



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 58/AAQS/2020-21

Date: 19.03.2021

1. Name of the Industry : M/s. TPL (ECH),
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 10.03.2021
4. Duration of Survey : 8 Hours / 24 hours
5. Category : Red / Orange / Green – Large / Medium / Small
6. Land use classification : Industrial / Commercial / Residential / Sensitive


Meteorological Conditions


Ambient Temperature ($^{\circ}$ C)	Min.	Max	Relative Humidity (%)	Min	Max
	27	32		55	79
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SE – NW		Mean Wind Speed (km/hr)	14.63	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration (microgram / m ³)				
					PM 2.5	PM 10	SO ₂	NO ₂	Cl ₂
1	On top of platform near CP Station II	NE	150	3.0	30	62	7	16	0.10
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0	--	54	6	14	BDL
3	On top of platform near STP (Gate No 5)	SE	700	3.0	--	66	10	17	0.10
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0	36	79	9	20	BDL
5	On top of platform near Flare Area	NW	240	3.0	--	74	8	18	BDL

Note: * With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs


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17/3/2021


Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO ₂	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012



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District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 58/ SM/2020-21

Date: 19.03.2021

1. Name of the Industry : M/s. TPL (ECH),
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 10.03.2021
4. Type of Industry : Coal/Chemical/Sugar/Paper & Pulp/
Power plant / Textile Processing

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Fuel used	Stack Temp °K	Velocity in (m/ sec)	Discharge rate In Nm ³ /hr	Pollutants (mg / Nm ³)			
						PM	SO ₂	NO _x	Cl ₂
1.	Boiler 12.5 T	LNG	433	12.03	9886	4	BDL	30	--
2	Vent Gas Scrubber	--	310	10.18	799	3	--	--	2

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO _x	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012

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District Environmental Laboratory, Manali

AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No. 58/NLS/2020-21

Date: 19.03.2021

1.	Name of the Industry	M/s. TPL (ECH)		
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68		
3.	Date of Survey	10.03.2021		
Category		RL	Land use Classification	Industrial
Type of Survey		Ambient/Source	Time of Survey	Day
Meteorological conditions		Calm/Windy/Rainy		Windy

Logging Parameters


Instrument Used	CESVA Model SC310	Serial No	T243103		
Logging Interval	10 Minutes each point	Measuring Range	50-110 dB(A)		
Weighting	"A"	Peak Weighting	"C"	Time Weighting	FAST
Sound Incidence	RANDOM		Time in hrs	14.00 – 15.00	

Report of Noise Level Monitoring

Sl No	Location	Duration (min)	Distance (M)	Direction	Sound Level – dB (A)		
					Leq	Min	Max
1	Near CP Station II	10	150	NE	60.5	55.6	65.2
2	Near Propylene Oxide Filling Point	10	280	E	65.7	59.2	69.8
3	Near STP (Gate No.5)	10	700	SE	60.8	57.7	72.6
4	Near ERC Building (Gate No 3)	10	200	SW	68.1	58.2	74.1
5	Near Flair Area	10	240	NW	53.3	50.1	60.2

Note: Leq value is the average energy for the measured period.


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Manali



TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY – MANALI

TVOC Survey – Report of Analysis

Report No.58/TVOC/2020-21 dated 19.03.2021

1. Name of the Industry : M/s. TPL (ECH)
2. Address of the Industry : Manali Express Highway, Chennai - 68
3. Date of Survey : 10.03.2021
4. Pollution Category : Red Large

TVOC – Analysis Report

Sl.No.	Location	Direction	Distance (mts)	TVOC ($\mu\text{g}/\text{m}^3$)
1	Near CP Station II	NE	150	506
2	Near Propylene Oxide Filling Point	E	280	627
3	Near STP (Gate No.5)	SE	700	578
4	Near ERC Building (Gate No 3)	SW	200	486
5	Near Flair Area	NW	240	611

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