

SPEED POST

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

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



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

To

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

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

Sir,

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

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

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

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

A. Specific Conditions:

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

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

- x) A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within **a period of three months** from the date issue of clearance and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Ministry.
- xi) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires especially during summer season. Measures taken with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.
- xii) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- xiii) NO_x emission from each Gas Turbine shall not exceed 50 ppm.
- xiv) Stacks of 70 m shall be provided with continuous online monitoring equipments. Exit velocity of flue gases shall not be less than 22 m/sec.
- xv) Regular monitoring of ground level concentration of SO₂, NO_x, RSPM (PM₁₀ & PM_{2.5}) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- xvi) An amount of Rs 0.12 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 0.024 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.
- xvii) CSR scheme shall be identified based on need based assessment in and around the villages within 5 km of the site and in constant

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

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

B. General Conditions:

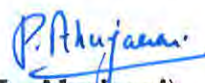
- i) Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS (if any) shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case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

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

- vi) An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the organization.
- vii) The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
- viii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
- ix) **The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.**
- x) Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. **Criteria pollutants levels including NO_x (from stack & ambient air) shall be displayed at the main gate of the power plant and in public domain.**
- xi) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.

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

Yours faithfully,


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

Copy to:

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

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

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

MSIL:CUIP:ESEC:ENV:19-20:053

30-Oct-2019

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

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

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

Dear Sir,

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

Thanking You.

Yours Faithfully



MADAN BANSODE
DGM (ENVIRONMENT)
MARUTI SUZUKI INDIA LTD.

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

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

MARUTI SUZUKI INDIA LIMITED

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

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

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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



MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

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

DATA SHEET

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



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

SALIENT FEATURES OF PROJECT:

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





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

A-3/7, Mayapuri Industrial Area, Ph- II, New Delhi - 110064
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 CIN No : U74899DL1988PTC031785
 Website : www.simalab.net | www.simalab.com

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7.8 F-01



TEST REPORT

PARTY CODE : M/HR/12232
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0525013419
 REF. NO. : NS

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
 HARYANA

REF. DATE : NS
 DT.RECD : 25/05/2019



SAMPLE NAME : TUBEWELL WATER NO.4

RESULTS OF ANALYSIS

Reference : IS 10500 -2012

DESCRIPTION : One tubewell water no.4 sample was collected by us on 23/05/2019

SAMPLING DATE : 23/05/2019

SAMPLE QTY. : 4 LTR.

| S.No. | Parameter | Units | Result | Acceptable Limits (as per IS:10500-2012) | Permissible Limits (as per IS:10500-2012) | Test Method | Detection Limits |
|-------|---|-------|------------|--|---|-------------------|------------------|
| 1. | Colour (Max.) | Hazen | Colourless | 5 | 15 | IS:3025 (P-4) | NA |
| 2. | Odour | NA | Agreeable | Agreeable | Agreeable | IS:3025 (P-5) | NA |
| 3. | Taste | NA | Not Done | Agreeable | Agreeable | IS:3025 (P-7 & 8) | NA |
| 4. | Turbidity (Max.) | NTU | <0.1 | 1 | 5 | IS:3025 (P-10) | NA |
| 5. | pH Value | NA | 7.51 | 6.5 to 8.5 | No Relaxation | IS:3025 (P-11) | NA |
| 6. | Total Dissolved Solids (Max.) | mg/L | 432 | 500 | 2000 | IS:3025 (P-16) | NA |
| 7. | Total Hardness (as CaCO ₃) (Max.) | mg/L | 196 | 200 | 600 | IS:3025 (P-21) | NA |
| 8. | Calcium (as Ca) (Max.) | mg/L | 54 | 75 | 200 | IS:3025 (P-40) | NA |
| 9. | Magnesium (as Mg) (Max.) | mg/L | 15 | 30 | 100 | IS:3025 (P-46) | NA |
| 10. | Chloride (as Cl) (Max.) | mg/L | 117 | 250 | 1000 | IS:3025 (P-32) | NA |
| 11. | Sulphate (as SO ₄) (Max.) | mg/L | 24 | 200 | 400 | IS:3025 (P-24) | NA |
| 12. | Iron (as Fe) (Max.) | mg/L | BDL | 0.3 | 1.0 | IS:3025 (P-2) | 0.01 |
| 13. | Free residual chlorine (as Cl ₂) (Min.) | mg/L | BDL | 0.2 | 1.0 | IS:3025 (P-26) | 0.1 |
| 14. | Copper (as Cu) (Max.) | mg/L | BDL | 0.05 | 1.5 | IS:3025 (P-2) | 0.01 |
| 15. | Manganese (as Mn) (Max.) | mg/L | BDL | 0.1 | 0.3 | IS:3025 (P-2) | 0.005 |

SAMPLE COLLECTED BY US

DATE : 30/05/2019

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Page : 1 of 4

Rohit

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SIMA



TEST REPORT

PARTY CODE : M/HR/12232

REPORT NO. : SN0525013419

| S.No. | Parameter | Units | Result | Acceptable Limits (as per IS:10500-2012) | Permissible Limits (as per IS:10500-2012) | Test Method | Detection Limits |
|-------|--|------------|--------|--|---|------------------------|------------------|
| 16. | Nitrate (as NO ₃) (Max.) | mg/L | BDL | 45 | No Relaxation | IS:3025 (P-34) | 0.05 |
| 17. | Fluoride (as F) (Max.) | mg/L | BDL | 1.0 | 1.5 | APHA - 4500 F-D | 0.05 |
| 18. | Phenolic Compound (as C ₆ H ₅ OH) (Max.) | mg/L | BDL | 0.001 | 0.002 | IS:3025 (P-43) | 0.0001 |
| 19. | Mercury (as Hg) (Max.) | mg/L | BDL | 0.001 | No Relaxation | IS:3025 (P-2) | 0.0007 |
| 20. | Cadmium (as Cd) (Max.) | mg/L | BDL | 0.003 | No Relaxation | IS:3025 (P-2) | 0.002 |
| 21. | Selenium (as Se) (Max.) | mg/L | BDL | 0.01 | No Relaxation | IS:3025 (P-2) | 0.002 |
| 22. | Arsenic (as As) (Max.) | mg/L | BDL | 0.05 | No Relaxation | IS:3025 (P-2) | 0.005 |
| 23. | Cyanide (as CN) (Max.) | mg/L | BDL | 0.05 | No Relaxation | IS:3025 (P-27) | 0.02 |
| 24. | Lead (as Pb) (Max.) | mg/L | BDL | 0.01 | No Relaxation | IS:3025 (P-2) | 0.002 |
| 25. | Zinc (as Zn) (Max.) | mg/L | BDL | 5.0 | 15 | IS:3025 (P-2) | 0.1 |
| 26. | Anionic Detergents (as MBAS) (Max.) | mg/L | BDL | 0.2 | 1.0 | Annex. 'K' of IS:13428 | 0.1 |
| 27. | Total Alkalinity (as CaCO ₃) (Max.) | mg/L | 242 | 200 | 600 | IS:3025 (P-23) | NA |
| 28. | Aluminium (as Al) (Max.) | mg/L | BDL | 0.03 | 0.2 | IS:3025 (P-2) | 0.005 |
| 29. | Boron (as B) (Max.) | mg/L | BDL | 1.0 | 2.4 | IS:3025 (P-2) | 0.1 |
| 30. | Mineral Oil (Max.) | mg/L | BDL | 0.5 | No Relaxation | CI-5 of (P-39) | 0.1 |
| 31. | Barium (as Ba) (Max.) | mg/L | BDL | 0.7 | No Relaxation | IS:3025 (P-2) | 0.01 |
| 32. | Chloramines (as Cl ₂) (Max.) | mg/L | BDL | 4.0 | No Relaxation | IS:3025 (P-26) | 1.0 |
| 33. | Silver (as Ag) (Max.) | mg/L | BDL | 0.1 | No Relaxation | IS:3025 (P-2) | 0.002 |
| 34. | Sulphide (as H ₂ S) (Max.) | mg/L | BDL | 0.05 | No Relaxation | IS:3025 (P-29) | 0.02 |
| 35. | Molybdenum (as MO) (Max.) | mg/L | BDL | 0.07 | No Relaxation | IS:3025 (P-2) | 0.01 |
| 36. | Nickel (as Ni) (Max.) | mg/L | BDL | 0.02 | No Relaxation | IS:3025 (P-2) | 0.005 |
| 37. | Total Chromium (as Cr) (Max.) | mg/L | BDL | 0.05 | No Relaxation | IS:3025 (P-2) | 0.005 |
| 38. | Ammonia (as Total Ammonia-N) (Max.) | mg/L | BDL | 0.5 | No Relaxation | IS:3025 (P-34) | 0.1 |
| 39. | E.Coli | Per 100 ml | Absent | Shall not be detectable in any | NA | IS:15185 -2016 | NA |

SAMPLE COLLECTED BY US

DATE : 30/05/2019

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7.8 F-01



TEST REPORT

PARTY CODE : M/HR/12232

REPORT NO. : SN0525013419

| S.No. | Parameter | Units | Result | Acceptable Limits (as per IS:10500-2012) | Permissible Limits (as per IS:10500-2012) | Test Method | Detection Limits |
|-------|---|------------|--------|--|---|----------------|------------------|
| 39. | | | | 100 ml sample | | | |
| 40. | Total Coliform | Per 100 ml | Absent | Shall not be detectable in any 100 ml sample | NA | IS:15185 -2016 | NA |
| 41. | Polynuclear Aromatic Hydrocarbons (as PAH) (Max.) | mg/L | BDL | 0.0001 | No Relaxation | APHA 6440 | 0.00008 |
| 42. | Polychlorinated Biphenyls (Max.) | mg/L | BDL | 0.0005 | No Relaxation | ASTM 5175 | 0.00008 |
| 43. | Alachlor | ug/L | BDL | 20 | NA | USEPA 525.2 | 0.01 |
| 44. | Atrazine | ug/L | BDL | 2.0 | NA | USEPA 525.2 | 0.01 |
| 45. | Aldrin | ug/L | BDL | 0.03 | NA | USEPA 508 | 0.01 |
| 46. | Dieldrin | ug/L | BDL | 0.03 | NA | USEPA 508 | 0.01 |
| 47. | Alpha HCH | ug/L | BDL | 0.01 | NA | USEPA 508 | 0.01 |
| 48. | Beta HCH | ug/L | BDL | 0.04 | NA | USEPA 508 | 0.01 |
| 49. | Gamma-HCH (Lindane) | ug/L | BDL | 2.0 | NA | USEPA 508 | 0.01 |
| 50. | Delta HCH | ug/L | BDL | 0.04 | NA | USEPA 508 | 0.01 |
| 51. | Butachlor | ug/L | BDL | 125 | NA | USEPA 525.2 | 0.01 |
| 52. | Chlorpyrifos | ug/L | BDL | 30 | NA | USEPA 525.2 | 0.01 |
| 53. | 2,4-Dichlorophenoxy Acetic Acid | ug/L | BDL | 30 | NA | USEPA 525.2 | 0.01 |
| 54. | 2,4, DDT | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 55. | 4,4 DDT | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 56. | 2,4 DDD | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 57. | 4,4 DDD | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 58. | 2,4 DDE | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 59. | 4,4 DDE | ug/L | BDL | 1.0 | NA | USEPA 508 | 0.01 |
| 60. | Endosulfan | ug/L | BDL | 0.4 | NA | USEPA 508 | 0.01 |
| 61. | Endosulfan-I | ug/L | BDL | 0.4 | NA | USEPA 508 | 0.01 |
| 62. | Endosulfan-II | ug/L | BDL | 0.4 | NA | USEPA 508 | 0.01 |

SAMPLE COLLECTED BY US

DATE : 30/05/2019

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**TEST REPORT**

PARTY CODE : M/HR/12232

REPORT NO. : SN0525013419

| S.No. | Parameter | Units | Result | Acceptable Limits (as per IS:10500-2012) | Permissible Limits (as per IS:10500-2012) | Test Method | Detection Limits |
|-------|-----------------------------|-------|--------|--|---|-------------|------------------|
| 63. | Ethion | ug/L | BDL | 3.0 | NA | USEPA 1657A | 0.01 |
| 64. | Isoproturon | ug/L | BDL | 9.0 | NA | USEPA 532 | 0.01 |
| 65. | Malathion | ug/L | BDL | 190 | NA | USEPA 8141A | 0.01 |
| 66. | Methyl Parathion | ug/L | BDL | 0.3 | NA | USEPA 8141A | 0.01 |
| 67. | Monocrophos | ug/L | BDL | 1.0 | NA | USEPA 8141A | 0.01 |
| 68. | Phorate | ug/L | BDL | 2.0 | NA | USEPA 8141A | 0.01 |
| 69. | Trihalomethanes | | -- | | | | |
| 70. | Bromoform (Max.) | ug/L | BDL | 0.1 | NA | APHA 6232 | 0.05 |
| 71. | Dibromochloromethan (Max.) | ug/L | BDL | 0.1 | NA | APHA 6232 | 0.05 |
| 72. | Bromodichloromethane (Max.) | ug/L | BDL | 0.06 | NA | APHA 6232 | 0.05 |
| 73. | Chloroform (Max.) | ug/L | BDL | 0.2 | NA | APHA 6232 | 0.05 |

NA-Not Applicable, BDL-Below Detection Limit

Date of performance : 25/05/2019 to 30/05/2019

Note- Taste not Done due to suspended particles present in sample.

SAMPLE COLLECTED BY US

DATE : 30/05/2019


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Page : 4 of 4

Robit

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TEST REPORT

PARTY CODE : M/HR/12232

MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0525007919

REF. NO. : NS

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
 HARYANA

REF. DATE : NS

DT.RECD : 25/05/2019



SAMPLE NAME : NOISE MONITORING

| RESULTS OF ANALYSIS | | | |
|--|--|--------------------------|--------------------------------|
| Reference : IS:11446 & 4758 / EP Act Standards | | | |
| Description | : NGDG (6 MW) noise level from different points of M/s MARUTI SUZUKI INDIA LIMITED was monitored by us on 21/05/2019 | | |
| S.No. | Location of Sampling Point | Avg. Instant Value dB(A) | Permissible Limit dB(A) (Max.) |
| 1. | When NGDG Set was kept Off :- | | - |
| (i). | Background Noise Level Outside The Gate | 65.8 | - |
| 2. | When NGDG Set Was in Operation | - | - |
| (i). | Inside NGDG Acoustic Room at 0.5 meter Distance Away From Engine of G.T Set | 104.5 | Minimum Loss of Insertion 25.0 |
| (ii). | Outside NGDG Acoustic Room at 0.5 meter Distance Away From Gate | 72.3 | <75.0 |
| 3. | Insertion Loss at 0.5 meter | 32.2 | " |

Date of performance : 25/05/2019 to 25/05/2019

DATE : 25/05/2019

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Rohit

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**TEST REPORT**

PARTY CODE : M/HR/12232

MARUTI SUZUKI INDIA LIMITED

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
HARYANA

REPORT NO. : SN0525008319

REF. NO. : NS

REF. DATE : NS

DT.RECD : 25/05/2019

SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

| | |
|--|--|
| Description | : One stack emission sample was collected by us on 20/05/2019 between 03:45 PM to 04:15 PM |
| Name of Industry | : MARUTI SUZUKI INDIA LIMITED |
| Name of plant & Section | : NGDG section |
| Emission Source Monitored | : NGDG stack |
| Type of Fuel Used | : Natural gas |
| Stack Identification | : NGDG stack (6 MW) |
| Normal Operating Schedule (Hrs/day) | : As & when required |
| Location of sampling Point | : As per norms |
| Type of Chimney (ACC/Metal) | : Mild steel |
| Stack Height (Meters) | |
| a. From source of Emission | : - |
| b. From Roof Level | : - |
| c. From Ground Level | : 70 |
| Diameter of stack (cm) | : 111.4 |
| Sampling Duration (minutes) | : 30 |
| Parameters Monitored | : PM, NOX, CO & NMHC |
| Purpose of Monitoring | : Assessment of pollution load |
| Products Manufactured | : Integrated automobile Mfg. |
| Control measures (if any) | : Nil |
| Recovery of Material (if any) | : Nil |
| General Sensory observations | : Normal |
| Fugitive Emissions (if any) | : Nil |
| Stack Temperature (°C) | : 310 |
| Ambient Temperature (°C) | : 40 |
| Quantity of Emission (Nm ³ /Hr) | : 37424 |

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols |
|-------|--|--------------------|------------------------------------|---------------|----------------|
| 1. | Particulate Matter | mg/Nm ³ | 22.4(at 15% O ₂ Corr.) | 75 | IS:11255 (P-1) |
| 2. | Nitrogen Oxides (as NO _x) | ppm | 36.4 (at 15% O ₂ Corr.) | 50 | IS:11255 (P-7) |
| 3. | Carbon Monoxide (as CO) | ppm | 27.0 (at 15% O ₂ Corr.) | 150 | IS:5182 (P-10) |

SAMPLE COLLECTED BY US

DATE : 28/05/2019

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TEST REPORT

PARTY CODE : M/HR/12232

REPORT NO. : SN0525008319

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols |
|-------|--------------------------|-------|------------------------------------|---------------|--|
| 4. | Non Methane Hydrocarbons | ppm | 16.3 (at 15% O ₂ Corr.) | 100 | Methods of Air sampling & analysis-101 |



Date of performance : 25/05/2019 to 28/05/2019

SAMPLE COLLECTED BY US

DATE : 28/05/2019

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TEST REPORT

 PARTY CODE : M/HR/12232
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0816001619

REF. NO. : NS

 OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
HARYANA

REF. DATE : NS

DT.RECD : 16/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

| | | |
|--------------------------------|---|--|
| Description | : | One ambient air sample was collected by us from 09/08/2019 to 10/08/2019 |
| Name of Industry | : | MARUTI SUZUKI INDIA LIMITED |
| Location of the Sampling Point | : | D.M Plant |
| Date of Sampling | : | 09/08/2019 To 10/08/2019 |
| Sampling started at | : | 11:10 AM (Dt. 09/08/2019) |
| Sampling completed at | : | 11:10 AM (Dt. 10/08/2019) |
| Actual time of sampling | : | 1440 Minutes |
| Flow rate of sampling | : | 1.295 m ³ / Minute |
| Total volume of air sampled | : | 1865 m ³ (For PM-10) & 23.994 m ³ (For PM-2.5) |
| Ambient temperature (°C) | : | 34 |

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-----------------------------------|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 94.2 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 52.9 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO2) | µg/m ³ | 31.2 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO2) | µg/m ³ | 20.2 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.112 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C6H6) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH3) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O3) (8 hours) | µg/m ³ | 23.9 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 20/08/2019

AUTHORISED SIGNATORY

| | | |
|---------|---|---------------|
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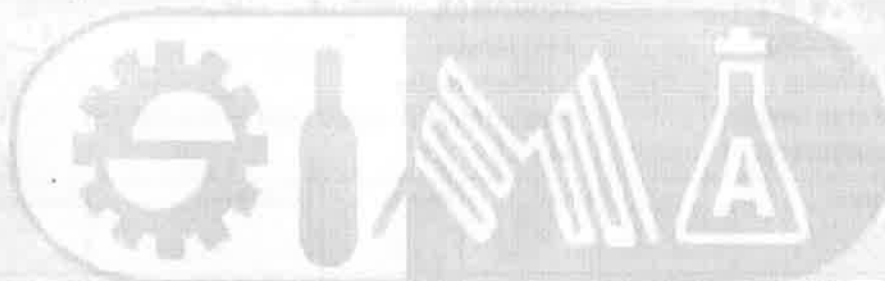
7.8 F-01

TEST REPORT

PARTY CODE : M/HR/12232

REPORT NO. : SN0816001619

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-------------------------|--------------------------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | $\mu\text{g}/\text{m}^3$ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 10. | Arsenic (as As) | ng/m^3 | BDL | 6 | Methods of Air sampling & Analysis-822 | 0.05 |
| 11. | Nickel (as Ni) | ng/m^3 | BDL | 20 | Methods of Air sampling & Analysis-822 | 0.05 |
| 12. | Benzo (a) Pyrene (Bap) | ng/m^3 | BDL | 1.0 | USEPA 8270-C | 0.1 |
| 13. | Non-Methane Hydrocarbon | ppm | BDL | NA | Methods of Air sampling & Analysis-101 | 0.05 |



Date of performance : 16/08/2019 to 20/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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TEST REPORT

PARTY CODE : M/HR/12232
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0816001719
REF. NO. : NS

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
HARYANA

REF. DATE : NS
DT.RECD : 16/08/2019

SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 09/08/2019 to 10/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point : STP Plant
Date of Sampling : 09/08/2019 To 10/08/2019
Sampling started at : 12:20 PM (Dt. 09/08/2019)
Sampling completed at : 12:20 PM (Dt. 10/08/2019)
Actual time of sampling : 1440 Minutes
Flow rate of sampling : 1.25 m³ / Minute
Total volume of air sampled : 1800 m³ (For PM-10) & 23.988 m³ (For PM-2.5)
Ambient temperature (°C) : 34

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-----------------------------------|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 91.7 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 49.6 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO2) | µg/m ³ | 30.7 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO2) | µg/m ³ | 18.4 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.094 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C6H6) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH3) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O3) (8 hours) | µg/m ³ | 23.5 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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**TEST REPORT**

PARTY CODE : M/HR/12232

REPORT NO. : SN0816001719

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 | Methods of Air sampling & Analysis-101 | 0.05 |



Date of performance : 16/08/2019 to 20/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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| | | | |
|--|----------------|---|---------------|
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TEST REPORT

PARTY CODE : M/HR/12232
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0816001819

REF. NO. : NS

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
HARYANA

REF. DATE : NS

DT.RECD : 16/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 12/08/2019 to 13/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point : Machine shop - 1/2
Date of Sampling : 12/08/2019 To 13/08/2019
Sampling started at : 02:15 PM (Dt. 12/08/2019)
Sampling completed at : 02:15 PM (Dt. 13/08/2019)
Actual time of sampling : 1440 Minutes
Flow rate of sampling : 1.25 m³ / Minute
Total volume of air sampled : 1800 m³ (For PM-10) & 23.991 m³ (For PM-2.5)
Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 91.0 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 52.9 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 30.2 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.4 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.088 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 23.2 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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Page : 1 of 2

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TEST REPORT

PARTY CODE : M/HR/12232

REPORT NO. : SN0816001819

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 | Methods of Air sampling & Analysis-101 | 0.05 |



Date of performance : 16/08/2019 to 20/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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TEST REPORT

PARTY CODE : M/HR/12232
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0816001919

REF. NO. : NS

OLD PALAM, GURGAON ROAD, GURUGRAM-122015,
HARYANA

REF. DATE : NS

DT.RECD : 16/08/2019

SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 12/08/2019 to 13/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point : Near sewage pump house
Date of Sampling : 12/08/2019 To 13/08/2019
Sampling started at : 03:00 PM (Dt. 12/08/2019)
Sampling completed at : 03:00 PM (Dt. 13/08/2019)
Actual time of sampling : 1440 Minutes
Flow rate of sampling : 1.225 m³ / Minute
Total volume of air sampled : 1764 m³ (For PM-10) & 23.993 m³ (For PM-2.5)
Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-----------------------------------|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 90.0 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 51.3 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO2) | µg/m ³ | 29.5 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO2) | µg/m ³ | 18.9 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.075 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C6H6) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH3) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O3) (8 hours) | µg/m ³ | 22.8 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 20/08/2019

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TEST REPORT



PARTY CODE : M/HR/12232

REPORT NO. : SN0816001919

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 | Methods of Air sampling & Analysis-101 | 0.05 |



Date of performance : 16/08/2019 to 20/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

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A brief report on the CSR (2018-19) by Maruti Suzuki in Gurgaon

Skill Development

- A. Learning level improvement activities in 11 government schools of 05 villages.
- B. Vocational Training in 02 Industrial Training Institutes, Govt. ITI Gurugram and Govt. Women ITI, Gurugram.
- C. Development of Automobile Skill Enhancement Center (ASEC) in Govt. ITI Gurugram.

A. Learning Level Improvement:

Total 11 Government schools have been upgraded in FY18-19. 26 teachers have been deployed by Maruti Suzuki to support the studies at these 11 schools. The details of the schools upgraded in 2018 -19 in the villages as follows:

- Chauma
- Carterpuri
- Sarhaul
- Dundaheda
- Molaheda

The Company works in these schools through direct intervention. As part of ongoing activities under school up gradation project, the Company is working on below areas. Maintenance work is always undertaken on below activities in the schools supported by the Company.

| S. No. | Activities |
|--------|--------------------------------------|
| 1 | Construction of Toilet blocks |
| 2 | Development of playgrounds |
| 3 | Repair and maintenance of amenities. |
| 4 | Building repair and white washing |

An NGO named Haryali maintains the green areas in the supported schools. Regular sweepers are also provided for cleaning of these schools and to make sure that the toilets constructed by the company are clean.

The implementations of all projects are undertaken in partnership with school authorities & Government education department officials along with guidance of Senior Management of Maruti Suzuki India Limited.

The Company has also provided over 40 teachers for Haryana schools to cater the shortage of Government teachers. These Teachers are helping students with subjects like Mathematics, Science and English.

B. Vocational Training & ASEC:

Maruti Suzuki is supporting 114 ITIs in 26 states of India. In Gurgaon 2 Government ITI are adopted. The focuses in these ITI are on four broad developmental areas which are:

- Faculty development
- Student development
- Infrastructure development
- Industry connect

The students were trained on 5S, Safety, advanced automobile, personality development & Interview skills, etc. Faculties were imparted Tier -1 and Tier -2 trainings which aim at behavioral skills, motivational skills, PDCA & Problem Solving, Team work etc.

C. Development of Automobile Skill Enhancement Center (ASEC)

The Company's experience of upgrading ITI has opened various avenues of improvement in quality of vocational training, introduced industrial culture, have re-enforced positivity, openness and exposed the institutes to new technology. The company has also started specialized training programme and country's first Auto Body Repair and Auto Body Paint courses under its state-of-the-art facilities provided in its Automobile Skill Enhancement Centers (ASEC). ASEC has also been setup in Gurgaon ITI.

Apart from these courses, the Company offers on job training for the students in its dealer workshops which are spread across the nation. The Company aims to equip these centers for offering relevant skills to the students and make them job ready.


Community Development

Maruti Suzuki has adopted 26 villages in Haryana & Gujarat. In Gurgaon 05 villages are adopted.

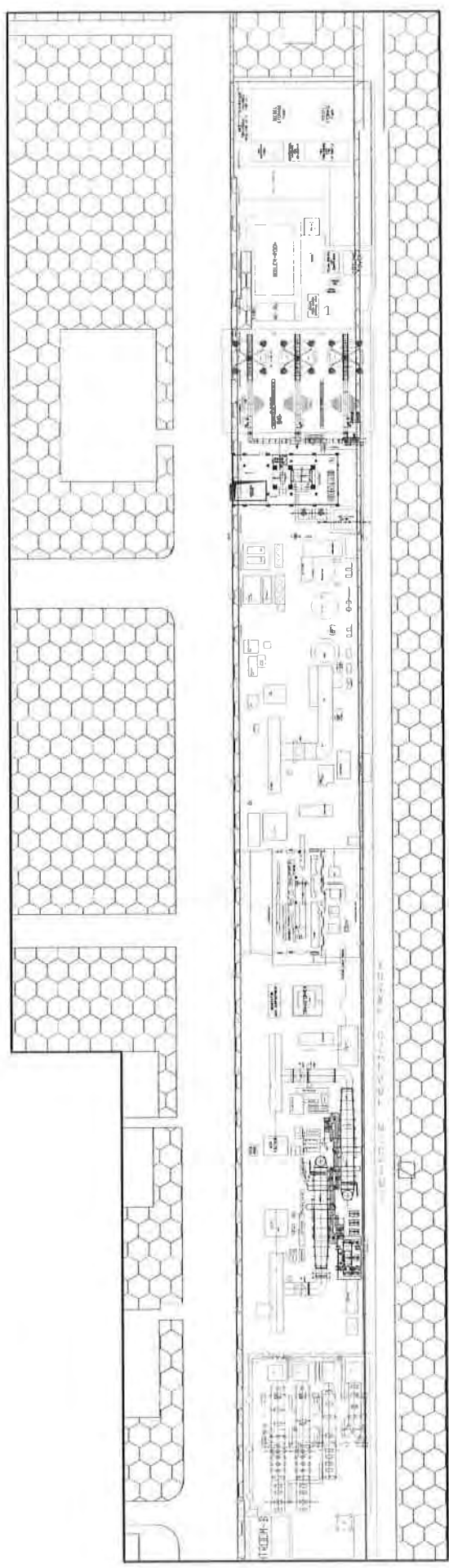
The major focus is on the following areas:

1. Water
2. Sanitation
3. Health
4. Common community assets

In 2018-19, the Company has spent Rs. 86,500,000 (approx) to undertake CSR activities in Gurgaon.



Green Area Plan



GA

TIMES OF INDIA

PUBLIC NOTICE

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

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

Date: 10th June, 2011.

Maruti Suzuki India Limited

AMAR UJALA

सूचना

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

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

दिनांक: 10 जून, 2011

मारुति सुजुकी इंडिया लिमिटेड

2

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

No. SEIAA/HR/2012 *237 A*

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

To

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

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

Dear Sir,

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

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

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

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


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

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

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

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

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



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

Endst. No. SEIAA/HR/2011


 Dated:.....

A copy of the above is forwarded to the following:

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


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

MSIL:CUIP:ESEC:ENV:19-20:055

30-Oct-2019

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

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

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

Dear Sir,

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

Thanking You.

Yours Faithfully



MADAN BANSODE
DGM (ENVIRONMENT)
MARUTI SUZUKI INDIA LTD.

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

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

MARUTI SUZUKI INDIA LIMITED

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

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

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

MARUTI SUZUKI INDIA LIMITED, GURGAON, HARYANA

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

| S. No. | Clearance Conditions | Compliance Status |
|--------|---|--|
| 1 | No additional land shall be acquired. | The project will be located within Maruti Suzuki India Limited premises at IMT Manesar and the power plant will be set within 9440 sq.m area. |
| 2 | NOC from BARC shall be obtained prior to start of construction of the project due to the proximity of the project to BARC observatory. | NOC obtained from BARC is placed at Annexure-1. |
| 3 | Gas shall only be used as fuel, however, HSD may be used as standby fuel for not more than 30 days in a year when gas is not available. | Natural gas supply has commenced at Manesar plant |
| 4 | Dry Low NO _x burners shall be provided and it shall be ensured that NO _x emission from the stack is less than 100 ppm. | NO _x emissions are less than 100 ppm. The stack monitoring report are placed at Annexure-2. |
| 5 | The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever 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 within the plant area, No effluents shall be discharged outside the plant boundary. | The treated effluents conform to the prescribed standards and are reused for the process requirements after recycling. Report is placed at Annexure-3. |
| 9 | Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with central Ground water Authority and a copy of the same shall be submitted within three months to the SEIAA. Care shall be taken to avoid contamination of ground water through RWH pit. | The location of the lagoon is attached in Annexure-4. |
| 10 | Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices shall be provided. | Gas Turbines are provided with the acoustic enclosure to limit the noise level within 75 dBA at plant boundary. The persons working in high noise areas are provided with the personal protection devices. |
| 11 | A greenbelt shall be developed around the plant boundary with tree density of around 2500 trees per ha. The area under greenbelt shall be at least 1/3 rd of the total area. | Details of Green Belt are placed at Annex: 4 |
| 12 | First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase. | First aid and necessary sanitation arrangement has been made available for the drivers and other contract workers during construction phase. |

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

| Conditions imposed by MoEFCC for expansion project in addition to conditions in original project | | |
|--|---|---|
| 20 | The project proponent shall take adequate preparation for fire and other kind of disaster including chemical disaster. On-site and Off-site emergency plan should be rehearsed through regular mock drills. | Complied. |
| 21 | The project proponent shall initiate a long term study through a reputed institution to assess the cumulative impact of the power plants on the AAQ of the area. The study shall in particular assess the impact of emission of the gas power plant on the chemistry of upper atmosphere and the impact on radiation budget. It shall be ensured that the study takes into account the worst seasonal atmospheric conditions. | The study report is placed at 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. | 223 KL HSD was used in existing captive power plants in 2019-20 (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
DATA SHEET

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

| | | |
|-----|---|--|
| 9. | Financial details: a) Project cost as originally planned and subsequent revised estimates and the year of price reference. b) Allocations made for environmental management plans with item wise and year wise breakup. c) Benefit cost ratio /internal Rate of Return and the year of assessment. d) Whether (c) includes the cost of environmental management as shown in b) above. e) Actual expenditure incurred on the project so far. f) Actual expenditure incurred on the environment management plans so far. | Project Cost: Rs. 314 Crores Rs. 3.7 Crores - - Rs. 324 Crores (approx.) 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. c) The status of compensatory afforestation if any. d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far. | Not Applicable |
| 11. | The Status of clear felling in the non-forest areas (Such as submergence area of non reservoir, approach road) if any, with quantitative information. | Not Applicable |
| 12. | Status of Construction: a) Date of Commencement (actual and /or planned) b) Date of completion (actual and /or planned) | 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 SO₂ emissions will further go down

Noise Pollution Control

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

Ground Water

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

Green belt development

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



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



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केंद्र
BHABHA ATOMIC RESEARCH CENTRE

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

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

Ref: 14/8/91/Admn-I / 328

April 16, 2008

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

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

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

Sir,

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

Thanking You,

Yours faithfully,

N. D. Sharma

(N. D. Sharma)
Controller

16/04/08

संचार अनुभाग / Communication Section
फैक्स परिपत्र / Fax Transmission

संदेश संख्या / Message No. 6072
दिनांक 29/3/08
Transmitted on..... at..... hrs.

**SIMA LABS PVT. LTD.****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

ISO 9001:2015 • ISO 14001:2015 • OHSAS 18001:2007 • NABL ACCREDITED • FSSAI, AGMARK, BIS, AYUSH & MoEF RECOGNISED

7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0805003219

REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Description : One stack emission sample was collected by us on 01/08/2019 between 12:10 PM to 12:40 PM

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Name of plant & Section : Gas turbine section

Emission Source Monitored : Gas turbine stack

Type of Fuel Used : Natural gas

Stack Identification : Gas turbine stack no. 9 (20 M.W.)

Normal Operating Schedule (Hrs/day) : Double shift

Location of sampling Point : As per norms

Type of Chimney (ACC/Metal) : Mild steel

Stack Height (Meters)

a. From source of Emission : -

b. From Roof Level : -

c. From Ground Level : 30

Diameter of stack (cm) : 300

Sampling Duration (minutes) : 30

Parameters Monitored : PM, NOx, SO₂, CO, CO₂ & HC

Purpose of Monitoring : Assessment of pollution load

Products Manufactured : Integrated Automobile Mfg.

Control measures (if any) : Nil

Recovery of Material (if any) : Nil

General Sensory observations : Normal

Fugitive Emissions (if any) : Nil

Stack Temperature (°C) : 429

Ambient Temperature (°C) : 33

Quantity of Emission (Nm³/Hr) : 335578

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--|--------------------|---------|---------------|----------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 34.2 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NOx) | ppm | 47.5 | 100 | IS:11255 (P-7) | NA |
| 3. | Sulphur Dioxide (as SO ₂) | ppm | BDL | NA | IS:11255 (P-2) | 1.0 |
| 4. | Carbon Monoxide (as CO) | ppm | 22.7 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 18.7 | NA | Methods of Air | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

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HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIDCUL, Haridwar - 249403
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Email : bmlab@simalab.com

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TEST REPORT

7.8 F-01



PARTY CODE : M/HR/12131

REPORT NO. : SN0805003219

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|-------------------------|-----------------|
| 5. | | | | | sampling & analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 5.4 | NA | IS:13270 | NA |



Date of performance : 05/08/2019 to 09/08/2019

NA-Not Applicable,BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 09/08/2019

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Page : 2 of 2

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7.8 F-01



TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REPORT NO : SN0805003719
 REF. NO. : NS

REF. DATE : NS
 DT.RECD : 05/08/2019



SAMPLE NAME : EFFLUENT WATER (ETP-OUTLET)

RESULTS OF ANALYSIS

Reference : EP Act Standard

DESCRIPTION : One effluent water sample from outlet of ETP was collected by us on 03/08/2019

SAMPLING DATE : 03/08/2019

SAMPLE QTY. : 1 LTR.

| S.No. | Parameters | Units | Results | Limit (Max.) | Protocols | Detection Limit |
|-------|--|-------|------------|--------------|----------------|-----------------|
| 1. | pH | NA | 7.41 | 5.5 to 9.0 | IS:3025 (P-11) | NA |
| 2. | Total Suspended Solids | mg/L | <5 | 100 | IS:3025 (P-17) | NA |
| 3. | Chemical Oxygen Demand | mg/L | 24 | 250 | IS:3025 (P-58) | NA |
| 4. | Biochemical Oxygen Demand (for 3 days at 27 Deg C) | mg/L | <5 | 30 | IS:3025 (P-44) | NA |
| 5. | Oil & Grease | mg/L | <3 | 10 | IS:3025 (P-39) | NA |
| 6. | Sulphide (as S) | mg/L | BDL | 2.0 | IS:3025 (P-29) | 1.0 |
| 7. | Hexavalent Chromium (as Cr+6) | mg/L | BDL | 0.10 | IS:3025 (P-52) | 0.01 |
| 8. | Phenolic Compound (as C6H5OH) | mg/L | BDL | 1.0 | IS:3025 (P-43) | 0.02 |
| 9. | Cyanide (as CN) | mg/L | BDL | 0.20 | APHA-4500 CN-E | 0.02 |
| 10. | Mercury (as Hg) | mg/L | BDL | 0.01 | IS:3025 (P-2) | 0.007 |
| 11. | Lead (as Pb) | mg/L | BDL | 0.10 | IS:3025 (P-2) | 0.05 |
| 12. | Arsenic (as As) | mg/L | BDL | 0.20 | IS:3025 (P-2) | |
| 13. | Colour | NA | Colourless | NA | IS:3025 (P-4) | NA |
| 14. | Odour | NA | Odourless | NA | IS:3025 (P-5) | NA |
| 15. | Nitrate Nitrogen (as NO3-N) | mg/L | 0.44 | 10 | IS:3025 (P-34) | NA |

SAMPLE COLLECTED BY US

DATE : 10/08/2019

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TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805003719

| S.No. | Parameters | Units | Results | Limit (Max.) | Protocols | Detection Limit |
|-------|---|-------|-------------------|--------------|----------------------|-----------------|
| 16. | Ammonical Nitrogen (as NH ₃ -N) | mg/L | 3.7 | 50 | IS:3025 (P-34) | NA |
| 17. | Dissolved Phosphate (as P) | mg/L | 2.9 | 5.0 | IS:3025 (P-31) | NA |
| 18. | Manganese (as Mn) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.05 |
| 19. | Fluorides (as F) | mg/L | BDL | 2.0 | APHA-4500 F-D | 0.05 |
| 20. | Temp. | °C | 24.8 | NA | IS:3025 (P-9) | NA |
| 21. | Particle Size | µm | DV(10) 22.916 | NA | By Particle Analyzer | NA |
| 22. | Particle Size | µm | DV(50) 77.815 | NA | By Particle Analyzer | NA |
| 23. | Particle Size | µm | DV(90) 197.694 | NA | By Particle Analyzer | NA |
| 24. | Total Kjeldahl Nitrogen | mg/L | 6.0 | 100 | IS:3025 (P-34) | NA |
| 25. | Nickle (as Ni) | mg/L | 0.43 | 3.0 | IS:3025 (P-2) | NA |
| 26. | Zinc (as Zn) | mg/L | 0.19 | 5.0 | IS:3025 (P-2) | NA |
| 27. | Cadmium (as Cd) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.01 |
| 28. | Copper (as Cu) | mg/L | BDL | 3.0 | IS:3025 (P-2) | 0.05 |
| 29. | Total Chromium (as Cr) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.005 |
| 30. | Total Residual Chlorine (as Cl ₂) | mg/L | BDL | 1.0 | IS:3025 (P-26) | 1.0 |
| 31. | Iron (as Fe) | mg/L | BDL | 3.0 | IS:3025 (P-2) | 0.05 |
| 32. | Selenium (as Se) | mg/L | BDL | 0.05 | IS:3025 (P-2) | 0.005 |
| 33. | Free Ammonia | mg/L | BDL | 5.0 | IS:3025 (P-2) | 0.5 |
| 34. | Vanadium (as V) | mg/L | BDL | 0.2 mg/L | IS:3025 (P-2) | 0.05 |

Date of performance : 05/08/2019 to 10/08/2019

NA - Not Applicable BDL - Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 10/08/2019

[Signature]
AUTHORISED SIGNATORY

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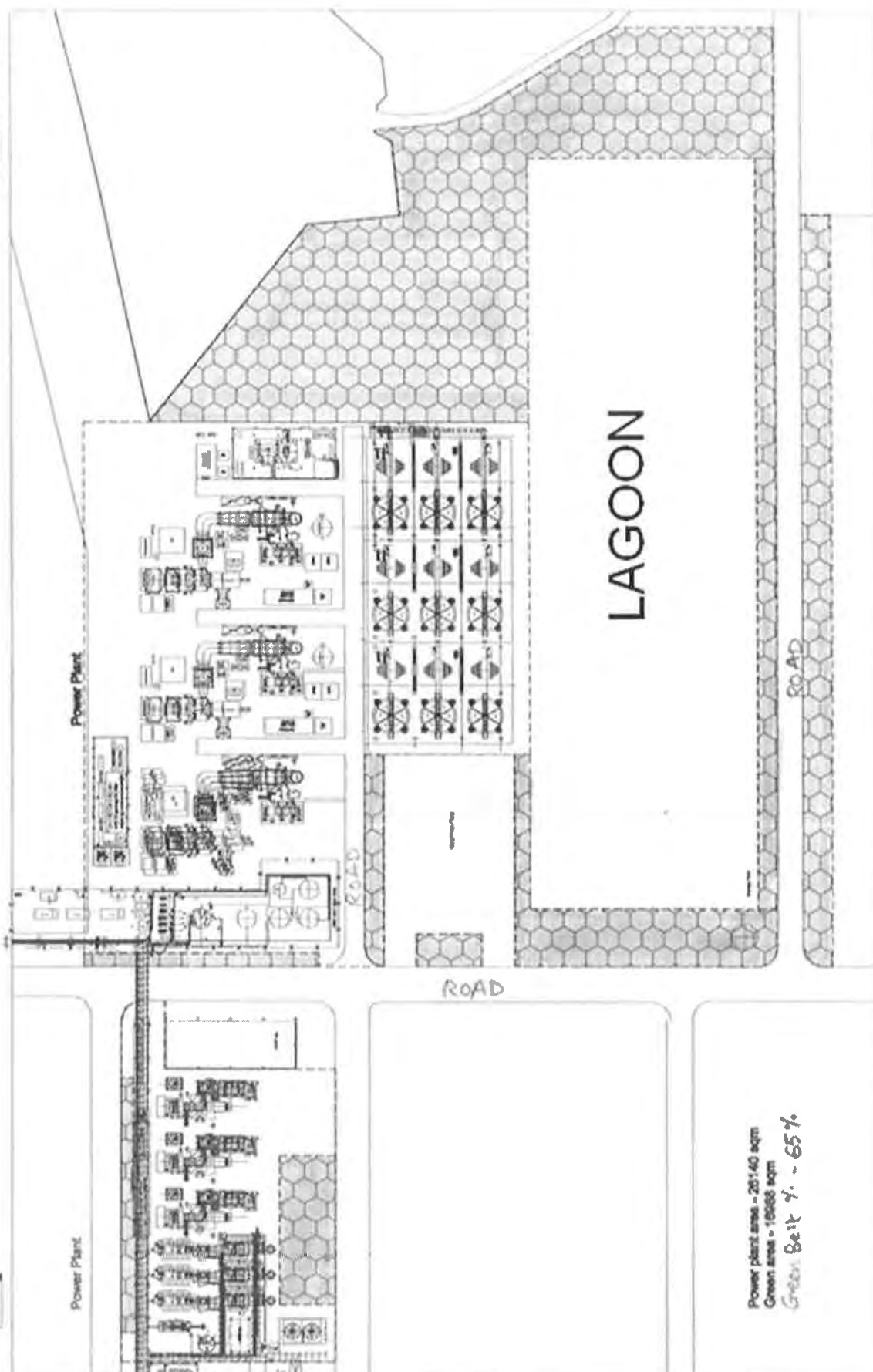
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Annexure 4

GREEN AREA AND RWH

NORTH



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7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REPORT NO. : SN0805002419

REF. NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 31/07/2019 to 01/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near material gate
 Date of Sampling : 31/07/2019 To 01/08/2019
 Sampling started at : 10:30 AM (Dt. 31/07/2019)
 Sampling completed at : 10:30 AM (Dt. 01/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.25 m³ / Minute
 Total volume of air sampled : 1800 m³ (For PM-10) & 23.992 m³ (For PM-2.5)
 Ambient temperature (°C) : 34

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 93.0 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 52.1 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 28.5 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.2 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.125 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 22.7 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 08/08/2019

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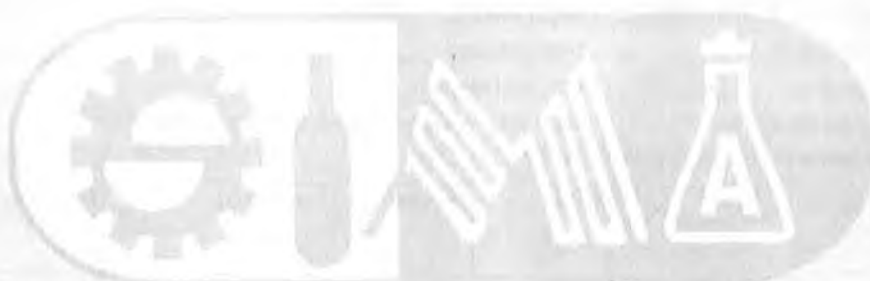
7.8 F-01

TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002419

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



Date of performance : 05/08/2019 to 08/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 08/08/2019

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| | | |
|----------------|---|---------------|
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TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0805002519
 REF. NO : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
 DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 31/07/2019 to 01/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near Incinerator
 Date of Sampling : 31/07/2019 To 01/08/2019
 Sampling started at : 10:50 AM (Dt. 31/07/2019)
 Sampling completed at : 10:50 AM (Dt. 01/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.275 m³ / Minute
 Total volume of air sampled : 1836 m³ (For PM-10) & 23.996 m³ (For PM-2.5)
 Ambient temperature (°C) : 34

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 90.1 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 51.3 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 27.7 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 18.6 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.112 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 22.4 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 08/08/2019

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**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002519

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 |



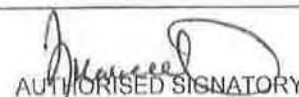
Date of performance : 05/08/2019 to 08/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 08/08/2019


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7.8 F-01

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

REPORT NO. : SN0805002619

REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 01/08/2019 to 02/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near Gate No. 1
 Date of Sampling : 01/08/2019 To 02/08/2019
 Sampling started at : 11:00 AM (Dt. 01/08/2019)
 Sampling completed at : 11:00 AM (Dt. 02/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.24m³/Minute
 Total volume of air sampled : 1786m³ (for PM 10) & 24.019m³ (for PM 2.5)
 Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 93.7 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 53.7 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 28.6 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.2 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.126 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 24.8 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

REMARKS

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7.8 F-01

TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002619

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



Date of performance : 05/08/2019 to 09/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 09/08/2019


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TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REPORT NO : SN0805002719

REF. NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 01/08/2019 to 02/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : SND Gate
 Date of Sampling : 01/08/2019 To 02/08/2019
 Sampling started at : 11:20 AM (Dt. 01/08/2019)
 Sampling completed at : 11:20 AM (Dt. 02/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.26m³/Minute
 Total volume of air sampled : 1814m³ (for PM 10) & 23.916m³ (for PM 2.5)
 Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 91.7 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 47.2 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 26.3 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 18.1 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.106 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 24.3 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

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TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002719

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



Date of performance : 05/08/2019 to 09/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

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

REPORT NO. : SN0511012619

REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS

DT.RECD : 11/05/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 08/05/2019 to 09/05/2019

Name of Industry : **MARUTI SUZUKI INDIA LIMITED**
 Location of the Sampling Point : Near material gate
 Date of Sampling : 08/05/2019 To 09/05/2019
 Sampling started at : 12:00 PM (Dt. 08/05/2019)
 Sampling completed at : 12:00 PM (Dt. 09/05/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.275 m³ / Minute
 Total volume of air sampled : 1836 m³ (For PM-10) & 23.996 m³ (For PM-2.5)
 Ambient temperature (°C) : 40

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 95.1 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 54.6 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 32.3 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 20.8 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.293 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 25.4 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 15/05/2019

 AUTHORISED SIGNATORY

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Page : 1 of 2

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TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0511012619

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 : 11/05/2019 to 15/05/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 15/05/2019


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TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0511012719
 REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
 DT.RECD : 11/05/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 08/05/2019 to 09/05/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : SND Gate
 Date of Sampling : 08/05/2019 To 09/05/2019
 Sampling started at : 12:35 PM (Dt. 08/05/2019)
 Sampling completed at : 12:35 PM (Dt. 09/05/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.325 m³ / Minute
 Total volume of air sampled : 1908 m³ (For PM-10) & 23.991 m³ (For PM-2.5)
 Ambient temperature (°C) : 40

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 87.6 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 46.3 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 28.4 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 17.9 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.123 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 23.9 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 15/05/2019

[Signature]
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7.8 F-01

TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0511012719

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 |



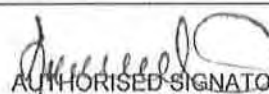
Date of performance : 11/05/2019 to 15/05/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 15/05/2019


AUTHORISED SIGNATORY**REMARKS**

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TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0511012819
 REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
 DT.RECD : 11/05/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 07/05/2019 to 08/05/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near Incinerator
 Date of Sampling : 07/05/2019 To 08/05/2019
 Sampling started at : 10:20 AM (Dt. 07/05/2019)
 Sampling completed at : 10:20 AM (Dt. 08/05/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.3 m³ / Minute
 Total volume of air sampled : 1872 m³ (For PM-10) & 23.98 m³ (For PM-2.5)
 Ambient temperature (°C) : 39

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 90.8 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 49.6 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 30.2 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.5 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.199 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 24.7 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 15/05/2019

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7.8 F-01

TEST REPORT



PARTY CODE : M/HR/12131

REPORT NO. : SN0511012819

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



Date of performance : 11/05/2019 to 15/05/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 15/05/2019

AUTHORISED SIGNATORY

REMARKS

1. Results listed refer only to the tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.
3. This Report is not to be reproduced wholly or in part and cannot be used as an evidence in the Court of law and should not be used in any advertising media without special permission in writing.
4. Sample shall be disposed off after issue of Test Report unless specified.
5. A complaint register is available with the laboratory.

Rohit

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E. SIDCUL, Haridwar - 249403
Plot No. 107/11/2, 2, 107/20, Udhvoo Nagar Indl Area, Mundka
New Delhi-110041

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

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

THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM

SIMA



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

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7.8 F-01



TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0511012919

REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS

DT.RECD : 11/05/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 07/05/2019 to 08/05/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near gate no.1
 Date of Sampling : 07/05/2019 To 08/05/2019
 Sampling started at : 11:00 AM (Dt. 07/05/2019)
 Sampling completed at : 11:00 AM (Dt. 08/05/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.25 m³ / Minute
 Total volume of air sampled : 1800 m³ (For PM-10) & 24.02 m³ (For PM-2.5)
 Ambient temperature (°C) : 39

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-----------------------------------|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 93.0 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 51.2 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO2) | µg/m ³ | 31.6 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO2) | µg/m ³ | 19.7 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.251 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C6H6) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH3) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O3) (8 hours) | µg/m ³ | 24.9 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 15/05/2019

AUTHORISED SIGNATORY

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Rohit

Page: 1 of 2

**SIMA LABS PVT. LTD.****Sophisticated Industrial Materials
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7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0511012919

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 : 11/05/2019 to 15/05/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 15/05/2019

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Rohit

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E. SIDCUL, Haridwar - 249403

BUILDING MATERIAL LAB : Plot No. 107/14/2, 2107/20, Udhayog Nagar Indl Area, Mundla

New Delhi-110041

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

Phone : +(91)-01198-28884

Email : simaharidwar@simalab.co.in

Email : hmlab@simalab.com

THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM.

SIMA

Times of India

MARUTI SUZUKI
Way of Life

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

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

Date: 27 September 2012 Maruti Suzuki India Limited

Amar Ujala

MARUTI SUZUKI
Way of Life

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

SEIAA हरियाणा द्वारा मारुति सुजुकी इंडिया लिमिटेड के मानसार प्लांट में पॉवर प्लांट के विस्तार हेतु पर्यावरणीय अनुमोदन प्राप्त कर दिया गया है। अनुमोदन पत्र की प्रतियाँ हरियाणा प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध हैं। अनुमोदन पत्र को मारुति सुजुकी इंडिया लिमिटेड की वेबसाइट www.marutisuzuki.com/ec.html पर भी देखा जा सकता है।

दिनांक: 27 सितम्बर 2012 मारुति सुजुकी इंडिया लिमिटेड

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

Project Proponent

MARUTI  SUZUKI

Way of Life!

Maruti Suzuki India Ltd.

Institute :



**Pollution Control Research Institute,
BHEL, Ranipur, Haridwar - 249 403
Uttarakhand**



ACKNOWLEDGEMENT

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

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

| | | |
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| 2.2 | Upper Atmosphere Chemistry | 2 |
| 2.3 | Radiation Budget | 2 |
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Background

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

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

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

Objective

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

Power Plant Emissions

The flue gases from Power Project will be discharged through stack of 30 m height. The data has been monitored since from the inception of the project and shall be continued on regular intervals. The major pollutant in the flue gas are PM, SO₂, NO_x, and Ozone.

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

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

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



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

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

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

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

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

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

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

There are various parameters which are affecting the earth's radiation budget. Particulate matter and SO₂ is the major contributor for affecting Sun radiation on earth.

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

Sulphur Dioxide (SO₂) - Sulphur dioxide is a major air pollutant and has significant impacts upon human health. Sulphur dioxide emissions are a precursor to acid rain and atmospheric particulates. It can be reduced by using Diesel of low Sulphur content or Natural Gas for running the gas turbines.

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

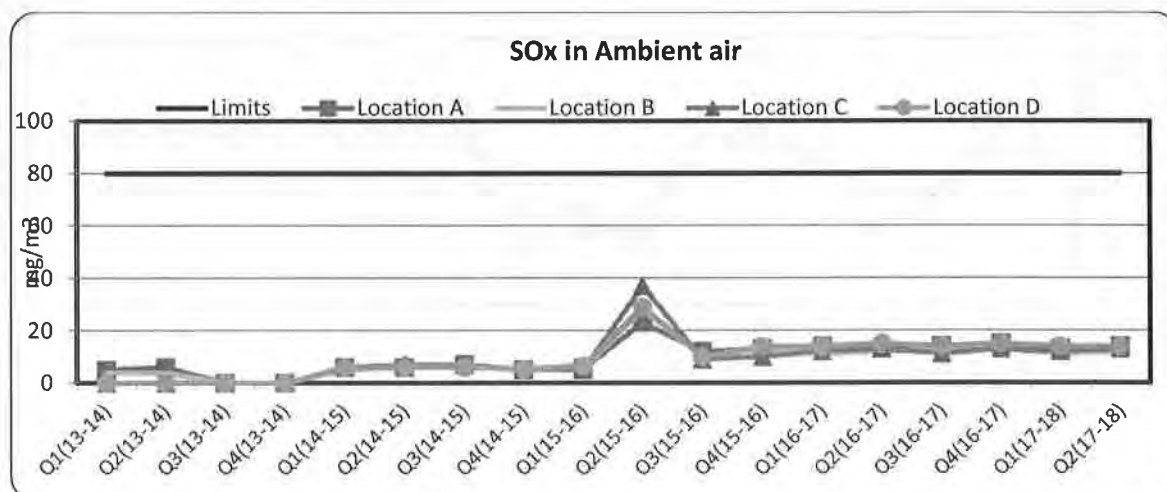
Measures results and graphs – The study commenced from April 2013 onwards. The Results are attached as below:

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

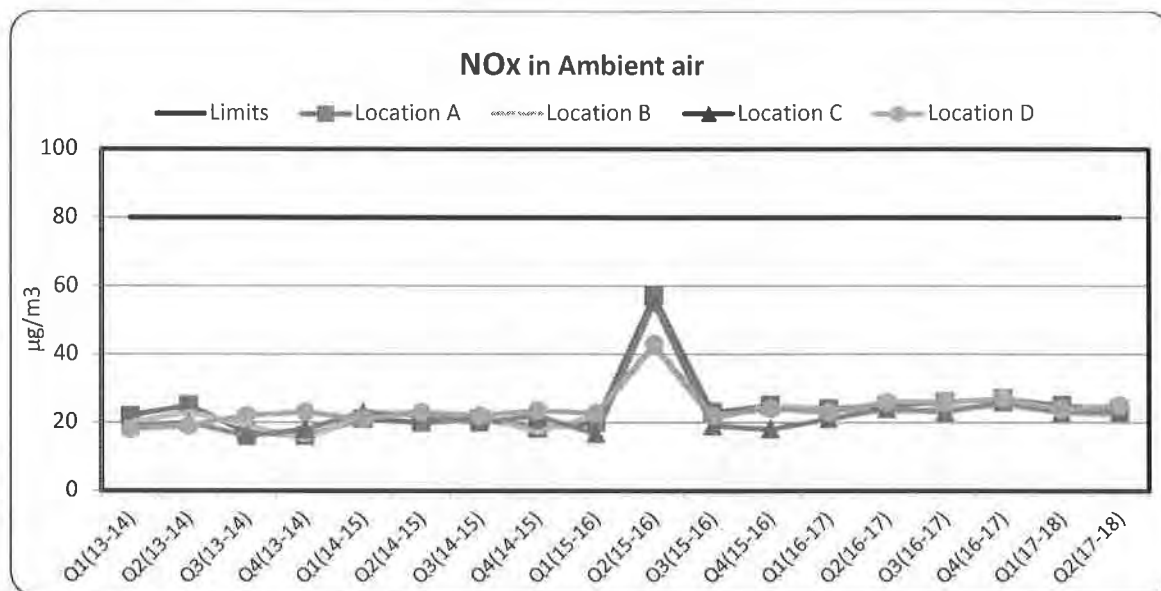
| AMBIENT AIR MONITORING DATA IIInd Qrt | | | | | | | | | |
|---------------------------------------|------|----------|---------------|------------|-----------------|-----------------|-------|-------------------|------------------|
| | S.No | Location | Starting Date | End Date | SO ₂ | NO _x | Ozone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

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

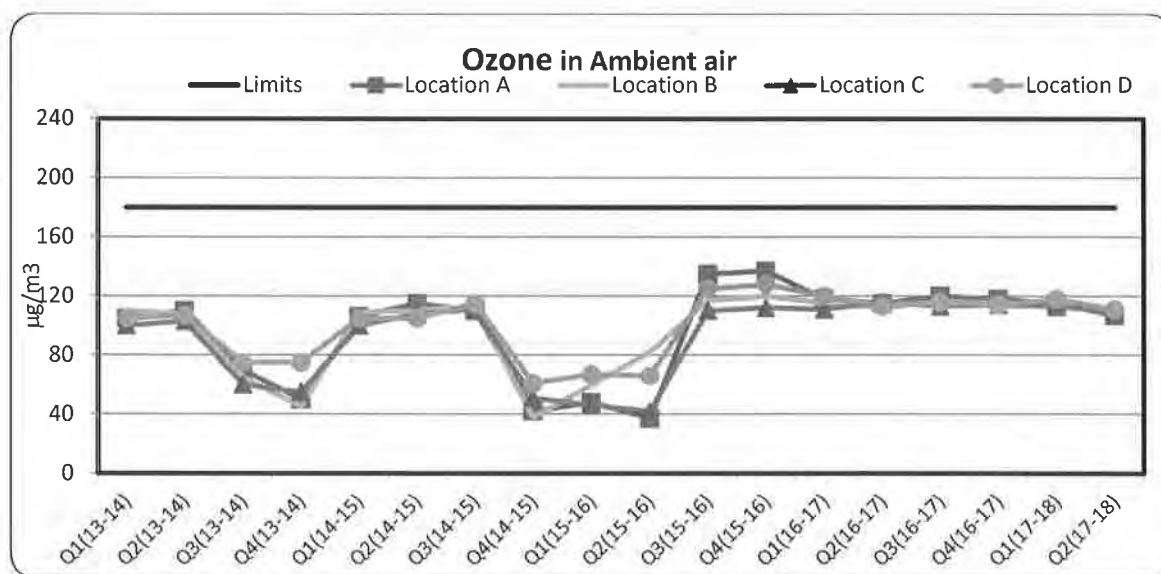
Sulphur Dioxide (SO₂): 24 hourly monitoring concentrations at various locations varied between 0 to 37 µg/m³. It reflects that their no increase in pollution load in AAQ of the area.



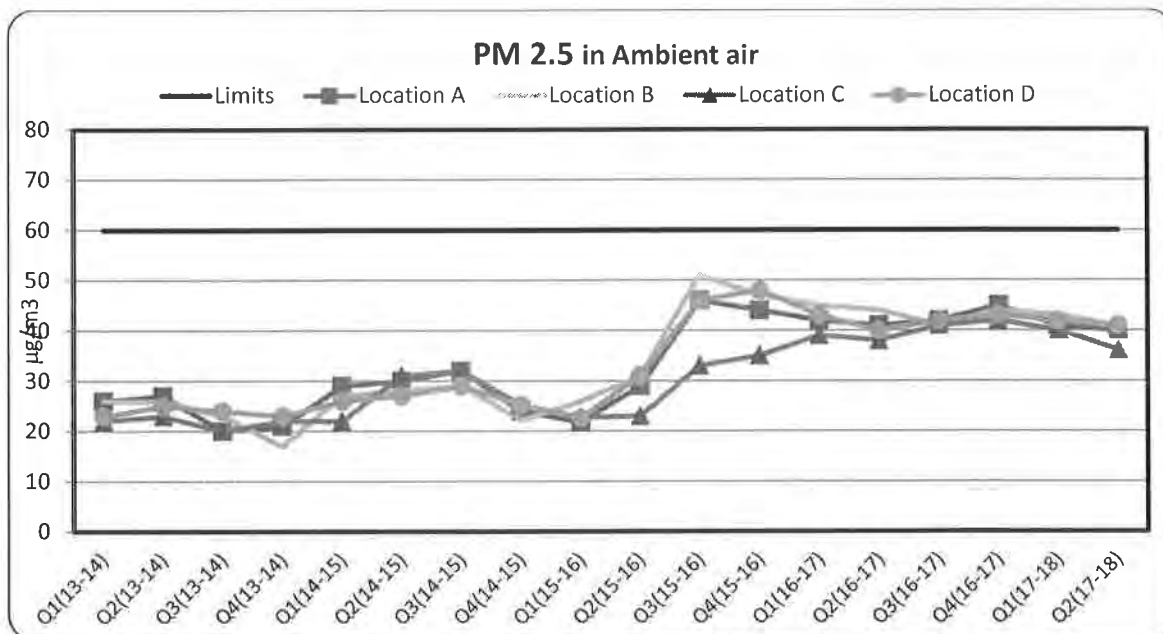
Nitrogen Oxide (NO_x): 24 hourly monitoring concentrations at various locations varied between 15 to 57 µg/m³. It reflects that there is no increase in pollution load in AAQ of the area.



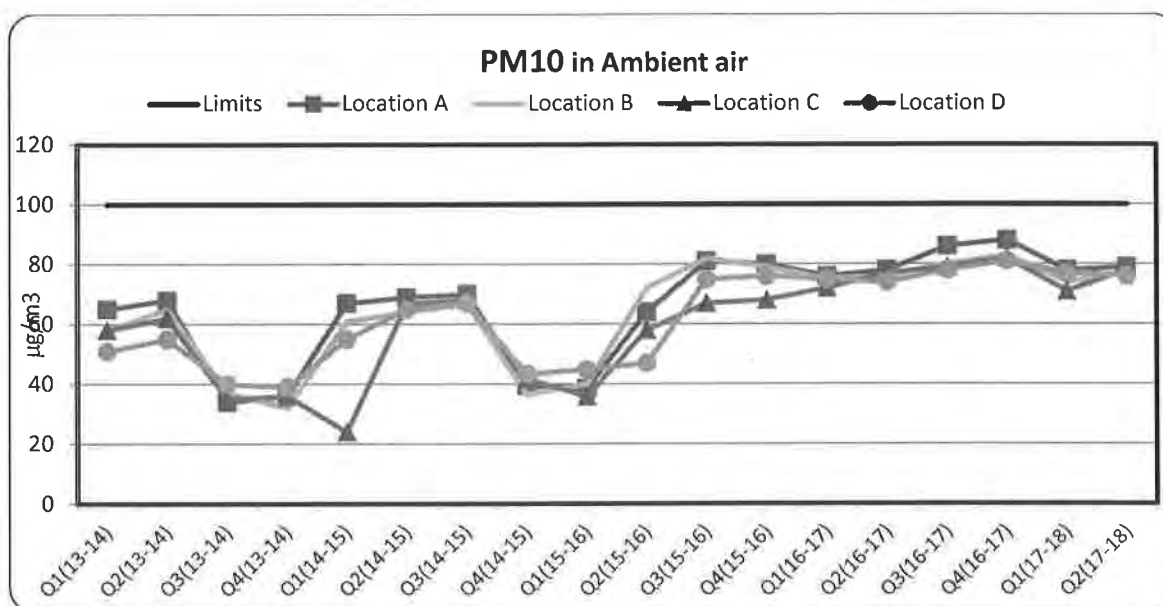
Ozone(O₃): The concentrations at various locations varied between 37 to 137 µg/m³. The study reflects that the effect on surrounding area due to the power plant emission is negligible.



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



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



Conclusion:

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



NATIONAL AMBIENT AIR QUALITY STANDARDS (2009)

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

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

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

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



PCRI/051

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)

South Asia
ISO 9001-2008 OHSAS 18001-2007

South Asia

TEST REPORT

AMBIENT AIR MONITORING

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

Date: 17.06.2017

A. GENERAL INFORMATION:

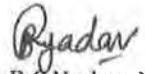
| | | | |
|----|---------------------------|---|---|
| 1. | Name and address of Plant | : | M/s Maruti Suzuki India Ltd., Manesar, Haryana |
| 2. | Work Order No. | : | 17-0062-O-791 |
| 3. | Date of sampling | : | 02.06.2017 to 03.06.2017 |
| 4. | Location of Sampling | : | A: Near Material Gate |
|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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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


(R S Yadav)
Dy. Manager (PCRI)
राजेश सिंह यादव/R. S. Yadav
उप प्रबन्धक/Dy Manager

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of India
Pollution Control Research Institute
Environmental Impact Assessment, Environmental Audits reports
प्रदूषण नियन्त्रण अनुसंधान संस्थान

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

POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED

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

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



ISO 9001-2008 OHSAS 18001 2007

South Asia

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 | : | B:Gate No. 1 |
| 5. | Method of Sampling | : | IS:5182, Part-II-2001, IV-1999, NDIR, Jacob & Hochheiser Modified (Na-Arsenite) Method, FID, NDIR & Gas Detection System, IS-5182(Part-9), APHA-819, AAS and PM2.5 Sampler |
| 6. | Duration of Sampling | : | 24 Hours |
| 7. | Sample collection by | : | PCRI, B.H.E.L., Ranipur, Haridwar-U.K. |

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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

R. S. Yadav
(R S Yadav)

Dy. Manager (PCRI)

प्रदूषण नियंत्रण अनुसंधान संस्थान / R. S. Yadav

उप-प्रबंधक / Dy. Manager

Pollution Control Research Institute

प्रदूषण नियंत्रण अनुसंधान संस्थान

BHEL, Ranipur, Haridwar

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

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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)



TEST REPORT

AMBIENT AIR MONITORING

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

Date: 17.06.2017

A. GENERAL INFORMATION:

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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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

R. S. Yadav
(R S Yadav)

Dy. Manager (PCRI)

उप निदेशक (प्रदूषण नियन्त्रण अनुसंधान संस्थान)

प्रदूषण नियन्त्रण अनुसंधान संस्थान

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & Pollution Control Boards/Institute

Environmental Impact Assessment, Environmental Audits reports

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

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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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

(Signature)
(R S Yadav)
Dy. Manager (PCRI)
रवीन्द्र सिंह यादव / R. S. Yadav
उप प्रबंधक / Dy. Manager
Pollution Control Research Institute
रानीपुर, हरिद्वार

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

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POLLUTION CONTROL RESEARCH INSTITUTE

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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 :0533

Date: 14.09.2017

A. GENERAL INFORMATION:

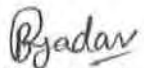
| | | | |
|----|---------------------------|---|---|
| 1. | Name and address of Plant | : | M/s Maruti Suzuki India Ltd., Manesar, Haryana |
| 2. | Work Order No. | : | 17-0135-O-791 |
| 3. | Date of sampling | : | 24.08.2017 to 25.08.2017 |
| 4. | Location of Sampling | : | A: Near Material Gate |
|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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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


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

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

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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)



TEST REPORT
AMBIENT AIR MONITORING

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

Date: 14.09.2017

A. GENERAL INFORMATION:

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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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

R. S. Yadav
(R S Yadav)

Dy. Manager (PCRI)

राजेश सिंह यादव/ R. S. Yadav

उप प्रबन्धक/ Dy Manager

Pollution Control Research Institute

प्रदूषण नियन्त्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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BHARAT HEAVY ELECTRICALS LIMITED

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

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TEST REPORT
AMBIENT AIR MONITORING

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

Date: 14.09.2017

A. GENERAL INFORMATION:

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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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

(R S Yadav)
Dy. Manager (PCRI)

राजेश्वर सिंह यादव / R. S. Yadav
उप प्रबन्धक / Dy Manager
Pollution Control Research Institute

Services Offered : Monitoring of Air, Water, Noise & Solid Waste as per requirement of EP Act of CPCB & SPHEU, Ranipur, Haridwar.
Environmental Impact Assessment, Environmental Audits reports

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ISO 9001:2008 OHSAS 18001:2007

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

TEST REPORT
AMBIENT AIR MONITORING

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

Date: 14.09.2017

A. GENERAL INFORMATION:

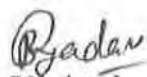
| | | | |
|----|---------------------------|---|--|
| 1. | Name and address of Plant | : | M/s Maruti Suzuki India Ltd., Manesar, Haryana |
| 2. | Work Order No. | : | 17-0135-O-791 |
| 3. | Date of sampling | : | 24.08.2017 to 25.08.2017 |
| 4. | Location of Sampling | : | D: Near Incinerator |
| 5.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

B. RESULTS OF AMBIENT AIR MONITORING:

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

BDL: Below Detectable Limit,

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


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

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

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

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

No. SEIAA/HR/2014/453

Dated: 14.03.2014

To

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

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

Dear Sir,

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

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

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

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

SPECIFIC CONDITIONS:-

- [1] The proposed project shall be set up on plot area of 6000 sqmt within the proposed R&D centre of Maruti Suzuki India Ltd. at IMT Rohtak
- [2] Ultra low sulphur HSD shall only be used as fuel.
- [3] The project proponent shall appoint well qualified fire supervisor.
- [4] Dry Low NO_x burners shall be provided and it shall be ensured that NO_x emissions from the stack are less than 100 ppm.
- [5] The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act in this regard or 30 m, whichever is more with continuous online monitoring system. Exit velocity shall not be less than 29 m/s.
- [6] Air cooled condensers shall be installed.
- [7] The drinking water requirement during construction and operation phase shall be met by HSIIDC Supply.
- [8] Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to the SEIAA.
- [9] Leg of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.
- [10] The project proponent shall develop 3 meter wide green belt as buffer zone around the plant boundary as sound barrier. The area under greenbelt shall be at least 30% of the total area.
- [11] First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- [12] The project proponent shall take adequate preparation for fire and other kinds of disaster including chemical disaster. On-site, off-site emergency plan should be prepared and rehearsed in regular mock drills.
- [13] The project Proponent shall initiate a long term study through a reputed institution to assess the cumulative impact of the power plants on the AAQ of the area. The study shall in particular assess the impact of emission of the HSD based power

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

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

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

General Conditions:

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

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

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

- [xvii] Any appeal against the this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- [xviii] The fund ear-marked for environment protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MoEF, GoI under rules prescribed for Environment Audit.
- [xix] The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.
- [xx] The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO_x, NO_x, Ozone, Lead, CO, Benzene, Ammonia, Benzopyrine, arsenic and Nickel. (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- [xxi] The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the HSPCB Panchkula as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of the EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- [xxii] The project proponent shall conduct environment audit at every three months interval and thereafter corrected measures shall be taken without any delay. Details of environmental audit and corrective measures shall be submitted in the monitoring report.



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

Endst. No. SEIAA/HR/2014

Dated:.....



A copy of the above is forwarded to the following:

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

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

MSIL:CUIP:ESEC:ENV:19-20:058

30-Oct-2019

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

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

Ref: 1. Environment Clearance Letter from MoEF - No .SEIAA/HR/2014/453 dated 14.03.2014
2. MoEFCC letter No. J-13012/36/2012/-IA-II (T) dated 17th March 2015
3. MSIL Letter No. MSIL:CUIM:16-17:015 dated 20-May-2016
4. SEIAA Memo No. SEIAA/HR/2016/585 dated 29-07-2016

Dear Sir,

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

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

Thanking You.

Yours Faithfully



MADAN BANSODE
DGM (ENVIRONMENT)
MARUTI SUZUKI INDIA LTD.

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

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

MARUTI SUZUKI INDIA LIMITED

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

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

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

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

Telephone No. 0172-2565232

Memo No: SEIAA/HR/2016/585

Date: 29-07-2016

To,

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

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

Sir,

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

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


Member Secretary
SEIAA, Haryana

By Speed Post

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

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

Dated: 5th February, 2008

To

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

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

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

2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 2006 for expansion of existing 16.2 MW power plant by adding 10x7 MW units. The power plant is captive power plant. The land requirement is 8500 m². The coordinates of the proposed project site are latitude 27° 39' N to 28° 32' N and Longitude 76° 39' E to 77° 20' E. Gas will be used as fuel, however, HSD will be used as standby fuel in emergency when gas is not available. Gas requirement will be 1580 m³/day. Water requirement will be 2451 KL/day, which will be sourced from bore well. The project was exempted from public hearing being located in a notified industrial estate. Cost of the project is Rs 389.00 crores, which includes Rs 42.5 crores for environmental protection measures.

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

- (i) No additional land shall be acquired in excess of 8500 m² for any utilities/facilities relating to the proposed project.

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

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

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

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



(Dr. S.K. AGGARWAL)
Director

Copy to:-

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



(Dr. S.K. AGGARWAL)
Director

30-Oct-2019

MSIL:CUIP:ESEC:ENV:19-20:056

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

Sub: Half yearly report for Compliance of Environmental Condition for Gas turbine,
Manesar (70 MW)
Ref: Environment Clearance Letter from Moef – No. J-13011/71/2007-IA-II (T), dated
05.02.2008.

Dear Sir,

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

Thanking You.

Yours Faithfully



MADAN BANSODE
DGM (ENVIRONMENT)
MARUTI SUZUKI INDIA LTD.

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

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

MARUTI SUZUKI INDIA LIMITED

Head Office:
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1, Nelson Mandela Road, Vasant Kunj,
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Tel: 011- 46781000, Fax: 011-46150275/46150276
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Gurgaon Plant:
Maruti Suzuki India Limited,
Old Palam Gurgaon Road,
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Tel: 0124-2346721, Fax: 0124-2341304

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

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

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

DATA SHEET

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



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

SALIENT FEATURES OF PROJECT:

- | | | |
|------------------------|---|---|
| 1. Name of the Project | : | Gas turbine at Maruti Suzuki India Limited, 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 30m.
- NO_x emissions will be below 100ppm.
- SPM and SO₂ emissions will be very low as natural gas is a clean fuel and ultra low sulphur diesel will be used initially or in case of emergency operation. Later on after the availability of natural gas, SPM and SO₂ emissions will further go down

Noise Pollution Control

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

Ground Water

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

Green belt development

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



222

Fax

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



सत्यमेव जयते

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

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

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

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

April 16, 2008

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

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

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

Sir,

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

Thanking You,

Yours faithfully,

(N. D. Sharma)
 Controller

16/04/08

संचार अनुभाग / Communication Section
 फैक्स परिपत्र / Fax Transmission

संदेश सं. / Message No. 6012
 दिनांक 29/5/08
 Transmitted on at hrs.



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TEST REPORT

7.8 F-01



PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REPORT NO. : SN0805002819

REF NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

| | |
|--|--|
| Description | : One stack emission sample was collected by us on 02/08/2019 between 10:40 AM to 11:10 AM |
| Name of Industry | : MARUTI SUZUKI INDIA LIMITED |
| Name of plant & Section | : Gas turbine section |
| Emission Source Monitored | : Gas turbine stack |
| Type of Fuel Used | : Natural gas |
| Stack Identification | : Gas turbine stack no.1 (4.3 MW) |
| Normal Operating Schedule (Hrs/day) | : Double shift |
| Location of sampling Point | : As per norms |
| Type of Chimney (ACC/Metal) | : Mild steel |
| Stack Height (Meters) | |
| a. From source of Emission | : - |
| b. From Roof Level | : - |
| c. From Ground Level | : 30 |
| Diameter of stack (cm) | : 135 |
| Sampling Duration (minutes) | : 30 |
| Parameters Monitored | : PM, NOx, SO2, CO, CO2 & HC |
| Purpose of Monitoring | : Assessment of pollution load |
| Products Manufactured | : Integrated automobile Mfg. |
| Control measures (if any) | : Nil |
| Recovery of Material (if any) | : Nil |
| General Sensory observations | : Normal |
| Fugitive Emissions (if any) | : Nil |
| Stack Temperature (°C) | : 392 |
| Ambient Temperature (°C) | : 34 |
| Quantity of Emission (Nm ³ /Hr) | : 66602 |

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|----------------------------|--------------------|---------|---------------|----------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 32.9 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NOx) | ppm | 40.3 | 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 | 20.7 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 12.5 | NA | Methods of Air | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

[Signature]
 AUTHORISED SIGNATORY

REMARKS

- Results listed refer only to the tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
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- Sample shall be disposed off after issue of Test Report unless specified.
- A complaint register is available with the laboratory.

Rohit

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7.8.F-01



TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002819

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|-------------------------|-----------------|
| 5. | | | | | sampling & analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 4.6 | NA | IS:13270 | NA |



Date of performance : 05/08/2019 to 09/08/2019

NA-Not Applicable, BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 09/08/2019

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TEST REPORT



PARTY CODE : MHR/12131
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0809002218
REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
DT.RECD : 09/08/2018

SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS
Reference : IS 11255 & EPA

Description : One stack emission sample was collected by us on 07/08/2018 between 01:00 PM to 01:30 PM

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Name of plant & Section : Gas turbine section

Emission Source Monitored : Gas turbine stack

Type of Fuel Used : Natural gas

Stack Identification : Gas turbine stack no.2 (4.3 MW)

Normal Operating Schedule (Hrs/day) : Double shift

Location of sampling Point : As per norms

Type of Chimney (ACC/Metal) : Mild steel

Stack Height (Meters)

a. From source of Emission : -

b. From Roof Level : -

c. From Ground Level : 30

Diameter of stack (cm) : 135

Sampling Duration (minutes) : 30

Parameters Monitored : PM, NO_x, SO₂, CO, CO₂ & HC

Purpose of Monitoring : Assessment of pollution load

Products Manufactured : Integrated automobile mfg.

Control measures (if any) : Nil

Recovery of Material (if any) : Nil

General Sensory observations : Normal

Fugitive Emissions (if any) : Nil

Stack Temperature (°C) : 410

Ambient Temperature (°C) : 41

Quantity of Emission (Nm³/Hr) : 39101

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--|--------------------|---------|---------------|---------------------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 24.3 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NO _x) | ppm | 53.1 | 100 | IS:11255 (P-7) | NA |
| 3. | Sulphur Dioxide (as SO ₂) | ppm | BDL | NA | IS:11255 (P-2) | 1.0 |
| 4. | Carbon Monoxide (as CO) | ppm | 27.6 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 18.4 | NA | Methods of Air sampling & | NA |

SAMPLE COLLECTED BY US

DATE : 13/08/2018

ANALYST

AUTHORISED SIGNATORY

REMARKS : 1. Results listed refer only to the tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
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4. Sample shall be disposed off after issue of Test Report unless specified.
5. A complaint register is available with the laboratory.

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TEST REPORT



PARTY CODE : M/HR/12131

REPORT NO. : SN0809002218

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|--------------|-----------------|
| 5. | | | | | analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 4.9 | NA | IS:13270 | NA |

Date of performance : 09/08/2018 to 13/08/2018

NA-Not Applicable, BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 13/08/2018

ANALYST

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**TEST REPORT**

PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REPORT NO. : SN0805003019

REF. NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

Description : One stack emission sample was collected by us on 02/08/2019 between 12:30 PM to 01:00 PM

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Name of plant & Section : Gas Turbine Section

Emission Source Monitored : Gas Turbine Stack

Type of Fuel Used : Natural Gas

Stack Identification : Gas Turbine Stack No.3 (4.3M.A.)

Normal Operating Schedule (Hrs/day) : Double Shift

Location of sampling Point : As Per Norms

Type of Chimney (ACC/Metal) : Mild Steel

Stack Height (Meters)

a. From source of Emission : -

b. From Roof Level : -

c. From Ground Level : 30

Diameter of stack (cm) : 135

Sampling Duration (minutes) : 30

Parameters Monitored : PM, NOx, SO2, CO, CO2 & HC

Purpose of Monitoring : Assessment of Pollution Load

Products Manufactured : Integrated Automobile Mfg

Control measures (if any) : Nil

Recovery of Material (if any) : Nil

General Sensory observations : Normal

Fugitive Emissions (if any) : Nil

Stack Temperature (°C) : 421

Ambient Temperature (°C) : 34

Quantity of Emission (Nm³/Hr) : 68505

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|----------------------------|--------------------|---------|---------------|----------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 30.4 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NOx) | ppm | 39.7 | 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 | 18.6 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 15.4 | NA | Methods of Air | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

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Rohit

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**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0805003019

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|-------------------------|-----------------|
| 5. | | | | | sampling & analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 3.9 | NA | IS:13270 | NA |



Date of performance : 05/08/2019 to 09/08/2019

NA-Not Applicable, BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

| | | | |
|--|----------------|---|---------------|
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TEST REPORT

PARTY CODE : M/HR/12131
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0809002118
REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
DT.RECD : 09/08/2018

SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS
Reference : IS 11255 & EPA

Description : One stack emission sample was collected by us on 07/08/2018 between 12:20 PM to 12:50 PM

Name of Industry : MARUTI SUZUKI INDIA LIMITED

Name of plant & Section : Gas turbine section

Emission Source Monitored : Gas turbine stack

Type of Fuel Used : Natural Gas

Stack Identification : Gas turbine stack no.7 (20 MW)

Normal Operating Schedule (Hrs/day) : Double shift

Location of sampling Point : As per norms

Type of Chimney (ACC/Metal) : Mild steel

Stack Height (Meters) :
a. From source of Emission :
b. From Roof Level :
c. From Ground Level : 30

Diameter of stack (cm) : 300

Sampling Duration (minutes) : 30

Parameters Monitored : PM, NOx, SO2, CO, HC & CO2

Purpose of Monitoring : Assessment of pollution load

Products Manufactured : Integrated automobile mfg.

Control measures (if any) : Nil

Recovery of Material (if any) : Nil

General Sensory observations : Normal

Fugitive Emissions (if any) : Nil

Stack Temperature (°C) : 396

Ambient Temperature (°C) : 39

Quantity of Emission (Nm³/Hr) : 183535

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|----------------------------|--------------------|---------|---------------|---------------------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 29.4 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NOx) | ppm | 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 | 31.2 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 20.2 | NA | Methods of Air sampling & | NA |

SAMPLE COLLECTED BY US

DATE : 16/08/2018

ANALYST

AUTHORISED SIGNATORY

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AN ISO 9001 CERTIFIED, NABL ACCREDITED, MoEF & BIS RECOGNISED GOVT. APPROVED TEST HOUSE



TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0809002118

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|--------------|-----------------|
| 5. | | | | | analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 4.2 | NA | IS:13270 | NA |

Date of performance : 09/08/2018 to 16/08/2018

NA-Not Applicable, BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 16/08/2018

ANALYST

AUTHORISED SIGNATORY

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**TEST REPORT**

PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REPORT NO. : SN0805003119

REF. NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : STACK EMISSION

RESULTS OF ANALYSIS

Reference : IS 11255 & EPA

| | |
|--|--|
| Description | : One stack emission sample was collected by us on 01/08/2019 between 01:00 PM to 01:30 PM |
| Name of Industry | : MARUTI SUZUKI INDIA LIMITED |
| Name of plant & Section | : Gas Turbine Section |
| Emission Source Monitored | : Gas Turbine Stack |
| Type of Fuel Used | : Natural Gas |
| Stack Identification | : Gas Turbine Stack No.8 (20 M.W.) |
| Normal Operating Schedule (Hrs/day) | : Double Shift |
| Location of sampling Point | : As Per Norms |
| Type of Chimney (ACC/Metal) | : Mild Steel |
| Stack Height (Meters) | |
| a. From source of Emission | : - |
| b. From Roof Level | : - |
| c. From Ground Level | : 30 |
| Diameter of stack (cm) | : 300 |
| Sampling Duration (minutes) | : 30 |
| Parameters Monitored | : PM, NOx, SO2, CO, CO2 & HC |
| Purpose of Monitoring | : Assessment of Pollution Load. |
| Products Manufactured | : Intergrated Automobile Mfg |
| Control measures (if any) | : Nil |
| Recovery of Material (if any) | : Nil |
| General Sensory observations | : Normal |
| Fugitive Emissions (if any) | : Nil |
| Stack Temperature (°C) | : 429 |
| Ambient Temperature(°C) | : 33 |
| Quantity of Emission (Nm ³ /Hr) | : 330632 |

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|----------------------------|--------------------|---------|---------------|----------------|-----------------|
| 1. | Particulate Matter | mg/Nm ³ | 33.5 | NA | IS:11255 (P-1) | NA |
| 2. | Nitrogen Oxides (as NOx) | ppm | 44.8 | 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 | 21.2 | NA | IS:5182 (P-10) | NA |
| 5. | Total Hydrocarbon | ppm | 17.5 | NA | Methods of Air | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

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TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805003119

| S.No. | Parameters | Units | Results | Limits (Max.) | Protocols | Detection Limit |
|-------|--------------------------------------|-------|---------|---------------|-------------------------|-----------------|
| 5. | | | | | sampling & analysis-101 | |
| 6. | Carbon Dioxide (as CO ₂) | % v/v | 5.1 | NA | IS:13270 | NA |



Date of performance : 05/08/2019 to 09/08/2019

NA-Not Applicable, BDL-Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 09/08/2019

[Signature]
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TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0805003719

REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : EFFLUENT WATER (ETP-OUTLET)

RESULTS OF ANALYSIS

Reference : EP Act Standard

DESCRIPTION : One effluent water sample from outlet of ETP was collected by us on 03/08/2019

SAMPLING DATE : 03/08/2019

SAMPLE QTY. : 1 LTR.

| S.No. | Parameters | Units | Results | Limit (Max.) | Protocols | Detection Limit |
|-------|---|-------|------------|--------------|----------------|-----------------|
| 1. | pH | NA | 7.41 | 5.5 to 9.0 | IS:3025 (P-11) | NA |
| 2. | Total Suspended Solids | mg/L | <5 | 100 | IS:3025 (P-17) | NA |
| 3. | Chemical Oxygen Demand | mg/L | 24 | 250 | IS:3025 (P-58) | NA |
| 4. | Biochemical Oxygen Demand (for 3 days at 27 Deg C) | mg/L | <5 | 30 | IS:3025 (P-44) | NA |
| 5. | Oil & Grease | mg/L | <3 | 10 | IS:3025 (P-39) | NA |
| 6. | Sulphide (as S) | mg/L | BDL | 2.0 | IS:3025 (P-29) | 1.0 |
| 7. | Hexavalent Chromium (as Cr+6) | mg/L | BDL | 0.10 | IS:3025 (P-52) | 0.01 |
| 8. | Phenolic Compound (as C6H5OH) | mg/L | BDL | 1.0 | IS:3025 (P-43) | 0.02 |
| 9. | Cyanide (as CN) | mg/L | BDL | 0.20 | APHA-4500 CN-E | 0.02 |
| 10. | Mercury (as Hg) | mg/L | BDL | 0.01 | IS:3025 (P-2) | 0.007 |
| 11. | Lead (as Pb) | mg/L | BDL | 0.10 | IS:3025 (P-2) | 0.05 |
| 12. | Arsenic (as As) | mg/L | BDL | 0.20 | IS:3025 (P-2) | |
| 13. | Colour | NA | Colourless | NA | IS:3025 (P-4) | NA |
| 14. | Odour | NA | Odourless | NA | IS:3025 (P-5) | NA |
| 15. | Nitrate Nitrogen (as NO3-N) | mg/L | 0.44 | 10 | IS:3025 (P-34) | NA |

SAMPLE COLLECTED BY US

DATE : 10/08/2019

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**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0805003719

| S.No. | Parameters | Units | Results | Limit (Max.) | Protocols | Detection Limit |
|-------|---|-------|-------------------|--------------|----------------------|-----------------|
| 16. | Ammonical Nitrogen (as NH ₃ -N) | mg/L | 3.7 | 50 | IS:3025 (P-34) | NA |
| 17. | Dissolved Phosphate (as P) | mg/L | 2.9 | 5.0 | IS:3025 (P-31) | NA |
| 18. | Manganese (as Mn) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.05 |
| 19. | Fluorides (as F) | mg/L | BDL | 2.0 | APHA-4500 F-D | 0.05 |
| 20. | Temp. | °C | 24.8 | NA | IS:3025 (P-9) | NA |
| 21. | Particle Size | µm | DV(10) 22.916 | NA | By Particle Analyzer | NA |
| 22. | Particle Size | µm | DV(50) 77.815 | NA | By Particle Analyzer | NA |
| 23. | Particle Size | µm | DV(90) 197.694 | NA | By Particle Analyzer | NA |
| 24. | Total Kjeldahl Nitrogen | mg/L | 6.0 | 100 | IS:3025 (P-34) | NA |
| 25. | Nickle (as Ni) | mg/L | 0.43 | 3.0 | IS:3025 (P-2) | NA |
| 26. | Zinc (as Zn) | mg/L | 0.19 | 5.0 | IS:3025 (P-2) | NA |
| 27. | Cadmium (as Cd) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.01 |
| 28. | Copper (as Cu) | mg/L | BDL | 3.0 | IS:3025 (P-2) | 0.05 |
| 29. | Total Chromium (as Cr) | mg/L | BDL | 2.0 | IS:3025 (P-2) | 0.005 |
| 30. | Total Residual Chlorine (as Cl ₂) | mg/L | BDL | 1.0 | IS:3025 (P-26) | 1.0 |
| 31. | Iron (as Fe) | mg/L | BDL | 3.0 | IS:3025 (P-2) | 0.05 |
| 32. | Selenium (as Se) | mg/L | BDL | 0.05 | IS:3025 (P-2) | 0.005 |
| 33. | Free Ammonia | mg/L | BDL | 5.0 | IS:3025 (P-2) | 0.5 |
| 34. | Vanadium (as V) | mg/L | BDL | 0.2 mg/L | IS:3025 (P-2) | 0.05 |

Date of performance : 05/08/2019 to 10/08/2019

NA - Not Applicable BDL - Below Detection Limit

SAMPLE COLLECTED BY US

DATE : 10/08/2019


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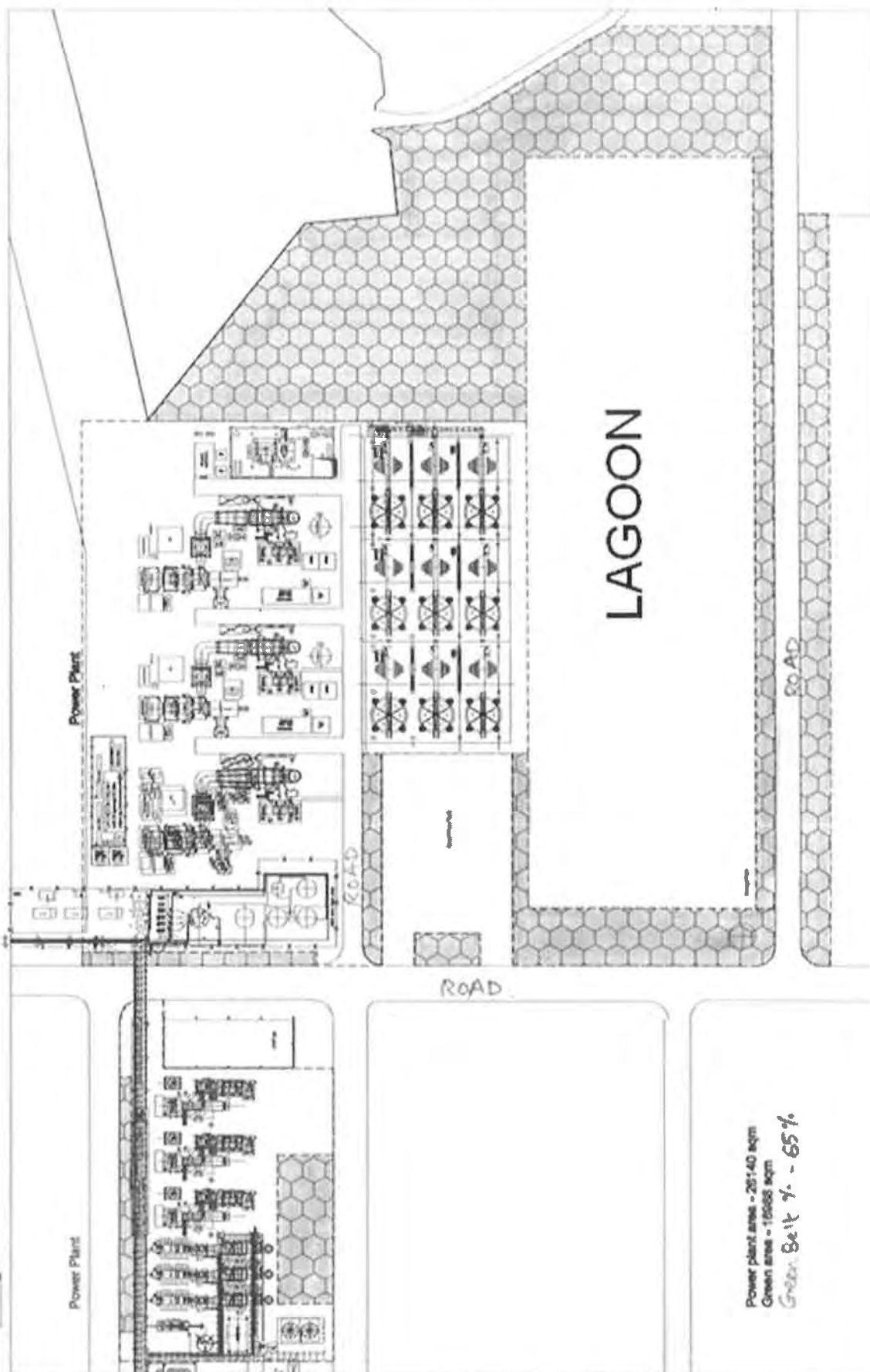
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Annexure 4

GREEN AREA AND RWTH



CA

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**TEST REPORT**

PARTY CODE : M/HR/12131

MARUTI SUZUKI INDIA LIMITED

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REPORT NO. : SN0805002419

REF. NO. : NS

REF. DATE : NS

DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 31/07/2019 to 01/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : Near material gate
 Date of Sampling : 31/07/2019 To 01/08/2019
 Sampling started at : 10:30 AM (Dt. 31/07/2019)
 Sampling completed at : 10:30 AM (Dt. 01/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.25 m³ / Minute
 Total volume of air sampled : 1800 m³ (For PM-10) & 23.992 m³ (For PM-2.5)
 Ambient temperature (°C) : 34

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 93.0 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 52.1 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 28.5 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.2 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.125 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 22.7 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 08/08/2019

AUTHORISED SIGNATORY

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TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002419

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



Date of performance : 05/08/2019 to 08/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 08/08/2019

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TEST REPORT

PARTY CODE : M/HR/12131
MARUTI SUZUKI INDIA LIMITED

REPORT NO. : SN0805002519
REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 31/07/2019 to 01/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point : Near Inclinerator
Date of Sampling : 31/07/2019 To 01/08/2019
Sampling started at : 10:50 AM (Dt. 31/07/2019)
Sampling completed at : 10:50 AM (Dt. 01/08/2019)
Actual time of sampling : 1440 Minutes
Flow rate of sampling : 1.275 m³ / Minute
Total volume of air sampled : 1836 m³ (For PM-10) & 23.996 m³ (For PM-2.5)
Ambient temperature (°C) : 34

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 90.1 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 51.3 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 27.7 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 18.6 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.112 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 22.4 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 08/08/2019

AUTHORISED SIGNATORY

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Page : 1 of 2

Rohit

HARIDWAR LABORATORY : Plot No. 37, Sector - 7, I.I.E SIDCUL, Haridwar - 249403
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Email : bmlab@simalab.com

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SIMA



SIMA LABS PVT. LTD.

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

(GOVT. APPROVED TESTING LABORATORIES)

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

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

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7.8 F-01

TEST REPORT



PARTY CODE : M/HR/12131

REPORT NO. : SN0805002519

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



Date of performance : 05/08/2019 to 08/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 08/08/2019

[Signature]
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Rohit

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7.8 F-01

**TEST REPORT**PARTY CODE : M/HR/12131
MARUTI SUZUKI INDIA LIMITED(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
MANESAR, GURUGRAM, HARYANAREPORT NO. : SN0805002619
REF. NO. : NSREF. DATE : NS
DT.RECD : 05/08/2019

SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : One ambient air sample was collected by us from 01/08/2019 to 02/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
Location of the Sampling Point : Near Gate No. 1
Date of Sampling : 01/08/2019 To 02/08/2019
Sampling started at : 11:00 AM (Dt. 01/08/2019)
Sampling completed at : 11:00 AM (Dt. 02/08/2019)
Actual time of sampling : 1440 Minutes
Flow rate of sampling : 1.24m³/Minute
Total volume of air sampled : 1786m³ (for PM 10) & 24.019m³ (for PM 2.5)
Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|---|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 93.7 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 53.7 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO ₂) | µg/m ³ | 28.6 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO ₂) | µg/m ³ | 19.2 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.126 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C ₆ H ₆) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH ₃) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O ₃) (8 hours) | µg/m ³ | 24.8 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

AUTHORISED SIGNATORY

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Rohit

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7.8 F-01

**TEST REPORT**

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002619

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 |



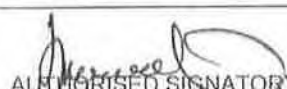
Date of performance : 05/08/2019 to 09/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 09/08/2019


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Rohit

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7.8 F-01



TEST REPORT

PARTY CODE : M/HR/12131
 MARUTI SUZUKI INDIA LIMITED

REPORT NO : SN0805002719
 REF. NO. : NS

(MANESAR PLANT) PLOT NO.1, PHASE-3A, IMT
 MANESAR, GURUGRAM, HARYANA

REF. DATE : NS
 DT.RECD : 05/08/2019



SAMPLE NAME : AMBIENT AIR

RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Description : - One ambient air sample was collected by us from 01/08/2019 to 02/08/2019

Name of Industry : MARUTI SUZUKI INDIA LIMITED
 Location of the Sampling Point : SND Gate
 Date of Sampling : 01/08/2019 To 02/08/2019
 Sampling started at : 11:20 AM (Dt. 01/08/2019)
 Sampling completed at : 11:20 AM (Dt. 02/08/2019)
 Actual time of sampling : 1440 Minutes
 Flow rate of sampling : 1.26m³/Minute
 Total volume of air sampled : 1814m³ (for PM 10) & 23.916m³ (for PM 2.5)
 Ambient temperature (°C) : 35

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|-----------------------------------|-------------------|---------|-------------|--|-----------------|
| 1. | Particulate Matter (as PM -10) | µg/m ³ | 91.7 | 100 | IS:5182 (P-23) | NA |
| 2. | Particulate Matter (as PM - 2.5) | µg/m ³ | 47.2 | 60 | Gravimetric | NA |
| 3. | Nitrogen Dioxides (as NO2) | µg/m ³ | 26.3 | 80 | IS:5182 (P-6) | NA |
| 4. | Sulphur Dioxide (as SO2) | µg/m ³ | 18.1 | 80 | IS:5182 (P-2) | NA |
| 5. | Carbon Monoxide (as CO) (8 hours) | mg/m ³ | 1.106 | 2.0 | NDIR - Spectroscopy | NA |
| 6. | Benzene (as C6H6) | µg/m ³ | BDL | 5.0 | IS:5182 (P-11) | 0.05 |
| 7. | Ammonia (as NH3) | µg/m ³ | BDL | 400 | Methods of Air sampling & Analysis-401 | 0.05 |
| 8. | Ozone (as O3) (8 hours) | µg/m ³ | 24.3 | 100 | Methods of Air sampling & Analysis-411 | NA |

SAMPLE COLLECTED BY US

DATE : 09/08/2019

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7.8 F-01

TEST REPORT

PARTY CODE : M/HR/12131

REPORT NO. : SN0805002719

| S.No. | Parameters | Units | Results | Limit (Max) | Protocols | Detection Limit |
|-------|------------------------|-------|---------|-------------|--|-----------------|
| 9. | Lead (as Pb) | µg/m³ | BDL | 1.0 | Methods of Air sampling & Analysis-822 | 0.05 |
| 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 : 05/08/2019 to 09/08/2019

BDL : Below Detection Limit

NA : Not Applicable

SAMPLE COLLECTED BY US

DATE : 09/08/2019


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| | | |
|----------------|---|---------------|
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Email : bmlab@simalab.com**THIS CERTIFICATE IS NOT VALID WITHOUT A HOLOGRAM****SIMA**

TRIBUNE 22-Feb-2008

PUBLIC NOTICE

 **MARUTI SUZUKI**

Maruti Suzuki India Limited
11th Floor, Jeevan Prakash Building,
25 Kasturba Gandhi Marg, New Delhi - 110001.
Ph: 011-23318831. Fax: 011-23318754

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

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

AMAR UJALA 22-Feb-2008

सूचना

 **MARUTI SUZUKI**

Maruti Suzuki India Limited
11th Floor, Jeevan Prakash Building,
25 Kasturba Gandhi Marg, New Delhi - 110001.
Ph: 011-23318831. Fax: 011-23318754

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

दिनांक: 22 फरवरी, 2008 मारुति सुजुकी इण्डिया लिमिटेड