

# ENVIRONMENTAL STATEMENT REPORT

For The Year 2019-2020

Submitted to :

Uttarakhand Environment Protection and  
Pollution Control Board  
(UEPPCB)



# "FORM - V"

## ENVIRONMENTAL STATEMENT REPORT For Year 2019-20

M/s Sravanthi Energy Pvt. Ltd.

### PART - A

- (i) Name and address of the Owner/occupier of the industry, operation or Process : D. V. Rao  
Sravanthi Energy Pvt. Ltd.  
2×225 MW Combined Cycle Power Plant  
Village – Khaikhera, Kashipur  
Dist. - Udham Singh Nagar (Uttarakhand)
- (ii) Industry category  
Primary - (STC Code) : 3510  
Secondary - (SIC Code) : 35103
- (iii) Production capacity - Units : Electricity - 2×225 MW
- (iv) Year of Establishment : 2009
- (v) Date of the last environmental statement : 11/03/2020

### PART - B

#### Water and Raw Materials Consumption

(1) Water consumption m<sup>3</sup>/d.

Process	: 67.90 m <sup>3</sup> /d
Cooling	: 167.90 m <sup>3</sup> /d
Domestic	: 5.57 m <sup>3</sup> /d

Name of products	Process Water consumption per unit of product output	
	During the previous financial year	During the current financial year
<b>Electricity</b>	<b>0.000010 m<sup>3</sup>/KWH</b>	<b>0.000063 m<sup>3</sup>/KWH</b>

(2) Raw Material Consumption

* Name of raw materials	Name of products	Consumption of raw material per Unit of output	
		During the previous financial year	During the current financial year
<b>Natural Gas</b>	<b>Electricity</b>	<b>0.2077 scm/KWH</b>	<b>0.2071 scm/KWH</b>

\* Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

*Chinnel*



### PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil	Not applicable	Not applicable
(b) Air	NA	Annexure-1	Within prescribed standards

### PART - D

#### HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
(a) From process	Used Oil – 0.60 MT	Used Oil – 1.0 MT
(b) From pollution control facilities	Nil	Nil

### PART - E

#### SOLID WASTE

Solid Waste	Total Quantity	
	During the previous financial year	During the current financial year
a) From process	Nil	Nil
b) From pollution control facilities	Nil	Nil
c) (1) Quantity recycled or reutilized within the Unit.	Nil	Nil
(2) Sold	Nil	Nil
(3) Disposed	Nil	Nil

### PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

**No solid waste. Used oil is collected in drum & stored at safe location.**

### PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

**ETP & STP is operational where effluent is treated and this treated water is used for green belt, this conserves ground water.**

*Chinnilal*



## PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Both gas turbines supplied by General Electric, are equipped with advanced dry low NO<sub>x</sub> (DLN 2.6) combustor for efficient combustion of gas and maintaining air pollutants to lowest values. Conventional Power Plants use Steam or water as De-NO<sub>x</sub> agent in enormous quantity to meet the pollution Norms, where as Sravanthi Gas Turbines are with Dry Low NO<sub>x</sub> technology use NIL such water or Superheated steam and also keeps the NO<sub>x</sub> under 25 ppm itself.

Further Conventional Power Plants using Cooling Towers with copious cooling water to condense the exhaust steam of steam turbines, Sravanthi opted ACC –Air Cooled Condensing Technology to conserve the scarce natural resource of water.

Treated water has been connected a forming a ring header for green belt development inside the plant to make as “Zero Discharge”.

## PART - I

Any other particulars for improving the quality of the environment.

Following initiatives taken by SEPL, Kashipur to improve the Environment:

- Rain water harvesting system near administrative building (RWH #1) and ECB Building (RWH #2) is made to replenish the ground water.
- Ground Water Level / Quality Survey being done on routine basis as PCB/CGWB.
- 'World Environment Day' on 5<sup>th</sup> June is celebrated every year by organizing various types of competitions to create awareness among employees along with massive plantations.
- STP is in operation for recovery and reuse of sewage water also for Green Belt.

*for Sravanthi*  
Name & Signature of the Occupier

D. V. Rao  
Sravanthi Energy Pvt. Ltd.  
2×225 MW Combined Cycle Power Plant  
Village – Khaikhera, Kashipur  
Dist.-Udham Singh Nagar (Uttarakhand)

Seal



**ANNEXURE - 1**



# AVON FOOD LAB (PVT.) LTD.

(ENVIRONMENT DIVISION)

NABL Accredited Laboratory Certificate No. TC-5547  
Recognized from Ministry of Environment, Forest & Climate Change (MoEF & CC)  
Under the Environment (Protection) Act 1986.

## TEST REPORT

Page : 1 of 1

Issued to : M/s. Sravanthi Energy Pvt. Ltd.  
225 MW, Phase-I, GBCCPP at Kashipur,  
Khaikhera Village, Distt-Udham Singh Nagar,  
Uttarakhand

Sample code : E/202003040001  
Report No. : AFLPL/E/040320001  
Date of Issue : 11/03/2020  
Reference No. : N.A.

## SAMPLE PARTICULARS

1 Name of the Sample : Ambient Air

### Details of sampling

- (a) Date of Sampling : 02/03/2020 to 03/03/2020  
(b) Time of sampling : 14:30 Hrs. to 14:30 Hrs.  
(c) Sampling Protocol : IS:5182 (P-14) 2000  
(d) Equipment Used : RDS & PM 10/2.5 Sampler  
(e) Sampling Done By : Mr. Navneet Srivastav  
(f) Duration of Sampling : 1440 Minutes  
(g) Sampling Location : Near GT-3  
(h) Height of sampling Location : 3.0 Mtr. from Ground Level

### Physical observations

- (a) Ambient temp. (Max/Min) : 27°C/16°C  
(b) Weather Condition : Clear  
(c) Wind direction : East to West  
(d) Sampling Flow rate for SPM : -  
(e) Sampling Flow rate for RSPM/PM-10 (Ave) : 1.16 m<sup>3</sup>/min.  
(f) Sampling Flow rate for Gases (Ave.) : 0.5 LPM

## TEST RESULTS

Test Started on : 04/03/2020

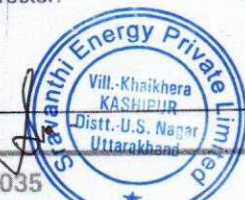
Test Completed on : 11/03/2020

SL. No.	Parameter	Units	Results	Specification/Requirement (as per CPCB)	Test Method
1	Particulate Matter (as PM10)	µg/m <sup>3</sup>	94.6	100 (For 24 Hrs.)	IS: 5182 (P-23), 2006
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	55.3	60 (For 24 Hrs.)	AFLPL/SOP/ENV/37
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.6	80 (For 24 Hrs.)	IS: 5182 (P-02), 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	48.3	80 (For 24 Hrs.)	IS: 5182 (P-06), 2006
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.52	02 (For 8 Hrs.)	IS: 5182 (P-10), 2003



Dr. Vinod Kumar Mogha  
Head-Environment Division  
Authorised Signatory

- \* The results listed refer only to the tested sample and applicable parameter.
- \* This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- \* This report can not be reproduced, except when in full, without the written permission of the Director.
- \* The sample will be destroyed after three weeks from the date of issue of the test report. (in case of non-perishable products only)
- \* The liability of the laboratory is limited to the invoiced amount.
- \* All disputes are subjected to the Delhi Jurisdiction.



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