



ASIAN PAINTS LIMITED
PENTA DIVISION
AN ISO 9001
ISO 14001 &
OHSAS 18001 UNIT

Corporate Identification Number (CIN) : L24220MH1945PLC004598
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Asian Paints Limited
B-5 to B-10 Sipcot
Industrial Complex,
Kudikadu Village,
Cuddalore - 607 005,
Tamil Nadu
Tel.No-04142-239248
www.asianpaints.com

APL/CDL/MoEFCC/249 /2017-18

12th May 2017

The Additional Principal Chief Conservator of Forests,
Ministry of Environment, Forests and Climate Change,
1st & 2nd Floor, HEPC Building,
No 34, Cathedral Garden Road,
Nungambakkam,
Chennai-600 034.

Dear Sir,

Sub: Half yearly compliance report for the period October 2016 to March 2017-Regds

Reference:

1. EC of the existing operating unit for Pentaerythritol production (EC Order No. F. No. J-1011/345/2011- IA II (I) dated 24.02.2014.
2. EC of the existing operating unit for Captive Power Plant (EC Order No. SEIAA/TN/EC/1(d)/001/F-01/2008 DT. 22.07.08).
3. Hazardous waste authorization no.16HRC6860551 dated 26.12.2016

We are enclosing the half yearly compliance report for the above mentioned environmental clearances applicable to our unit for the period of October 2016 to March 2017.

Yours truly,

K Thulaseedharan Nair

General Works Manager

READ SIPCOT CUDDALORE (607005)
IN 18/05/2017 10:29
Counter No:1, OP-Code:VK
To:ADD FRI CHIEF CONSERV.FORESTS 34
Nungambakkam S.O, PIN-600034
From:ASIAN PAINTS, B 10 SIPCOT CDL
Dt:460grams
Sent:18/05/2017 10:29
Sent From: www.indiaipost.gov.in



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(M) +91-9825411578 | td.nair@asianpaints.com

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Cuddalore - 607 005, Tamil Nadu

CC: TNPCB, SIPCOT, Cuddalore



COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS
ASIAN PAINTS, PENTA DIVISION OCTOBER-2016 TO MARCH-2017

Sub: Increase in Production of Pentaerythritol (from 450 MTPM to 560 MTPM) and Sodium Formate (275 MTPM to 336 MTPM) in existing Unit of M/s Asian Paints Limited at Plot No. B5-B10, Sy. No. 126-131, 137 & 165 at SIPCOT Industrial Estate, Village Kudikadu. Mandal & District Cuddalore, Tamil Nadu - Environmental Clearance reg.

Ref: EC of the existing operating unit (EC order No.F.No.J-11011/345/2011-IA II(I) dated 24.02.2014)

S.No	EC Specific Conditions	Compliance Status
i	"Compliance to all the specific and general conditions mentioned in the existing environmental clearance letter no. SEIAA/TN/EC/1 (d)/001/F-01/2008 dated 22 nd July. 2008 and letter no. SEIAA/TN/EC/5(f)/005/F-I 17/2009 dated 9 th July, 2009 shall be ensured.	All the specific and general conditions mentioned in the existing environmental clearance no. SEIAA/TN/EC/1 (d)/001/F-01/2008 dated 22 nd July. 2008 and letter no. SEIAA/TN/EC/5(f)/005/F-I 17/2009 dated 9 th July, 2009 are being complied with .
ii	Bag filter shall be provided to coal fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/TNPCB guidelines.	Bag filter is provided to coal fired boiler and particulate emissions are controlled well within the permissible limit. The gaseous emissions are being dispersed through stack of adequate height as specified by the CPCB/TNPCB guidelines. Our boiler stack emissions are online connected to CARE Air Centre, TNPCB. Complied with. Annexure -1
iii	Vapour emissions from the process vents shall be controlled by installation of suitable scrubbers and condensers. The scrubbed water shall be sent to ETP for further treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system shall be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant shall be automatically stopped. Stack monitoring shall be done regularly and report shall be submitted to Tamil Nadu Pollution Control Board (TNPCB) and the Ministry's regional office at Chennai.	Vapour emissions from the process vents are controlled by installation of suitable scrubbers. The scrubbed water is reused in the process. Efficiency of scrubber is monitored regularly and maintained properly. Vent of the Scrubbers are provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. The pollution control equipments are interlocked so that in case of any increase in pollutants beyond permissible limits, plant will get automatically stopped. Stack monitoring by TNPCB lab was done on 27.10.2016, 23.11.2016, 10.01.2016, 10.02.2017. The same was analysed by Aqua Designs on 23.11.2016 and 13.03.2017 Annexure 2

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iv	Ambient air quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R. No. 826(E) dated 16 th September, 2009. The levels of PM ₁₀ , SO ₂ , NO _x , CO, VOC and HC (Methane and Non-methane) shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Tamil Nadu Pollution Control Board (TNPCB).	VOC and THC was analysed by TNPCB lab on 23.11.2016 and by Aqua Designs on 08.10.2016, 22.11.2016, 23.12.2016, 28.01.2017 & 13.03.2017 Results are attached in Annexure 3 .
v	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the TNPCB.	In plant control measures for checking Fugitive emissions (raw materials storage area, various stacks) are regularly monitored and the emissions are maintained well within the limits stipulated by the TNPCB. Being adhered.
vi	Online VOCs detectors shall be installed in the work zone. When monitoring results indicate the levels above the permissible limits, effective measures shall be taken immediately.	Online VOC detectors are installed in the work zone and in case of any deviation, system of alarming prevails for taking effective action immediately. Complied with. Annexure-4
vii	For further control of fugitive emissions, following steps shall be followed : a. Closed handling system shall be provided for chemicals. b. Reflux condenser shall be provided over reactor. c. System of leak detection and repair of pump/pipeline based on preventive maintenance. d. The acids shall be taken from storage tanks to reactors through closed pipeline. e. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation. f. Cathodic protection shall be provided to the underground solvent storage tanks.	For further control of fugitive emissions following steps are followed: a. Closed handling system is provided for Chemicals. b. Reactor vent is connected to suction of Formaldehyde plant blower. c. System of Leak detection and repair of pump/pipeline is being done regularly based on preventive maintenance. d. Aldehydes and other chemical lines are connected to reactor through closed pipe line. e. All the solvent storage tanks are connected to suction of Formaldehyde blower. f. We do not have underground solvent storage tanks. Being adhered. Annexure-5
viii	The gaseous emissions from DG set shall be dispersed through adequate stack height as per	The gaseous emissions from DG set are dispersed through adequate stack height as per CPCB

	CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	standards. Acoustic enclosure is provided to one DG set to mitigate the noise pollution. Complied with.
ix	Total fresh water requirement from SIPCOT water supply shall not exceed 695 m ³ /day and prior permission shall be obtained from the Competent Authority and a copy submitted to the Ministry's Regional Office at Bangalore. No ground water shall be used.	Fresh water consumption has not exceeded 695 m ³ /day and it is entirely met from SIPCOT supply only. No ground water is drawn. Average Water consumption was in the range of 466 m ³ /day to 564 m ³ /day during the period of Oct-16 to Mar 17. Month wise water consumption details summary from Oct -16 to Mar 17 is enclosed as Annexure-6. Complied with.
x	Total industrial wastewater generation shall not exceed 161 m ³ /day. Industrial effluent shall be treated in ETP followed by Reverse Osmosis. Treated effluent shall be recycled/reused within factory premises after achieving desired water quality for various purposes. Rejects from RO shall evaporated in MEE followed by ATFD. Sewage shall be treated in STP. No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be adopted.	Total industrial wastewater generation has not exceeded 161 m ³ /day. Average Effluent generation was in the range of 58 to 78 m ³ /day during the period of Oct 16 – Mar 17. Treated effluent after achieving desired water quality is reused within factory premises. Rejects from RO are evaporated in MEE followed by ATFD. Sewage is treated in STP. No effluent is discharged outside the factory premises and 'Zero' discharge concept has been adopted. Complied with
xi	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Process effluent /waste water are not allowed to mix with storm water drain. Online pH & TDS meters are available in storm water drain to ensure the quality of storm water in storm water drain. Complied with.
xii	As proposed. MEE/ATFD salt and ETP sludge shall be sent to the TSDF. Spent catalyst/ resin and spent oil shall be sent to authorized recycler/re-processor.	As proposed MEE/ATFD and ETP Sludge is being sent to the Tamilnadu waste management association (TSDF), at Gummidipoondi. Spent catalyst and spent oil are sent to authorized recycler/re-processor. Handling and disposal of Hazardous waste are complied with TNPCB norms. Being adhered.
xiii	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.	The company has obtained Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2016 which is valid till 25.12.2021 is enclosed as Annexure-7. In case of emergency, facilities for fire fighting is available. Complied with.
xiv	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be	The Company strictly complies with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended from time to time. All Transportation of Hazardous Chemicals is done as

	as per the Motor Vehicle Act (MVA). 1989.	per the Motor Vehicle Act (MVA) 1989. Being adhered.
xv	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas.	The unit had made arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting systems are as per the norms. Fire hydrant systems are available along with fire monitor and flame, smoke detection systems in the process as well as storage area are available. As per MSIHC rules, safety audit is conducted and report is submitted to concerned authorities. Complied with. Annexure-8
xvi	The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report. Risk assessment shall be included in the safety Manual.	We are complying by the conditions / recommendations mentioned in the EIA/EMP/Risk assessment report. Risk assessment is included in the safety manual. Ours is an ISO/OHSAS certified company. Complied with.
xvii	Proper spillage control management plan should be prepared and implemented.	Proper spillage control management plan has been prepared and implemented as per the Onsite emergency plan. Being adhered.
xviii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Training has been imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees are done on regular basis. Training to all employees on handling of chemicals is imparted. Occupational health surveillance of workers is being carried out on regular basis and records are maintained as per the Factories Act, 1948. Health records are being archived year wise and are updated. We have full-fledged Occupational Health centre manned round the clock. We also have an ambulance stationed in our factory premises. Complied with.
xix	As proposed, greenbelt shall be developed in 15.7 acres out of total plant area 29.2 acres. Selection of plant species shall be as per the CPCB guidelines	As proposed, about 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines. Complied with. Annexure-9
	The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to	Environmental policy is available. Standard operating process/procedure is available for all operations to ensure meeting environmental or forest norms/conditions. Defined hierarchy to deal with environment issues is available. Periodic compliance update is given to board of directors. Being adhered.

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	the Board of Directors of the company and/or stakeholders or shareholders.	
xxi	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Our's is a running plant and hence not applicable.

GENERAL CONDITIONS COMPLIANCE STATUS FOR ASIAN PAINTS, PENTA DIVISION

S.No.	General Conditions	Compliance Status
i	The project authorities shall strictly adhere to the stipulations made by the T.N. Pollution Control Board.	We are adhering to the stipulation made by TNPCB. Being adhered.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment and Forests/SEIAA. Complied with.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We have two permanent ambient air quality monitoring stations installed in the upwind and downwind direction as per the direction received from the TNPCB. Being adhered
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The overall noise level monitoring is carried out by the in-house facility. TNPCB lab monitors twice a year. Overall noise levels in and around the plant area are kept well within the standards prescribed by the TNPCB by providing noise control measures on all sources of noise generation. The safety valve outlets, steam vents and blowers are fitted with silencers. The DG set (stand by) is housed in an acoustic enclosure. Complied with. Annexure-10
v	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use	The company has rainwater harvesting facilities from the roof tops of the buildings and storm

	the same water for the process activities of the project to conserve fresh water.	water drains to recharge the ground water and use the same water for the process activities to conserve fresh water. Complied with. Annexure-11
vi	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Training on safety and health aspects of chemical handling are done to all employees. Specific training on fire safety by M/s Usha fire, and "Safety while working at height" by Karam Safety was conducted. Employees have attended special training programs conducted by M/s RLI & M/s NSC on "Safety Audits" & "Health and Safety in Industries" respectively. Pre-employment and routine periodical medical examinations for all employees are undertaken once in ever year. Complied with.
vii	Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.	Usage of Personnel Protection Equipment's (PPEs) like safety shoe, helmet, goggles, nose mask etc. by all employees/ workers is ensured. Being adhered
viii	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	The company is complying with all the environmental protection measures and safeguards which is proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP with respect to environmental management, risk mitigation measures are implemented. Public hearing is not applicable.
ix	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	The company has undertaken all relevant measures for improving the Socio-economic conditions of the surrounding area. As a part of our routine CSR activities Scholarship to the students, EB bill & Teachers Salary being paid every year to the adopted Government Hr.Sec.School in nearby village, Kudikadu. The company has started health centre in the nearby village, Kudikadu. Funding was done for constructing two class rooms as well as for students scholar ships for Kendra Vidhyalaya and Isha Education. An amount of Rs. 38.27 Lakhs has been spent for CSR activities during the period October 16 – March 17. Complied with. Annexure-12.
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	The company is undertaking eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. Being done.
xi	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A Separate Environment management cell equipped with full-fledged laboratory facilities is available, which is carrying out environment management and monitoring functions. Complied with.

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xii	The company shall earmark sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose	The company has earmarked sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and forests as well as the state Government along with the implementation schedule for all the conditions stipulated and no funds were diverted for any other purpose. Complied with.
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any from who suggestions/ representations, if any, were received while processing the proposal.	A copy of the clearance letter was sent to the Commissioner, Cuddalore Panchayat union. Complied With.
xiv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the T.N. Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	The status of the compliance of the stipulated EC Conditions is uploaded in the company's website www.site.asianpaints.com/penta , and hard copies are also sent to the Regional Office of MoEF, Chennai and TNPCB. Environmental clearance copy and six monthly compliance status of the stipulated EC Conditions is uploaded in the company's website. Being adhered.
xv	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The Environmental Statement for the financial year ending 31st March 2016 in Form – V has been submitted for the year 2015-16 vide Lr.No. APL/CDL/ TNPCB/200/2016-17 dated 28/09/2016 to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. The status of compliance of Environmental Clearance conditions was sent to the Regional Office of MoEF, Chennai. Complied with.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have advertised in two local newspapers (Dinamalar & The Hindu) which are widely circulated in the region, one of which in the vernacular language (in Dinamalar)informing the public that i. The project has been accorded Environmental Clearance. ii. Copies of Clearance letters are available with the Tamil Nadu Pollution Control Board. Complied with. Annexure-13

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xvii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project	Complied with.
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COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS FOR CAPTIVE POWER PLANT
ASIAN PAINTS, PENTA DIVISION OCTOBER 2016 – MARCH 2017

Sub: Proposal for Establishment of 1*16TPH boiler in place of 2*7 TPH boiler along with a power generation of 0.995 MW inside the existing factory premises of M/s Asian Paints Limited, Penta Division, B5-B10, SIPCOT Industrial Complex, Kudikadu, Cuddalore – 607005. – Regds

Reference: Order No. SEIAA/TN/EC/1(d)/001/F-01/2008 DT. 22.07.08.

The Consent for Power generation was increased to 1.5 MW through clearance letter from MoEF & CC Dt. 03.02.2015

S.No.	EC Conditions	Compliance Status.
01	"Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.	CTE obtained from TNPCB vide there: <ul style="list-style-type: none"> • Water Act Consent order: 4715 dt.28.11.2008 Proceeding No.T11/TNPCB/CHEM/F576/RL/CUD/W/08 dt. 28.11.2008. • Air Act Consent Order: 4659 dt.28.11.2008 Proceeding No.T11/TNPCB/CHEM/F-576/RL /CUD/A/08 dt.28.11.2008. Copy submitted to SEIAA before taking up of any construction.
02	Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.	Pollution loads on the ambient air quality, noise and water quality is being periodically monitored through the competent authority. NAAQ station is installed in the premises to continuously monitor AAQ. Recent analysis done through TNPCB laboratory as well as MOEF approved laboratory showing the pollutant levels remaining within the norms permitted is enclosed as Annexure 3 & Annexure 10. Complied with.
03.	Suitable Air Pollution Control System (multiclone & Bag filters) and stacks of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the standard prescribed by Tamil Nadu Pollution Control Board. Separate electric meters should be provided to the Air Pollution Monitoring System and a separate log book maintained for the daily meter readings and monthly report submitted to SEIAA, Tamil Nadu.	The boiler is fitted with Air Pollution Control measures such as Multiclones & Bag filters. Stack of 42 Mtrs. height (as per CPCB guidelines) for 16 TPH boiler has been erected. Emissions levels are well below the levels prescribed by TNPCB. Our online stack monitoring values (SPM, SO ₂ & NO _x) are connected to CARE AIR CENTRE. Separate electric meter is installed. Monthly report being submitted to TNPCB. A separate log book is maintained for the daily meter readings. Complied with.
04.	All the conditions stipulated by Tamil Nadu State Pollution Control Board in their CFE shall be strictly implemented	Conditions stipulated by Tamil Nadu State Pollution Control Board in their CFE are implemented. Compliance to the conditions stipulated in CFO are enclosed as Annexure-14 Complied with.
05	Only imported coal with 2 – 4% ash content and low sulphur should be used as fuel. No other fuels	Coal with low ash content and low sulphur is being used as fuel. No other fuels are used. Complied


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	should be used.	with.
06.	Water requirement of 695 m ³ /day (no increase from existing quantity) should be met from the existing available water allocation from SIPCOT supply. No ground water shall be drawn for the power plant at any stage.	Fresh water consumption has not exceeded 695 m ³ /day and it is entirely met from SIPCOT supply only. No ground water is drawn. Average Water consumption was in the range of 466 m ³ /day to 564 m ³ /day during the period of Oct-16 to Mar 17. Month wise water consumption details summary from Oct -16 to Mar 17 is enclosed as Annexure-6 . Complied with.
07.	The boiler blow-down shall be treated in existing ETP and treated water shall not be let out of the industry's premises.	The boiler blow-down is fully treated in existing ETP. Ours is Zero liquid discharge unit and hence water is not let out of the industry's premises. Complied with.
08.	For controlling fugitive dust inside and outside the plant premises and vulnerable areas of the plant and dust extraction and suppression system and water sprinklers shall be ensured.	Dust suppression system and water sprinklers are available to control the fugitive dust. Coal is being procured in vehicles covered by tarpaulins conveyed through closed system. Complied with.
09.	Noise level shall be limited to 75 dBA. For people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Ambient noise level monitoring is carried out by the in-house facility. TNPCB lab monitors twice a year. Overall noise levels in and around the plant area are kept well within the standards prescribed by the TNPCB by providing noise control measures on all sources of noise generation. The safety valve outlets, steam vents and blowers are fitted with silencers. The DG set (Stand by) is housed in an acoustic enclosure. For people working in high noise area, necessary PPE's are provided. Complied with. Annexure-10
10.	The gaseous emissions (SO ₂ , NO _x) and particulate matter from Boilers, DG sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation under intimation to the Regional Officer, Tamil Nadu.	We have totally 7 stacks- four process stacks, two boiler stacks and one DG stacks. All stacks are monitored regularly for gaseous emissions by TNPCB and MOEF approved Laboratory and the results are being submitted regularly to TNPCB. Complied with. Annexure-2 In event of failure of any pollution control system, the unit shall be immediately put of operation and same will be communicated to TNPCB regional officer Tamil Nadu. No failure encountered so far.
11.	Regular monitoring of the air and water quality should be carried out in and around the power plant and records to be maintained. Six monthly reports shall be submitted to the SEIAA, Tamil Nadu, MOEF Regional Office, and Bangalore.	Regular monitoring of the air and water quality is being done by both internal laboratory weekly and quarterly by external (MOEF approved) laboratory. Six monthly reports are submitted to the SEIAA, Tamil Nadu, MoEFCC Regional Office. Complied with.

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12.	A separate environment and safety management cell with qualified staff shall be maintained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.	Separate steering committee for Environment & Safety Management with qualified staff is available. Every month EMP meeting is held and once in six months comprehensive Management review of Environmental performance is being done. Complied with.
13.	The unit shall provide on line continuous stack monitoring for SO _x , NO _x , CO, SPM for the proposed 16 TPH boiler.	On line Flue gas Analyser of M/s.Kane International Ltd. U.K make is provided for SO _x , NO _x & CO. On line Stack Emission analyser of M/s. Sintrol, Finland make is provided for SPM monitoring. Complied with. Annexure-1
14.	The unit shall provide adequate control measures for the CO emission during start up and shut down operations of the boiler.	Online CO emission monitoring facility is available. In addition, Online O ₂ analyzer is also provided to ensure adequate Oxygen supply during start-up and shut down to control CO emission. Complied with.
15.	Ash generated should be disposed as per the provisions stipulated in the Fly-ash Notification of September, 1999 and as amended in August, 2003.	Ash generated is disposed as per the provisions stipulated in the Fly-ash Notification. Complied with.
16.	For Solid – waste management, composing arrangements shall be provided for biodegradable waste at site.	Vermi compost pits are constructed for the waste arising from our canteen. Complied with.
17.	The Project Proponent shall implement the Environment Management Plan.	Environment management plan is available through which resource conservation activities are being carried out .Through EMP we had drastically reduced our specific consumption. Complied with.
18.	The environmental Clearance is hereby accorded only for the replacement of 2 x 7 TPH boilers with 1 x 16 TPH boiler with power generation of 0.995 MW.	2 x 7 TPH boilers are decommissioned and replaced with 1 x 16 TPH boilers with power generation of 0.995 MW. EC for expansion of capacity of the CPP up to 1.5 MW through technological up gradation has been obtained from MoEF (IA Division). Complied with.

GENERAL CONDITIONS COMPLIANCE STATUS

S.No.	General Conditions	Compliance Status
01.	It is mandatory for the project proponent to furnish to the SEIAA. Half yearly compliance report in hard and soft copies on 1 st June and 1 st December in the prior Environmental Clearance.	Half yearly compliance report submitted to the SEIAA, Tamil Nadu. Complied with.
02.	In the case of any change (s) in the scope of the project, a fresh appraisal by the SEIAA shall be obtained.	Appraisal for capacity expansion of the CPP up to 1.5 MW was forwarded to SEIAA through letter no: APL/CDL/SEIAA/078/2014-15 dated 6 th Nov 2014. SEIAA directed to approach MoEF for clearance through letter no: SEIAA-TN/F.No.5059/1(d)/2014/dated 20.11.2014. EC for expansion of capacity of the CPP up to

P. Jayakanthan

		1.5 MW through technological up gradation has been obtained from MoEF (IA Division)
03	The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the Environmental clearance under the provisions of the Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed upon.
04.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.	All the clearances as required have been obtained. Complied with.
05.	The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing the public that i. The project has been accorded Environmental Clearance. ii. Copies of Clearance letters are available with the Tamil Nadu Pollution Control Board. iii. Environmental Clearance may also be seen on the website of the SEIAA. The advertisement should be issued within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the SEIAA.	We have advertised in two local newspapers (Dinamani & The Hindu) which are widely circulated in the region, one of which in the vernacular language (in Dinamani)informing the public that i. The project has been accorded Environmental Clearance. ii. Copies of Clearance letters are available with the Tamil Nadu Pollution Control Board. Complied with. Annexure-13.
06	All the stipulations stated under Part A and Part B above would be enforced in addition to the provisions of Water (Prevention and Control of Pollution)Act,1974, the Air (Prevention and Control of Pollution)Act,1981,the Environment (Protection) Act,1986, the Public Liability (Insurance)Act,1991 and EIA Notification, 2006.	Agreed upon.
07	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in Part – A & Part – B of the Environmental Clearance.	Agreed upon.
08	This Environmental Clearance is valid for five years from the date of issue.	Agreed upon.


P. Jayakanthan .

HAZARDOUS WASTE AUTHORIZATION CONSENT CONDITIONS COMPLIANCE REPORT FOR
ASIAN PAINTS, PENTA DIVISION

Reference: Authorization No.16HRC6860551 Dated 26/12/2016

Proceedings No. T 11/TNPCB/F.0020CUD/HWA/RL/CUD/2016 DT. 26.12.2016

S.No.	Consent Conditions	Compliance Status.
01	The Occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other wastes.	Agreed upon.
02	The occupier shall follow the following steps for the management of hazardous and other wastes.(a)Prevention (b)Minimization (c) reuse (d) recycling (e) recovery, utilization including co-processing and (f) safe disposal.	All the following steps were followed for the management of the Hazardous waste: a. Prevention b. Minimization c. Reuse d. Recycling e. Recovery, utilization including co-Processing f. Safe disposal
03	The occupier shall take all the steps while managing hazardous and other wastes- (a). To contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) to provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.	All the necessary steps to manage the hazardous wastes were taken including: (a). containing contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) providing appropriate training, equipment and the information necessary to the persons working in the site to ensure their safety.
04	The occupier shall store the hazardous waste and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing , co processing and utilization of such wastes and make the records available for inspection.	No Hazardous waste is stored beyond 90 days and records were maintained regarding sale, transfer, recycling, recovery, pre-processing, co processing and utilization of the wastes and made available for inspection.
05	The hazardous and other wastes shall be stored temporarily in an isolated area earmarked for the purpose within the occupiers premises(it shall not be accessible to rain water) till scientific disposal. The storage area shall be fenced properly and a sign of danger should be placed at the storage site.	The Hazardous wastes were stored in a earmarked premises which is properly covered with shed and fence with a sign of danger displayed.
06	The container holding hazardous and other wastes shall be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation. Only properly cleaned container shall be used for storage of hazardous and other wastes.	The containers holding the Hazardous and other wastes are kept in good condition which can withstand all physical and environmental conditions during storage and transportation. Only properly cleaned containers were used for storage for Hazardous and other wastes.
07	The occupier handling hazardous or other wastes shall maintain records of such operations of generation, handling, storage and disposal as per Form-3.	Necessary informations regarding the Hazardous wastes were maintained in Form 3.

P. Jayakanthan

08	The hazardous and other wastes generated in the establishment of the occupier shall be sent or solid to an authorised actual user or shall be disposed of in an authorised disposal facility.	The Hazardous wastes generated in the establishment were sent to an authorised user / disposal facility.
09	The occupier handling hazardous or other wastes shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the central pollution control board from time to time.	The Hazardous wastes were packed in manner suitable for safe handling, storage and transport as per the guide lines issue by the CPCB.
10	The labelling of package of hazardous or other wastes shall be done as per Form -8. The label shall be of non – washable material, weather proof and easily visible.	The labelling of package of hazardous or other wastes was done as per Form 8.
11	The hazardous and other wastes shall be transported from the occupier's establishment to an authorised actual user or to an authorized disposal facility in accordance with the provisions of these rules.	The Hazardous wastes were transported to an authorised user /disposal facility in accordance with the provisions of these rules.
12	The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.	The transport of the hazardous and other wastes is in accordance with the provisions of these rules and the rules made by the central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.
13	The occupier shall provide the transporter with the relevant information in Form 09, regarding the hazardous nature of the wastes and measures to be taken in case of emergency and shall label the hazardous and other waste containers as per Form-8	The Transporters were provided with relevant information in Form 9, regarding the hazardous nature of the wastes and measures will be taken in case of any emergency and the hazardous waste containers were labelled as per Form -8.
14.	The authorization for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.	Complied with.
15	The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10	Hazardous wastes Manifests were maintained in Form 10.
16	The occupier or the operator or the transporter shall immediately intimate TNPCB through telephone, email about the accident and subsequently send a report in Form-11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation.	Will be complied in case of any emergency situations.
17	The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility , such specific information as may be needed for safe storage and disposal.	All specific information regarding the hazardous wastes was given to the Disposal facility for ensuring safe disposal of the Hazardous wastes.

18	The occupier shall be liable for all damages caused to the environment due to improper handling and management of the hazardous and other wastes.	Agreed upon.
19	The occupier handling hazardous and other wastes shall submit annual returns containing the details specified in Form 4 to TNPCB on or before the 30 th day of June of every year for the preceding period April to March.	Annual returns were submitted as per the time lines every year.
20	Any increase in quantity of handling of hazardous and other wastes, any change in category of hazardous and other wastes and any change in method of handling operations shall be brought to the notice of the TNPCB and fresh authorization shall be obtained.	Will be complied with in case of any changes in the quantity or category.

SCHEDULE-A

S.No.	Consent Conditions	Compliance Status.
1	The authorised person shall comply with the provisions of Environment Act 1986 and the rules made there under	All the provisions of Environment Act 1986 and the rules made under were complied with.
2	The authorization or its renewal shall be produced for inspection at the request of any office authorized by the Tamilnadu pollution control board.	The authorization or its renewal will be produced for inspection at the request of any office authorized by the Tamilnadu pollution control board.
3	The Person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.	Complied with.
4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Agreed upon.
5	The person authorised shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenario such as spillages, leakages, fire, etc. and their possible impact and also carry out mock drill in this regard at regular interval of time.	Necessary Emergency Response Procedure is in place for all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impact. Mock drills were carried out at regular intervals.
6	The person authorized shall comply with the provisional outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty".	All the provisional outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty" were complied with.
7	It is the duty of the authorised person to take prior permission of Tamil Nadu Pollution control Board to close down the facility.	Will be complied in case of such situations.
8	The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.	There are no imported Hazardous wastes.

P. Jayakantha

9	The record of consumption and fate of the imported hazardous and other wastes shall be minimized.	There are no imported Hazardous wastes.
10	The hazardous and other wastes which gets generated during the recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.	There are no imported Hazardous wastes.
11	The importer or Exporter shall bear the cost of improper or export or mitigation of damages if any.	There is no Import/Export of Hazardous wastes.
12	An application for the renewal of an authorization shall be made as laid down under these rules.	Application for the renewal will be made as per the rules.
13	Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.	All the conditions were complied with
14	Annual returns shall be filed by June 30 th for the period ending 31 st March of the previous financial year.	Annual returns were submitted as per the time lines.

Additional Conditions:

1	The unit shall dispose the spent oil to the units having valid authorization of the Board and registration certificate as recyclers and necessary endorsement shall be made in respect of the quantity transacted in the original letter of registration issued to the recycling unit lifting used oil.	The spent oils were disposed to the authorized Recyclers.
2	The hazardous wastes shall be stored in compatible container on an impervious platform in closed shed which shall be provided with requisite fire protection system, personal protective equipment and safety system.	The hazardous wastes are stored in compatible container on an impervious platform in closed shed with all safety systems.
3	The person authorized shall comply with all the conditions stipulated in the authorization and other conditions of the Hazardous and other wastes (Management and transboundary Movement) Rules, 2016	All the conditions were complied with.
4	The unit shall maintain Form-3 and maintain Form 4 prescribed under the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.	Form-3 and Form-4 were maintained as per the Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016
5	The Hazardous wastes will be disposed only with manifest that shall be maintained in Form 10 of the Hazardous and other wastes (Management and Transboundary) Rules ,2016	The Hazardous wastes were disposed only with manifest.
6	The Manifest shall be endorsed by the despatcher, transporter and receiver of hazardous wastes. The endorsed copy of the manifest shall be furnished to	Complied with.

	TNPCB as and when such disposal is made.	
7	The unit shall ensure that all provisions of Hazardous and other wastes (management and transboundary)Rules 2016 as amended are complied with while handling hazardous waste.	All provisions of Hazardous wastes Rules 2016 are complied with.
8	The authorization is subject to the terms and conditions as may be specified in the rules for the time being in force under the Environment(Protection)Act, 1986 and the conditions mentioned in the schedule A & B .	Agreed upon.
9	The unit shall not store the Hazardous waste generated outside the premises of the unit.	Complied with.
10	The unit shall dispose the accumulated quantity of hazardous wastes immediately.	Complied with.
11	The unit shall apply and obtain authorization if there is any change in the quantity of hazardous waste generation as specified in the previous authorization issued by the Board.	Will be Complied in case of any change in the quantity of Hazardous waste.
12	The unit shall dispose the Hazardous waste generated then and there as per authorization issued by the Board without any accumulation.	The generated Hazardous wastes are disposed as per the authorisation issued by the Board without any accumulation.

P. Jayakanthan

Annexure 1 – SPM, SO_x, NO_x Analyzer photo

Online stack analyzers connected to care air centre

- Online Boiler stack SPM analyzer.



- Online Boiler flue gas SO_x / NO_x analyzer.



Annexure 2 – Stack Report (TNPCB and External)



TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

STACK MONITORING SURVEY – Report of Analysis.

Report F. No. 62 /SM/2016-2017, dated: 28.10.2016

1. Name of the Industry : M/s. Asian Paints – Captive Power Plant,
2. Address of the Industry : B-5 to B-10 Sipcot Industrial Complex,
Cuddalore – 5.
3. Date of Survey : 27.10.2016.

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp °k	Flue Gas Velocity in (m/Sec)	Gas Discharge rate in (Nm ³ /day)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO _x
1	Boiler 16 T/hr.	426	13.95	662623	45	46	167

Special observations: Nil

A. Palani
28/10/16
Environmental Scientist

V. Thangaraj
28/10/2016
Assistant Director (Lab)
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.



TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

STACK MONITORING SURVEY – Report of Analysis.

Report F. No. 2 /SM/2016-2017, Dated: 21.12.2016.

1. Name of the Industry : M/s. Asian Paints – (Penta Division)
2. Address of the Industry : B-5 To B – 10 Sipcot Industrial Complex,
Cuddalore – 5.
3. Date of Survey : 23.11.2016.

Stack Monitoring Survey Results

Sl. No	Stack attached to	Stack Temp. ^o k	Flue Gas Velocity in (m/Sec)	Gas Discharge rate in (m ³ /day)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO _x
1	Captive Power Plant Boiler – 16 T/hr	418	12.87	622742	46	48	159
2	DG set I - 600 KVA	533	19.74	46827	47	7	50
3	DG set II - 500 KVA	518	15.39	37552	47	9	54
4	Sodium Formate dryer – Wet scrubber outlet	307	10.59	10041	6	-	-
5	Mono Pentaerithritol dryer – Wet scrubber outlet	309	18.15	26772	4	-	-
6	Di Pentaerithritol dryer – Wet scrubber outlet	309	9.21	8667	8	-	-
7	Fluid Bed dryer – Bag filter outlet	327	7.73	29892	57	-	-

A. R. Sankar
21/12/16
Environmental Scientist

V. Thirupathi
21/12/16
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No:E-S-146L-12-P		Reported On : 30.12.2016			
Client name & Address : -		M/s. Aslan Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005			
Sample Matrix	Stack Emission				
Name of the Source	DG - 500 KVA				
General Sampling Procedure	IS 11255 Method				
Sample drawn by	Laboratory Representative				
Sampling on	21.12.2016				
Sample Received on	23.12.2016				
Analysis commenced on	23.12.2016				
Analysis completed on	29.12.2016				
S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	0.25	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	540	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	19.60	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	1906.10	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	86.47 ✓	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	13.52 ✓	Not specified
7	Particulate Matter(PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	29.34 ✓	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory

S. Sathyanarayanan
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



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www.linkedin.com/company/aqua-designs-india-pvt-ltd

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No: E-S-147L-12-P Reported On : 30.12.2016

Client name & Address : - **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix Stack Emission
Name of the Source **DG - 600 KVA**
General Sampling Procedure IS 11255 Method
Sample drawn by Laboratory Representative
Sampling on 21.12.2016
Sample Received on 23.12.2016
Analysis commenced on 23.12.2016
Analysis completed on 29.12.2016

S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	0.25	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	562	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	23.26	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	2172.68	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	93.15 ✓	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	14.90 ✓	Not specified
7	Particulate Matter (PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	35.43 ✓	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory
S. Sathiyamoorthy
S. Sathiyamoorthy
Asst. Manager-Environmental

R. Vijaya
Authorised Signatory
R. VIJAYA
Quality Manager

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Web : www.aquadesigns.in



LABORATORY SERVICES DIVISION



Sample Ref No:E-S-14BL-12-P Reported On : 30.12.2016

Client name & Address :- **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix **Stack Emission**
Name of the Source **BOILER (16TPH)**
General Sampling Procedure **IS 11255 Method**
Sample drawn by **Laboratory Representative**
Sampling on **21.12.2016**
Sample Received on **23.12.2016**
Analysis commenced on **23.12.2016**
Analysis completed on **29.12.2016**

S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	1.0	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	439	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	13.41	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	25686.60	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	124.69	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	34.85	Not specified
7	Particulate Matter(PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	41.6	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory
S. Sathyanarayanan
Asst. Manager-Environmental

Authorised Signatory
R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No: E-S-149L-12P Reported On : 30.12.2016

M/s. Asian Paints Limited,
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix	Process Stack - VOC
Sample Mark	Mono Drier
Sample Collected by	Lab representative
Sample Collected on	21.12.2016
Sample Received On	23.12.2016
Test Start Date	23.12.2016
Test End Date	29.12.2016

S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.
.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-S-150L-12-P		Reported On : 30.12.2016		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	DI Drier			
Sample Collected by	Lab representative			
Sample Collected on	21.12.2016			
Sample Received On	23.12.2016			
Test Start Date	23.12.2016			
Test End Date	29.12.2016			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.
.....End of Report.....

Verified Signatory
S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory
R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-S-151L-12-P		Reported On : 30.12.2016		
Client name & Address : -		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	SF Drier Stack			
Sample Collected by	Lab representative			
Sample Collected on	21.12.2016			
Sample Received On	23.12.2016			
Test Start Date	23.12.2016			
Test End Date	29.12.2016			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1) ✓
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1) ✓
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1) ✓

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.
.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-S-152L-12-P		Reported On : 30.12.2016		
Client name & Address : -		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	FBD Drier Stack			
Sample Collected by	Lab representative			
Sample Collected on	21.12.2016			
Sample Received On	23.12.2016			
Test Start Date	23.12.2016			
Test End Date	29.12.2016			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....

Verified Signatory

S. SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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**TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.**

STACK MONITORING SURVEY – Report of Analysis.

Report F. No. 62 /SM/2016-2017, dated: 13.01.2017

1. Name of the Industry : M/s. Asian Paints – Captive Power Plant,
2. Address of the Industry : B-5 to B-10 Sipcot Industrial Complex,
Cuddalore – 5.
3. Date of Survey : 10.01.2017.

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp °k	Flue Gas Velocity in (m/Sec)	Gas Discharge rate in (Nm ³ /day)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO _x
1	Boiler 16 T/hr.	427	13.50	639401	44	47	168

Special observations: Nil

A. Balasubramanian
Environmental Scientist
13/1/17

V. Thiagarajan
Assistant Director (Lab)
13.1.17
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.



TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

STACK MONITORING SURVEY – Report of Analysis.

Report F. No. 62 /SM/2016-2017, dated: 17.02.2017

1. Name of the Industry : M/s. Asian Paints – Captive Power Plant,
2. Address of the Industry : B-5 to B-10 Sipcot Industrial Complex,
Cuddalore – 5.
3. Date of Survey : 10.02.2017.

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp °k	Flue Gas Velocity in (m/Sec)	Gas Discharge rate in (Nm ³ /day)	Pollutants (mg/Nm ³)		
					PM	SO ₂	NO _x
1	Boiler 16 T/hr.	428	13.99	661072	45	49	174

Special observations: Nil

A. Balakrishnan
13/2/17
Environmental Scientist

V. Thiruganapathi
Assistant Director (Lab)
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No:E-5-91L-03-P		Reported On : 20.03.2017			
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuttalore - Pin Code No.: 607 005			
Sample Matrix	Stack Emission				
Name of the Source	DG - 500 KVA				
General Sampling Procedure	IS 11255 Method				
Sample drawn by	Laboratory Representative				
Sampling on	13.03.2017				
Sample Received on	15.03.2017				
Analysis commenced on	15.03.2017				
Analysis completed on	17.03.2017				
S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	0.25	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	512	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	21.36	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	1825	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	198.68	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	16.89	Not specified
7	Particulate Matter(PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	31.65	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory

Authorised Signatory

G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No:E-S-92L-03-P		Reported On : 20.03.2017			
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - Pin Code No.: 607 005			
Sample Matrix	Stack Emission				
Name of the Source	DG - 600 KVA				
General Sampling Procedure	IS 11255 Method				
Sample drawn by	Laboratory Representative				
Sampling on	13.03.2017				
Sample Received on	15.03.2017				
Analysis commenced on	15.03.2017				
Analysis completed on	17.03.2017				
S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	0.25	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	536	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	20.87	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	2055	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	213.35	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	17.69	Not specified
7	Particulate Matter(PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	37.81	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environment

Authorised Signatory
G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref No: E-5-93L-03-P		Reported On : 20.03.2017			
Client name & Address : -		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - Pin Code No.: 607 005			
Sample Matrix	Stack Emission				
Name of the Source	BOILER (16 TPH)				
General Sampling Procedure	IS 11255 Method				
Sample drawn by	Laboratory Representative				
Sampling on	13.03.2017				
Sample Received on	15.03.2017				
Analysis commenced on	15.03.2017				
Analysis completed on	17.03.2017				
S.No	Parameters	Units	Method	Results	* CPCB Limits
1	Dia meter of the stack at Porthole	m	Direct measurement	1.0	Not specified
2	Stack Temperature	K	IS 11255 PART 3 2008	411	Not specified
3	Stack velocity	m/s	IS 11255 PART 3 2008	15.68	Not specified
4	Stack Gas Flow Rate	Nm ³ /hr	IS 11255 PART 3 2008	24332	Not specified
5	Oxides of Nitrogen (NO ₂)	mg/Nm ³	IS 11255 PART 7 2005	112.58	Not specified
6	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 PART 2 1985 RA 2003	12.36	Not specified
7	Particulate Matter(PM)	mg/Nm ³	IS 11255 PART 1 1985 RA 2003	29.77	150
8	Carbon Monoxide (CO)	%	IS 13270:1992 RA 2009	< 0.2	Not specified

* CPCB - Central pollution Control Board

.....End of Report.....

Verified Signatory

Authorised Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environment!

G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-S-95L-03-P		Reported On : 20.03.2017		
Client name & Address :-		M/s. Aslan Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudlkadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	Mono Drier			
Sample Collected by	Lab representative			
Sample Collected on	13.03.2017			
Sample Received On	15.03.2017			
Test Start Date	15.03.2017			
Test End Date	17.03.2017			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental


Authorised Signatory
G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-S-96L-03-P		Reported On : 20.03.2017		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	SF - Drier			
Sample Collected by	Lab representative			
Sample Collected on	13.03.2017			
Sample Received On	15.03.2017			
Test Start Date	15.03.2017			
Test End Date	17.03.2017			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environment


Authorised Signatory

G.MADHANAGOPAL
Lab Manager

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TEST REPORT

Sample Ref.No:E-S-97L-03-P		Reported On : 20.03.2017		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Process Stack - VOC			
Sample Mark	FBD - Drier			
Sample Collected by	Lab representative			
Sample Collected on	13.03.2017			
Sample Received On	15.03.2017			
Test Start Date	15.03.2017			
Test End Date	17.03.2017			
S.No	Parameters	Units	Method	Results
1	Formaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
2	Acetaldehyde*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)
3	Methanol*	mg/Nm ³	USEPA TO 18	BLQ(DL 0.1)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental


Authorised Signatory

G.MADHANAGOPAL
Lab Manager

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Annexure 3 – NAAQ Report

LABORATORY SERVICES DIVISION



TEST REPORT

Innoce n. 1412 EWS / good +
300064 / 31/10/16


Sample Ref. NO : E-A-78L-10-P Reported On : 13.10.2016

Client name & Address :- M/s. Asian Paints Limited,
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix: Ambient Air Quality
 Sample Mark: Near by Online AAQ Station
 Sample Collected by: Lab representative
 Sample Collected on: 08.10.2016
 Sample Received On: 08.10.2016
 Test Start Date: 08.10.2016
 Test End Date: 13.10.2016

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Total Hydrocarbons as n-Octane	µg/m ³	USEPA TO 17	BDL(DL :0.10)	Not Specified
2	Carbon Monoxide (CO)	mg/m ³	IS 5182 Part 10 1999, RA 2009	BDL(DL :1.15)	4*

(i) NAAQ- National Ambient Air Quality Standards. (ii) TWA - Time Weighed Average. * TWA for 1 hour.
 BDL:Below Detection level. DL: Detection Limit.

Verified Signatory 
 R.S.Ganeshkumar-Asst.Manager


 Authorised Signatory
R. VIJAYA
 Quality Manager

NOTE :
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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref. NO : E-A-191L-11-P Reported On : 14.11.2016

Client name & Address : - **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix **Ambient Air Quality**
Sample Mark **Near by Online AAQ Station**
Sample Collected by **Lab representative**
Sample Collected on **22.11.2016**
Sample Received On **23.11.2016**
Test Start Date **23.11.2016**
Test End Date **24.11.2016**

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Total Hydrocarbons as n-Octane**	µg/m ³	USEPA TO 17	BDL(DL :0.10)	Not Specified
2	Carbon Monoxide (CO)	mg/m ³	IS 5182 Part 10 1999, RA 2009	BDL(DL :1.15)	4*

(i) NAAQ- National Ambient Air Quality Standards. (ii) TWA - Time Weighed Average. * TWA for 1 hour.

BDL:Below Detection level. DL: Detection Limit. **Parameter not covered NABL scope.

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

G.MADHANAGOPAL
Lab Manager

NOTE :

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TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

AMBIENT AIR QUALITY SURVEY – REPORT OF ANALYSIS.

Report F. No. 2 /AAQS/2016-2017, dated: 21.12.2016

1. Name of the Industry : M/s. Asian Paints Ltd,
(Penta Division)
2. Address of the Industry : Sipcot Industrial Complex,
Cuddalore – 5.
3. Category / Classification : Red – Large.
4. Land use classification : Industrial.
5. Date of Survey : 23.11.2016
6. Duration of Survey : 8 Hours.

Meteorological Conditions.

Ambient Temperature (°C)	Min	Max	Relative Humidity(%)	Min	Max
	24.2	29.3		40	77
Weather condition	Clear		Rain Fall (mm)	-	
Predominant Wind Direction	NE – SW, SE – NW		Mean Wind Speed (Km/hr.)	1.35	

Ambient Air Quality Survey Results

Sl. No	Location	Direction *	Distance (m)*	Height from GL (m)	Pollutants Concentration (µg/m ³)			
					PM ₁₀	PM _{2.5}	SO ₂	NO ₂
1	On top of the Scaffolding near North East side Compound wall	NE	220	2	-	28	-	-
2	On top of the Scaffolding near Eastern side Compound wall	E	220	2	22	-	20	14
3	On top of the Scaffolding near ETP	SE	260	2	36	-	26	26
4	On top of the Scaffolding near Old gate	SW	200	2	-	38	-	-
5	On top of the Scaffolding in Lawn	W	200	2	48	-	30	30
6	On top of the Scaffolding near EB yard	NW	200	2	68	-	34	36

A. Balasub
21/12/16
Environmental Scientist

V. Thangavelu
21/12/16
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.



**TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.**

TOTAL VOLATILE ORGANIC COMPOUNDS – Report of Analysis.

Report F. No. 2 /TVOC/2016-2017, dated: 21.12.2016.

1	Name of the Industry	M/s. Asian Paints Ltd, (Penta Division)		
2	Address of the Industry	B-5 To B-10 Sipcot Industrial Complex, Cuddalore – 5.		
3	Date of Survey	23.11.2016		
	Category	R-L	Land use Classification	Industrial
	Type of Survey	Ambient	Time of Survey	Day
	Meteorological conditions	Calm		

Logging Parameters

Instrument used	Phocheck Tiger
Serial No	T – 106428
Time in hours	15.30 hrs

Report of Total Volatile Organic Compounds

Sl. No.	Location	Distance (m)	Direction	TVOC at ppm
1	Near Formaldehyde Plant	70	SE	0.058
2	Near Caustic Storage Tank	50	S	0.062
3	Near Scrap Yard	60	SW	0.086

A. Balasubramanian
Environmental Scientist

V. Thangavelu
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.



TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

AMBIENT/SOURCE NOISE LEVEL SURVEY – Report of Analysis.

Report F. No. 2 /NLS/2016-2017 dated: 21.12.2016.

1	Name of the Industry	M/s. Asian Paints Ltd, (Penta Division)		
2	Address of the Industry	B-5 To B-10 Sipcot Industrial Complex, Cuddalore – 5.		
3	Date of Survey	23.11.2016		
Category		R-L	Land use Classification	Industrial
Type of Survey		Ambient	Time of Survey	Day
Meteorological conditions		Calm		

Logging Parameters

Instrument Used	QUEST TECH Serial No. CC8110033				
Logging Interval	10 Minutes at each point	Measuring Range 50 – 110 dBA			
Weighting	"A"	Peak Weighting	"C"	Time Weighting	Fast
Sound Incidence	Frontal		Time in hrs.	09.40 – 11.40 Hrs	

Report of Noise Level Monitoring

Sl. No.	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	Min	Max
1	Near Northern side Compound wall	10	100	N	56.6	49.5	72.3
2	Near North East side Compound wall	10	220	NE	56.7	49.4	72.1
3	Near Eastern side Compound wall	10	220	E	54.5	47.1	69.2
4	Near ETP	10	260	SE	55.3	50.6	68.4
5	Near Southern side Compound wall	10	160	S	58.6	51.3	73.3
6	Near Old gate	10	200	SW	56.5	49.3	71.8
7	Near Western side Compound wall	10	200	W	54.6	47.3	69.4
8	Near Vehicle shed	10	200	NW	55.4	50.9	68.7

A. Balasubramanian
Environmental Scientist
21/12/16

V. Theodoraj
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.



TAMIL NADU POLLUTION CONTROL BOARD

ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

BILL

Lr.No. F. 2 /AAQ/SM/2016-2017, dated: 21.12.2016.

To

M/s. Asian Paints Ltd,
(Penta Division)
B-5 To B-10 Sipcot Industrial Complex,
Cuddalore.

Ref: Cash Receipt No. 26299 dated 12.1.17 for Rs. 89,600/-

....

Sl. No.	Description	No. of Stations	Rate (Rs.)	Amount (Rs.)
1	Ambient Air Quality Survey PM ₁₀ & PM _{2.5}	6	2,000	12,000
2	Analysis Charges – PM ₁₀	4	600	2,400
3	Analysis Charges – PM _{2.5}	2	600	1,200
4	Analysis Charges – Sulphur-Dioxide	4	600	2,400
5	Analysis Charges – Nitrogen-Dioxide	4	600	2,400
6	Stack Monitoring	7	5,500	38,500
7	Sampling of SO ₂ / NO _x	3	2,000	6,000
8	PM	7	600	4,200
9	SO ₂	3	600	1,800
10	NO _x	3	600	1,800
11	Ambient Noise Level Testing charges (First 5 Points)	5	-	4,000
12	Ambient Noise Level Testing (each additional stations)	3	300	900
13	TVOC	3	4,000	12,000
	Total			89,600
	Less: Amount received vide above			89,600
	Balance			Nil

E & O E

A. Parasath
21/12/16
Environmental Scientist

V. Thudaleen
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-140L-12-P Reported On:30.12.2016

Client name & Address:	M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005
Sample Matrix	Ambient Air Quality
Location	Near Weigh Bridge Area (Down Wind Direction)
General Sampling Procedure	IS 5182 Method
Sample Drawn by	Laboratory Representative
Sampling On	From 21.12.2016 to 22.12.2016
Sampling Time	From 11.30 to 11.30
Sample Received On	23.12.2016
Test Commenced On	23.12.2016
Test Completed On	29.12.2016

WEATHER CONDITION

Ambient Temperature ° C	32.5
Relative Humidity %	51.7
Climate Condition	Clear Sky
Predominant Wind Direction	W,NW

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182 Part 2 2001 RA :2012	10.85 ✓	80
2	Oxides of Nitrogen(NO ₂)	µg/m ³	IS 5182 Part 6 2006 RA :2012	18.53 ✓	80
3	Respirable Particulate Matter (size less than 10µm)/PM10	µg/m ³	IS 5182 Part 23 2006 RA :2012	52.36 ✓	100
4	Respirable Particulate Matter (size less than 2.5µm)/PM2.5	µg/m ³	ADIPL/SOP/CDA/006	23.47 ✓	60
5	Ozone (O ₃)	µg/m ³	ADIPL/SOP/CDA/008	11.68	180*
6	Lead (Pb)	µg/m ³	ADIPL/SOP/CDA/017 By ICP - MS	<0.002 ✓	1
7	Carbon Monoxide (CO)	mg/m ³	ADIPL/SOP/CDA/005	< 1.15	4*
8	Ammonia (NH ₃)	µg/m ³	ADIPL/SOP/CDA/007	34.15	400
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 Part 11 2006 RA :2012	<0.5	5**
10	Benzo (a) Pyrene (BaP) Particulate Phase Only.	ng/m ³	IS 5182 PART 12 2004 RA 2009	< 0.2	1**
11	Arsenic (As)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	6**
12	Nickel (Ni)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	20**

(i) NAAQ- National Ambient Air Quality Standards. (ii) TWA - Time Weighed Average
 * TWA for 1 hour ** TWA for Annual

.....End of Report.....

Verified Signatory

 S. Sathyanarayanan
 Asst. Manager- Environmental

Authorised Signatory

 R. VIJAYA
 Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-141L-12-P		Reported On:30.12.2016			
Client name & Address:		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005			
Sample Matrix	Ambient Air Quality				
Location	Near by Coal Area (Up Wind Direction)				
General Sampling Procedure	IS 5182 Method				
Sample Drawn by	Laboratory Representative				
Sampling On	From 21.12.2016 to 22.12.2016				
Sampling Time	From 11.50 to 11.50				
Sample Received On	23.12.2016				
Test Commenced On	23.12.2016				
Test Completed On	29.12.2016				
WEATHER CONDITION					
Ambient Temperature ° C	32.5				
Relative Humidity %	51.7				
Climate Condition	Clear Sky				
Predominant Wind Direction	W,NW				
S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182 Part 2 2001 RA :2012	13.42 ✓	80
2	Oxides of Nitrogen(NO ₂)	µg/m ³	IS 5182 Part 6 2006 RA :2012	25.73 ✓	80
3	Respirable Particulate Matter (size less than 10µm)/PM10	µg/m ³	IS 5182 Part 23 2006 RA :2012	60.28 ✓	100
4	Respirable Particulate Matter (size less than 2.5µm)/PM2.5	µg/m ³	ADIPL/SOP/CDA/006	26.84	60
5	Ozone (O ₃)	µg/m ³	ADIPL/SOP/CDA/008	14.51 ✓	180*
6	Lead (Pb)	µg/m ³	ADIPL/SOP/CDA/017 By ICP - MS	<0.002	1
7	Carbon Monoxide (CO)	mg/m ³	ADIPL/SOP/CDA/005	< 1.15 ✓	4*
8	Ammonia (NH ₃)	µg/m ³	ADIPL/SOP/CDA/007	37.24	400
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 Part 11 2006 RA :2012	<0.5	5**
10	Benzo (a) Pyrene (BaP) Particulate Phase Only.	ng/m ³	IS 5182 PART 12 2004 RA 2009	< 0.2	1**
11	Arsenic (As)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	6**
12	Nickel (Ni)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	20**

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

* TWA for 1 hour

** TWA for Annual

.....End of Report.....

Verified Signatory

S. Sathyanarayanan
Asst. Manager- Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Page 01 of 03

Sample Ref.No:E-A-142-12-P

Reported On : 30.12.2016

Client name & Address :-

M/s. Asian Paints Limited,
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix

Ambient Air - VOC

Quantity of Sample Received

Near Weigh Bridge Area (Down Wind Direction)

Sampling Method

USEPA TO 17

Sample Collected by

Laboratory Representative

Sample Collected on

21.12.2016

Sample Received On

23.12.2016

Test Start Date

23.12.2016

Test End Date

29.12.2016

VOC - Volatile Organic Compounds*

S.No	Parameters	Units	Method	Results
1	Bromomethane	µg/m ³	USEPA TO 17	< 0.1
2	Chloroethane	µg/m ³	USEPA TO 17	< 0.1
3	Chloromethane	µg/m ³	USEPA TO 17	< 0.1
4	Dichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
5	Trichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
6	Vinyl Chloride	µg/m ³	USEPA TO 17	< 0.1
7	Benzene	µg/m ³	USEPA TO 17	< 0.1
8	Bromobenzene	µg/m ³	USEPA TO 17	< 0.1
9	Bromochloromethane	µg/m ³	USEPA TO 17	< 0.1
10	Bromodichloromethane	µg/m ³	USEPA TO 17	< 0.1
11	Bromoform	µg/m ³	USEPA TO 17	< 0.1
12	Carbon tetrachloride	µg/m ³	USEPA TO 17	< 0.1
13	Chlorobenzene	µg/m ³	USEPA TO 17	< 0.1
14	Chloroform	µg/m ³	USEPA TO 17	< 0.1
15	cis 1,3 - Dichloropropene (z)	µg/m ³	USEPA TO 17	< 0.1
16	Cis 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
17	Isopropyl benzene	µg/m ³	USEPA TO 17	< 0.1
18	Dibromochloromethane	µg/m ³	USEPA TO 17	< 0.1
19	Dibromomethane	µg/m ³	USEPA TO 17	< 0.1
20	Ethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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TEST REPORT

Sample Ref.No:E-A-142-12-P		Reported On : 30.12.2016		
21	Hexachlorobutadiene	µg/m ³	USEPA TO 17	< 0.1
22	p, m-xylene	µg/m ³	USEPA TO 17	< 0.1
23	Methylene chloride	µg/m ³	USEPA TO 17	< 0.1
24	N-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
25	o-Xylene	µg/m ³	USEPA TO 17	< 0.1
26	p-Isopropyltoluene	µg/m ³	USEPA TO 17	< 0.1
27	Styrene	µg/m ³	USEPA TO 17	< 0.1
28	Sec-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
29	Tert - Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
30	Tetrachloroethene	µg/m ³	USEPA TO 17	< 0.1
31	Toluene	µg/m ³	USEPA TO 17	< 0.1
32	Trans 1,3 - Dichloropropene (E)	µg/m ³	USEPA TO 17	< 0.1
33	Trans 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
34	Trichloroethylene	µg/m ³	USEPA TO 17	< 0.1
35	1,1 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
36	1,1 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
37	1,1 - Dichloropropene	µg/m ³	USEPA TO 17	< 0.1
38	n-Propylbenzene	µg/m ³	USEPA TO 17	< 0.1
39	1,1,1 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
40	1,1,1,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
41	1,1,2 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
42	1,1,2,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
43	1,2 - Dibromo -3- chloropropane	µg/m ³	USEPA TO 17	< 0.1
44	1,2 - Dibromoethane	µg/m ³	USEPA TO 17	< 0.1
45	1,2 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
46	1,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
47	1,2 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
48	1,2,3 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
49	1,2,3 - Trichloropropane	µg/m ³	USEPA TO 17	< 0.1
50	1,2,4 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
51	1,2,4 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-142-12-P			Reported On : 30.12.2016	
52	1,3 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
53	1,3,5 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1
54	1,4 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
55	2 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
56	1,3 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
57	2,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
58	4 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
59	Naphthalene	µg/m ³	USEPA TO 17	< 0.1
60	Formaldehyde	µg/m ³	USEPA TO 17	< 0.1
61	Acetaldehyde	µg/m ³	USEPA TO 17	< 0.1
62	Methanol	µg/m ³	USEPA TO 17	< 0.1

BLQ: Below limit of quantification DL: Detection Limit <0.1 * This parameter not covered NABL scope.

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION
TEST REPORT

Sample Ref.No:E-A-143L-12-P		Reported On : 30.12.2016		
Client name & Address : -		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix		Ambient Air - VOC		
Quantity of Sample Received		Near by Coal Area (Up Wind Direction)		
Sampling Method		USEPA TO 17		
Sample Collected by		Laboratory Representative		
Sample Collected on		21.12.2016		
Sample Received On		23.12.2016		
Test Start Date		23.12.2016		
Test End Date		29.12.2016		
VOC - Volatile Organic Compounds*				
S.No	Parameters	Units	Method	Results
1	Bromomethane	µg/m ³	USEPA TO 17	< 0.1
2	Chloroethane	µg/m ³	USEPA TO 17	< 0.1
3	Chloromethane	µg/m ³	USEPA TO 17	< 0.1
4	Dichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
5	Trichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
6	Vinyl Chloride	µg/m ³	USEPA TO 17	< 0.1
7	Benzene	µg/m ³	USEPA TO 17	< 0.1
8	Bromobenzene	µg/m ³	USEPA TO 17	< 0.1
9	Bromochloromethane	µg/m ³	USEPA TO 17	< 0.1
10	Bromodichloromethane	µg/m ³	USEPA TO 17	< 0.1
11	Bromoform	µg/m ³	USEPA TO 17	< 0.1
12	Carbon tetrachloride	µg/m ³	USEPA TO 17	< 0.1
13	Chlorobenzene	µg/m ³	USEPA TO 17	< 0.1
14	Chloroform	µg/m ³	USEPA TO 17	< 0.1
15	cis 1,3 - Dichloropropene (z)	µg/m ³	USEPA TO 17	< 0.1
16	Cis 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
17	Isopropyl benzene	µg/m ³	USEPA TO 17	< 0.1
18	Dibromochloromethane	µg/m ³	USEPA TO 17	< 0.1
19	Dibromomethane	µg/m ³	USEPA TO 17	< 0.1
20	Ethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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TEST REPORT

Sample Ref.No:E-A-143L-12-P		Reported On : 30.12.2016		
21	Hexachlorobutadiene	µg/m ³	USEPA TO 17	< 0.1
22	p, m-xylene	µg/m ³	USEPA TO 17	< 0.1
23	Methylene chloride	µg/m ³	USEPA TO 17	< 0.1
24	N-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
25	o-Xylene	µg/m ³	USEPA TO 17	< 0.1
26	p-Isopropyltoluene	µg/m ³	USEPA TO 17	< 0.1
27	Styrene	µg/m ³	USEPA TO 17	< 0.1
28	Sec-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
29	Tert - Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
30	Tetrachloroethene	µg/m ³	USEPA TO 17	< 0.1
31	Toluene	µg/m ³	USEPA TO 17	< 0.1
32	Trans 1,3 - Dichloropropene (E)	µg/m ³	USEPA TO 17	< 0.1
33	Trans 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
34	Trichloroethylene	µg/m ³	USEPA TO 17	< 0.1
35	1,1 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
36	1,1 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
37	1,1 - Dichloropropene	µg/m ³	USEPA TO 17	< 0.1
38	n-Propylbenzene	µg/m ³	USEPA TO 17	< 0.1
39	1,1,1 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
40	1,1,1,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
41	1,1,2 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
42	1,1,2,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
43	1,2 - Dibromo -3- chloropropane	µg/m ³	USEPA TO 17	< 0.1
44	1,2 - Dibromoethane	µg/m ³	USEPA TO 17	< 0.1
45	1,2 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
46	1,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
47	1,2 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
48	1,2,3 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
49	1,2,3 - Trichloropropane	µg/m ³	USEPA TO 17	< 0.1
50	1,2,4 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
51	1,2,4 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-143L-12-P				Reported On : 30.12.2016
52	1,3 - Dichloropropane	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
53	1,3,5 - Trimethylbenzene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
54	1,4 - Dichlorobenzene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
55	2 - Chlorotoluene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
56	1,3 - Dichlorobenzene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
57	2,2 - Dichloropropane	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
58	4 - Chlorotoluene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
59	Naphthalene	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1
60	Formaldehyde	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1 ✓
61	Acetaldehyde	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1 ✓
62	Methanol	$\mu\text{g}/\text{m}^3$	USEPA TO 17	< 0.1 ✓

BLQ: Below limit of quantification DL: Detection Limit <0.1 * This parameter not covered NABL scope.

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-144L-12-P		Reported On :30.12.2016		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Ambient Air Quality			
Sample Mark	Near Weigh Bridge Area (Down Wind Direction)			
Sample Collected by	Lab representative			
Sample Collected on	21.12.2016			
Sample Received On	23.12.2016			
Test Start Date	23.12.2016			
Test End Date	29.12.2016			
S.No	Parameters	Units	Method	Results
1	Total Hydrocarbons as n-Octane*	µg/m ³	USEPA TO 17	BDL(DL :0.10)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmenta!

Authorised Signatory

R. VIJAYA
Quality Manager

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TEST REPORT

Sample Ref.No:E-A-145L-12-P		Reported On :30.12.2016		
Client name & Address : -		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Ambient Air Quality			
Sample Mark	Near by Coal Area (Up Wind Direction)			
Sample Collected by	Lab representative			
Sample Collected on	21.12.2016			
Sample Received On	23.12.2016			
Test Start Date	23.12.2016			
Test End Date	29.12.2016			
S.No	Parameters	Units	Method	Results
1	Total Hydrocarbons as n-Octane*	µg/m ³	USEPA TO 17	BDL(DL :0.10) ✓

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager Environmental

Authorised Signatory

R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref. NO : E-A-146L-01-P Reported On : 31.01.2017

Client name & Address : - **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix: Ambient Air Quality
Sample Mark: Near by Online AAQ Station
Sample Collected by: Lab representative
Sample Collected on: 28.01.2017
Sample Received On: 30.01.2017
Test Start Date: 30.01.2017
Test End Date: 31.01.2017

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Total Hydrocarbons as n-Octane**	µg/m ³	USEPA TO 17	BDL(DL :0.10)	Not Specified
2	Carbon Monoxide (CO)	mg/m ³	IS 5182 Part 10 1999, RA 2009	BDL(DL :1.15)	4*

(i) NAAQ- National Ambient Air Quality Standards. (ii) TWA - Time Weighed Average. * TWA for 1 hour.
BDL:Below Detection level. DL: Detection Limit. **Parameter not covered NABL scope.

Verified Signatory

Authorised Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

R. VIJAYA
Quality Manager

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T-1728 & T-2235

LABORATORY SERVICES DIVISION

Handwritten: 13/02/2017 = 300103 / 05/2/17
Aqua Designs

TEST REPORT

Sample Ref NO E-A-205L-02-P Reported On 27.02.2017

Client name & Address : - **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - 607 005

Sample Matrix: Ambient Air Quality
Sample Mark: Near by Online AAQ Station
Sample Collected by: Lab representative
Sample Collected on: 23.02.2017
Sample Received On: 24.02.2017
Test Start Date: 24.02.2017
Test End Date: 27.02.2017

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Total Hydrocarbons as n-Octane**	µg/m ³	USEPA TO 17	BDL(DL 0.10)	Not Specified
2	Carbon Monoxide (CO)	mg/m ³	IS 5182 Part 10 1999, RA 2009	BDL(DL :1.15)	4*

(i) NAAQ- National Ambient Air Quality Standards (ii) TWA - Time Weighed Average * TWA for 1 hour
BDL:Below Detection level DL Detection Limit **Parameter not covered NABL scope.

Verified Signatory
S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory
R. VIJAYA
Quality Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-85L-03-P Reported On : 20.03.2017

Client name & Address: **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - Pin Code No.: 607 005

Sample Matrix: Ambient Air Quality
Location: **Near Weigh Bridge Area (Down Wind Direction)**
General Sampling Procedure: IS 5182 Method
Sample Drawn by: Laboratory Representative
Sampling On: From 13.03.2017 to 14.03.2017
Sampling Time: From 11.45 to 11.45
Sample Received On: 15.03.2017
Test Commenced On: 15.03.2017
Test Completed On: 18.03.2017

WEATHER CONDITION

Ambient Temperature ° C: 31.8
Relative Humidity %: 50.9
Climate Condition: Clear Sky
Predominant Wind Direction: SE,E

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182 Part 2 2001 RA :2012	11.36	80
2	Oxides of Nitrogen(NO ₂)	µg/m ³	IS 5182 Part 6 2006 RA :2012	21.56	80
3	Respirable Particulate Matter (size less than 10µm)/PM10	µg/m ³	IS 5182 Part 23 2006 RA :2012	63.25	100
4	Respirable Particulate Matter (size less than 2.5µm)/PM2.5	µg/m ³	ADIPL/SOP/CDA/006	28.45	60
5	Ozone (O ₃)	µg/m ³	ADIPL/SOP/CDA/008	14.87	180*
6	Lead (Pb)	µg/m ³	ADIPL/SOP/CDA/017 By ICP - MS	<0.002	1
7	Carbon Monoxide (CO)	mg/m ³	ADIPL/SOP/CDA/005	< 1.15	4*
8	Ammonia (NH ₃)	µg/m ³	ADIPL/SOP/CDA/007	38.95	400
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 Part 11 2006 RA :2012	<0.5	5**
10	Benzo (a) Pyrene (BaP) Particulate Phase Only.	ng/m ³	IS 5182 PART 12 2004 RA 2009	< 0.2	1**
11	Arsenic (As)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	6**
12	Nickel (Ni)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	20**

(i) NAAQ- National Ambient Air Quality Standards. (ii) TWA - Time Weighed Average
* TWA for 1 hour ** TWA for Annual

.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorized Signatory
G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-86L-03-P		Reported On : 20.03.2017			
Client name & Address:		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - Pin Code No.: 607 005			
Sample Matrix	Ambient Air Quality				
Location	Near by Coal Area (Up Wind Direction)				
General Sampling Procedure	IS 5182 Method				
Sample Drawn by	Laboratory Representative				
Sampling On	From 13.03.2017 to 14.03.2017				
Sampling Time	From 12.05 to 12.05				
Sample Received On	15.03.2017				
Test Commenced On	15.03.2017				
Test Completed On	18.03.2017				
WEATHER CONDITION					
Ambient Temperature ° C	31.8				
Relative Humidity %	50.9				
Climate Condition	Clear Sky				
Predominant Wind Direction	SE,E				
S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Sulphur Dioxide (SO ₂)	µg/m ³	IS 5182 Part 2 2001 RA :2012	12.11	80
2	Oxides of Nitrogen(NO ₂)	µg/m ³	IS 5182 Part 6 2006 RA :2012	22.48	80
3	Respirable Particulate Matter (size less than 10µm)/PM10	µg/m ³	IS 5182 Part 23 2006 RA :2012	68.59	100
4	Respirable Particulate Matter (size less than 2.5µm)/PM2.5	µg/m ³	ADIPL/SOP/CDA/006	27.59	60
5	Ozone (O ₃)	µg/m ³	ADIPL/SOP/CDA/008	15.36	180*
6	Lead (Pb)	µg/m ³	ADIPL/SOP/CDA/017 By ICP - MS	<0.002	1
7	Carbon Monoxide (CO)	mg/m ³	ADIPL/SOP/CDA/005	< 1.15	4*
8	Ammonia (NH ₃)	µg/m ³	ADIPL/SOP/CDA/007	40.81	400
9	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 Part 11 2006 RA :2012	<0.5	5**
10	Benzo (a) Pyrene (BaP) Particulate Phase Only.	ng/m ³	IS 5182 PART 12 2004 RA 2009	< 0.2	1**
11	Arsenic (As)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	6**
12	Nickel (Ni)	ng/m ³	ADIPL/SOP/CDA/017 By ICP - MS	< 2.0	20**

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

* TWA for 1 hour

** TWA for Annual

.....End of Report.....

Verified Signatory

Authorised Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-87-03-P Reported On :20.03.2017

Client name & Address :- **M/s. Asian Paints Limited,**
Penta Division, B5 to B10-Sipcot Industrial complex,
Kudikadu, Cuddalore - Pin Code No.: 607 005

Sample Matrix: Ambient Air - VOC
 Quantity of Sample Received: Near Weighing bridge Area
 Sampling Method: USEPA TO 17
 Sample Collected by: Laboratory Representative
 Sample Collected on: 13.03.2017
 Sample Received On: 15.03.2017
 Test Start Date: 15.03.2017
 Test End Date: 17.03.2017

VOC - Volatile Organic Compounds*

S.No	Parameters	Units	Method	Results
1	Bromomethane	µg/m ³	USEPA TO 17	< 0.1
2	Chloroethane	µg/m ³	USEPA TO 17	< 0.1
3	Chloromethane	µg/m ³	USEPA TO 17	< 0.1
4	Dichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
5	Trichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
6	Vinyl Chloride	µg/m ³	USEPA TO 17	< 0.1
7	Benzene	µg/m ³	USEPA TO 17	< 0.1
8	Bromobenzene	µg/m ³	USEPA TO 17	< 0.1
9	Bromochloromethane	µg/m ³	USEPA TO 17	< 0.1
10	Bromodichloromethane	µg/m ³	USEPA TO 17	< 0.1
11	Bromoform	µg/m ³	USEPA TO 17	< 0.1
12	Carbon tetrachloride	µg/m ³	USEPA TO 17	< 0.1
13	Chlorobenzene	µg/m ³	USEPA TO 17	< 0.1
14	Chloroform	µg/m ³	USEPA TO 17	< 0.1
15	cis 1,3 - Dichloropropene (z)	µg/m ³	USEPA TO 17	< 0.1
16	Cis 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
17	Isopropyl benzene	µg/m ³	USEPA TO 17	< 0.1
18	Dibromochloromethane	µg/m ³	USEPA TO 17	< 0.1
19	Dibromomethane	µg/m ³	USEPA TO 17	< 0.1
20	Ethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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(Signature)
G.MADHANAGOPAL
 Lab Manager



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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-87-03-P			Reported On :20.03.2017	
21	Hexachlorobutadiene	µg/m ³	USEPA TO 17	< 0.1
22	p, m-xylene	µg/m ³	USEPA TO 17	< 0.1
23	Methylene chloride	µg/m ³	USEPA TO 17	< 0.1
24	N-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
25	o-Xylene	µg/m ³	USEPA TO 17	< 0.1
26	p-Isopropyltoluene	µg/m ³	USEPA TO 17	< 0.1
27	Styrene	µg/m ³	USEPA TO 17	< 0.1
28	Sec-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
29	Tert - Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
30	Tetrachloroethene	µg/m ³	USEPA TO 17	< 0.1
31	Toluene	µg/m ³	USEPA TO 17	< 0.1
32	Trans 1,3 - Dichloropropene (E)	µg/m ³	USEPA TO 17	< 0.1
33	Trans 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
34	Trichloroethylene	µg/m ³	USEPA TO 17	< 0.1
35	1,1 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
36	1,1 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
37	1,1 - Dichloropropene	µg/m ³	USEPA TO 17	< 0.1
38	n-Propylbenzene	µg/m ³	USEPA TO 17	< 0.1
39	1,1,1 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
40	1,1,1,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
41	1,1,2 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
42	1,1,2,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
43	1,2 - Dibromo -3- chloropropane	µg/m ³	USEPA TO 17	< 0.1
44	1,2 - Dibromoethane	µg/m ³	USEPA TO 17	< 0.1
45	1,2 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
46	1,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
47	1,2 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
48	1,2,3 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
49	1,2,3 - Trichloropropane	µg/m ³	USEPA TO 17	< 0.1
50	1,2,4 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
51	1,2,4 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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G.MADHANAGOPAL
Lab Manager



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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-87-03-P				Reported On :20.03.2017
52	1,3 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
53	1,3,5 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1
54	1,4 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
55	2 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
56	1,3 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
57	2,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
58	4 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
59	Naphthalene	µg/m ³	USEPA TO 17	< 0.1
60	Formaldehyde	µg/m ³	USEPA TO 17	< 0.1
61	Acetaldehyde	µg/m ³	USEPA TO 17	< 0.1
62	Methanol	µg/m ³	USEPA TO 17	< 0.1

BLQ: Below limit of quantification DL: Detection Limit <0.1 * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmentals


Authorised Signatory

G.MADHANAGOPAL
Lab Manager

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-88-03-P	Reported On :20.03.2017
Client name & Address : -	M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - Pin Code No.: 607 005
Sample Matrix	Ambient Air - VOC
Quantity of Sample Received	Near by Coal Area (Up Wind Direction)
Sampling Method	USEPA TO 17
Sample Collected by	Laboratory Representative
Sample Collected on	13.03.2017
Sample Received On	15.03.2017
Test Start Date	15.03.2017
Test End Date	17.03.2017

VOC - Volatile Organic Compounds*

S.No	Parameters	Units	Method	Results
1	Bromomethane	µg/m ³	USEPA TO 17	< 0.1
2	Chloroethane	µg/m ³	USEPA TO 17	< 0.1
3	Chloromethane	µg/m ³	USEPA TO 17	< 0.1
4	Dichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
5	Trichlorodifluoromethane	µg/m ³	USEPA TO 17	< 0.1
6	Vinyl Chloride	µg/m ³	USEPA TO 17	< 0.1
7	Benzene	µg/m ³	USEPA TO 17	< 0.1
8	Bromobenzene	µg/m ³	USEPA TO 17	< 0.1
9	Bromochloromethane	µg/m ³	USEPA TO 17	< 0.1
10	Bromodichloromethane	µg/m ³	USEPA TO 17	< 0.1
11	Bromoform	µg/m ³	USEPA TO 17	< 0.1
12	Carbon tetrachloride	µg/m ³	USEPA TO 17	< 0.1
13	Chlorobenzene	µg/m ³	USEPA TO 17	< 0.1
14	Chloroform	µg/m ³	USEPA TO 17	< 0.1
15	cis 1,3 - Dichloropropene (z)	µg/m ³	USEPA TO 17	< 0.1
16	Cis 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
17	Isopropyl benzene	µg/m ³	USEPA TO 17	< 0.1
18	Dibromochloromethane	µg/m ³	USEPA TO 17	< 0.1
19	Dibromomethane	µg/m ³	USEPA TO 17	< 0.1
20	Ethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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Mel
G.MADHANA GOPAL
Lab Manager



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TEST REPORT

Sample Ref.No:E-A-88-03-P			Reported On :20.03.2017	
21	Hexachlorobutadiene	µg/m ³	USEPA TO 17	< 0.1
22	p, m-xylene	µg/m ³	USEPA TO 17	< 0.1
23	Methylene chloride	µg/m ³	USEPA TO 17	< 0.1
24	N-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
25	o-Xylene	µg/m ³	USEPA TO 17	< 0.1
26	p-Isopropyltoluene	µg/m ³	USEPA TO 17	< 0.1
27	Styrene	µg/m ³	USEPA TO 17	< 0.1
28	Sec-Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
29	Tert - Butylbenzene	µg/m ³	USEPA TO 17	< 0.1
30	Tetrachloroethene	µg/m ³	USEPA TO 17	< 0.1
31	Toluene	µg/m ³	USEPA TO 17	< 0.1
32	Trans 1,3 - Dichloropropene (E)	µg/m ³	USEPA TO 17	< 0.1
33	Trans 1,2 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
34	Trichloroethylene	µg/m ³	USEPA TO 17	< 0.1
35	1,1 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
36	1,1 - Dichloroethylene	µg/m ³	USEPA TO 17	< 0.1
37	1,1 - Dichloropropene	µg/m ³	USEPA TO 17	< 0.1
38	n-Propylbenzene	µg/m ³	USEPA TO 17	< 0.1
39	1,1,1 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
40	1,1,1,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
41	1,1,2 - Trichloroethane	µg/m ³	USEPA TO 17	< 0.1
42	1,1,2,2 - Tetrachloroethane	µg/m ³	USEPA TO 17	< 0.1
43	1,2 - Dibromo -3- chloropropane	µg/m ³	USEPA TO 17	< 0.1
44	1,2 - Dibromoethane	µg/m ³	USEPA TO 17	< 0.1
45	1,2 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
46	1,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
47	1,2 - Dichloroethane	µg/m ³	USEPA TO 17	< 0.1
48	1,2,3 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
49	1,2,3 - Trichloropropane	µg/m ³	USEPA TO 17	< 0.1
50	1,2,4 - Trichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
51	1,2,4 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1

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Madhanagopal
MADHANAGOPAL
 Lab Manager



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TEST REPORT


Sample Ref.No:E-A-88-03-P				Reported On :20.03.2017
52	1,3 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
53	1,3,5 - Trimethylbenzene	µg/m ³	USEPA TO 17	< 0.1
54	1,4 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
55	2 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
56	1,3 - Dichlorobenzene	µg/m ³	USEPA TO 17	< 0.1
57	2,2 - Dichloropropane	µg/m ³	USEPA TO 17	< 0.1
58	4 - Chlorotoluene	µg/m ³	USEPA TO 17	< 0.1
59	Naphthalene	µg/m ³	USEPA TO 17	< 0.1
60	Formaldehyde	µg/m ³	USEPA TO 17	< 0.1
61	Acetaldehyde	µg/m ³	USEPA TO 17	< 0.1
62	Methanol	µg/m ³	USEPA TO 17	< 0.1

BLQ: Below limit of quantification DL: Detection Limit <0.1 * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental


Authorised Signatory

G.MADHANAGOPAL
Lab Manager

NOTE :

1. The test results relate only to the items tested.
2. The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
3. Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



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Chennai - 600 099
Tamilnadu, India

Phone : +91 44 37171717
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Web : www.aquadesigns.in



LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-89L-03-P		Reported On :20.03.2017		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Ambient Air Quality			
Sample Mark	Near Weigh Bridge Area (Down Wind Direction)			
Sample Collected by	Lab representative			
Sample Collected on	14.03.2017			
Sample Received On	15.03.2017			
Test Start Date	15.03.2017			
Test End Date	17.03.2017			
S.No	Parameters	Units	Method	Results
1	Total Hydrocarbons as n-Octane*	µg/m ³	USEPA TO 17	BDL(DL :0.10)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....

Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental

Authorised Signatory

G.MADHANAGOPAL
Lab Manager

NOTE :

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LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-90L-03-P		Reported On :20.03.2017		
Client name & Address :-		M/s. Asian Paints Limited, Penta Division, B5 to B10-Sipcot Industrial complex, Kudikadu, Cuddalore - 607 005		
Sample Matrix	Ambient Air Quality			
Sample Mark	Near by Coal Area (Up Wind Direction)			
Sample Collected by	Lab representative			
Sample Collected on	14.03.2017			
Sample Received On	15.03.2017			
Test Start Date	15.03.2017			
Test End Date	17.03.2017			
S.No	Parameters	Units	Method	Results
1	Total Hydrocarbons as n-Octane*	µg/m ³	USEPA TO 17	BDL(DL :0.10)

BLQ: Below limit of quantification DL: Detection Limit * This parameter not covered NABL scope.

.....End of Report.....


Verified Signatory

S.SATHIYA NARAYANAN
Asst. Manager-Environmental


Authorised Signatory

G.MADHANAGOPAL
Lab Manager

NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
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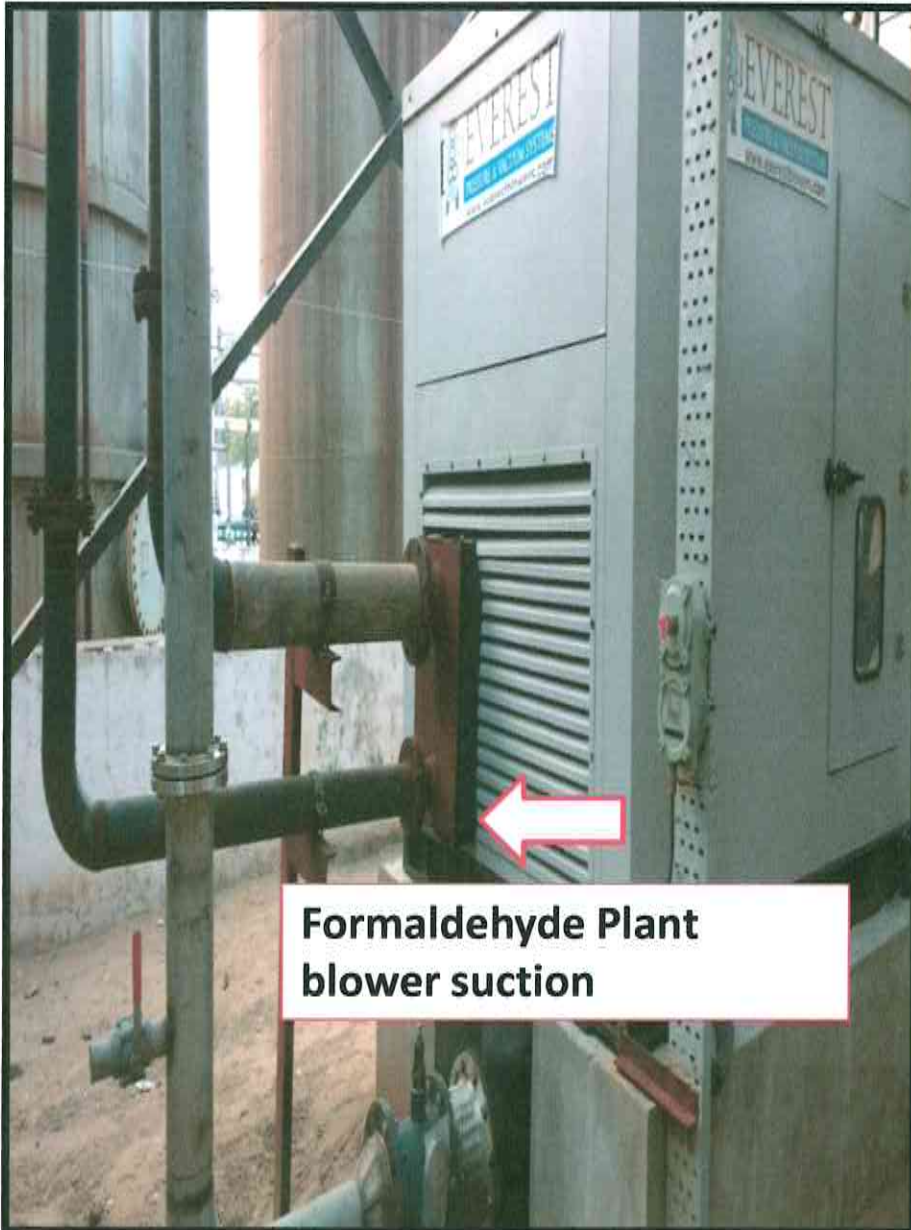
Annexure 4 - Online VOC meter Photo

Online VOC meter installed in Penta plant

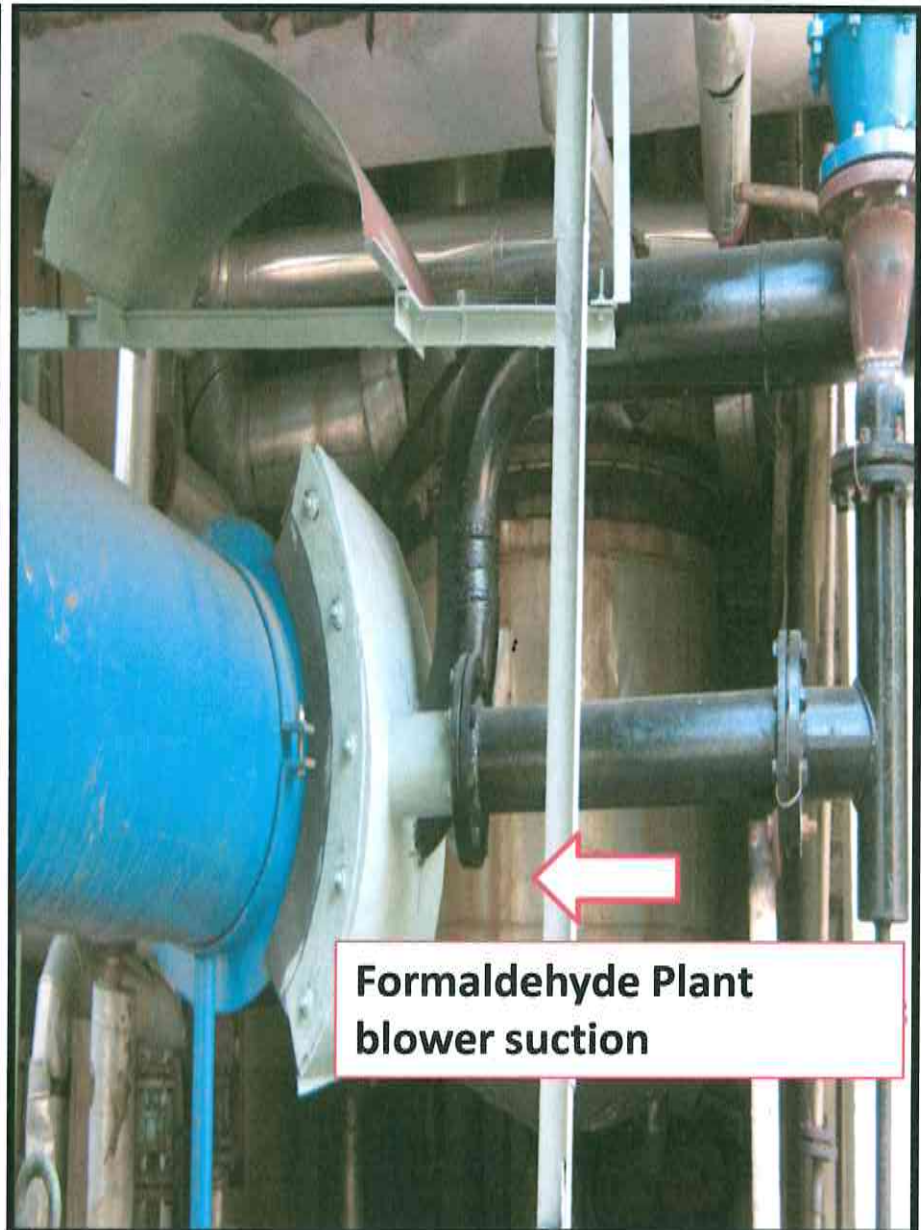


Annexure 5 – Formaldehyde Blower Photo

Storage tank vent line connected to the Formaldehyde plant blower

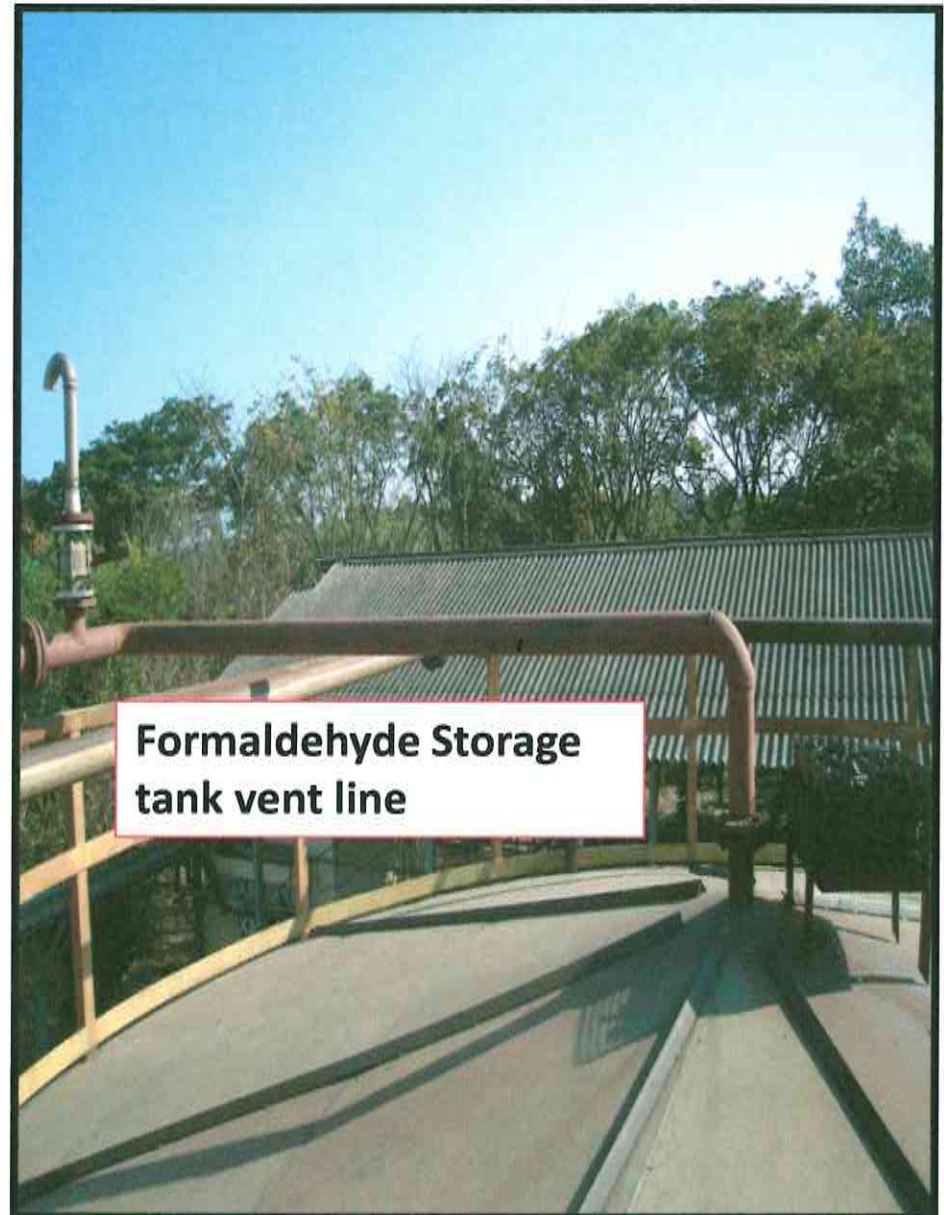
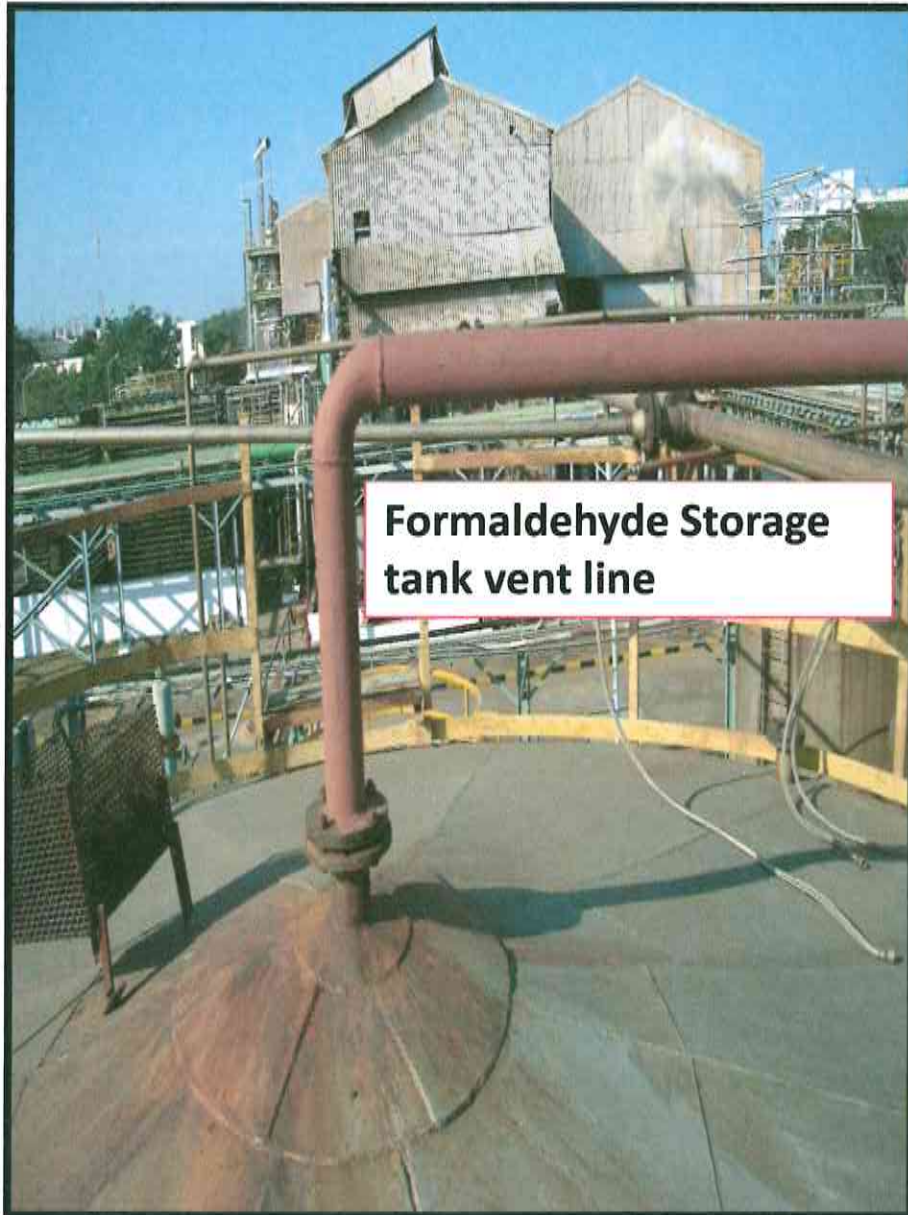


**Formaldehyde Plant
blower suction**



**Formaldehyde Plant
blower suction**

Storage tank vent line connected to the Formaldehyde plant blower



**Annexure 6 – SIPCOT water consumption & Effluent
generation details**

Monthwise Sipcot water consumption (Oct 16 - Mar 17)			
Month	As Per Sipcot bill	No of days	Average Water Consumption
	KL	No	KL per day
Oct-16	16587	31	535
Nov-16	15394	30	513
Dec-16	15016	31	484
Jan-17	16281	31	525
Feb-17	15793	28	564
Mar-17	14460	31	466
Average water consumption from Oct 16 - Mar 17			514

P. Jayakanth

Monthwise effluent generation details (Oct 2016 - Mar 2017)						
Month	Effluent from plant	From WTP	From Sewage	Total	No of days	Average Effluent generation
	KL per month	KL per month	KL per month	KL per month	No	KL per day
Oct-16	1055	468	898	2421	31	78
Nov-16	819	455	556	1830	30	61
Dec-16	891	435	482	1808	31	58
Jan-17	1278	381	592	2251	31	73
Feb-17	1210	390	344	1944	28	69
Mar-17	1318	220	377	1915	31	62
Average effluent generation from Oct 16 - Mar 17						67

P. Jayakantna

Annexure 7 – Hazardous waste authorization



TAMILNADU POLLUTION CONTROL BOARD

AUTHORISATION No. 16HRC6860551 dated 26/12/2016

Proceeding No. T11/TNPCB/F.0020CUD/HWA/RL/CUD/2016 dated 26/12/2016

- Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Renewal- M/s. M/S ASIAN PAINTS LTD,PENTADIVISION, S.F.No. SF.NO 126,127,128,129,130,131,137 & 165, KUDIKADU Village, CUDDALORE Taluk, Cuddalore District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.
- Ref: 1. Unit's application No. 6860551 dated 3.10.2016/29.11.2016
2. HWA-IR.No.0020CUD/HWA/RL/EE/CUD/2016 dated 18/10/2016

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 16HRC6860551 and dated : 26/12/2016
2. The Factory Manager of M/s. M/S ASIAN PAINTS LTD,PENTADIVISION is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation,Collection,Storage,Transportation,Disposal of hazardous or other wastes or both on the premises situated at S.F.No. SF.NO 126,127,128,129,130,131,137 & 165, KUDIKADU Village, CUDDALORE Taluk, Cuddalore District.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

SI No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	0.900 KL/Annum	Generation,Collection,S storage,Transportation,Disposal to authorized recyclers
2	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.2-Wastes or residues containing oil	0.300 KL/Annum	Generation,Collection,S storage,Transportation,Disposal to authorized recyclers
3	Schedule I /36. Purification process for organic compounds/solvents	36.2-Spent carbon or filter medium	0.200 T/Annum	Generation,Collection,S storage,Transportation,Disposal to Pre-processors - GEPIL, Ranipet
4	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	128.0 T/Annum	Generation,Collection,S storage,Transportation,Disposal to common landfill - TSDF, Gummidpoondi

3. This authorization shall be valid for a period upto 25/12/2021.
The Authorization is issued subject to the following general and special conditions annexed.

SA
27/12/16
For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire ,etc and their possible impacts and also carry out mock drill in this regard at regular interval of time.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty".
7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.
8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of Authorisation.
11. The importer or Exporter shall bear the cost of import or export or mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.
14. Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

B. SPECIFIC CONDITIONS - HW Generator

1. The occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other wastes.
2. The occupier shall follow the following steps for the management of hazardous and other wastes. (a) prevention (b) minimization (c) reuse (d) recycling (e) recovery, utilisation including co-processing and (f) safe disposal
3. The occupier shall take all the steps while managing hazardous and other wastes - (a) To contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) To provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.
4. The occupier shall store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection:
5. The hazardous and other wastes shall be stored temporarily in an isolated area earmarked for the purpose within the occupier's premises (it shall not be accessible to rain water) till scientific disposal. The storage area shall be fenced properly and a sign of danger shall be placed at the storage site.
6. The containers holding the hazardous and other wastes shall be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation. Only properly cleaned containers shall be used for storage of hazardous and other wastes.
7. The occupier handling hazardous or other wastes shall maintain records of such operations of generation, handling, storage and disposal as per Form 3.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

8. The hazardous and other wastes generated in the establishment of the occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.
9. The occupier handling hazardous or other wastes shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time
10. The labelling of package of hazardous or other wastes shall be done as per Form 8. The label shall be of non-washable material, weather proof and easily visible.
11. The hazardous and other wastes shall be transported from the occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.
12. The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard..
13. The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8
14. The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.
15. The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10.
16. The occupier or the operator or the transporter shall immediately intimate TNPCB through telephone, e-mail about the accident and subsequently send a report in Form 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation
17. The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.
18. The occupier shall be liable for all damages caused to the environment due to improper handling and management of the hazardous and other wastes.
19. The occupier handling hazardous and other wastes shall submit annual returns containing the details specified in Form 4 to TNPCB on or before the 30th day of June of every year for the preceding period April to March.
20. Any increase in quantity of handling of hazardous and other wastes, any change in category of hazardous and other wastes and any change in method of handling operations shall be brought to the notice of the TNPCB and fresh authorization shall be obtained.

ADDITIONAL SPECIFIC CONDITIONS

1. The unit shall dispose the Spent Oil to the units having valid authorization of the Board and registration certificate as recyclers and necessary endorsement shall be made in respect of the quantity transacted in the original letter of registration issued to the recycling unit lifting used oil.
2. The Hazardous wastes shall be stored in a compatible container on an impervious platform in closed shed which shall be provided with requisite fire protection system, personal protective equipment and safety system.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

3. The person authorized shall comply with all the conditions stipulated in the authorization and other conditions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
4. The unit shall maintain Form 3 and submit Form 4 prescribed under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
5. The Hazardous wastes shall be disposed only with manifest that shall be maintained in Form-10 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
6. The manifest shall be endorsed by the despatcher, transporter and receiver of hazardous wastes. The endorsed copy of the manifest shall be furnished to TNPCB as and when such disposal is made.
7. The unit shall ensure that all provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended are complied with while handling hazardous waste.
8. The authorization is subject to the terms and conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986 and the conditions mentioned in the Schedule A & B.
9. The unit shall not store the Hazardous waste generated outside the premises of the unit.
10. The unit shall dispose the accumulated quantity of hazardous wastes immediately.
11. The unit shall apply and obtain authorization if there is any change in the quantity of hazardous waste generation as specified in the previous authorization issued by the Board.
12. The unit shall dispose the hazardous waste generated then and there as per authorization issued by the Board without any accumulation.

SA 27/12/16
For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

To

The Factory Manager
M/S ASIAN PAINTS LTD, PENTADIVISION
B5-B10, SIPCOT INDUSTRIAL COMPLEX, KUDIKADU, CUDDALORE
Pin: 607005

Copy to:

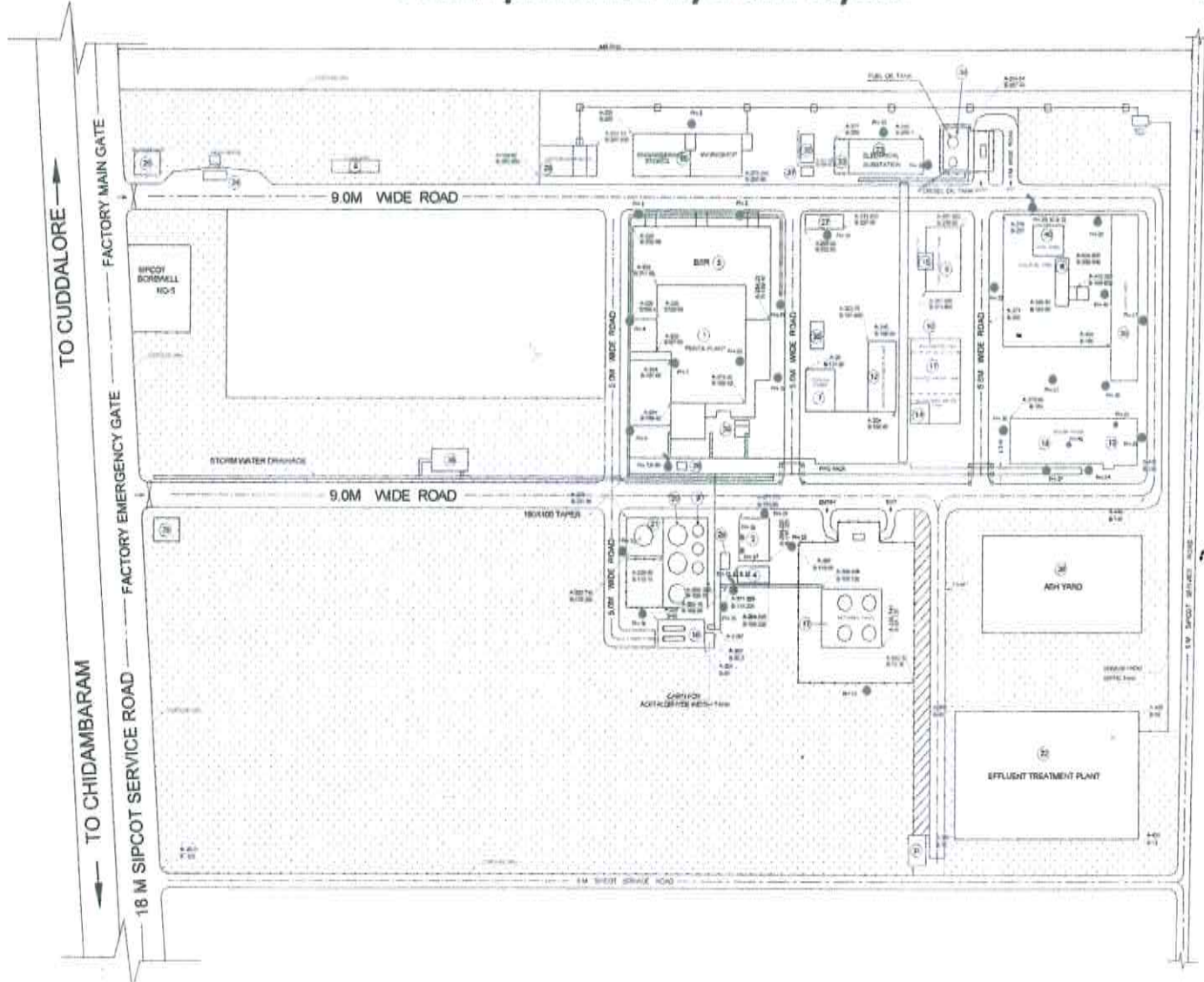
1. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Trichirappalli.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, CUDDALORE.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு ! புறம் தூய்மை வாழ்வுக்கு !

Annexure 8 – Penta Plant Fire hydrant layout

Penta plant fire hydrant layout



● Fire hydrant point

SL. NO.	DESCRIPTION	SIZE IN 'M'	AREA
01	INDIA PLANT 01	30 X 30	900.00
02	INDIA PLANT 02	30 X 30	900.00
03	WARE HOUSE	30 X 30	900.00
04	FORMALDEHYDE PLANT 01	15.40 X 12.00	184.80
05	FORMALDEHYDE PLANT 02	15.40 X 12.00	184.80
06	FORMALDEHYDE PLANT 03	15.40 X 12.00	184.80
07	FORMALDEHYDE PLANT 04	15.40 X 12.00	184.80
08	FORMALDEHYDE PLANT 05	15.40 X 12.00	184.80
09	FORMALDEHYDE PLANT 06	15.40 X 12.00	184.80
10	FORMALDEHYDE PLANT 07	15.40 X 12.00	184.80
11	FORMALDEHYDE PLANT 08	15.40 X 12.00	184.80
12	FORMALDEHYDE PLANT 09	15.40 X 12.00	184.80
13	FORMALDEHYDE PLANT 10	15.40 X 12.00	184.80
14	FORMALDEHYDE PLANT 11	15.40 X 12.00	184.80
15	FORMALDEHYDE PLANT 12	15.40 X 12.00	184.80
16	FORMALDEHYDE PLANT 13	15.40 X 12.00	184.80
17	FORMALDEHYDE PLANT 14	15.40 X 12.00	184.80
18	FORMALDEHYDE PLANT 15	15.40 X 12.00	184.80
19	FORMALDEHYDE PLANT 16	15.40 X 12.00	184.80
20	FORMALDEHYDE PLANT 17	15.40 X 12.00	184.80
21	FORMALDEHYDE PLANT 18	15.40 X 12.00	184.80
22	FORMALDEHYDE PLANT 19	15.40 X 12.00	184.80
23	FORMALDEHYDE PLANT 20	15.40 X 12.00	184.80
24	FORMALDEHYDE PLANT 21	15.40 X 12.00	184.80
25	FORMALDEHYDE PLANT 22	15.40 X 12.00	184.80
26	FORMALDEHYDE PLANT 23	15.40 X 12.00	184.80
27	FORMALDEHYDE PLANT 24	15.40 X 12.00	184.80
28	FORMALDEHYDE PLANT 25	15.40 X 12.00	184.80
29	FORMALDEHYDE PLANT 26	15.40 X 12.00	184.80
30	FORMALDEHYDE PLANT 27	15.40 X 12.00	184.80
31	FORMALDEHYDE PLANT 28	15.40 X 12.00	184.80
32	FORMALDEHYDE PLANT 29	15.40 X 12.00	184.80
33	FORMALDEHYDE PLANT 30	15.40 X 12.00	184.80
34	FORMALDEHYDE PLANT 31	15.40 X 12.00	184.80
35	FORMALDEHYDE PLANT 32	15.40 X 12.00	184.80
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48	FORMALDEHYDE PLANT 45	15.40 X 12.00	184.80
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51	FORMALDEHYDE PLANT 48	15.40 X 12.00	184.80
52	FORMALDEHYDE PLANT 49	15.40 X 12.00	184.80
53	FORMALDEHYDE PLANT 50	15.40 X 12.00	184.80
54	FORMALDEHYDE PLANT 51	15.40 X 12.00	184.80
55	FORMALDEHYDE PLANT 52	15.40 X 12.00	184.80
56	FORMALDEHYDE PLANT 53	15.40 X 12.00	184.80
57	FORMALDEHYDE PLANT 54	15.40 X 12.00	184.80
58	FORMALDEHYDE PLANT 55	15.40 X 12.00	184.80
59	FORMALDEHYDE PLANT 56	15.40 X 12.00	184.80
60	FORMALDEHYDE PLANT 57	15.40 X 12.00	184.80
61	FORMALDEHYDE PLANT 58	15.40 X 12.00	184.80
62	FORMALDEHYDE PLANT 59	15.40 X 12.00	184.80
63	FORMALDEHYDE PLANT 60	15.40 X 12.00	184.80
64	FORMALDEHYDE PLANT 61	15.40 X 12.00	184.80
65	FORMALDEHYDE PLANT 62	15.40 X 12.00	184.80
66	FORMALDEHYDE PLANT 63	15.40 X 12.00	184.80
67	FORMALDEHYDE PLANT 64	15.40 X 12.00	184.80
68	FORMALDEHYDE PLANT 65	15.40 X 12.00	184.80
69	FORMALDEHYDE PLANT 66	15.40 X 12.00	184.80
70	FORMALDEHYDE PLANT 67	15.40 X 12.00	184.80
71	FORMALDEHYDE PLANT 68	15.40 X 12.00	184.80
72	FORMALDEHYDE PLANT 69	15.40 X 12.00	184.80
73	FORMALDEHYDE PLANT 70	15.40 X 12.00	184.80
74	FORMALDEHYDE PLANT 71	15.40 X 12.00	184.80
75	FORMALDEHYDE PLANT 72	15.40 X 12.00	184.80
76	FORMALDEHYDE PLANT 73	15.40 X 12.00	184.80
77	FORMALDEHYDE PLANT 74	15.40 X 12.00	184.80
78	FORMALDEHYDE PLANT 75	15.40 X 12.00	184.80
79	FORMALDEHYDE PLANT 76	15.40 X 12.00	184.80
80	FORMALDEHYDE PLANT 77	15.40 X 12.00	184.80
81	FORMALDEHYDE PLANT 78	15.40 X 12.00	184.80
82	FORMALDEHYDE PLANT 79	15.40 X 12.00	184.80
83	FORMALDEHYDE PLANT 80	15.40 X 12.00	184.80
84	FORMALDEHYDE PLANT 81	15.40 X 12.00	184.80
85	FORMALDEHYDE PLANT 82	15.40 X 12.00	184.80
86	FORMALDEHYDE PLANT 83	15.40 X 12.00	184.80
87	FORMALDEHYDE PLANT 84	15.40 X 12.00	184.80
88	FORMALDEHYDE PLANT 85	15.40 X 12.00	184.80
89	FORMALDEHYDE PLANT 86	15.40 X 12.00	184.80
90	FORMALDEHYDE PLANT 87	15.40 X 12.00	184.80
91	FORMALDEHYDE PLANT 88	15.40 X 12.00	184.80
92	FORMALDEHYDE PLANT 89	15.40 X 12.00	184.80
93	FORMALDEHYDE PLANT 90	15.40 X 12.00	184.80
94	FORMALDEHYDE PLANT 91	15.40 X 12.00	184.80
95	FORMALDEHYDE PLANT 92	15.40 X 12.00	184.80
96	FORMALDEHYDE PLANT 93	15.40 X 12.00	184.80
97	FORMALDEHYDE PLANT 94	15.40 X 12.00	184.80
98	FORMALDEHYDE PLANT 95	15.40 X 12.00	184.80
99	FORMALDEHYDE PLANT 96	15.40 X 12.00	184.80
100	FORMALDEHYDE PLANT 97	15.40 X 12.00	184.80

Connected Load Details			
SL. NO.	Name of MCC	Load in kW	No. & Name of the Blocks covered
1	Block 01	300	1 India Plant
2	Block 02	300	1 India Plant
3	Block 03	300	1 Warehouse
4	Block 04	433	10 Formaldehyde Plant 01-10
5	Block 05	433	11 Water Treatment Plant
6	Block 06	433	7 Packing Tower
7	Block 07	500	10 Control and Purifiers of Storage Tank
8	Block 08	320	12 Boiler House
9	Block 09	50	12 Effluent treatment plant
10	Block 10	72	7 To plant
11	Block 11	100	4 Material City tank
12	Block 12	100	14 Methanol storage tank
13	Block 13	100	16 Acetaldehyde storage tank
14	Block 14	100	17 Formaldehyde storage tank
15	Block 15	100	18 Gaseous storage tank
16	Block 16	100	6 Compressor
17	Block 17	100	13 Venturi and Drying System
18	Block 18	100	30 Exhaust system
19	Block 19	100	21 Weigh bridge
20	Block 20	100	22 Security office
21	Block 21	100	23 Oil Lab
22	Block 22	100	24 Control / Admin
23	Block 23	100	26 Control room
24	Block 24	100	26 H.T. Substation
25	Block 25	100	3 Fire Hydrant point
Total Connected Load		3045	

ASIAN PAINTS LIMITED
 85-B-16 SIPCOT Industrial Complex,
 Southside Village,
 Cuddalore - 605001.

PENTA DIVISION		Drawn	CHECKED
Title	FACTORY LAYOUT	ADP	A.T.S.
DRD NO	APL / CDL / PENTA / 2011	DATE	20.03.2011
		SCALE	1 : 20

Figure-8.1

Annexure 9 – Green Belt Photo

Penta Plant Green Belt





Greenery in ETP and MeOH tank form area



Greenery in the entrance of ETP



Greenery in ETP - around Chemical Rxn. Tank and Clarifier



Greenery in ETP – around aeration tank



Greenery in ETP - rear side of RO plant



Greenery in ETP - rear side of Aeration tank.

Annexure 10 – TNPCB Noise Report



TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY, CUDDALORE.

AMBIENT/SOURCE NOISE LEVEL SURVEY – Report of Analysis.

Report F. No. 2 /NLS/2016-2017 dated: 21.12.2016.

1	Name of the Industry	M/s. Asian Paints Ltd, (Penta Division)		
2	Address of the Industry	B-5 To B-10 Sipcot Industrial Complex, Cuddalore – 5.		
3	Date of Survey	23.11.2016		
Category		R-L	Land use Classification	Industrial
Type of Survey		Ambient	Time of Survey	Day
Meteorological conditions		Calm		

Logging Parameters

Instrument Used		QUEST TECH		Serial No. CC8110033	
Logging Interval		10 Minutes at each point		Measuring Range 50 – 110 dBA	
Weighting	"A"	Peak Weighting	"C"	Time Weighting	Fast
Sound Incidence	Frontal			Time in hrs.	09.40 – 11.40 Hrs

Report of Noise Level Monitoring

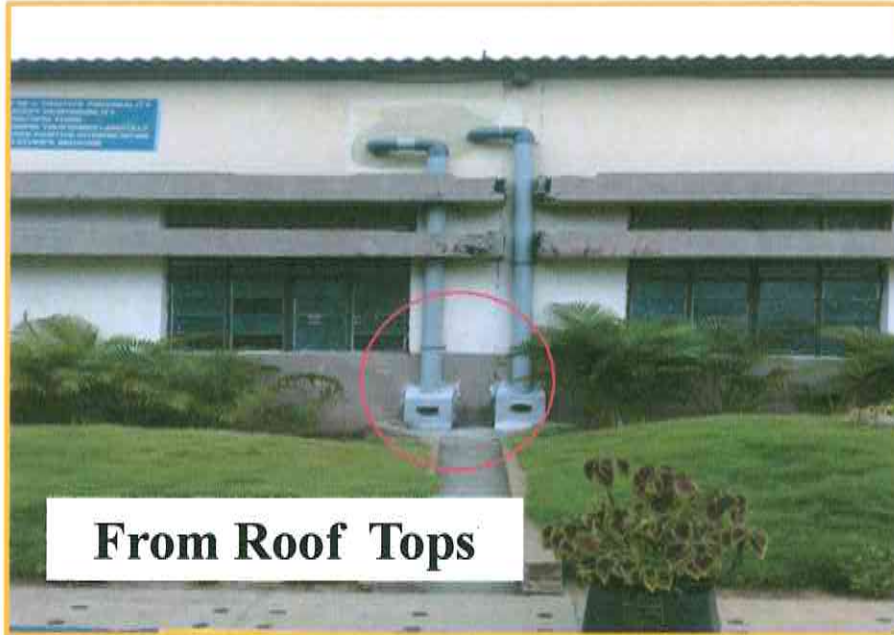
Sl. No.	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	Min	Max
1	Near Northern side Compound wall	10	100	N	56.6	49.5	72.3
2	Near North East side Compound wall	10	220	NE	56.7	49.4	72.1
3	Near Eastern side Compound wall	10	220	E	54.5	47.1	69.2
4	Near ETP	10	260	SE	55.3	50.6	68.4
5	Near Southern side Compound wall	10	160	S	58.6	51.3	73.3
6	Near Old gate	10	200	SW	56.5	49.3	71.8
7	Near Western side Compound wall	10	200	W	54.6	47.3	69.4
8	Near Vehicle shed	10	200	NW	55.4	50.9	68.7

A. P. S. S. S. S.
21/12/16
Environmental Scientist

V. Theodoraj
Assistant Director (Lab),
Advanced Environmental Laboratory,
TNPC Board, Cuddalore.

Annexure 11 – Rain water harvesting

RAIN WATER HARVESTING AT PENTA PLANT SITE



Annexure 12 – List of CSR Activities

Area	Amount in Lakhs	Activities
Karaikadu Village	3.09	Scholarship for students, , teachers salary and housekeeping staff, Primary Health Centre funding
Kudikadu Village	1.5	Primary health care Centre funding
Isha Education	4.2	Funding for building of two classrooms & Student Scholarship
Sri Vidhya Kalakendra	6.2	Funding for building of two classrooms & Student Scholarship
Karaikadu Colony School	1.7	Revamping of School Toilet
Karaikadu Higher Sec School	22.2	Computer with UPS & Table, Micro Max Tablet, Basketball Court, and Cycle Shed, Online UPS System.
Police Hospital	0.38	ECG Machine
Total Amount in Lakhs	39.27	

Thermo Heater at Karaikadu Higher Sec. School



Isha Education Class Room Opening



Medical Facilities to Kudikadu & Karaikadu Villages



Medical Facilities to Eachankadu Village Villages



Cycle Shed for Karaikadu Govt. Hr. Sec. School



Wooden Benches for Sri Vidhya Kala Kendram School



Basket Ball Court for Karaikadu Govt. Hr. Sec. School



Construction of Class Room for Sri Vidhya Kala Kendram School



ECG Machine for Police Hospital, Cuddalore.



Annexure 13 – EC published in News Paper

மலர்

பார்

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செல் : 958522522, 0-1142 233122

சய்திகளை தரும் நம்பர் 1 நாளிதழ்

பிலாளர்கள் குறிஞ்சிப்பாடி தொகுதியில் வாக்காளர்களாக உள்ளனர்.

47,587 தொழிலாளர்கள் குறிஞ்சிப்பாடி தொகுதியில் பெண் வாக்காளர்களாக உள்ளனர்.

தி!

விவசாயிகள்...

கு நஷ்டம்

பயறு விலை போக வில்லை. ஒரே ஏக்கரில் விளைந்த பயறுகளுக்கு வெவ்வேறு வட்டாசை வைக்கப்பட்டதில் ஒவ்வொரு லாட்டிற்கும் 500 ரூபாய் விலை வித்தியாசம் உள்ளது. கடந்த ஆண்டை விட உரவிலை அதிகம், பூச்சிமருந்து விலை அதிகரித்துள்ளது.

வெர்க்கடையை செடியில் இருந்து பிரித்தெடுக்க பெண்கள் யாரும் ஆர்வமாக வருவதில்லை. அறுவடைக்காக விவசாய கூலித் தொழிலாளிகளுக்கு அலைய வேண்டியுள்ளது. பெரிய தொகை செலவாகிறது. கடைகளில் எண்ணெய் விலை குறை யாமல் ஏறி வருகிறது. ஆனால் மணிலா விலை குறைந்து வருகிறது. இவ்வாறு அவர் கூறி

சுத்திகரிக்கப்பட்ட குடிநீர் இயந்திரம் வழங்கும் விழா

கடலூர், மார்ச் 11- கடலூர் ஐஸ் வர்யா மகனீர் சங்கம் சார்பில் மதுசூக்குப் பம் அரசு பெண்கள் பள்ளியில் சுத்திகரிக்கப்பட்ட குடிநீர் இயந்திரம் வழங்கப் பட்டது.

விழாவிற்றகு பள்ளி தலைமை ஆசிரியர் விஜயலக்ஷ்மி தலைமை தாங்கினார். சங்கத்தின் துணை தலைவர் உமா சங்கர், செயலர் கலையரசி ராமதாஸ் ஆகியோர் சுத்திகரிக்கப்பட்ட குடிநீர் இயந்திரத்தை வழங்கி சிறப்புரை யாற்றினார்.

சங்கத்தின் முன்னாள் பொறுப்பாளர்கள் சுஜாதா, ஜெயந்தி, அபர்ணா, எமெல்லா, சத்யா, மணிமாலா அம்பிகா, வத்சா உட்பட பலர் பங்கேற்றனர்.

பொருளாளர் தீரா பிறையோன் நன்றி

விழிப்புணர்வு முகாம்

கடலூர், மார்ச் 11- கடலூரில், நேரு யுவ கேந்திரா, சி.பி.ஆர்., சுற்றுச்சூழல் கல்வி மையம், இயற்கை இளையோர் மன்றம் சார்பில் தேசிய சுற்றுச்சூழல் விழிப்புணர்வு முகாம் நடந்தது. இயற்கை இளையோர் மன்ற தலைவர் சண்முகம் வரவேற்றார். நேரு யுவக் கேந்திரா மாவட்ட ஆலோ

சனைக்குழு உறுப்பினர் கனக சண்முகம் முன்னிலை வகித்தார். கலையரசி ராமதாஸ் துவக்கி வைத்தார். இன்னவர்களில் சங்க முன்வாள் தலைவி சத்யா, குளோபல் டிரஸ்ட் தலைவர் குமுதம், ஜே.சி.ஐ., கடலூர் விடியல் தலைவர் புவனேஸ் வரி ஆகியோர் வாழ்த்திப் பேசினர்.

எலியன் வயின்ட்ஸ் லிமிடெட், வயன்டா பிரிவு,

85-810, சிப்காட் இண்டஸ்டிரியல் காம்பளக்ஸ், குடிகாடு, கடலூர். தமிழ்நாடு-807005.

இந்திய அரசின் சுற்றுச்சூழல் அமைச்சகம் F.No: J-11011/345/2011-IA(II) 24 பிப்ரவரி 2014 தேதியிட்ட கடிதத்தின் வாயிலாக பென்டா எரித்திரிட்டால் (Pentaerythritol) மற்றும் சோடியம் பார்மேட்டின் (Sodium Formate) தற்பொழுது உள்ள உற்பத்தி திறனை அதிகரிப்பதற்கு ஒப்புதல் வழங்கி உள்ளது.

ஒப்புதல் கடிதத்தின் நகல்கள் கடலூரில் உள்ள தமிழ்நாடு மாகாணக் கட்டுப்பாட்டு வாரிய அலுவலகத்தில் கிடைக்கும் மற்றும் சுற்றுச்சூழல் அலுவலகத்தின் இணையதளத்திலும் இதனை பார்க்கலாம்.

இணையதளமுகவரி: <http://environmentclearance.nic.in>

T C N Sai Krishnan
General Works Manager

தேதி: 05-03-2014

PERSONAL

CHANGE OF NAME

CHANGE OF NAME
I, R.RADHA W/O Service No: JC 489117-P Rank - SUBEDAR Name RVENKATESAN of 12th The Bn Madras Regiment c/o 56 APO, Permanent Address of Melchengam - Village, Po, TO & PS, Chengam - Taluk, Thiruvannamalai - District, Tamil Nadu - State, PIN - 606 703 have changed my name from R.RADHA to V.RADHA. All concerned to note Please.
Chengam-09-03-2014 V.RADHA

CHANGE OF NAME

I, P. Jaya Kumar, S/o, Thiruvanthi V.Shanthi, born on 09.06.1990 (Native district: Cuddalore), residing at Nachyarpatt, Virudhachalam, Cuddalore - 606 001, declare that I have changed my name and hereafter I shall be known and called as S. JAYA KUMAR only.
P. Jaya Kumar

PUBLIC NOTICES

Asian Paints Limited, Penta Division,
B5-B10, Sipcot Industrial Complex, Kudikadu village, Cuddalore, Tamil Nadu - 607005
The Ministry of Environment & Forests, Government of India has accorded Environmental clearance for the expansion of existing manufacturing capacity of Pentaerythritol & Sodium Formate vide EC order no. F. No. J-11011/345/2011- IA II (I) dated 24th February 2014.
The copy of the clearance letter is available with TNPCB, Cuddalore office and may also be seen at the website of Ministry of Environment & Forests at <http://environmentclearance.nic.in>
Date: 5th March 2014
Sign
T.C.N. Sai Krishnan
General Works Manager

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Any Graduate having basic computer knowledge & good fluency in English. Age : below 25 years. Salary Negotiable.

Interested candidates can attend Walk-in Interview on **16th Mar 2014** (Sunday) between 10 a.m. & 2 p.m. at :

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STATE BANK OF INDIA
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SITUATIONS VACANT

GENERAL

MAGNA

Magna Electro Castings Limited is a TS-16949 certified Company producing critical Ductile Iron castings, exporting over 60% of its production and having a turnover of over Rs.100 crores, with plans to increase the turn over substantially in the next two years. The Company apart from upgrading its production facilities on a regular basis is also self sufficient in Energy, through Captive Windmills and Generators. Magna, is looking for Dynamic and Action Oriented individuals to join us in our exciting Growth Path.

SENIOR MANAGER (CNC MACHINE SHOP)

- BE (Mech) with 12 to 16 years of experience in CNC Machine shop and currently heading the operations of a Machine shop.
- Should be a Team leader and self driven to achieve the organization's goal and capable of handling a Team of Managers, Engineers and Operators.
- Should have hands on experience in CNC machining (VMC, HMC and CNC Turning).
- Hands on experience in machining cost estimations, selection of machining process, design of jigs / fixtures and selection of appropriate cutting tool for new products is essential.
- Knowledge on root cause analysis and problem solving.
- Developing suitable Sub-contractors and managing them for timely delivery, quality and cost.
- Should be able to handle Planning, delivery, Quality and waste control in both in-house and at sub-contractors end.
- Knowledge on OEE, SMED, TPM, 5S and other latest manufacturing Techniques is preferable.
- Knowledge about SOP, Control plans, FMEA, SPC, 7 QC tools, 8D.
- Should be well versant with PPAP and APO requirements.
- Man management and ISO/TS 16949 system knowledge is essential.

Salary will not be a constraint for the suitable candidate and will be commensurate to experience and knowledge.
Candidates who meet the above criteria can submit their resume to:

Magna Electro Castings Ltd
43, Balasubramaniam Road, Colimbari - 641014
Email: careers@14_magnafactory.com

AY

LAKKAD DIVISION

d.06.02.2014

With of Schedule B, the under notice:

May be read as
₹ 75,67,805/-
₹ 1,51,760/-
28.03.2014

oger/Works/Paighat
President of India)

ry Commission

(in Territories)
Nikam Complex, Udyog na, Ph. : 0124-2875302
Website: www.jrcets.gov.in
or approval of Aggregate Charges (ERC) and Tariff rent of Puducherry before and Union Territories). The available on Commission's ready been published on

or seeking approval for ELP) in UT of Puducherry has been admitted by the mission's website.
(PPCL) has filed a petition r the period 2014-15 under in Chapter-II of the Joint or Determination of Tariff) tion No. 121/2014 and is

ove three petitions as per

Remarks

to All stakeholders of UT t. of Puducherry
above schedule and may i Petitions in person or C (for Goa & UTs) with a Department, Govt. of Electricity Department.
Sd/-
(Rajeev AmIt)
Secretary

F INDIA

H
Ph : 04175-253033.

TICE

d Officer of the STATE der the Securitisation ovement of Security rferred under section ovement) Rules 2002 g upon the borrowers '60, Tirukollar Road, Tiruvannamalai, and '60, Tirukollar Road, ivannamalai. to repay sum of Rs.9,22,347/- idred and forty seven date of receipt of the

REAL ESTATE CENTRAL EXCISE AND SERVICE

1, GOUBERT AVENUE, PUNIC

NOTICE INVITING TEN

AUCTION NOTICE

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an

**Annexure 14 – Compliance to CTO of Penta plant and
Captive power plant**

CONSENT CONDITIONS AND COMPLIANCE UNDER AIR ACT- 560 MT PENTA PRODUCTION

Ref No: CONSENT ORDER NO. : 160821176912 DATED: 25.05.2016

PROCEEDINGS NO. : T11/ TNPCB/ F.0020CUD/RL/CUD/A/2016 DATED: 25.05.2016

Sl No.	Consent (Special) condition No.	Special Conditions	Compliance Status																																																
			Month/ Production(MT/month)	Formaldehyde (100%)	Pentaerythritol	Sodium formate																																													
1	1	<p>Details of the products manufactured.</p> <table border="1"> <thead> <tr> <th>Sl.NO</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td colspan="3">a</td> </tr> <tr> <td colspan="3"><i>Main Products manufactured:</i></td> </tr> <tr> <td>1.</td> <td>Formaldehyde (100%)</td> <td>675 MT/Month</td> </tr> <tr> <td>2.</td> <td>Penta Erythritol</td> <td>560 MT/Month</td> </tr> <tr> <td colspan="3">b</td> </tr> <tr> <td colspan="3"><i>By/Intermediate products manufactured:</i></td> </tr> <tr> <td>1.</td> <td>Sodium Formate</td> <td>336 MT/Month</td> </tr> </tbody> </table> <p>This consent is valid for the manufacture of Products and the rate of production mentioned above. Any change in the quantity or quality of the products has to be brought to the notice of the Board and fresh Consent has to be obtained.</p>	Sl.NO	Description	Quantity	a			<i>Main Products manufactured:</i>			1.	Formaldehyde (100%)	675 MT/Month	2.	Penta Erythritol	560 MT/Month	b			<i>By/Intermediate products manufactured:</i>			1.	Sodium Formate	336 MT/Month	<table border="1"> <tbody> <tr> <td>Oct-16</td> <td>514.5</td> <td>559.8</td> <td>335.8</td> </tr> <tr> <td>Nov-16</td> <td>482.2</td> <td>556.8</td> <td>336.0</td> </tr> <tr> <td>Dec-16</td> <td>514.2</td> <td>554.0</td> <td>335.9</td> </tr> <tr> <td>Jan-17</td> <td>471.5</td> <td>559.8</td> <td>335.8</td> </tr> <tr> <td>Feb-17</td> <td>577.8</td> <td>559.3</td> <td>335.9</td> </tr> <tr> <td>Mar-17</td> <td>443.8</td> <td>502.4</td> <td>335.6</td> </tr> </tbody> </table> <p>Any change in the quantity or quality of the products will be brought to the notice</p>	Oct-16	514.5	559.8	335.8	Nov-16	482.2	556.8	336.0	Dec-16	514.2	554.0	335.9	Jan-17	471.5	559.8	335.8	Feb-17	577.8	559.3	335.9	Mar-17	443.8	502.4	335.6
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2	2	Emission is permitted through the following chimneys / stacks and shall not exceed the figures indicated.	Emission is permitted only through the mentioned chimneys and do not exceed the figures indicated. Being Complied.																																																
3	3	<p>(a). The emissions shall not contain constituents in excess of the tolerance limits as laid down hereunder.</p> <p>1. SO₂ 2. CO 3. NO_x 4. SPM</p> <p>(b). The ambient air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below:</p> <ol style="list-style-type: none"> 1. Sulphur Dioxide (SO₂)... 2. Oxides of Nitrogen as NO_x 3. Suspended Particulate Matter (SPM) 4. Respirable Particulate Matter Size less than 10 micron (RPM) 5. Lead (Pb) 6. Carbon monoxide (CO) <p>(c). The ambient noise level in the industrial plant area should not exceed the limits prescribed below:</p>	<p>(a).The emission standards are maintained within the prescribed tolerance limits.</p> <p>(b).The quality of the ambient air in the plant is ensured within the prescribed tolerance limits.</p> <p>(c).The ambient noise level in the plant is maintained within the prescribed limits.</p>																																																
4	4	All units of the air pollution control equipment required to achieve the quality of the emissions to the tolerance limits prescribed above shall be complied at all time.	All units of the air pollution control equipment achieve the quality of the emissions to the tolerance limits prescribed - complied at all time.																																																
5	5	The applicant shall provide port holes for sampling the emission and access-platform for carrying out stack sampling and provide electrical outlet points and other arrangements for Chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provisions of the Act or Rules made therein.	Port holes along with access platform were provided for sampling of the emission.																																																
6	6	The applicant shall at his own cost get the samples of	Complied with.																																																

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		emission collected and analyzed by the Tamil Nadu Pollution Control Board Laboratory every month for the parameters indicated in condition No. 3(a) and shall furnish in triplicate the report thereof to the Board by the 10 th of succeeding month.	
7	7	This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice, from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act to make such deviation as deemed fit for the purpose of the Act.	There are no deviations in the actual practice.
8	8	The applicant shall not change or alter either the quality or quantity or the rate of emission or install replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and / or quantity of emissions, without the previous written permission of the Board	There is no change/alteration either in the quality/quantity or rate of emission or air pollution control equipment or raw material or manufacturing process.
9	9	The applicant shall provide and maintain at his own cost one ambient air quality monitoring stations for monitoring Suspended Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen. Hydro-Carbon, Carbon-monoxide and monitor the same all in a day, once in a month. The data collected shall be maintained in a register and a monthly extract furnished to the Board	Being monitored in six locations once in fortnight by using four numbers of high volume samplers. Additional to this we had installed Permanent AAQ station at the predominant wind direction and the data's are connected online to CAC,TNPCB.
10	10	The applicant shall provide and maintain at his own cost a meteorological station to collect the data on wind velocity, direction, temperature, humidity, rainfall, etc. and the daily readings shall be recorded and the extract sent to the Board once in a month.	Meteorological station is available from June 2011 to collect weather monitoring data.
11	11	The applicant shall forward the following information to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai regularly before 10th of every month. a. Monthly extract of daily discharge of emission through each chimney / stack. B. Report of Analysis of stack monitoring, ambient air quality monitoring, meteorological data as required under conditions. c. Progress on planting of trees and plants as referred to under General Conditions No.8.	Following informations were submitted before 10 th of every month. a. Monthly extract of daily discharge of emission. b. Report of Analysis of stack monitoring, ambient air quality monitoring & meteorological data's. c. Progress on planting of trees.
12	12	Any upset conditions if any of the plant/plants of the factory which is likely to result in increased emissions and / or result in violation of the standards mentioned above shall be reported to the Head Quarters and District Environmental Engineer's office/ Regional Joint Chief Environmental Engineer's Office of the Board telegraphically	Will be reported in case of any upset condition.
13	13	The applicant shall furnish to the Visiting Officer of the Board	Required informations will be

		any information regarding the stack monitoring system / or operation of the plant or any other particulars as may be pertinent to preventing and controlling of pollution of Air	furnished to the visiting officer regarding the stack monitoring system/operation of the plant.
14	14	The applicant shall submit process flow sheet and particulars of proposed control equipments, monitoring equipments and time schedule for completing the installation of the same so as to reach the Board within 30 days from the date of receipt of this order.	Complied with.
15	15	The conditions imposed as above shall continue in force until revoked under Section 21 of the Act	Agreed upon.
16	16	The unit shall comply with the conditions stipulated in the Environmental Clearances obtained for expansion activities vide Letter No.F.No. J-11011/345/2011-IA II (I) Dated: 24.02.2014 obtained from Ministry of Environment and Forest, Government of India, New Delhi.	The unit is complying with all the conditions stipulated in the Environmental Clearance obtained for Expansion. Complied with.
17	17	The unit shall ensure that the production enhancement is achieved through the process improvements in reaction technology of Pentaerythritol process and debottle-necking activities and without any additional construction activities/ additional process machineries.	The Unit ensures that the production enhancement is achieved through process improvements.
18	18	The unit shall operate and maintain the Air Pollution Control measures efficiently and continuously so that the emission shall satisfy the Ambient Air Quality/Emission standards prescribed by the Board.	The Ambient Air Quality Monitoring station is operated continuously.
19	19	The unit shall adhere to the Ambient Air Quality/Stack Emission/Ambient Noise Level standards prescribed by the Board.	The Ambient quality/stack Emission/Ambient Noise level standards prescribed by the Board were adhered with.
20	20	The unit shall conduct the Ambient Air Quality/Stack Emission/Fugitive Emission/Ambient TVOC survey through MoEF approved Laboratory once in three months and furnishes the report to the Board without fail.	The Ambient Air quality/Stack Emission/Fugitive Emission/Ambient TVOC survey were conducted through MoEF approved Laboratory and reports were submitted.
21	21	The unit shall connect Ambient TVOC provided at Process Plant area to CARE Air Centre, TNPC Board, Chennai within a period of one Month.	Ambient TVOC provided at Process Plant area was connected to CARE Air Centre, TNPC Board, Chennai.
22	22	The unit shall install Continuous Ambient Air Quality Monitoring Station (PM _{2.5} , PM ₁₀ , SO ₂ , NO _x) at the predominant wind direction and connect the same to CARE Air Centre, TNPC Board, Chennai within the period of one Month.	Continuous Ambient Air Quality Monitoring Station (PM _{2.5} , PM ₁₀ , SO ₂ , NO _x) at the predominant wind direction was installed and the same was connected to CARE Air Centre, TNPC Board, Chennai. Complied with.


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SI No.	Consent (General) condition No.	GENERAL CONDITIONS	Compliance
1	1	The applicant shall make an application for grant of fresh consent atleast 60 days be fore the date of expiry of this Consent Order.	The application for grant of fresh consent will be made at least 60 days before the date of expiry of the consent.
2	2	The necessary fee, as prescribed for obtaining consent, shall be paid for the applicant along with the application for consent.	The necessary fee prescribed for obtaining consent will be paid along with the application.
3	3	The industry shall immediately submit the revised application for Consent to this Board in the event of any change in the quantity / quality or raw material, manufacturing process, rate of emissions, air pollution control equipment, etc,	In case of any change in the quantity/quality or raw material, manufacturing process, rate of emissions revised application will be submitted to the Board.
4	4	The applicant shall a. Not later than 30 Days from the date of issue of this consent order ,certify in writing to the Member secretary that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant to maintain the compliance with the terms and conditions of the compliance. b. Not later than 30 Days from the date of this consent order ,certify in writing to the Member secretary that upon the reduction, loss or failure of any one of the primary sources of electric power to any facilities installed by the applicant to maintain the compliance with the terms and conditions of the consent, the applicant shall halt reduce or otherwise control production and or all emissions in order to maintain the compliance with the terms and conditions of this consent	a. Alternate Electrical Power source (Turbine) is available. b. Any loss or failure of the alternate power source will be informed before 30 days.
5	5	No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.	No control equipment's or chimney will be altered or replaced without getting prior approval from the Board.
6	6	The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.	The Liquid effluent arising out of the air pollution control equipment is treated as per the standards mentioned by the Board.


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7	7	The solid waste, such as sweepings, wastage, package, empty containers residues, sludge including that from air pollution control equipment's collected within the premises of the industrial plant shall be disposed off scientifically to the satisfaction of the Board, so as not to cause fugitive emission, dust problems, or water pollutions problem through leaching, etc., of any kind.	The solid waste such as sweeping, wastage, package, empty containers residues, sludge including that form air pollution control equipment's collected within the premises are disposed as per the satisfaction of the Board.
8	8	The applicant shall plant a minimum of three varieties of trees (Eucalyptus, Subabul and any other suitable variety) at the density of not less than 1,000 trees per acre of land. The plantations is stipulated over and above the bulk Plantation of trees in that area and maintain them.	Tree plantation is one of our EMP and is our ongoing process. Complied with.
9	9	The applicant shall provide all facilities for collection of sample to the Board staff.	All facilities will be provided to the Board for collection of samples.
10	10	The stack monitoring system employed by the applicant shall be open for inspection of this Board at any time.	The Stack monitoring system will be open for inspection by Board at any time.
11	11	There shall not be any fugitive or episodal discharge from the premises	There are no fugitive or episodal discharge from the premises.
12	12	In case of such episodal discharge/emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in special conditions No.3(a).	Agreed upon
13	13	The applicant shall at all times maintain in good working order and operate as efficiently as possible all pollution control facilities to achieve the terms and conditions of the Consent.	All treatment/control facilities are maintained in good condition.
14	15	The applicant shall keep the premises of the industrial plant and air pollution equipments clean and make all hoods, pipes, valves stacks/chimneys leak proof. The air pollution control equipments, location inspection chambers, sampling port holes shall be made easily accessible at all time.	Good Housekeeping is being maintained.
15	16	The applicant shall display this Consent granted to him in a prominent place for perusal of the inspecting officers of this Board.	The consent is displayed inside factory premises for perusal of the Inspecting officer.
16	17	An inspection book shall be opened and made available to the Board's Officers during their visit to the factory.	Being complied.

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17	18	If due to any technological improvements or otherwise this Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall, after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.	Will be complied.
18	19	The applicant, his/her/their legal heirs/representatives or assignees shall have no claim whatsoever to the continuation or renewal of this Consent after the expiry of the period of this Consent.	Will be complied.

Additional Conditions		
Sl.No.	Consent Conditions	Compliance Status
1.	The Unit shall not increase the Production without the valid consent of the Board.	Production will not be increased without the valid consent from the Board.
2.	The Unit shall operate and maintain the Air pollution control measures efficiently and continuously so that the emission shall satisfy the Ambient Air Quality/Emission standards prescribed by the board.	The air pollution control measures are operated continuously and efficiently and the emission satisfies the standards prescribed by the Board.
3.	The Unit shall adhere to the Ambient Noise Level standards prescribed by the board.	The ambient noise level standards prescribed by the board are adhered to.
4.	The unit shall conduct the Ambient Air quality /Stack Emission/Fugitive Emission/Ambient TVOC/THC survey through MoEF approved Laboratory once in three months and furnishes the report to the board without fail.	Ambient air quality/Stack emission/Fugitive emission/Ambient TVOC/THC survey is conducted through MoEF approved laboratory once in three months.
5.	The unit shall operate and maintain the continuous ambient air quality monitoring station(PM 2.5, PM 10,SO2, NOx) continuously and ensure the connectivity without any interruption with CARE AIR Centre, TNPC Board, Chennai.	The NAAQ station is continuously operated and the mentioned parameters are continuously measured, monitored and uplinked to CARE AIR center, TNPCB, Chennai.
6.	The Unit shall maintain the online sensors connected with CARE AIR Center, Tamilnadu Pollution control Board, Chennai and upload the data without any interruption.	Online sensors are maintained and the values are uploaded to CARE AIR Center, Tamilnadu Pollution control Board, Chennai
7.	The unit shall further continue to develop greenbelt inside/outside the premises of the unit.	About 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
8	The Unit shall furnish the details of activities done through "Corporate Social Responsibility" along with the amount spent and evidences every year.	Being furnished.

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<p align="center">CONSENT CONDITIONS AND COMPLIANCE UNDER WATER ACT – 560 MT PENTA PRODUCTION Ref No : CONSENT ORDER NO. : 160811176912 DATED: 25.05.2016 PROCEEDINGS NO. : T11/ TNPCB/F.0020CUD/RL/CUD/W/2016 DATED: 25.05.2016</p>																																																		
Sl No.	Consent (Special) condition No.	SPECIAL CONDITIONS Conditions		Compliance Status																																														
1	1	<p>This renewal of consent is valid for establishing the facility for the manufacture of products/byproducts (Col.2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.</p> <table border="1"> <thead> <tr> <th>Sl.NO</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td colspan="3">a <i>Main Products manufactured:</i></td> </tr> <tr> <td>1.</td> <td>Formaldehyde (100%)</td> <td>675 MT/Month</td> </tr> <tr> <td>2.</td> <td>Penta Erythritol</td> <td>560 MT/Month</td> </tr> <tr> <td colspan="3">b <i>By/Intermediate products manufactured:</i></td> </tr> <tr> <td>1.</td> <td>Sodium Formate</td> <td>336 MT/Month</td> </tr> </tbody> </table>		Sl.NO	Description	Quantity	a <i>Main Products manufactured:</i>			1.	Formaldehyde (100%)	675 MT/Month	2.	Penta Erythritol	560 MT/Month	b <i>By/Intermediate products manufactured:</i>			1.	Sodium Formate	336 MT/Month	<table border="1"> <thead> <tr> <th>Month/ Production (MT/month)</th> <th>Formaldehyde (100%) (MT/month)</th> <th>Pentaerythritol (MT/month)</th> <th>Sodium formate (MT/month)</th> </tr> </thead> <tbody> <tr> <td>Oct-16</td> <td>514.5</td> <td>559.8</td> <td>335.8</td> </tr> <tr> <td>Nov-16</td> <td>482.2</td> <td>556.8</td> <td>336.0</td> </tr> <tr> <td>Dec-16</td> <td>514.2</td> <td>554.0</td> <td>335.9</td> </tr> <tr> <td>Jan-17</td> <td>471.5</td> <td>559.8</td> <td>335.8</td> </tr> <tr> <td>Feb-17</td> <td>577.8</td> <td>559.3</td> <td>335.9</td> </tr> <tr> <td>Mar-17</td> <td>443.8</td> <td>502.4</td> <td>335.6</td> </tr> </tbody> </table> <p>Any change in the product/byproduct and its quantity will be brought to the notice of the board.</p>	Month/ Production (MT/month)	Formaldehyde (100%) (MT/month)	Pentaerythritol (MT/month)	Sodium formate (MT/month)	Oct-16	514.5	559.8	335.8	Nov-16	482.2	556.8	336.0	Dec-16	514.2	554.0	335.9	Jan-17	471.5	559.8	335.8	Feb-17	577.8	559.3	335.9	Mar-17	443.8	502.4	335.6
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3	3	<p>Effluent discharge shall not contain constituents in excess of the tolerance limit as laid down in this consent order.</p>		<p>Ours is a ZLD unit, there is no liquid effluent discharge</p>																																														
4	4	<p>All units of the sewage/trade effluent treatment plant to achieve the quality of the effluent according to the tolerance limits prescribed above.</p>		<p>All units of the Sewage/trade effluent plant is meeting all the quality of the effluent according to the tolerance limits prescribed.</p>																																														
5	5	<p>Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act, provided that the place where it is affixed shall in no case be at a point before which water has been tapped by the consumer for utilization for any purposes whatsoever.</p>		<p>Meter is fixed at the entrance of the water supply connection and is easily accessible for inspection and maintenance and for other purpose of the Act.</p>																																														
6	6	<p>Separate meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below:</p>		<p>Separate meters were provided with necessary pipelines for accessing the quantity of water</p>																																														

		Industrial cooling, spraying in mine pits or boiler feed. Domestic purpose. Process,	used for each purpose.
7	7	The applicant shall take immediate action to install mechanical composting sampling equipment and continuous flow measuring recording devices on the effluent drains of trade as well as sewage effluent within three months from the date of this Consent Order. A record of daily effluent discharge shall be maintained.	Continuous measuring device was installed and the values are recorded and connected to CARE AIR, TNPCB.
8	8	This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.	The operations are as per the particulars given in the application. No change was made in the actual practice from the particulars furnished in the application.
9	9	The applicant shall not change or alter either the quality or quantity or the rate of the discharge or temperature or the route of discharge without the previous written permission of the Board.	There is no change in either the quality or quantity or the rate of the discharge or temperature or the route of discharge.
10	10	The applicant shall comply with and carryout directions / orders issued by the board in this consent order and at all subsequent times without any negligence on his/her/their part. The applicant shall be liable for such legal action as per provisions of the law / act in case of non compliance of any order / directions issued at any time and or violation of the terms and conditions of this consent order.	All the directions/orders issued by the board in this consent order and at all subsequent times have been complied with.
11	11	The following information shall be forwarded to the Member Secretary/DEE/AEE regularly on or before 10 th of every month: <ul style="list-style-type: none"> Monthly statement of daily discharge of sewage as well as trade effluent. 	Monthly statement of daily discharge of sewage as well as trade effluent is being submitted to the DEE / TNPCB every month.
12	12	Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge and or result in violation of the standards mentioned above shall be reported to the Head Quarters and District Environmental Engineers office/of the Board telegraphically.	Will be reported in case of any upset condition.
13	13	The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or effluent treatment plant and any other particulars as may be pertinent to preventing and controlling pollution of water.	Information on any construction, installation or operation pertinent to prevention and control of pollution of water will be furnished to the visiting officer.
14	16	The industry has to ensure that minimum three varieties of trees (Eucalyptus, Subabul and any other suitable variety) are planted at the density of not less than 1,000 trees per acre of land The trees may be planted along the boundaries of the industry or industrial premises. This plantation is stipulated over and above the bulk plantation of trees in that area and maintains them.	Tree plantation is our ongoing process in the available space.
15	17	The unit shall comply with the conditions stipulated in the Environmental Clearance obtained for expansion activity vide Letter No. F.No.J-11011/345/2011-IA II (I) Dated: 24.02.2014 obtained from Ministry of Environment and	All the conditions stipulated in the Environmental clearance obtained for expansion is being complied with.

		Forest, Government of India, New Delhi.	
16	18	The unit shall ensure that the production enhancement is achieved through the process improvements in reaction technology of Pentaerythritol process and debottlenecking activities and without any additional construction activities/ additional process machineries.	The unit always ensures that the expansion in production is achieved only through Process Improvements.
17	19	The unit shall operate and maintain the Zero Liquid Discharge System for the treatment and disposal of trade effluent/sewage generated from the unit.	Zero Liquid discharge demonstration statement for every month is submitted to DEE / TNPCB Cuddalore.
18	20	The unit shall provide Sewage Treatment Plant for the treatment sewage generated and the treated sewage shall be utilised for green belt development/gardening purposes.	Sewage treatment plant provided.
19	21	The unit shall utilise the treated effluent in the process as reported after satisfying the Standards prescribed by the Board.	Treated effluent is being reprocessed after satisfying the standards.
20	22	The Unit shall evaporate the RO rejects through multiple effect evaporator (MEE) and Agitated thin film dryer (ATFD) and the MEE salt shall be disposed to TSDF, Gummidipoondi.	The RO reject is being evaporated in MEE ATFD and the salt is disposed to TSDF, Gummidipoondi. Complied with.
21	23	The unit shall maintain the EMFMs with computer recorder provided at the inlet of ETP, WWT, UF, and Domestic sewage, RO I & RO II feed, RO I & RO II permeate, MEE Feed, MEE distillate and connect the data to CAC of TNPCB before April 2014.	EMFMs with computer recordings were provided in Inlet of ETP, WWT, UF & Domestic sewage, RO-I & RO II feed, RO I & RO II permeate, MEE feed MEE distillate. Same has been connected to CAC of TNPCB. Complied with.
22	24	The unit shall comply with the conditions stipulated in the authorisation issued under HW (MHTM) Rules 2008.	All the conditions stipulated in the authorization letter under HW Rules 2008 is being complied with.
23	25	The unit shall operate and maintain the online pH and TDS meter provided in the storm water drains to ensure that no chemical contamination takes place during rains outside the premises at all the time	Online pH & TDS meter were provided in the storm water drains to ensure that no chemical contamination takes place during rains outside the premises at all the time. Complied with.
24	26	The unit shall provide rain water harvesting facility for all the buildings so as to recharge the ground water.	Rain water harvesting facility was provided. Complied with.
25	27	The unit shall maintain the MSDS in prescribed format as per Schedule 9 of MSIH rules 1989 for handling the chemicals.	MSDS is being maintained for the chemicals handled. Complied with.
26	28	The unit shall follow the recommendations made in the safety audit report and furnish the details on the same.	All the recommendations made in the safety audit report conducted by M/s NSC are implemented.
27	29	The unit shall dispose the boiler ash to brick manufacturing units and maintain the log book for the same.	The boiler ash is being disposed to the brick manufacturers.
28	30	The unit shall furnish the details of activities done through 'Corporate Social Responsibility' along with the amount spent and evidences every year	The details of activities done through Corporate Social Responsibility along with the amount spent were submitted every year

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Sl No.	Consent (General) condition	GENERAL CONDITIONS Conditions	Compliance Status.
1	1	The applicant shall make an application for grant of fresh consent atleast 60 days before the date of expiry of this Consent Order.	The application for grant of fresh consent will be made at least 60 days before the date of expiry of the consent.
2	2	The applicant shall display suitable caution board at the place where the effluent is entering any water-body or any other place to be indicated by the Board indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.	Ours is a ZLD unit and hence there is no effluent discharge to any water body or any other place.
3	3	The applicant shall <ul style="list-style-type: none"> a. Not later than 30 Days from the date of issue of this consent order ,certify in writing to the Member secretary that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant to maintain the compliance with the terms and conditions of the compliance. b. Not later than 30 Days from the date of this consent order, certify in writing to the Member secretary that upon the reduction, loss or failure of any one of the primary sources of electric power to any facilities installed by the applicant to maintain the compliance with the terms and conditions of the consent, the applicant shall halt reduce or otherwise control production and or all emissions in order to maintain the compliance with the terms and conditions of this consent. 	<ul style="list-style-type: none"> a. Alternate Electrical Power source (Turbine) is available. b. Any loss or failure of the alternate power source will be informed before 30 days.
4	4	The applicant shall not allow the discharge from other premises to mix with the discharge from his/her/their premises	Being adhered to.
5	5	Storm water shall not be allowed to mix with the sewage and/or trade effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.	The storm water is not allowed to mix with either sewage water or trade effluent.
6	6	All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board by: <ul style="list-style-type: none"> 1. Land fill, in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off 2. Controlled incineration, wherever possible in case of combustible organic material. 3. Composting, in case of biodegradable material 	All the Hazardous Solid wastes are disposed to TNWMA, Gummidipoondi.
7	7	Any toxic material shall be detoxified otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxification or sealing and burying shall be carried out in the presence of Board's authorized persons only.	Not applicable to our industry.
8	8	The applicant shall maintain good house-keeping both	Good Housekeeping is being

		within the factory and in the premises. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas	maintained.
9	9	The applicant shall provide all facilities to the Board staff for collection of samples.	All facilities will be provided to the Board for collection of samples.
10	10	The applicant shall at all times maintain in good working order and operate efficiently all treatment or control facilities or systems installed or used by him to satisfy the terms and conditions of the Consent.	All treatment/control facilities are maintained in good condition.
11	11	The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights or any infringement of central, state laws of regulation.	Will be complied.
12	12	This consent does not authorize or approve the construction of any physical structures or facilities or undertaking of any work in natural watercourse	In Natural water course construction of any Physical structure or facilities will not be under taken.
13	13	Non-compliance with effluent limitations:	Our unit is a ZLD unit hence effluent is not let away in case of any deviation shall be informed with steps to minimize recurrence.
14	14	The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except i) where unavoidable to prevent loss of life or severe property damage or ii) Where excessive storm damage or run off would damage any facilities necessary of compliance with terms and condition of this consent. The applicant shall immediately notify the board in writing of each diversion or bypass in accordance with procedure specified under item no .14	Our unit is a ZLD unit.
15	15	The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analyzed at an approved Laboratory of the Board every month for the parameters indicated in special condition No.3 and shall submit in duplicate the report there of to the Board.	Our unit is a ZLD unit hence samples are analyzed on daily basis and the recovered water is used in our process application. In addition raw effluent, treated effluent and RO permeate samples are collected and analyzed every quarter by TNPCB Cuddalore.
16	16	The addition of various treatment chemicals should be done only with mechanical dosers and proper equipment for regulation of correct dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids or alkalis arbitrarily and utilizing poles for stirring etc., should not be resorted to.	Proper mechanical dosers and proper equipment's are used for various treatment chemicals for correct dosage.
17	17	Care should be taken to keep the anaerobic lagoons, if any, biologically active and not to utilize as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.	Not applicable as we don't have anaerobic lagoons.
18	18	The utilization of treated effluent on factory's own lands, if	The utilization of treated effluent

		any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or indirectly or by overflow.	was done effectively so that there is no possibility of the effluent gaining access into any drainage.
19	19	The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.	Our unit is a ZLD unit since 2009.
20	20	If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.	Our unit is a ZLD unit since 2009.
21	21	The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.	The sludge from treatment units are dried in sludge drying beds and the drained liquid is taken to equalization tank.
22	22	In disposal of treated effluent on land for irrigation, industry should keep in view of the need	Our unit is a ZLD unit since 2009.
23	23	It is the sole responsibility of the industry to ensure that there are no complaints at any time from the riots in the surrounding areas as result of discharge of sewage or trade effluent'	We operate our industry responsibly by meeting all the pollution control norms.
24	24	The effluent treatment units and disposal measures shall become operative at the time of commencement of production.	Since commencement of Production effluent treatment units are operational.
25	25	The fact of commissioning of the industry shall be intimated to this office within one week of commissioning	The unit was commissioned in 1987 and the report has been submitted.
26	26	The unit has to ensure that the agency to whom the disposal of solid waste/sludge arising from the process/treatment is entrusted, shall obtain the permission of Tamil Nadu Pollution Control Board under Section 24 of the Water (Prevention and Control of Pollution) Act, 1974 before the disposal.	Solid wastes are disposed to TNWMA which is authorized by TNPCB.
27	27	The applicant shall display this Consent granted to him in a prominent place for perusal of the inspecting officers of this Board.	The Consent order is displayed in a prominent place for perusal of the Inspecting officer.

Additional Conditions		
Sl.No.	Consent Conditions	Compliance Status
1.	The Unit shall not increase the Production without the valid consent of the Board.	Production will not be increased without the valid consent from the Board.
2.	The Unit shall ensure to comply with the conditions stipulated in the Environment Clearance obtained for expansion activity vide letter No. F.NO.J-11011/345/2011-IA II (I) dated 24.02.2014 obtained from Ministry of Environment and Forest, Government of India , New Delhi from time to time.	The conditions stipulated in the Environment Clearance for expansion activity vide letter No. F.No.J-11011/345/2011-IA II(I) dated 24.02.2014 are being complied with.
3.	The unit shall operate and maintain the ETP with Zero Liquid Discharge system continuously and efficiently so as to satisfy the standards prescribed by the board.	The ETP and the Zero Liquid Discharge systems are continuously operated efficiently to satisfy the standards prescribed by the board.
4.	The Unit shall operate and maintain the sewage treatment plant	The Sewage Treatment plant is

	for the treatment sewage generated and the treated sewage shall be utilized for green belt development/gardening purposes inside the premises.	operated effectively and the treated water is utilized for green belt development/gardening purposes inside the premises.
5.	The unit shall conduct the Leak Detection and repair (LDAR) study for the process equipment's and storage yard once in year through MoEF approved Lab and submit the report to the Board.	LDAR study for the process equipment and storage yard has been completed.
6.	The Unit shall operate and maintain the online pH and TDS meter provided in the storm water drains to ensure that no chemical contamination takes place during rains outside the premises at all the time.	Online pH and conductivity meters are being maintained in the storm water drains.
7.	The Unit shall further continue to develop green belt inside/outside the premises of the unit.	About 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
8	The unit shall provide rain water harvesting facility for all the buildings so as to recharge the ground water.	Rain water harvesting is being done in the plant premises.
9.	The Unit shall furnish the details of activities done through "Corporate Social Responsibility" along with the amount spent and evidences every year.	Being submitted every year.

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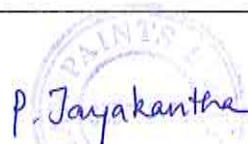


CONSENT CONDITIONS COMPLIANCE STATUS – CAPTIVE POWER PLANT – AIR ACT

Ref : Consent Order No. 160825105537 (Renewal) dated 19.05.2016

Proc.No.:T10/TNPCB/F.0388CUD/RL/CUD/A/2016 Dated: 19.05.2016

S.No.	Consent Conditions	Compliance Status.		
		Month	Steam (MT/h)	Power (kWhr)
01.	Captive Power – 1.5 MW/Hr Steam – 16 T/Hr. This consent is valid for the manufacture of Products and the rate of production mentioned above. Any change in the quantity or quality of the products has to be brought to the notice of the Board and fresh Consent has to be obtained.	Month	Steam (MT/h)	Power (kWhr)
		Oct-16	15.45	0.95
		Nov-16	15.71	1.02
		Dec-16	15.74	1.01
		Jan-17	15.67	0.97
		Feb 17	15.11	1.00
		Mar 17	14.37	0.92
Complied with.				
02.	Emission is permitted through the following chimneys/stacks and shall not exceed the figures mentioned in the consent : Attached to the Boiler – 42 m	Emission is performed only through the said stacks and the emissions are within the prescribed limit.		
03(a) (b)(c).	The emissions shall not contain constituents in excess of the tolerance limits as mentioned in the consent.	The emissions are not containing constituents in excess of the said tolerance limits.		
04.	All units of the air pollution control equipment required to achieve the quality of the emissions to the tolerance limits prescribed above shall be completed along with the commissioning of production.	All units of air pollution control equipment installed to achieve the quality of emissions were completed along with the commissioning of production.		
05.	The applicant shall provide port holes for sampling the emission and access-platform for carrying out stack sampling and provide electrical outlet points and other arrangements for Chimneys/stacks and other sources of emissions so as to collect samples of emission by the Board or the applicant at any time in accordance with the provisions of the Act or Rules made therein.	Port holes along with support platform are provided for sampling of the emission.		
06.	The applicant shall at his own cost get the samples of emission collected and analyzed by the Tamil Nadu Pollution Control Board Laboratory every month for the parameters indicated in condition No.3 (a) and shall furnish in triplicate the report thereof to the Board by the 10 th of succeeding month.	The cost of analysis of the sampling and analysis is being borne by the applicant.		


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07.	This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice, from the particulars furnished in the application will also be ground for review / variation / revocation of the Consent Order under Section 21 of the Act to make such deviation as deemed fit for the purpose of the Act.	There are no deviations/alterations in the actual practice.
08.	The applicant shall not change or alter either the quality or quantity or the rate of emission or install replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in any change in quality and quantity or emission, without the previous written permission of the Board.	There is no change/alteration either in the quality/quantity or rate of emission or air pollution control equipment or raw material or manufacturing process.
09.	The applicant shall provide and maintain at his own cost one / two / three ambient air quality monitoring stations for monitoring suspended particulate matter, Sulphur dioxide. Oxides of Nitrogen, Hydro-Carbon, Carbon-monoxide and monitor the same all in a day. Once in a week / fortnight/month. The data collected shall be maintained in a register and a monthly extract furnished to the Board.	Being monitored in six locations once in fortnight by using four numbers of high volume samplers. Additional to this we had installed Permanent AAQ station at the predominant wind direction and the data's are connected online to CAC, TNPCB.
10.	The applicant shall provide and maintain at his own cost a metrological station to collect the data on wind velocity, direction, temperature, humidity, rainfall, etc. and the daily readings shall be recorded and the extract sent to the Board once in a month.	Installed a metrological station in the month of June 2011.
11.	The applicant shall forward the following information to the Member Secretary, Tamilnadu Pollution Control Board, Chennai regularly before 10 th of every month. <ul style="list-style-type: none"> a. Progress on the installation of Air Pollution Control equipments. b. Progress on the procurement and installation of equipments for monitoring ambient air quality stacks, chimneys and metrological data. c. Monthly extract of daily discharge of emission through each chimney / stack. d. Report of Analysis of stack monitoring, ambient air quality 	Following informations were forwarded to the Board: <ul style="list-style-type: none"> a. Progress on the installation of Air Pollution Control equipment's. b. Progress on the procurement and installation of equipment's for monitoring ambient air quality stacks, chimneys and metrological data. c. Monthly extract of daily discharge of emission through each chimney / stack. d. Report of Analysis of stack monitoring, ambient air quality e. Progress on planting of trees.

	<p>monitoring, metrological data as required under conditions.</p> <p>e. Progress on planting of trees and plants as referred to under General Conditions No.8.</p>	
12.	Any upset conditions if any of the plant / plants of the factory which is likely to result in increased emissions and / or result in violation of the standards mentioned above shall be reported to the Head Quarters and District Environmental Engineer's office.	Will be reported in case of any upset condition.
13.	The applicant shall furnish to the Visiting Officer of the Board any information regarding the stack monitoring system / or operation of the plant or any other particulars as may be pertinent to preventing and controlling of pollution of Air.	The applicant will furnish to the Visiting Officer of the Board any information regarding the stack monitoring system / or operation of the plant or any other particulars as may be pertinent to preventing and controlling of pollution of Air.
14.	The unit shall operate and maintain the Air Pollution control measures efficiently and continuously so that the emission shall satisfy the Ambient Air Quality/Emission standards prescribed by the Board.	Air pollution control measures are being operated continuously and efficiently.
15.	The unit shall adhere to the AAQ/Emission/noise level standards prescribed by the Board.	The prescribed standards for AAQ/Emission/Noise are adhered.
16.	The unit shall conduct the Ambient Air quality/Stack emission/fugitive emission/ambient TVOC survey through MoEF approved laboratory once in three months and furnish the report to the board without fail.	External analysis for ambient air quality, stack emission, fugitive emission, ambient TVOC through MoEF approved laboratory is being done once in three months.
17.	The unit shall maintain the online sensors for measuring SPM, SO ₂ , and NO _x in the Boiler and PM _{2.5} , PM ₁₀ , SO ₂ , NO _x in the continuous ambient air quality monitoring station and continuously upload the data to the Care air centre, TNPC Board, Chennai.	Online sensors for measuring the said parameters are being maintained and the data is uploaded to Care Air Centre, TNPC Board, Chennai.
18.	The unit shall further continue to develop greenbelt inside/outside the premises of the unit.	About 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
19.	The unit shall furnish the details of activities done through 'Corporate Social Responsibility' along with the amount spent and evidences every year.	The CSR activities carried out during October 16 – March 17 are attached here with.

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S.No.	General Conditions	Compliance Status.
01.	The applicant shall make an application for grant of fresh consent at least 60 days before the date of expiry of this Consent Order.	The application will be filed at least 60 days before the date of expiry of the Consent order.
02	The necessary fee, as prescribed for obtaining consent, shall be paid for the applicant along with the application for consent.	The necessary fee will be remitted.
03.	The industry shall immediately submit the revised application for Consent to this Board in the event of any change in the quantity or raw material, manufacturing process, rate of emissions, air pollution control equipment, etc.	Revised application shall be submitted in the event of any change in the said parameters.
04.	<p>The applicant shall either :</p> <p>a. Not later than 30 days from the date of issue of this Consent Order, certify in writing to the Member Secretary that the applicant has installed or provided for an alternate electric power source sufficient to operate all facilities installed by the applicant to maintain compliance with the terms and conditions of the Consent.</p> <p>b. Not later than 30 days from the date of this Consent, certify in writing to the Member Secretary that upon the reduction, loss or failure of any one or more of the primary sources of electric power to any facilities installed by the applicant to maintain compliance with the terms and conditions of the Consent, the applicant shall halt, reduce or otherwise control production and / or all emissions in order to maintain compliance with the terms and conditions of this Consent.</p>	<p>a. Alternate Electrical Power source (Turbine) is available.</p> <p>b. Any loss or failure of the alternate power source will be informed before 30 days.</p>
05.	No control equipments or chimney shall be altered or replaced or as the case may be erected or re-erected except with the previous approval of the Board.	No control equipment or chimney will be altered without prior permission from the board.
06.	The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974	The Liquid effluent arising out of the air pollution control equipment is treated as per the standards mentioned by the Board.

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	as amended.	
07.	The solid waste, such a sweepings, wastage, package, empty containers residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be disposed off scientifically to the satisfaction of the Board, so as not to cause fugitive emission, dust problems, or water pollutions problem through leaching, etc., of any kind.	Hazardous wastes are stored in the covered shed with impermeable concrete floor.
08.	The applicant shall plant a minimum of three varieties of trees (Eucalyptus, Subabul and any other suitable variety) at the density of not less than 1,000 trees as per acre of land. The plantation is stipulated over and above the bulk plantation of trees in that area and maintains them.	Tree plantation is one of our Environmental Management Program and is an ongoing process.
09.	The applicant shall provide all facilities for collection of sample to the Board staff.	All facility will be provided for collection of sample to the Board staff.
10.	The stack monitoring system employed by the applicant shall be open for inspection of this Board at any time.	The stack monitoring system will be open for inspection at any time.
11.	There shall not be any fugitive or episodal discharge from the premises.	There is no fugitive or episodal discharge from the premises.
12.	In case of such episodal discharge / emissions the industry shall take immediate action to bring down the emission within the limits prescribed by the Board in special conditions No.3 (a).	Agreed upon
13	The applicant shall at all times maintain in good working order and operate as efficiently as possible all pollution control facilities to achieve the terms and conditions of the Consent.	All pollution control equipment's are operated continuously.
14	The issue of this consent does not cover any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights or any infringement of central, state laws of regulation.	Agreed upon
15.	The applicant shall keep the premises of the industrial plant and air pollution equipments clean and make all hoods, pipes, valves stacks / chimneys leak proof. The air pollution control equipments, location inspection chambers,	The premises are maintained with good housekeeping. The air pollution control equipment, location inspection chambers, sampling port holes is easily accessible at all times.

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	sampling port holes shall be made easily accessible at all time.	
16.	The applicant shall display this consent granted to him in a prominent place for perusal of the inspecting officers of this Board.	The consent is displayed inside factory premises for the perusal of the Inspecting officer.
17.	An inspection book shall be opened and made available to the Board's Officers during their visit to the factory.	Being ensured.
18.	If due to any technological improvements or otherwise this board is of opinion that all or any of the conditions referred to above requires variation (including the change of any control equipment either in whole or in part) this Board shall, after giving the applicant an opportunity of being heard, vary all or any of such condition and thereupon the applicant shall be bound to comply with the conditions so varied.	Agreed with.
19.	The applicant, his/her/their legal heirs/representatives or assignees shall have no claim whatsoever to the continuation or renewal of this consent after the expiry of the period of this consent.	Agreed with.
20.	The Board reserves the right to review, impose additional conditions or conditions, revoke change or alter the terms and conditions of this consent.	Agreed with.

Additional Conditions		
Sl.No.	Consent Conditions	Compliance Status
1.	The unit shall operate and maintain the Air Pollution control measures efficiently and continuously so that the emission shall satisfy the Ambient Air quality/Emission standards prescribed by the Board.	The air pollution control measures are operated continuously and efficiently and the emission satisfies the standards prescribed by the Board.
2.	The unit shall adhere to the Ambient Air Quality/Stack Emission/Ambient Noise Level standards prescribed by the board.	The ambient noise level standards prescribed by the board are adhered to.
3.	The unit shall conduct the Ambient Air Quality/Stack Emission/Fugitive Emission/Ambient TVOC survey through MoEF approved Laboratory once in three months and furnish the report to the Board without fail.	Ambient air quality/Stack emission/Fugitive emission/Ambient TVOC/THC survey is conducted through MoEF approved laboratory once in three months.
4.	The Unit shall maintain the online sensors for	Online sensors are maintained and the values

	the measuring SPM, SO ₂ and NO _x in the Boiler and continuously upload the data to CARE AIR Center, TNPCB Chennai.	are uploaded to CARE AIR Center, Tamilnadu Pollution control Board, Chennai
5.	The unit shall calibrate all the analyzers connected to CAC, TNPCB, Chennai and provide quality data at all times.	Periodic calibrations of all the analyzers are carried out to provide quality data at all times.
6.	The unit shall further continue to develop greenbelt inside/outside the premises of the unit.	About 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
7.	The unit shall furnish the details of activities done through Corporate Social Responsibility along with the amount spent and evidences every year.	The details of CSR activities carried out is furnished to Board every year
8	The Unit shall comply the SWM Rules 2016 by consuming RDF in 5% of the coal daily consumed for Boiler.	Experts Opinion will be sought for our type of Boiler (AFBC).



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CONSENT CONDITIONS AND COMPLIANCE UNDER WATER ACT – CAPTIVE POWER PLANT

Consent order no: 160815105537 (Renewal)

Proc No.: T10/TNPCB/F.0388CUD/RL/CUD/W/2016 Dated: 19.05.2016

SI No.	Consent (Special) condition No.	SPECIAL CONDITIONS Conditions	Compliance																							
			Month	Steam (MT/Hr)	Power (MW/Hr)																					
1	1	<p>Details of the products manufactured. Captive Power – 1.5 MW/Hr Steam – 16 T/Hr.</p> <p>This consent is valid for the manufacture of Products and the rate of production mentioned above. Any change in the quantity or quality of the products has to be brought to the notice of the Board and fresh Consent has to be obtained.</p>	<table border="1"> <thead> <tr> <th>Month</th> <th>Steam (MT/Hr)</th> <th>Power (MW/Hr)</th> </tr> </thead> <tbody> <tr> <td>Oct-16</td> <td>15.45</td> <td>0.95</td> </tr> <tr> <td>Nov-16</td> <td>15.71</td> <td>1.02</td> </tr> <tr> <td>Dec-16</td> <td>15.74</td> <td>1.01</td> </tr> <tr> <td>Jan-17</td> <td>15.67</td> <td>0.97</td> </tr> <tr> <td>Feb 17</td> <td>15.11</td> <td>1.00</td> </tr> <tr> <td>Mar 17</td> <td>14.37</td> <td>0.92</td> </tr> </tbody> </table> <p>Any change in the quantity or quality of the products will brought to the notice of the Board.</p>	Month	Steam (MT/Hr)	Power (MW/Hr)	Oct-16	15.45	0.95	Nov-16	15.71	1.02	Dec-16	15.74	1.01	Jan-17	15.67	0.97	Feb 17	15.11	1.00	Mar 17	14.37	0.92		
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2	2	<table border="1"> <thead> <tr> <th>Outlet Number</th> <th>Description of Outlet</th> <th>Maximum daily discharge (in KLD)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sewage</td> <td>1KLD</td> </tr> <tr> <td>2.</td> <td>Trade Effluent</td> <td>1KLD</td> </tr> </tbody> </table>	Outlet Number	Description of Outlet	Maximum daily discharge (in KLD)	1.	Sewage	1KLD	2.	Trade Effluent	1KLD	Connected to the main ETP processed and recovered in the ZERO discharge system. Complied with.														
Outlet Number	Description of Outlet	Maximum daily discharge (in KLD)																								
1.	Sewage	1KLD																								
2.	Trade Effluent	1KLD																								
3	3	The effluent discharge shall not contain any constituents in excess of the tolerance limit as laid down here under (..)	All units of the sewage/trade effluent treatment plant are achieving the quality of the effluent according to the tolerance limits prescribed.																							
4	4	All units of the sewage/trade effluent treatment plant to achieve the quality of the effluent according to the tolerance limits prescribed above shall be completed along with the commissioning of production.	Meter is affixed at the entrance of the water supply connection so that it is easily accessible for inspection and maintenance. Being adhered to.																							
5	5	Meters must be affixed at the entrance of the water supply connection so that such meters are easily accessible for inspection and maintenance and for other purposes of the Act, provided that the place where it is affixed shall in no case be at a point before which water has been tapped by the consumer for utilization for any purposes whatsoever.	Meters have been provided. Complied with.																							
6	6	<p>Separate meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below:</p> <ul style="list-style-type: none"> a. Industrial cooling, spraying in mine pits or boiler feed. b. Domestic purpose. c. Process 	There is no deviation in the actual practice.																							
7	7	This consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the consent order under section 27 of the Act and to	There is no change in the quality/quantity or rate of discharge or temperature or route of discharge.																							




		make such variation as deemed fit for the purpose of the Act.	
8	8	The applicant shall not change or alter either the quality or quantity or the rate of the discharge or temperature or the route of discharge without the previous written permission of the Board,	Complied with.
9	9	The applicant shall comply with and carryout directions / orders issued by the board in this consent order and at all subsequent times without any negligence on his/her/their part. The applicant shall be liable for such legal action as per provisions of the law / act in case of non compliance of any order / directions issued at any time and or violation of the terms and conditions of this consent order.	Shall be reported incase of any upset condition.
10	10	Any upset condition in any of the plant/plants of the factory which is likely to result in increased effluent discharge and or result in violation of the standards mentioned above shall be reported to the Head Quarters and District Environmental Engineers office/of the Board telegraphically.	Any informations regarding the construction/installation or operation of the plant or effluent treatment plant and any other particulars as may be pertinent to preventing and controlling pollution of water will be furnished.
11	11	The applicant shall furnish to the visiting officer of the Board any information regarding the construction, installation or operation of the plant or effluent treatment plant and any other particulars as may be pertinent to preventing and controlling pollution of water.	Agreed upon
12	12	Not withstanding anything contained in this conditional letter of consent, the Board hereby reserves to it the right and power under section 27(2) of the water (Prevention and control of pollution) Act, 1974 (as amended) to review any and/or all the conditions imposed herein above and to make such variation as deemed fit for the purpose of the Act by the Board.	Agreed upon
13	13	The conditions imposed as above shall continue in force until revoked under section 27(2) of the Act.	Agreed upon
14	14	The unit shall operate and maintain the Zero liquid discharge system for the treatment and disposal of trade effluent/sewage generated from the unit.	The Zero Liquid Discharge system is in operation from 2009 onwards.
15	15	The unit shall provide sewage treatment plant for treatment of sewage generated and the treated sewage shall be utilized for green belt development/gardening purposes.	Sewage Treatment plant is operated and the treated water is utilized for green belt development.
16	16	The unit shall maintain the EMFM with computer recording arrangements provided in the Zero liquid discharge plant and furnish the data to the board.	The EMFM readings were recorded and the details were furnished to the Board.
17	17	The unit shall operate and maintain the online pH and TDS meter provided in the storm water drains to ensure that no chemical contamination takes place during rains outside the premises at all the time.	Online TDS and pH meters have been installed. Complied with.
18	18	The unit shall further continue to develop greenbelt	About 54% of the total land area (15.7

		inside/outside the premises of the unit.	acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
19	19	The unit shall provide rain water harvesting facility for all the buildings so as to recharge the ground water.	The Rain water harvesting facilities were provided and the collected water is reused.
20	20	The unit shall furnish the details of activities done through 'Corporate Social Responsibility' along with the amount spent and evidences every year.	The activities done through CSR are submitted to Board every year.

Sl No.	Consent (General) condition No.	GENERAL CONDITIONS Conditions	Compliance status
1	1	The applicant shall make an application for grant of fresh consent at least 60 days before the date of expiry of this Consent Order.	The application for grant of fresh consent will be made at least 60 days before the date of expiry of the consent.
2	2	The applicant shall display suitable caution board at the place where the effluent is entering any water body or any other place to be indicated by the Board, indicating therein that the area into which the effluents are being discharged is not fit for the domestic use/bathing.	The Zero Liquid Discharge system is in operation from 2009 onwards.
3	3	The applicant shall <ul style="list-style-type: none"> a. Not later than 30 Days from the date of issue of this consent order ,certify in writing to the Member secretary that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant to maintain the compliance with the terms and conditions of the compliance. b. Not later than 30 Days from the date of this consent order ,certify in writing to the Member secretary that upon the reduction, loss or failure of any one of the primary sources of electric power to any facilities installed by the applicant to maintain the compliance with the terms and conditions of the consent, the applicant shall halt reduce or otherwise control production and or all emissions in order to maintain the compliance with the terms and conditions of this consent 	<ul style="list-style-type: none"> a. Alternate Electrical Power source (Turbine) is available. b. Any loss or failure of the alternate power source will be informed before 30 days.
4	4	The applicant shall not allow the discharge from other premises to mix with the discharge from his/her/their premises	The Zero Liquid Discharge system is in operation from 2009 onwards.
5	5	Storm water shall not be allowed to mix with the sewage and/or trade effluent on the upstream of the terminal manholes where the flow measuring devices will be installed.	Being adhered to.
6	6	All solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board	Complied with. Solid wastes are sent to TNWMA for disposal.

		<p>by:</p> <ol style="list-style-type: none"> 1. Land fill, in case of inert material, care being taken to ensure that the material does not give rise to leachate which may percolate into ground water or carried away with storm run-off 2. Controlled incineration, wherever possible in case of combustible organic material. 3. Composting, in case of biodegradable material 	
7	7	Any toxic material shall be detoxified otherwise be sealed in steel drums and buried in protected areas after obtaining approval of this Board in writing. The detoxification or sealing and burying shall be carried out in the presence of Board's authorized persons only.	Not applicable to our industry.
8	8	The applicant shall maintain good house-keeping both within the factory and in the premises. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas	Good housekeeping is maintained in the plant premises. All pipes, sewers and drains are leak proof. Floor washings are admitted into the effluent collection system. Being maintained.
9	9	The applicant shall provide all facilities to the Board staff for collection of samples	All facilities will be provided to the Board for collection of samples.
10	10	The applicant shall at all times maintain in good working order and operate efficiently all treatment or control facilities or systems installed or used by him to satisfy the terms and conditions of the Consent.	All treatment/control facilities are maintained in good condition.
11	11	The issuance of this consent does not convey any property right in either real or personal property or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights or any infringement of central, state laws of regulation.	Will be complied.
12	12	This consent does not authorize or approve the construction of any physical structures or facilities or undertaking of any work in natural watercourse	In Natural water course construction of any Physical structure or facilities will not be undertaken.
13	13	<p>Non-Compliance with effluent limitations:</p> <ol style="list-style-type: none"> a. If for any reason the applicant does not comply with or will be unable to comply with any effluent limitations specified in this consent, the applicant, shall immediately notify the consent issuing authority by telephone and provide the consent issuing authority with the following in writing within 5 days of such notifications: <ol style="list-style-type: none"> i) Cause for Non-compliance ii) A description of the non-complied discharge including its impact upon the receiving waters. iii) Anticipated time of continuance of non-compliance if expected to continue or if such condition has been corrected the duration of period of non-compliance iv) Steps taken by the applicant to reduce and eliminate the non complying discharge and v) Steps to be taken by the applicant to prevent recurrence of condition of non-compliance. 	The Zero Liquid Discharge system is in operation from 2009 onwards.

		<p>b) The applicant shall take all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this consent including such accelerated or additional monitoring as necessary to determine the natural and impact of the non-complying discharge.</p> <p>c) Nothing in this consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance whether or not such non-compliance is due to factors beyond his/her control, such as break-down, electric failure, accident or natural disaster.</p>	
14	14	<p>The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except</p> <p>i) where unavoidable to prevent loss of life or severe property damage or</p> <p>ii) Where excessive storm damage or run off would damage any facilities necessary of compliance with terms and condition of this consent. The applicant shall immediately notify the board in writing of each diversion or bypass in accordance with procedure specified under item no .14</p>	<p>The Zero Liquid Discharge system is in operation from 2009 onwards.</p>
15	15	<p>The applicant shall at his own cost get the effluent samples collected both before and after treatment and get them analyzed at an approved Laboratory of the Board every month for the parameters indicated in special condition No.3 and shall submit in duplicate the report there of to the Board.</p>	<p>Our unit is a ZLD unit hence samples are analyzed on daily basis and the recovered water is used in our process application. In addition raw effluent, treated effluent and RO permeate samples are collected and analyzed in a quarterly basis by TNPCB Cuddalore.</p>
16	16	<p>The addition of various treatment chemicals should be done only with mechanical dosers and proper equipment for regulation of correct dosages determined daily and for proper uniform feeding. Crude practices such as dumping of chemicals in drains or sumps or trickling of acids or alkalis arbitrarily and utilizing poles for stirring etc., should not be resorted to.</p>	<p>Proper mechanical dozers and proper equipment's are used for various treatment chemicals for correct dosage.</p>
17	17	<p>Care should be taken to keep the anaerobic lagoons, if any, biologically active and not to utilize as mere stagnation ponds. The anaerobic lagoons should be fed with the required nutrients for effective digestion. Lagoons should be constructed with sides and bottom made impervious.</p>	<p>Not applicable as we don't have anaerobic lagoons.</p>
18	18	<p>The utilization of treated effluent on factory's own lands, if any, should be completed and there should be no possibility of the effluent gaining access into any drainage channel or other water courses either directly or indirectly or by overflow.</p>	<p>The utilization of treated effluent was done effectively so that there is no possibility of the effluent gaining access into any drainage.</p>
19	19	<p>The effluent disposal on land, if any, should be done without creating any nuisance to the surroundings or inundation of the lands at any time.</p>	<p>Our unit is ZLD unit hence effluent disposal on land is not done.</p>
20	20	<p>If at any time the disposal of treated effluent on land becomes incomplete or unsatisfactory or create any</p>	<p>Our unit is a ZLD unit, there is no</p>



		problem or becomes a matter of dispute, the industry must adopt alternate satisfactory treatment and disposal measures.	effluent discharge on land.
21	21	The sludge from treatment units shall be dried in sludge drying beds and the drained liquid shall be taken to equalization tank.	The sludge from treatment units are dried in sludge drying beds and the drained liquid is taken to equalization tank.
22	22	In disposal of treated effluent on land for irrigation, industry should keep in view of the need for: i) Rotation of crops ii) Change of point of application of effluent on land iii) A portion of land kept fallow	Ours is a ZLD unit
23	23	It is the sole responsibility of the industry to ensure that there are no complaints at any time from the riots in the surrounding areas as result of discharge of sewage or trade effluent'	We operate our industry responsibly by meeting all the pollution control norms.
24	24	The effluent treatment units and disposal measures shall become operative at the time of commencement of production.	Since commencement of Production effluent treatment units are operational.
25	25	The fact of commissioning of the industry shall be intimated to this office within one week of commissioning	The unit was commissioned in 1987 and the report has been submitted.
26	26	The unit has to ensure that the agency to whom the disposal of solid waste/sludge arising from the process/treatment is entrusted, shall obtain the permission of Tamil Nadu Pollution Control Board under Section 24 of the Water (Prevention and Control of Pollution) Act, 1974 before the disposal.	Solid wastes are disposed to TNWMA which is authorized by TNPCCB.
27	27	The units has to put-up Effluent Treatment Plant within the specified period indicated in Special Condition No.4 by engaging any one of the consultants approved by the Board and operate and maintain the Effluent Treatment Plant continuously and efficiently so that treated effluent satisfies the standards by the Board	As the plant is existing one and the consent issued is for the enhancement production capacity the existing ETP is more than adequate to handle the entire effluent.
28	28	The applicant shall display this Consent granted to him in a prominent place for perusal of the inspecting officers of this Board.	The Consent order is displayed in a prominent place for perusal of the Inspecting officer.

Additional Conditions

Sl.No.	Consent Conditions	Compliance Status
1.	The unit shall operate and maintain the ETP with Zero Liquid Discharge system efficiently and continuously so as to ensure that the treated effluent satisfy the standards prescribed by the Board.	The ETP and the Zero Liquid Discharge systems are continuously operated efficiently to satisfy the standards prescribed by the board.
2.	The unit shall operate and maintain the Sewage Treatment plant efficiently and continuously and shall ensure that the treated sewage is sent for further treatment in the Zero Liquid Discharge system provided in the Main plant of Penta Division.	The Sewage Treatment plant is operated effectively and the treated water is utilized for green belt development/gardening purposes inside the premises.
3.	The Unit shall ensure to maintain the EMFM with computer	The EMFM readings with computer

	recording arrangements provided in the Zero Liquid Discharge plant and furnish the data to the Board.	recording arrangements are provided in the Zero Liquid Discharge plant to furnish the data to the board.
4.	The Unit shall operate and maintain the online pH and TDS meter provided in the storm water drains to ensure that no chemical contamination takes place during rains outside the premises at all the time.	Online pH and conductivity meters are being maintained in the storm water drains.
5.	The Unit shall ensure to dispose the boiler ash then and there without accumulation for further beneficial use.	Boiler ash is disposed then and there without accumulation for further beneficial use.
6.	The unit shall provide rain water harvesting facility for all the buildings so as to recharge the ground water.	Rain water harvesting is being done in the plant premises.
7.	The Unit shall further continue to develop green belt inside/outside the premises of the unit.	About 54% of the total land area (15.7 acres) has been used for developing green belt. Plant species (Eucalyptus, Subabul) are selected as per the CPCB guidelines.
8	The unit shall furnish the details of activities done through Corporate Social Responsibility along with the amount spent and evidences every year.	The details of CSR activities carried out are submitted to TNPCB every year.
9.	The unit shall install Camera and flow meter in the channel/drain provided for carrying the effluent from within the industry premises as per the CPCB guidelines.	Ours is a ZLD unit, hence all the treated effluent is recycled.

P. Jayakantha -

