
- (xi) A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be at least 1/3<sup>rd</sup> of the total area.
- (xii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.

- (xiii) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the State Pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry at Chandigarh.
- (xiv) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <u>http://envfor.nic.in</u>,
- (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.

Satinha germany

(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.
- 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.
- 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.

MARUTI Way of Life!

#### MSIL:CUIP:ESEC:ENV:21-22:058

18-Nov-2021

То

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

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

Jansodin

MADAN BANSODE DGM (ENVIRONMENT) MARUTI SUZUKI INDIA LTD.

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

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

#### MARUTI SUZUKI INDIA LIMITED

Head Office: Maruti Suzuki India Limited, 1, Nelson Mandela Road, Vasant Kunj, New Delhi - 110070, India. Tel: 011- 46781000, Fax: 011-46150275/46150276 E-mail id: contact@maruti.co.in, www.marutisuzuki.com Gurgaon Plant: Maruti Suzuki India Limited, Old Palam Gurgaon Road, Gurgaon - 122015, Haryana, India. Tel: 0124-2346721, Fax: 0124-2341304

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

GIN, 1.34103DL 1061PL.CO11375

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

#### 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 <sup>2</sup> for any utilities / facilities relating to the project.	The project is located within Maruti Suzuki India Limited premises at IMT Manesar and the power plant is set within 8500 sq.m area.
2	NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC observatory.	NOC obtained from BARC is placed at 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 in 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.	NOx 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, which ever 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 confirm 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 <sup>rd</sup> 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 <mark>Annexure - 6</mark>
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 <sup>th</sup> February, 2008
4.	Location:	District: Gurgaon (South)
	a) District (s)	State: Haryana
	b) State (s)	Latitude: 27 <sup>o</sup> 39' N to 28 <sup>o</sup> 32'N
	c) Latitudes/Longitudes	Longitude: 76 <sup>0</sup> 39'E to 77 <sup>0</sup> 20'E
5.	a) Address of Correspondence (with Pin	Mr. Madan Ankush Bansode
	Code/ Tel No./Telex/Fax No./E mail	Deputy General Manager – Environment
	address)	Maruti Suzuki India Limited
		Palam Gurgaon Road
		Gurgaon, Haryana
		Email: Madan.Bansode@maruti.co.in
		Phone 0124 – 2346721 ~ 30 Extn : 3583
		Mr. Bineet Arora
	b) Address of executive Project Engineer/	General Manager – EMU
	Manager (with Pin Code/ Tel	Maruti Suzuki India Limited
	No./Telex/Fax No./Email address)	Palam Gurgaon Road
	,	Gurgaon, Haryana
		Email: bineet.arora@maruti.co.in
		Phone 0124 – 2346721 ~ 30
6.	Salient Features:	Salient Features of the project and
	a) of the project	Environmental Management Plant details is
	b) of the environmental management plans	enclosed in Annexure A
7.	Break up of the project area:	The project is located within MSIL premises
	a) Submergence area : Forest & Non-forest	in the Industrial Area.
	b) Others	
8	Break up of the project affected population with	
0.	enumeration of those losing house /dwelling	Not Applicable
	units only agricultural land only both dwelling	Not Applicable
	units and agricultural land and landless	
	laborers/artisans	
	a) SC/ST/Adivasis	
	h) Others	
	(Please indicate whether these figure are based	
	on any scientific and systematic survey corried	
	out or only provisional figures. If a survey bas	
	been carried out give details and year of	
	survey)	
	survey)	

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

## SALIENT FEATURES OF PROJECT:

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

### ENVIRONMENTAL MANAGEMENT PLAN

#### Water Pollution control

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

### Air Pollution control:

- Stacks of the GT shall be maintained at 30 m.
- NO<sub>X</sub> emissions will be below 100 ppm.
- SPM and 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 SO<sub>2</sub> emissions will further go down

### Noise Pollution Control

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

### Ground Water

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

### Green belt development

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

Fax

सेंटल कॉम्स्लेक्स,

ट्रॉम्बे, मुंबई - 400 085. Central Complex,

Trombay, Mumbai - 400 085.

दूरभाष/Tel.: 022 - 2550 5354 फेक्स/Fax: 022 - 2550 5161 022 - 2550 5353 ई-मेल/e-mail: ndshama@bera.gov.in

ন. ব. ছার্দা নিয়নক N. D. Sharma Controller



भारत सरकार GOVERNMENT OF INDIA भाभा परमाणु अनुसंधान केंद्र BHABHA ATOMIC RESEARCH CENTRE

Ref: 14/8/91/Admn-1 / 32 81

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 104/18 (N. D. Sharma) Controller

A A A	SIM	A LABS		A-3/7, Mayapuri Phone +(	Industrial Area, Ph- II, N 91)-(11) 43854300	ew Delhi - 110064
GOVT. APPROVED TESTING LABORATORIES)			Email : reports@simalab.com CIN No : U74899DL1988PTC031785 Website : www.simalab.net   www.simalab.com			
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2 Nitrogen Ov	IDES L'AS MUNY I					INA I
2. Nitrogen Ox 3. Sulphur Dio	xides ( as $SO2$ )	ppm	BDI	NA	IS:11255 (P-2)	1.0

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

14.1

3.9

ppm

% v/v

Date of completion : 17/08/2021

Total Hydrocarbon

Carbon Dioxide (as CO2)

--- End of Test Report ---

NA

NA

Vikram Singh

5

6.

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 & 107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WI

Phone : +(91)-(01334)-235552 Ika, Phone : +(91)-93198-28884 WITHOUT A HOLOGRAM

1)-235552 Email : simaharidwar@simalab.co.in -28884 Email : bmlab@simalab.com

NA

NA

AUTHORISED SIGNATORY

IS:5182 (P-17)

IS:13270

SIMA

Page: 1 of 1

S	SIM	A LABS		A-3/7, Mayapuri	Industrial Area, Ph-II, N	ew Delhi - 110064
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Contr Reco Gene Fugiti Stack Ambie Quan	eral Sensory observations ive Emissions (if any) Cemperature (°C) ent Temperature(°C) tity of Emission (Nm³/Hr)	: Normal : Nil : 391 : 34 : 30288		199	IMA S	IMA S
Contr Reco Gene Fugiti Stack Ambie Quan S.No.	eral Sensory observations ive Emissions (if any) C Temperature (°C) ent Temperature(°C) tity of Emission (Nm³/Hr) Parameters	: Normal : Nil : 391 : 34 : 30288 Units	Results	Limits (Max.)	Protocols	Detection Limit
Contr Reco Gene Fugiti Stack Ambio Quan S.No.	Particulate Matter	: Normal : Nil : 391 : 34 : 30288 Units mg/Nm3	Results 31.7	Limits (Max.)	Protocols IS:11255 (P-1)	Detection Limit
Contr Reco Gene Fugiti Stack Ambie Quan S.No. 1. 2.	Particulate Matter Nitrogen Oxides ( as NOx )	: Normal : Nil : 391 : 34 : 30288 Units mg/Nm3 ppm	Results 31.7 39.4	Limits (Max.) NA 100	Protocols IS:11255 (P-1) IS:11255 (P-7)	Detection Limit NA NA
Contr Reco Gene Fugiti Stack Ambie Quan <b>S.No.</b> 1. 2. 3.	Particulate Matter Nitrogen Oxides ( as SO2 )	: Normal : Nil : 391 : 34 : 30288 Units mg/Nm3 ppm ppm	Results           31.7           39.4           BDL	Limits (Max.) NA 100 NA	Protocols           IS:11255 (P-1)           IS:11255 (P-7)           IS:11255 (P-2)	Detection Limit NA NA 1.0
Contr Reco Gene Fugiti Stack Ambir Quan <b>S.No.</b> 1. 2. 3. 4.	Parameters Particulate Matter Nitrogen Oxides ( as NOx ) Sulphur Dioxide ( as SO2 ) Carbon Monoxide ( as CO )	: Normal : Nil : 391 : 34 : 30288 Units mg/Nm3 ppm ppm ppm	Results           31.7           39.4           BDL           19.2	Limits (Max.) NA 100 NA NA	Protocols           IS:11255 (P-1)           IS:11255 (P-7)           IS:11255 (P-2)           IS:13270	Detection Limit NA NA 1.0 NA

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

--- End of Test Report ---

DGM - Environment AUTHORISED SIGNATORY

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

Page : 1 of 1

SIN	A LABS		A-3/7, Mayapuri	Industrial Area, Ph- II,	New Delhi - 110064
Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)			Phone : + Email : re CIN No : U Website : w	(91)-(11) 43854300 eports@simalab.com 74899DL1988PTC03 <sup>,</sup> ww.simalab.net   www	1785 simalab.com
TREAMS : FOOD & AGRI PRODUCTS • N	UTRACEUTICALS	DRUGS & COSI	METICS • AYUSH PROI	DUCTS • ENVIRONMEN	T • WATER • BUILDING M
A SIMA OF			NIA DI	VILE	
PARTY CODE : M/HR/12131 ISSUED TO MARUTI SUZUI	KI INDIA LIMITE	TEST R	EPORT REPOR	T NO. : SE0813006 D. : NS	7.8 F-01
(Manesar Plant) Gurugram, Hary	Plot No.1, Pha ana	se-3A, IMT Man	esar, REF. DA	ATE : NS	• EDAA •
			DI.RE	SD : 13/06/2021	
SAMPLE NAME : STACK EMISSIO	UN	DESULTS C		Contraction of the local distribution of the	
SIMA SIM		Reference : I	S 11255 & EPA		
Description	: One sta 01:45 P	ack emission sar	nple was collected b	y us on 10/08/2021 b	petween 01:15 PM to
Name of plant & Section Emission Source Monitored Type of Fuel Used Stack Identification Normal Operating Schedule (Hrs/di Location of sampling Point Type of Chimney (ACC/Metal) Stack Height (Meters) a. From source of Emission b. From Roof Level c. From Ground Level Diameter of stack (cm) Sampling Duration (minutes) Parameters Monitored Purpose of Monitoring Products Manufactured Control measures (if any) Recovery of Material (if any) General Sensory observations Fugitive Emissions (if any) Stack Temperature (°C) Ambient Temperature (°C) Quantity of Emission (Nm³/Hr)	<ul> <li>MARUT</li> <li>Gas turb</li> <li>Gas turb</li> <li>Gas turb</li> <li>Natural g</li> <li>Gas turb</li> <li>Natural g</li> <li>Gas turb</li> <li>Gas turb</li> <li>Jouble s</li> <li>As per m</li> <li>Mild steet</li> <li>-</li> <li>-</li> <li>30</li> <li>PM, NOX</li> <li>Assessm</li> <li>Integrate</li> <li>Nil</li> <li>Normal</li> <li>Nil</li> <li>Normal</li> <li>Nil</li> <li>409</li> <li>34</li> <li>31585</li> </ul>	s, SO2, CO, CO2 & ent of pollution load d automobile Mfg.	a HC		A SINA SIMA MA SIN MA SI SIMA SIMA S
S.No. Parameters	Units	Results	Limits (Max.)	Protocols	Detection Limit
1. Particulate Matter	mg/Nm3	33.5	NA	IS:11255 (P-1)	NA
2. Nitrogen Oxides ( as NOx )	ppm	41.8	100	IS:11255 (P-7)	NA
3. Sulphur Dioxide ( as SO2 )	ppm	BDL	NA	IS:11255 (P-2)	1.0
4. Carbon Monoxide ( as CO )	ppm	19.7	NA	IS:13270	NA
5. Total Hydrocarbon	ppm	15.7	NA	IS:5182 (P-17)	NA

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

--- End of Test Report ---

ha N **DGM** - Environment AUTHORISED SIGNATORY

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20; Udhyog Nagar Indi Area, Mundka, Naw Dalbi 440044 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

Page: 1 of 1

SIMA Sophisticated In Analytic La (GOVT. APPROVED TO	LABS Idustrial Materials abs Pvt. Ltd. ESTING LABORATORIES)	A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064 Phone : +(91)-(11) 43854300 Email : reports@simalab.com CIN No : U74899DL1988PTC031785 Website : www.simalab.net   www.simalab.com TC-5361
PARTY CODE : M/HR/12131 ISSUED TO MARUTI SUZUKI IN	TEST REF	TOS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATER 7.8 F-01 REPORT NO. : SE0813006521/N REF. NO. : NS
(Manesar Plant) Plo Gurugram, Haryana	t No.1, Phase-3A, IMT Manesar	r, REF. DATE : NS DT.RECD : 13/08/2021
CIMA SINA	RESULTS OF / Reference : IS 11	ANALYSIS 1255 & EPA
Description	: One stack emission sample 10:00 AM	e was collected by us on 11/08/2021 between 09:30 AM to
Name of Industry	: MARUTI SUZUKI INDIA LIMIT	red la
Name of plant & Section	: Gas turbine section	Iter and the second
Emission Source Monitored	: Gas turbine stack	- AITIA SINUA
Type of Fuel Used	: Natural gas	CIMA SHITT
Stack Identification	: Gas turbine stack no. 7 (20 MV	V)
Normal Operating Schedule (Hrs/day)	: Double shift	
Location of sampling Point	: As per norms	
Type of Chimney (ACC/Metal) Stack Height (Meters) a. From source of Emission	: Mild steel	SIMA SINA
b. From Roof Level		. CIMA SHIT

S.No. Parameters	Units	Results	Limits (Max.)	Protocols	Deter
Quantity of Emission (Nm <sup>3</sup> /Hr)	: 155976		14 A A A		
Ambient Temperature(°C)	: 34				
Stack Temperature (°C)	: 418				
Fugitive Emissions (if any)	: Nil				
General Sensory observations	: Normal				
Recovery of Material (if any)	: Nil				
Control measures (if any)	: Nil		SAILUU -		
Products Manufactured	: Integrate	d automobile Mfg.			
Purpose of Monitoring	: Assessm	nent of pollution load			
Parameters Monitored	: PM, NO	k, SO2, CO, CO2 & H	HC	100	
Sampling Duration (minutes)	: 30				
Diameter of stack (cm)	: 300	1			
c. From Ground Level	: 30				

S.No.	Parameters	Units	Results	Limits (Max.)	Protocols	Detection Limit
1.	Particulate Matter	mg/Nm3	35.1	NA	IS:11255 (P-1)	NA
2.	Nitrogen Oxides ( as NOx )	pṗm	57.9	100	IS:11255 (P-7)	NA
3.	Sulphur Dioxide ( as SO2 )	ppm	BDL	NA	IS:11255 (P-2)	1.0
4.	Carbon Monoxide ( as CO )	ppm	34.1	NA	IS:13270	NA
5.	Total Hydrocarbon	ppm	19.2	NA	IS:5182 (P-17)	NA
6.	Carbon Dioxide (as CO2)	% v/v	4.9	NA	IS:13270	NA

Date of performance : 13/08/2021 to 17/08/2021

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

--- End of Test Report ---

**DGM** - Environment AUTHORISED SIGNATORY

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 1 of 1

SIMA LABS Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)				A-3/7, Mayapuri Phone : + Email : re CIN No : U Website : w	Industrial Area, Ph- II, I (91)-(11) 43854300 eports@simalab.com I74899DL1988PTC031 /ww.simalab.net   www.	New Delhi - 110064 785 .simalab.com TC-5361
TREA	MS : FOOD & AGRI PRODUCTS • NL	ITRACEUTICALS	DRUGS & COSM	ETICS • AYUSH PROI	DUCTS • ENVIRONMEN	• WATER • BUILDING MA
PAR	TY CODE : M/HR/12131 JED TO MARUTI SUZUK (Manesar Plant) I Gurugram, Harya	I INDIA LIMITE Plot No.1, Phae na	TEST RE	EPORT REPOR REF. NO Sar, REF. D/ DT.REC	AT NO. : SE0813006 D. : NS ATE : NS CD : 13/08/2021	421/N
	INAL SINIA	/ Buy	RESULTS OF	ANALYSIS	N SIMP	X. College
Des	scription	: One sta	ck emission sam	ble was collected b	v us on 11/08/2021 h	etween 10:50 AM to
Typ Stac Norri Loca Typi Stac Dian Sam Para Purp Proc Conf Reco Genu Fugii Stac	e of Fuel Used ck Identification mal Operating Schedule (Hrs/da ation of sampling Point e of Chimney (ACC/Metal) ck Height (Meters) a. From source of Emission b. From Roof Level c. From Ground Level neter of stack (cm) upling Duration (minutes) meters Monitored bose of Monitoring lucts Manufactured trol measures (if any) overy of Material (if any) eral Sensory observations tive Emissions (if any) k Temperature (°C) ient Temperature(°C) htty of Emission (Nm³/Hr)	<ul> <li>Natural g</li> <li>Gas turb</li> <li>Gas turb</li> <li>Double s</li> <li>As per no</li> <li>Mild stee</li> <li>-</li> <li>-</li> <li>300</li> <li>300</li> <li>300</li> <li>200</li> <l< th=""><th>, SO2, CO, CO2 &amp; I ent of pollution load d automobile Mfg.</th><th></th><th></th><th>SIMA AA SIN SIMA MA SI SIMA MA SI</th></l<></ul>	, SO2, CO, CO2 & I ent of pollution load d automobile Mfg.			SIMA AA SIN SIMA MA SI SIMA MA SI
S.No.	Parameters	Units	Results	Limits (Max.)	Protocols	Detection Limit
s 1.	Particulate Matter	mg/Nm3	34.7	NA	IS:11255 (P-1)	NA
2.	Nitrogen Oxides ( as NOx )	ppm	55.8	100	IS:11255 (P-7)	NA
3.	Sulphur Dioxide ( as SO2 )	ppm	BDL	NA	IS:11255 (P-2)	1.0
4.	Carbon Monoxide ( as CO )	ppm	32.7	NA	IS:13270	NA
-	Total Hydrocarbon	mag	18.7	NA	IS:5182 (P-17)	NA
5.				1.0.1	10.0102 (1 11)	INA

NA-Not Applicable, BDL- Below Detection Limit

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

--- End of Test Report ---

M **DGM** - Environment AUTHORISED SIGNATORY

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 1 of 1

SIMA LABS Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)					+(91)-(11) 43854300 reports@simalab.com U74899DL1988PTC031785 www.simalab.net   www.simalab.com	m TC-536
TREAM	S : FOOD & AGRI PRODUCTS • NUTF	RACEUTICAL	S • DRUGS & COSM	ETICS • AYUSH PR	RODUCTS • ENVIRONMENT • WATER •	BUILDING MAT
	Sum		IA SI	MA S		7.8 F-01 民業
			TEST	FPORT		<u>891</u>
			IESTI			
ARTY	CODE : M/HR/12131		S	MA R R	EPORT NO. : SE0805003021/N EF. NO. : NS	v ()
550EI	(Manesar Plant) P Gurugram, Haryar	lot No.1, P na	hase-3A, IMT Ma	nnesar, R E	REF. DATE : NS DT.RECD : 05/08/2021	CE UMA
		ER (ETP-C	UTLET)	AIM A	Sillin	
SAMPI	LE NAME : EFFLOLINI W.		RESULTS	OF ANALYS		
			Reference	EP Act Standa	ard	-
SAM	PLING DATE : 04/08/20	21		SA	MPLE QTY. : 1 LTR.	Detectio
SAM	Parameters	Units	Results	Limit (Max.)	Protocois	Limit
S.No.	Parameters	Units	Results	Limit (Max.)	Protocois	Limit
S.No.	Parameters	Units	Results	5.5 to 9.0	IS:3025 (P-11)	Limit
S.No.	Parameters pH	Units	7.38	5.5 to 9.0	IS:3025 (P-11) IS:3025 (P-17)	NA NA
S.No.	Parameters pH Total Suspended Solids	Units NA mg/L	Results           7.38           <5	5.5 to 9.0 100 250	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58)	NA NA NA
S.No. 1. 2. 3.	Parameters pH Total Suspended Solids Chemical Oxygen Demand	Units NA mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44)	NA NA NA NA NA
S.No. 1. 2. 3. 4.	Parameters pH Total Suspended Solids Chemical Oxygen Demand Biochemical Oxygen Demand (for 3 days at 27 Deg C)	NA mg/L mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44)	NA NA NA NA NA
S.No. 1. 2. 3. 4. 5	Parameters pH Total Suspended Solids Chemical Oxygen Demand Biochemical Oxygen Demand (for 3 days at 27 Deg C) Oil & Grease	Units NA mg/L mg/L mg/L mg/L	Results       7.38       <5	5.5 to 9.0 100 250 30 10	IS:3025 (P-11) IS:3025 (P-17) IS:3025 (P-58) IS:3025 (P-44) IS:3025 (P-39)	NA NA NA NA NA NA 1.0
S.No. 1. 2. 3. 4. 5. 6	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)	Units NA mg/L mg/L mg/L mg/L mg/L	Results       7.38       <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)	NA           NA           NA           NA           NA           NA           NA           NA           NA           0.01
S.No. 1. 2. 3. 4. 5. 6. 7.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)	Units NA mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E	NA           NA           NA           NA           NA           NA           NA           0.01           0.02
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as C6H5OH)         Cyanide (as CN)	NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.005
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.01 0.10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)         IS:3025 (P-2)	NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.005
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.01 0.20	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-43)         IS:3025 (P-43)         IS:3025 (P-2)	Deteom           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.10 0.1	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-43)         IS:3025 (P-2)	Doctor           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           NA
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)Arsenic (as As)Colour	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results   7.38   <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 NA NA	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-44)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-5)	Detect           Limit           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA
S.No. S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)         Colour         Odour	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.10 0.20 NA NA 10	IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-43)         APHA-4500 CN-E         IS:3025 (P-2)         IS:3025 (P-3)         IS:3025 (P-3)	Detect           Limit           NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA           NA
S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 14. 15.	ParameterspHTotal Suspended SolidsChemical Oxygen DemandBiochemical Oxygen Demand(for 3 days at 27 Deg C)Oil & GreaseSulphide (as S)Hexavalent Chromium (as Cr+6)Phenolic Compound (as C6H5OH)Cyanide (as CN)Mercury (as Hg)Lead (as Pb)Arsenic (as As)ColourOdourNitrate Nitrogen (as NO3-N)	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.01 0.10 0.20 NA NA 10 50	Protocols         IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-39)         IS:3025 (P-39)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-52)         IS:3025 (P-29)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-34)         IS:3025 (P-34)	Dector           Limit           NA           NA           NA           NA           NA           NA           NA           0.01           0.02           0.02           0.05           0.05           NA           NA
S.No. S.No. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 15. 16.	Parameters         pH         Total Suspended Solids         Chemical Oxygen Demand         Biochemical Oxygen Demand         (for 3 days at 27 Deg C)         Oil & Grease         Sulphide (as S)         Hexavalent Chromium (as Cr+6)         Phenolic Compound (as         C6H5OH)         Cyanide (as CN)         Mercury (as Hg)         Lead (as Pb)         Arsenic (as As)         Colour         Odour         Nitrate Nitrogen (as NO3-N)         Ammonical Nitrogen (as NH3-N	Units NA mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Results         7.38         <5	Limit (Max.) 5.5 to 9.0 100 250 30 10 2.0 0.10 1.0 0.20 0.01 0.10 0.20 0.11 0.20 NA NA 10 50 5.0	Protocois         IS:3025 (P-11)         IS:3025 (P-17)         IS:3025 (P-58)         IS:3025 (P-58)         IS:3025 (P-44)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-29)         IS:3025 (P-20)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-2)         IS:3025 (P-3)         IS:3025 (P-34)         IS:3025 (P-34)         IS:3025 (P-34)         IS:3025 (P-34)	Dector           Limit           NA           0.01           0.02           0.02           0.02           0.05           NA           NA

SAMPLE COLLECTED BY US

Mr. Diwakar Jha RUMOR SEVISIONANDRY

Date of completion : 11/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WIT THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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SIMA

Page: 1 of 2

## SIMA LABS Sophisticated Industrial M

Analytic Labs Pvt. Ltd.

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

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

ustrial Materials



# TEST REPORT



536

S.No.	Parameters	Units	Results	Limit (Max.)	Protocols	Detection Limit
18.	Mangnese (as Mn)	mg/L	0.09	NA	IS:3025 (P-2)	NA
19.	Fluorides (as F)	mg/L	BDL	2.0	APHA-4500 F-D	0.05
20.	Temperature	°C	25.6	NA	IS:3025 (P-9)	NA
21.	Total Kjeldahl Nitrogen	mg/L	3.4	100	IS:3025 (P-34)	NA
22.	Nickle (as Ni)	mg/L	0.26	3.0	IS:3025(P-2)	NA
23.	Zinc (as Zn)	mg/L	BDL	5.0	IS:3025(P-2)	0.02
24.	Cadmium (as Cd)	mg/L	BDL	2.0	IS:3025(P-2)	0.01
25.	Copper (as Cu)	mg/L	BDL	3.0	IS:3025(P-2)	0.05
26.	Total Chromium (as Cr)	mg/L	BDL	2.0	IS:3025(P-2)	0.005
27.	Total Residual Chlorine (as Cl2)	mg/L	BDL	1.0	IS:3025(P-26)	0.1
28.	Faecal Coliform	MPN/100 ml	34	NA	APHA, 23rd Edition, 9221F: 2017	NA
29.	Iron (as Fe)	mg/L	BDL	3.0	IS:3025 (P-2)	0.05
30.	Selenium (as Se)	mg/L	BDL	0.05	IS:3025 (P-2)	0.005

Date of performance : 05/08/2021 to 11/08/2021

all the second s	SAMPLE COLLECTED BY US	()leeed
SIMU	A SHILL SIM	Mr. Diwakar Jh
Date of completion : 11/08/2021	End of Test Report	AUTHORISED SIGNATOR
Vikram Singh		Page

 HARIDWAR LABORATORY :
 Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403
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01334)-235552 Email : simal 03198-28884 Email : bmla

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

	Sophisticate Analyti (GOVT. APPRO	MA LABS d Industria c Labs Pvt ved testing labo	Al Materials L. Ltd. DRATORIES)	A-3/7, Mayapuri Phone : 4 Email : n CIN No : U Website : v	i Industrial Area, Ph- II, New Delhi - 1 -(91)-(11) 43854300 eports@simalab.com J74899DL1988PTC031785 www.simalab.net   www.simalab.cor	n
TREAM	S : FOOD & AGRI PRODUCTS •	NUTRACEUTICALS	• DRUGS & COSM	IETICS • AYUSH PRO	DUCTS • ENVIRONMENT • WATER •	BUILDING MATE
						7.8 F-01
			TEST	REPORT		影響
			SIMA			
DAD	TX CODE • M/HR/1213	1		MA S	REPORT NO. : SE0805003021	10
ISSU	IED TO MARUTI SU	JZUKI INDIA LIN	MITED	F	REF. NO. : NS	the add on
	(Manasar P	Plant) Plot No 1	Phase-34 IMT	Manesar F	REF. DATE : NS	
	Gurugram,	Haryana	F 11256-57, 110111	[	DT.RECD : 05/08/2021	
SAM		WATER (ETP-				
	LE NAME : EFFLUENT		RESULT	S OF ANALYS		STUD
1			Reference	e : EP Act Standa	ard	
SAM	IPLING DATE : 04/	/08/2021	SIMA	SA	MPLE QTY. : 1 LTR.	SIM
SAN S.No	MPLING DATE : 04/	/08/2021	Results	SA Limit (Max.)	MPLE QTY. : 1 LTR.	Detection
SAN S.No	MPLING DATE : 04/	/08/2021 Units mg/L	Results	SA Limit (Max.) 5.0	MPLE QTY. : 1 LTR.	Detection Limit
SAN S.No 1. 2.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V)	/08/2021 Units mg/L mg/L	Results BDL BDL	SA Limit (Max.) 5.0 0.2	MPLE QTY. : 1 LTR.	Detection Limit 0.5 0.002
SAN S.No 1. 2. 3.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size	/08/2021 Units mg/L mg/L	Results           BDL           BDL           DV (10) 25.071	SA Limit (Max.) 5.0 0.2 NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer	Detection Limit 0.5 0.002 NA
SAN S.No 1. 2. 3. 4.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size	/08/2021 Units 	Results BDL BDL DV (10) 25.071 DV (50) 74.916	SA Limit (Max.) 5.0 0.2 NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer	Detection Limit 0.5 0.002 NA NA
SAN S.No 1. 2. 3. 4. 5.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size Particle Size	/08/2021 Units mg/L mg/L μm μm	Results           BDL           BDL           DV (10) 25.071           DV (50) 74.916           DV (90)           199.208	SA Limit (Max.) 5.0 0.2 NA NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer By Particle Analyzer	Detecti Limit 0.5 0.002 NA NA NA
SAM S.NC 1. 2. 3. 4. 5.	APLING DATE : 04/ Parameters Free Ammonia Vanadium (as V) Particle Size Particle Size Particle Size Particle Size	/08/2021 Units mg/L μm μm μm	Results         BDL         BDL         DV (10) 25.071         DV (50) 74.916         DV (90)         199.208	SA Limit (Max.) 5.0 0.2 NA NA NA	MPLE QTY. : 1 LTR.  Protocols  IS:3025 (P-34) IS:3025 (P-2) By Particle Analyzer By Particle Analyzer By Particle Analyzer	Detecti Limit 0.5 0.002 NA NA NA

Date of performance :	05/08/2021 to 11/08/2021
NA-Not Applicable, BDL-	Below Detection Limit

	SAMPLE COLLECTED BY US	Allele )
CINER SINU	A SIM	Mr. Diwakar Jha
Date of completion : 11/08/2021	End of Test Report	AUTHORISEEDIGNATION
		Page : 1 of

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WIT Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Annexure 4



# SIMA LABS **Sophisticated Industrial Materials**

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

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

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- CIN No : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com



			TEST	REPORT	SIMA SIN	
PA	RTY CODE : M/HR/12131 SUED TO MARUTI SUZUKI I	NDIA LIMIT	ed SI	RE	PORT NO. : SE0421007021/N F. NO. : NS	
(Manesar Plant) Plot No.1, P Gurugram, Haryana SAMPLE NAME: AMBIENT AIR			'hase-3A, IMT Manesar,		REF. DATE : NS DT.RECD : 21/04/2021	
		51	RESULTS Reference : /	OF ANALYSIS As Per EP Act-198	6	(With
Da Sa Sa Act Flo Tot Am	ate of Sampling mpling started at mpling completed at tual time of sampling w rate of sampling tal volume of air sampled mbient temperature (°C)	<ul> <li>Near ga</li> <li>12/04/2</li> <li>11:10 A</li> <li>11:10 A</li> <li>1440 m</li> <li>1.26 m<sup>3</sup></li> <li>1814 m</li> <li>37</li> </ul>	ate no2 021 To 13/04/ M (Dt. 12/04/2 M (Dt. 13/04/2 inutes /minute <sup>3</sup> (For PM 10)	2021 2021) 2021) & 24.048 m³ (For F	M 2.5)	
5.N	o Parametere	1 I I with a		the second s		
ľ		Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	μg/m <sup>3</sup>	Results 215	Limit (Max)	IS:5182 (P-23)	Detection Limit
1.	Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5)	μg/m <sup>3</sup> μg/m <sup>3</sup>	215 112	Limit (Max) 100 60	Protocols IS:5182 (P-23) Gravimetric	Detection Limit NA NA
1. 2. 3.	Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2)	μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup>	Results           215           112           35.9	Limit (Max) 100 60 80	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)	Detection Limit NA NA NA
1. 2. 3. \$.	Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2)	μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup>	Results           215           112           35.9           25.0	Limit (Max) 100 60 80 80	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)	Detection Limit NA NA NA NA
1. 2. 3. 4. 5.	Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours)	μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> mg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389	Limit (Max) 100 60 80 80 2.0	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)           NDIR - Spectroscopy	Detection       Limit       NA       NA       NA       NA       NA       NA       NA
1. 2. 3. 4. 5.	<ul> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389           BDL	Limit (Max) 100 60 80 80 2.0 5.0	Protocols           IS:5182 (P-23)           Gravimetric           IS:5182 (P-6)           IS:5182 (P-2)           NDIR - Spectroscopy           IS:5182 (P-11)	Detection Limit NA NA NA NA NA NA 0.05
1. 2. 3. 4. 5. 6.	Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3)	μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup> μg/m <sup>3</sup>	Results           215           112           35.9           25.0           1.389           BDL           BDL	Limit (Max) 100 60 80 80 2.0 5.0 400	Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detection LimitNANANANANA0.050.05
1.       2.       3.       4.       5.       6.       7.       3.	<ul> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> <li>Ozone (as O3) (8 hours)</li> </ul>	μg/m³           μg/m³           μg/m³           μg/m³           μg/m³           μg/m³           μg/m³           μg/m³           μg/m³           μg/m³	Results         215         112         35.9         25.0         1.389         BDL         BDL         24.1	Limit (Max) 100 60 80 80 2.0 5.0 400 100	Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detection       Limit       NA       NA       NA       NA       NA       0.05       0.05       NA

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

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SIMA

Page: 1 of 2

SIMA LABS **Sophisticated Industrial Materials** 

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

Units

ng/m³

ng/m<sup>3</sup>

ng/m³

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

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

41

Methods of Air sampling

Methods of Air sampling

& Analysis-822

& Analysis-822

**USEPA 8270-C** 

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

BDL

BDL

BDL

# **TEST REPORT**

6

20

1.0



0.05

0.05

0.1

PARTY CODE : M/HR/12131

Parameters

Arsenic (as As)

Nickel (as Ni)

Benzo (a) Pyrene (Bap)

S.No.

10.

11.

12.

REPORT NO. : SE0421007021/N Results Limit (Max) Protocols Detection Limit

Date of performance :	21/04/2021	to 26/04/2021
<b>BDL : Below Detection Lim</b>	it	
NA : Not Applicable		

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

ATORY AU Page: 2 of 2

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SI/DCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS GERTIEICATE IS NOT VALID WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com
SIMA LABS **Sophisticated Industrial Materials** 

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(GOVT. APPROVED TESTING LABORATORIES)

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Phone : +(91)-(11) 43854300

Emall : reports@simalab.com

CIN No : U74899DL1988PTC031785

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

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



SAMPLE NAME : AMBIENT AIR Г

PARTY CODE

**ISSUED TO** 

			RESULTS Reference : A	OF ANALYSIS As Per EP Act-1986	SIMA S	
Desc	ription	: One Am	nbient Air sam	ple was collected b	y us from 12/04/2021 to 13/04/2	2021
Name Locat Date Samp Samp Actua Flow Total Ambie	e of Industry tion of the Sampling Point of Sampling bling started at bling completed at at time of sampling rate of sampling volume of air sampled ent temperature (°C)	LIMITED 2021 2021) 2021) 2021) & 23.904 m <sup>3</sup> (For PM	M 2.5)			
.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
	Particulate Matter (as PM -10)	µg/m³	210	100	IS:5182 (P-23)	NA
	Particulate Matter (as PM - 2.5)	µg/m³	105	60	Gravimetric	NA
	Nitrogen Dioxides (as NO2)	µg/m³	34.5	80	IS:5182 (P-6)	NA
	Sulphur Dioxide (as SO2)	µg/m³	24.2	80	IS:5182 (P-2)	NA
	Carbon Monoxide (as CO) (8 nours)	mg/m³	1.359	2.0	NDIR - Spectroscopy	NA
E	Benzene (as C6H6)	µg/m³	BDL	5.0	IS:5182 (P-11)	0.05
1	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05
C	Ozone (as O3) (8 hours)	µg/m³	23.9	100	Methods of Air sampling & Analysis-411	NA
L	ead (as Pb)	µg/m³	BDL	1.0	Methods of Air sampling	0.05

#### SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone: +(91)-(01334)-235552 Phone: +(91)-93198-28884 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

AU

Email : simaharidwar@simalab.co.in Email : bmlab@simalab.com

SIGNATORY

SIMA

SIMA LABS Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES) A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064

- Phone : +(91)-(11) 43854300
- Email : reports@simalab.com
- CIN No : U74899DL1988PTC031785

24

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

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

# TEST REPORT



TC-5361

PART	Y CODE : M/HR/12131		1 C 1	REPO	DRT NO. : SE0421007121/N	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ńi)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 21/04/2021 to 26/04/2021 BDL : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

ORISED AU SIGNATORY Page: 2 of 2

 HARIDWAR LABORATORY :
 Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403
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 :
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 Phone : +(91)-93198-28884

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536 TF

	MA SIMA	SIM	TEST	REPORT	A SIMA SIN	8 F-01
PAF	RTY CODE : M/HR/12131 UED TO MARUTI SUZUKI II	NDIA LIMIT	ED SI	MA	REPORT NO. : SE0421006921/N REF. NO. : NS	
SAM	(Manesar Plant) Plo Gurugram, Haryana	ot No.1, Pha	ase-3A, IMT M	anesar,	REF. DATE : NS DT.RECD : 21/04/2021	• E I AA
	AMBIENT AIR	510	RESULTS	OF ANALY	SIS	(WA
De	scription	· 000 A	Reference : /	AS Per EP Act-	1986	
Flov Tota Aml	ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C)	: 1440 m : 1.31 m : 1886 m : 36	hinutes ³/minute h³ (For PM 10) {	& 23.904 m³ (Fo	or PM 2.5)	SIM JA
S.No	p. Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m³	225	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m³	122	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO2)	µg/m³	35.8	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO2)	µg/m³	25.1	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m³	1.395	2.0	NDIR - Spectroscopy	NA
<b>3</b> .	Benzene (as C6H6)	µg/m³	BDL	5.0	IS:5182 (P-11)	0.05
7.	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05
	Ozone (as O3) (8 hours)	ua/m <sup>3</sup>	247	100	Mathada of Air consultor	

SAMPLE COLLECTED BY US

1.0

BDL

Date of completion : 26/04/2021

Lead (as Pb)

Vikram Singh

9.

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

µg/m³

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0.05

SIGNATORY

Page: 1 of 2

Methods of Air sampling

& Analysis-822

AL



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## **TEST REPORT**





PARTY CODE : M/HR/12131

REPORT NO. : SE0421006921/N

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 21/04/2021 to 26/04/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

AUT GNATORY Page: 2 of 2

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone: +(91)-(01334)-235552 Phone: +(91)-93198-28884 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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A-3/7, Mayapuri Industrial Area, Ph-II, New Delhi - 110064 SIMA LABS : +(91)-(11) 43854300 Phone Sophisticated Industrial Materials Emall : reports@simalab.com Analytic Labs Pvt. Ltd. CIN No : U74899DL1988PTC031785 (GOVT. APPROVED TESTING LABORATORIES) Website : www.simalab.net | www.simalab.com TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS







#### PARTY CODE : M/HR/12131 REPORT NO. : SE0421006821/N **ISSUED TO** MARUTI SUZUKI INDIA LIMITED REF. NO. (Manesar Plant) Plot No.1, Phase-3A, IMT Manesar,

REF. DATE : NS DT.RECD : 21/04/2021

: -NS



SAMPLE NAME : AMBIENT AIR

Gurugram, Harvana

	-und SIMA	. SH	RESULTS Reference : /	OF ANALYSIS As Per EP Act-1986	SIMAS	i wez
Des	cription	: One Ar	nbient Air sam	ple was collected by	us from 13/04/2021 to 14/04/2	2021
Nan	ne of Industry	: MARUT				
Loca	ation of the Sampling Point	: SND ga	ate		L STALL	
Date	e of Sampling	: 13/04/2	021 To 14/04/	2021		
Sam	pling started at	: 10:30 A	M (Dt. 13/04/2	2021)		
Sam	pling completed at	: 10:30 A	M (Dt. 14/04/2	2021)	A	
Actu	al time of sampling	: 1440 m	inutes			
=low	rate of sampling	: 1.30 m <sup>3</sup>	/minute	AN .		
Tota	I volume of air sampled	: 1872 m	<sup>3</sup> (For PM 10)	& 23.761 m <sup>3</sup> (For PM	2.5)	
Amb	ient temperature (°C)	: 36		5 WW 7		
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
×	Particulate Matter (as PM -10)	µg/m³	219	100	IS:5182 (P-23)	NA
	Particulate Matter (as PM - 2.5)	µg/m³	102	60	Gravimetric	NA
•	Nitrogen Dioxides (as NO2)	µg/m³	32.5	80	IS:5182 (P-6)	NA
	Sulphur Dioxide (as SO2)	µg/m³	23.5	80	IS:5182 (P-2)	NA
	Carbon Monoxide (as CO) (8 hours)	mg/m³	1.315	2.0	NDIR - Spectroscopy	NA
•	Benzene (as C6H6)	µg/m³	BDL	5.0	IS:5182 (P-11)	0.05
	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05
	Ozone (as O3) (8 hours)	µg/m³	24.2	100	Methods of Air sampling	NA
					& Analysis-411	4

### SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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**GNATORY** 

Page: 1 of 2

SIMA LABS **Sophisticated Industrial Materials** 

Analytic Labs Pvt. Ltd.

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  - : reports@simalab.com
- CIN No : U74899DL1988PTC031785 Website : www.simalab.net | www.simalab.com

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



## **TEST REPORT**



#### PARTY CODE : M/HR/12131

-				REFORT NO. : SE0421006821/N				
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit		
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05		
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05		
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1		

Date of performance : 21/04/2021 to 26/04/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 26/04/2021

Vikram Singh

--- End of Test Report ---

AU ORISED SIGNATORY Page: 2 of 2

HARIDWAR LABORATORY Plot No. 37, Sector - 7, LLE SILDCUL, Haridwar - 249403 Phone: +(91)-(01334)-235552 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone: +(91)-93198-28884 New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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**SIMA LABS** Sophisticated industrial Materials

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- : U74899DL1988PTC031785 **CIN No**
- Website : www.simalab.net | www.simalab.com

		SIM	TEST I	REPORT	SIMA SI	8 F-01
PAF	RTY CODE : M/HR/12131			REI	PORT NO. : SE0813005421/N	
ISS	UED TO MARUTI SUZUKI II		ED	REI	F. NO. : NS	4
	(Manesar Plant) Plo	ot No.1, Pha	ase-3A, IMT Ma	nesar, REI	F. DATE : NS	
	Gurugram, Haryana			DT.	RECD : 13/08/2021	EQ.
SAN	PLE NAME : AMBIENT AIR					
			RESULTS	OF ANALYSIS		ti della
			Reference : A	s Per EP Act-198	6 ) SIN .	
De	scription	: One Ar	nbient Air samp	le was collected b	by us from 05/08/2021 to 06/08/2	2021
Sar Act Flor	mpling completed at ual time of sampling w rate of sampling	: 12:50 F : 1440 m : 1.32 m <sup>2</sup>	PM (Dt. 06/08/20 inutes Vminute	021)	π sw	
Sar Act Flor Tota Am	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	: 12:50 F : 1440 m : 1.32 m <sup>3</sup> : 1901 m : 36	PM (Dt. 06/08/20 inutes Pminute 3 (For PM 10) & Results	23.904 m³ (For F	PM 2.5)	Detectio
Sar Act Floy Tota Am S.No	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters	: 12:50 F : 1440 m : 1.32 m <sup>2</sup> : 1901 m : 36 Units	M (Dt. 06/08/20 inutes Vminute <sup>3</sup> (For PM 10) & Results	221) 221) 23.904 m³ (For F Limit (Max)	PM 2.5)	Detectio
Sar Act Flor Tota Am S.No 1.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM - 10) Particulate Matter (as PM - 2.5)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %minute 3 (For PM 10) & Results 126 71 1	221) 221) 23.904 m <sup>3</sup> (For F Limit (Max)	PM 2.5) Protocols IS:5182 (P-23) Gravimetric	Detecti- Limit NA
Sar Act Flov Tot: Am S.No 1. 2.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes 9/minute 3 (For PM 10) & Results 126 71.1 32.1	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6)	Detection Limit NA NA
Sar Act Flor Tot: Am S.No 2. 3. 4.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) c. Parameters Particulate Matter (as PM -10) Particulate Matter (as PM -2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %/minute 3 (For PM 10) & Results 126 71.1 32.1 22.4	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2)	Detection Limit NA NA NA NA
Sar Act Flov Tot: Am S.No 3. 4. 5.	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p. Parameters</li> <li>particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>2</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes %minute 3 (For PM 10) & Results 126 71.1 32.1 22.4 1.205	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy	Detecti- Limit NA NA NA NA NA
Sar Act Flo Tot Am S.No 1. 2. 3. 4. 5.	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p.</li> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>Units</li> <li>Units</li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> <li>µg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes M (Dt. 06/08/20 M (Dt. 0	23.904 m <sup>3</sup> (For F 23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0 5.0	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11)	Detectio Limit NA NA NA NA NA NA O.05
Sar Act Flov Tot: Am S.No 3. 4. 5. 6. 7,	<ul> <li>mpling completed at ual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>p.</li> <li>Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> </ul>	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes //minute <sup>3</sup> (For PM 10) & Results 126 71.1 32.1 22.4 1.205 BDL BDL BDL	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 2.0 5.0 400	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detection Limit NA NA NA NA NA O.05 0.05
Sar Act Flor Tot: Am S.No S.No 1. 2. 3. 4. 5. 6. 6. 8.	mpling completed at ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) p. Parameters p. Particulate Matter (as PM -10) Particulate Matter (as PM -10) Particulate Matter (as PM - 2.5) Nitrogen Dioxides (as NO2) Sulphur Dioxide (as SO2) Carbon Monoxide (as SO2) Carbon Monoxide (as CO) (8 hours) Benzene (as C6H6) Ammonia (as NH3) Ozone (as O3) (8 hours)	<ul> <li>12:50 F</li> <li>1440 m</li> <li>1.32 m<sup>3</sup></li> <li>1901 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> </ul>	M (Dt. 06/08/20 inutes "Minute " (For PM 10) & Results 126 71.1 32.1 22.4 1.205 BDL BDL BDL 24.1	23.904 m <sup>3</sup> (For F Limit (Max) 100 60 80 80 2.0 5.0 400 100	PM 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detection Limit NA NA NA NA NA 0.05 0.05 0.05

## SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

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DGM - Environment AUTHORISED SIGNATORY

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Jha

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8

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

Materials

MA LABS

Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

## **TEST REPORT**



PART	Y CODE : M/HR/12131			REPO	DRT NO. : SE0813005421/N	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

--- End of Test Report ---

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 2 of 2

	SIMA LABS
So	ohisticated Industrial Materials
	Analytic Labs Pvt. Ltd.
	(GOVT. APPROVED TESTING LABORATORIES)

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- CIN No : U74899DL1988PTC031785
- Website : www.simalab.net | www.simalab.com

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TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATERIALS 7.8 F-01

PAI ISS	RTY CODE : M/HR/12131 UED TO MARUTI SUZUKI II		ed S	REP REF.	ORT NO. : SE0813005621/N NO. : NS	
	(Manesar Plant) Plo Gurugram, Haryana	ot No.1, Pha a	ase-3A, IMT M	anesar, REF. DT.F	DATE : NS RECD : 13/08/2021	
SAN	MPLE NAME : AMBIENT AIR	, Si	RESULTS Reference : A	OF ANALYSIS	A SIMA S	
De	scription	: One Ar	nbient Air sam	ple was collected by	y us from 04/08/2021 to 05/08/2	2021
Act	ual time of sampling	: 1440 m	unutes			
Act Flo Tot Am	ual time of sampling w rate of sampling al volume of air sampled bient temperature (°C) o. Parameters	: 1440 m : 1.29 m <sup>3</sup> : 1858 m : 36 Units	inutes <sup>y</sup> minute <sup>3</sup> (For PM 10) ( Results	& 23.851 m³ (For P)	M 2.5) Protocols	Detect Limit
Act Flo Tot Am S.No	tual time of sampling         w rate of sampling         al volume of air sampled         bient temperature (°C)         p.         Parameters         Particulate Matter (as PM -10)	: 1440 m : 1.29 m <sup>3</sup> : 1858 m : 36 Units µg/m <sup>3</sup>	inutes <sup>y</sup> /minute <sup>3</sup> (For PM 10) ( Results 139	& 23.851 m³ (For P)	M 2.5) Protocols IS:5182 (P-23)	Detect Limit
Act Flo Tot Am S.No 1.	ual time of sampling         w rate of sampling         al volume of air sampled         bient temperature (°C)         o.         Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)	: 1440 m : 1.29 m <sup>3</sup> : 1858 m : 36 Units μg/m <sup>3</sup> μg/m <sup>3</sup>	inutes <sup>1</sup> /minute <sup>3</sup> (For PM 10) <b>Results</b> 139 76.3	& 23.851 m <sup>3</sup> (For P)	M 2.5) Protocols IS:5182 (P-23) Gravimetric	Detect Limit NA NA
Act Flo Tot Am <b>S.N</b> ( 1. 2. 3.	tual time of sampling         w rate of sampling         al volume of air sampled         bient temperature (°C)         p.         Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)         Nitrogen Dioxides (as NO2)	<ul> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	inutes '/minute <sup>3</sup> (For PM 10) <b>Results</b> 139 76.3 32.6	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6)	Detect Limit NA NA
Act Flo Tot Am <b>S.N</b> 1. 2. 3. 4.	tual time of sampling         w rate of sampling         al volume of air sampled         bient temperature (°C)         o.         Parameters         Particulate Matter (as PM -10)         Particulate Matter (as PM - 2.5)         Nitrogen Dioxides (as NO2)         Sulphur Dioxide (as SO2)	<ul> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	inutes //minute <sup>3</sup> (For PM 10) <b>Results</b> 139 76.3 32.6 22.8	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80 80	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2)	Detect Limit NA NA NA
Act Flo Tot Am S.No 1. 2. 3. 4. 5.	<ul> <li>tual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>o. Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> </ul>	<ul> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	inutes //minute <sup>3</sup> (For PM 10) <b>Results</b> 139 76.3 32.6 22.8 1.237	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80 80 2.0	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy	Detect Limit NA NA NA NA NA
Act Flo Tot Am S.Ne 1. 2. 3. 4. 5.	<ul> <li>tual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> </ul>	: 1440 m : 1.29 m <sup>3</sup> : 1858 m : 36 Units µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup> µg/m <sup>3</sup>	inutes //minute <sup>3</sup> (For PM 10) / <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80 80 2.0 5.0	M 2.5)  Protocols  IS:5182 (P-23)  Gravimetric  IS:5182 (P-6)  IS:5182 (P-2)  NDIR - Spectroscopy  IS:5182 (P-11)	Detect Limit NA NA NA NA NA NA O.05
Act Flo Tot S.Nd 1. 2. 3. 4. 5. 6. 7.	<ul> <li>tual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>o. Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> </ul>	<ul> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	inutes //minute <sup>3</sup> (For PM 10) <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL BDL	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80 80 2.0 5.0 400	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401	Detect Limit NA NA NA NA NA 0.05 0.05
Act Flo Tot S.Nd S.Nd 1. 2. 3. 4. 5. 6. 7. 8.	<ul> <li>tual time of sampling</li> <li>w rate of sampling</li> <li>al volume of air sampled</li> <li>bient temperature (°C)</li> <li>o. Parameters</li> <li>Particulate Matter (as PM -10)</li> <li>Particulate Matter (as PM - 2.5)</li> <li>Nitrogen Dioxides (as NO2)</li> <li>Sulphur Dioxide (as SO2)</li> <li>Carbon Monoxide (as CO) (8 hours)</li> <li>Benzene (as C6H6)</li> <li>Ammonia (as NH3)</li> <li>Ozone (as O3) (8 hours)</li> </ul>	<ul> <li>1440 m</li> <li>1.29 m<sup>3</sup></li> <li>1858 m</li> <li>36</li> <li>Units</li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> <li>μg/m<sup>3</sup></li> </ul>	inutes //minute <sup>3</sup> (For PM 10) / <b>Results</b> 139 76.3 32.6 22.8 1.237 BDL BDL BDL 24.7	& 23.851 m <sup>3</sup> (For P) Limit (Max) 100 60 80 80 2.0 5.0 400 100	M 2.5) Protocols IS:5182 (P-23) Gravimetric IS:5182 (P-6) IS:5182 (P-6) IS:5182 (P-2) NDIR - Spectroscopy IS:5182 (P-11) Methods of Air sampling & Analysis-401 Methods of Air sampling & Analysis-411	Detect Limit NA NA NA NA 0.05 0.05 0.05

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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

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# TEST REPORT





PART	Y CODE : M/HR/12131			REPO	DRT NO. : SE0813005621/N	
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

--- End of Test Report ---

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Page: 2 of 2

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No: 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Phone : +(91)-(01334)-235552 Phone : +(91)-93198-28884 New Delhi 110041 THIS CERTIFICATE VALID WITHOUT A HOLOGRAM

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	SIMA LABS	A-3/7, May	yapı	uri Industrial Area, Ph- II, New Delhi - 110064
	Sophisticated Industrial Materials Analytic Labs Pvt. Ltd. (GOVT. APPROVED TESTING LABORATORIES)	Phone Email CIN No Website	: : : :	+(91)-(11) 43854300 reports@simalab.com U74899DL1988PTC031785 www.simalab.net   www.simalab.com
STING STREAMS : F	OOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETI			CODUCTS . ENVIRONMENT . WATER . RUIL

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TEST REPORT

		TEOT REPOR	1993 - C	
PAI	RTY CODE UED TO	: M/HR/12131 MARUTI SUZUKI INDIA LIMITED	REPORT NO. REF. NO.	: SE0813005321/N : NS
		(Manesar Plant) Plot No.1, Phase-3A, IMT Manesar, Gurugram, Haryana	REF. DATE DT.RECD	: NS : 13/08/2021
SAN	MPLE NAME	AMBIENT AIR		
	<1M1	RESULTS OF ANAL Reference : As Per EP Ac	YSIS st-1986	SIMA SI

Des	cription	: One An	nbient Air samp	ole was collected by	y us from 05/08/2021 to 06/08/2	2021
Nam	ne of Industry	MARUT				
Loca	ation of the Sampling Point	Near m	aterial date			
Date	e of Sampling	: 05/08/2	021 To 06/08/2	021		
Sam	pling started at	: 12:20 P	M (Dt. 05/08/20	021)		
Sam	pling completed at	: 12:20 P	M (Dt 06/08/20	)21)		
Actu	al time of sampling	: 1440 m	inutes			
Flow	rate of sampling	: 1.34 m <sup>3</sup>	/minute			
Tota	I volume of air sampled	: 1930 m	<sup>3</sup> (For PM 10) &	24.048 m <sup>3</sup> (For PM	M 2.5)	
Amb	ient temperature (°C)	: 36		5 11111		- 25
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m³	132	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m³	73.2	60	Gravimetric	NA
3.	Nitrogen Dioxides (as NO2)	µg/m³	32.5	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO2)	µg/m³	22.7	80	IS:5182 (P-2)	NA
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.219	2.0	NDIR - Spectroscopy	NA
δ.	Benzene (ac C6H6)	µg/m³	BDL	5.0	IS:5102 (P-11)	0.05
7.	Ammonia (as NH3)	µg/m³	BDL	400	Methods of Air sampling & Analysis-401	0.05
).	Ozone (as O3) (8 hours)	µg/m³	24.8	100	Methods of Air sampling & Analysis-411	NA
).	Lead (as Pb)	µg/m³	BDL	1.0	Methods of Air sampling & Analysis-822	0.05

## SAMPLE COLLECTED BY US

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indl Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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AUTHORISED SIGNATORY

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## **TEST REPORT**





PARTY CODE : M/HR/12131				REPORT NO. : SE0813005321/N		
S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 13/08/2021 to 17/08/2021 BDL : Below Detection Limit NA : Not Applicable

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Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, Now Delhi 110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

--- End of Test Report ---

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Page: 2 of 2

SIMA LABS Phone : +(91)-(11) 43854300 Sophisticated Industrial Materials Email reports@simalab.com Analytic Labs Pvt. Ltd. CIN No U74899DL1988PTC031785 5 (GOVT. APPROVED TESTING LABORATORIES) Website www.simalab.net | www.simalab.com : TESTING STREAMS : FOOD & AGRI PRODUCTS • NUTRACEUTICALS • DRUGS & COSMETICS • AYUSH PRODUCTS • ENVIRONMENT • WATER • BUILDING MATER



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

#### 7.8 F-01 TEST REPORT PARTY CODE : M/HR/12131 REPORT NO. : SE0813005521/N **ISSUED TO** MARUTI SUZUKI INDIA LIMITED REF. NO. NS (Manesar Plant) Plot No.1, Phase-3A, IMT Manesar, REF. DATE : NS Gurugram, Haryana DT.RECD : 13/08/2021 SAMPLE NAME : AMBIENT AIR **RESULTS OF ANALYSIS** Reference : As Per EP Act-1986 Description ł One Ambient Air sample was collected by us from 04/08/2021 to 05/08/2021 Name of Industry MARUTI SUZUKI INDIA LIMITED ż Location of the Sampling Point 1 Near STP Area Date of Sampling 04/08/2021 To 05/08/2021 1 Sampling started at 11:30 AM (Dt. 04/08/2021) Sampling completed at 11:30 AM (Dt. 05/08/2021) Actual time of sampling 1440 minutes Flow rate of sampling 1.31 m<sup>3</sup>/minute Total volume of air sampled 1886 m3 (For PM 10) & 23.761 m3 (For PM 2.5) Ambient temperature (°C) 36 ÷ S.No. Parameters Units Results Limit (Max) Detection Protocols Limit 1. Particulate Matter (as PM -10) µg/m³ 129 100 IS:5182 (P-23) NA 2. 60 NA Particulate Matter (as PM - 2.5) µg/m³ 71.5 Gravimetric 3. Nitrogen Dioxides (as NO2) µg/m³ 31.8 80 IS:5182 (P-6) NA 4. 22.5 80 Sulphur Dioxide (as SO2) µg/m³ IS:5182 (P-2) NA 5. Carbon Monoxide (as CO) (8 mg/m<sup>3</sup> 1.211 2.0 NDIR - Spectroscopy NA hours) 6. Benzene (as C6I I6) BDL 5.0 IS:5182 (P-11) 0.05 µg/m<sup>3</sup> 400 0.05 7. Ammonia (as NH3) µg/m<sup>3</sup> BDL Methods of Air sampling & Analysis-401 23.9 100 NA 8. Ozone (as O3) (8 hours) µg/m³ Methods of Air sampling & Analysis-411 9. BDL 0.05 Lead (as Pb) µg/m³ 1.0 Methods of Air sampling & Analysis-822

SAMPLE COLLECTED BY US

Diwakar

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB : Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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MA LABS ohisticate Materials Analytic Labs Pvt. Ltd.

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# **TEST REPORT**



S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
10.	Arsenic (as As)	ng/m³	BDL	6	Methods of Air sampling & Analysis-822	0.05
11.	Nickel (as Ni)	ng/m³	BDL	20	Methods of Air sampling & Analysis-822	0.05
12.	Benzo (a) Pyrene (Bap)	ng/m³	BDL	1.0	USEPA 8270-C	0.1

Date of performance : 13/08/2021 to 17/08/2021 **BDL** : Below Detection Limit NA : Not Applicable

SAMPLE COLLECTED BY US

--- End of Test Report ---

Date of completion : 17/08/2021

Vikram Singh

HARIDWAR LABORATORY: Plot No. 37, Sector - 7, I.I.E SIIDCUL, Haridwar - 249403 BUILDING MATERIAL LAB: Plot No. 107/11/2 &107/20, Udhyog Nagar Indi Area, Mundka, New Delhi-110041 THIS CERTIFICATE IS NOT VALUE WI THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

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Page: 2 of 2

27 - Freb - 2100 TRIBUNE PUBLIC NOTICE ARUTI SUZUKI 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 (capitive) 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 Maruti Suzuki India Limited Date: 22nd Feburary, 2008.

## AMAR UJALA 22-Feb. 2008.

र	<b>च</b> ना
Maruti Suz 11th Floor, Jee 25 Kasturba Gandh Ph: 011-233169	WARUTI suki India Limited wan Prakash Building, Marg, New Delhi - 1 (0001. 31 Far: 011-23318754
पर्यावरण एवं वन मंत्रालय द्वारा मारुरि में पावर प्लांट के विस्तार हेतु पर्यार अनुमोदन पत्र की प्रतियां हरियाणा रा अनुमोदन पत्र को पर्यावरण एवं वन पर भी देखा जा सकता है.	तै सुजुकी इण्डिया लिमिटेड के मानेसर प्लांट गरणीय अनुमोदन प्रदान कर दिया गया है. ज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है. मंत्रालय की वेबसाइट <u>http://envtor.nic.in</u>
0	mail man allam Culti-