



Ref No: SEPL/EC/Compliance Report/57/2022
Dated: 23.05.2023

To,
Ministry of Environment, Forests & Climate Change
Govt. of India, Regional Office,
Pearson Road, FRI Campus
PO - New Forest, Dehradun – 248006
Telephone-0135-2750809

Subject: Submission of Half Yearly Compliance Report (01-Oct-2022 to 31-Mar-2023) for the Environmental Clearance of 225 MW Gas Based CCPP – Phase - II at Village - Khaikhera, Tehsil - Kashipur, District - Udham Singh Nagar, Uttarakhand

Reference: Environmental Clearance Letter No:

1. Environmental Clearance Letter No: J-13012/135/2010-IA.II (I); dated 31st January, 2011 for Phase - II
2. Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

Dear Sir,

This is in reference to above letters, we are submitting herewith hard copy along with soft copy (CD) of half yearly compliance report to the Environmental clearance conditions imposed by MoEF for 225 MW Gas Based Combined Cycle Power Plant – Phase - II by M/s Srivanthi Energy Pvt. Ltd., Kashipur.

Details of the reports are as follows:

1. EC Compliance Report (For Phase II)
2. Annexure (I to IV)

Plant commissioning is in progress and will be completed by 2nd quarter 2023. The consolidated Consent to Operate and Authorization has been received from Uttarakhand Pollution Control Board and attached for your reference.

This is for your kind information and record please.

This is to inform you that, as per UPCL clearance, plant is under operation since 1st Apr'2023.

Thanking you.

With Regards

For M/s Srivanthi Energy Pvt. Ltd

Vice President (Operation)

Enclosure:

1. Compliance Report to the Environmental Clearance Conditions (For Phase - II)
2. Annexure - 1: Ground Water Analysis Report
3. Annexure - 2: CSR Activities Status
4. Annexure - 3: Ambient Air Quality Report
5. Annexure - 4: Implementation Status of the Environmental safeguard
6. Annexure – 5: Consolidated Consent to Operate & Authorization
7. Form 4 & Form – V, Soft Copy: 1 No CD

Cc:

1. The Director (Thermal), MoEF, Govt. of India, IA - Section, Indira Parayavaran Bhawan Jorbag Road New Delhi-110003
2. In Charge CPCB, Zonal office, Ground floor, PIUCP Bhawan, Vibhuti Khand, Gomtinagar, Lucknow-226010
3. Regional Office, UEPPCB, Kashipur, Uttarakhand



Srivanthi Energy Pvt. Ltd.

Corporate Office : 7th Floor, Block B, Building Number 9, DLF Cybe City, Phase-III, Gurugram-122002

Tel. : +91-124-4787000/01/02/03

Works : Village-Khaikhera, Dariyal Road, Post Office-Mahuwakhera Ganj, Tehsil-Kashipur,
Distt- Udham Singh Nagar, Uttarakhand, Pin-244713 Tel - 05947-261300

CIN : U40101HR2009PTC038954

www.srivanthigroup.com

Compliance to the Conditions Stipulated by MoEF vide

Environment Clearance Letter No. J-13012/135/2010-IA.II (I); dated 31st January, 2011

Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

Project Name : M/s. Sravanthi Energy Pvt. Ltd.

Location : Village-Khaikhera, Tehsil- Kashipur, Dist.-U. S. Nagar, Uttarakhand

Project : Expansion of 225 MW (225 MW to 450 MW) Gas Based CCPP (Phase II)

Compliance & Monitoring Report Period: **01st Oct'2022 to 30th Mar'2023**

Sr. No.	Environmental Clearance Conditions	Compliance
A	Specific Conditions	
(i)	The company shall comply with the conditions stipulated while according environmental clearance for the existing 225 MW combined cycle gas power plant vide letter no. J-13012/77/2009-IA.II (I) dated 9.03.2010	Complying
(ii)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months	Vision document has been submitted to MoEF, New Delhi via our letter ref no. SEPL-II/001/MoEF/023/2011 dated 30 th July, 2011 as well as to MoEF regional Office along with first environmental compliance report.
(iii)	In case fuel running the power plant is proposed to be changed from natural gas to other fuel (liquid or solid) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by Ministry in consultation with the Expert Appraisal Committee (Thermal Power)	No change in the usage of fuel
(iv)	The project proponent shall in association with other Gas based Thermal Power Plants coming up in the district, initiate a study through a reputed institution to assess the	Some relevant agencies/institutions have been approached to assess the cumulative impact of the power plants on the AAQ of the area.



Compliance to the Conditions Stipulated by MoEF vide

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	<p>cumulative impact of the power plants on the AAQ of the area and submit its report to the Ministry within two years. The study shall in particular assess the impact of emission of the gas power plant on the chemistry of upper troposphere and stratosphere of the atmosphere and the impact on radiation budget. It shall be ensured that the study takes into account the worst seasonal atmospheric conditions.</p>	<p>Further being, it is an extensive work/study to be carried out and in India, this kind of study has not done in the past. So, the anticipated time for engagement and completion of the study may be more than the time suggested by the MoEF. However, we are taking our sincere effort in this regards.</p>
(v)	<p>Local Employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time</p>	<p>Local Employable youth has been considered and given employment in developmental activities as well as commissioning & operation of plant. Local Employable youth are considered as per requirement and available skills</p>
(vi)	<p>Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.</p>	<p>Site is almost plain and no cutting & back filling is required.</p>
(vii)	<p>Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant.</p>	<p>Agreed to Comply.</p>
(viii)	<p>Air cooled condensers are being installed for both phases.</p>	<p>Yes, company is installing Air Cooled Condensers to reduce the water consumption.</p>
(ix)	<p>A well designed Rainwater harvesting shall be constructed. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater</p>	<p>Rain Water Harvesting is being adopted. The plan for RWH system will remain the same as being installed for Phase I</p>



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Compliance to the Conditions Stipulated by MoEF vide

Environment Clearance Letter No. J-13012/135/2010-IA.II (I); dated 31st January, 2011

Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

	harvesting technology within a period of Six months from the date of clearance and details shall be furnished to the Regional Office of the Ministry.	
(x)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring shall also be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	The level of ground water is being monitored regularly and reports will be submitted to Regional Office of the Ministry during operation of the project. Ground water quality monitoring is carried out regularly and the ground water Analysis report is attached as <u>Annexure -1</u> .
(xi)	Monitoring of surface water quantity and quality (if any nearby) shall also be regularly conducted and record maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	No surface water body nearby. The monitoring of Ground Water, Air & Noise Quality at site and in surrounding area being carried out regularly & report attached.
(xii)	The treated effluents conforming to the prescribed standards only shall be re-circulated to the extent possible and excess discharged. Arrangements shall be made that effluents and storm water do not get mixed.	Provisions for effluent collection and treatment have been made. Treated effluent will be reused for green belt development to the maximum extent possible.
(xiii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising green belt/plantation	STP provided and treated sewage will be used for greenbelt development.



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(xiv)	Dry Low NO _x Burners shall be installed.	Complied
(xv)	Two stacks of 40 m height shall be provided with continuous online monitoring equipments for ambient air quality parameters notified by the Ministry including NO _x , Exit velocity of flue gases shall not be less than 22 m/sec.	2 x 40 m stacks installed as part of project with continuous online monitoring equipments
(xvi)	Green Belt should be raised to 30% of the plant area. Selection of plant species shall be as per the CPCB guidelines.	Agreed to Comply
(xvii)	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner	Noted, included as part of CSR activities and various CSR activities are in progress at site.
(xviii)	An amount of Rs. 4.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 1.0 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Detailed of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Socio-Economic study has been conducted and based on that, CSR activities under progress.
(xix)	While identifying CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm,	The report for CSR activities has already been submitted to Ministry via our letter no. SEPL-II/001/MOEF/016/2011 dated 02 nd Mar, 2011. CSR activities completed and in progress are attached as <u>Annexure - 2</u>



R.P. Raw

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	fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.	
(xx)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Agreed to Comply
B.	General Conditions	
(i)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires and other hazards. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	The fire fighting system (Fire detection, Alarm system, Hydrant system, Inergen system for ECB building and CO ₂ flooding system for GTs) already installed. The details report will be submitted to Ministry after installation of required fire fighting equipments.
(ii)	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS (if any) shall be made in plant area in consultation with department of explosives, Nagpur. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Noted and shall be complied.
(iii)	First Aid and sanitation arrangements shall be made for the drivers and other contract	Adequate First Aid and sanitation arrangements have been made available for



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	workers during construction phase.	drivers, workers and contractors. <ul style="list-style-type: none">◆ A medical van is available at site.◆ Male Nursing Assistant is appointed at site for health check-up for drivers, workers and contractors and first aid, if required◆ Adequate facility for sanitation i. e. toilet is provided.
(iv)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like ear plugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Agreed to comply.
(v)	Regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided to the consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The Data shall also be put on the website of the company.	Agreed to comply.



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Compliance to the Conditions Stipulated by MoEF vide

Environment Clearance Letter No. J-13012/135/2010-IA.II (I); dated 31st January, 2011

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(vi)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Most of the labour hired from the nearby villages. However, the basic services like Toilet facilities, drinking water, medical health care etc. are available at site
(vii)	The proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Copies of press advertisement have already submitted to the Ministry. Environmental clearance letter already made available in our company website www.sravanthigroup.com
(viii)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, urban local Body and the local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied EC letter already made available in our company website www.sravanthigroup.com
(ix)	An environmental Cell shall be created at the project site itself and shall be ensured that the head of the cell shall directly report to the Head of the Organization. The status report on the functioning of the Cell shall	Environment management cell is in place.



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Environment Clearance Letter No. J-13012/135/2010-IA.II (I); dated 31st January, 2011

Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

	be submitted to the regional office of the Ministry periodically.	
(x)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM (PM _{2.5} , PM ₁₀) SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in public domain.	Ambient air quality monitoring report is attached as <u>Annexure - 3</u>
(xi)	The environment statement for each financial year ending 31 st March in form-V as is mandated to be submitted by the project proponent 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 Office of the Ministry by e-mail.	Agreed to Comply
(xii)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control board and State Pollution Control Board. The project proponent shall upload the status of	Complying Environmental Management Plan, Disaster Management Plan, Safety Manual for contractor, employees and workers, Safety guidelines are in place and all required PPEs are also available at site



Compliance to the Conditions Stipulated by MoEF vide

Environment Clearance Letter No. J-13012/135/2010-IA.II (I): dated 31st January, 2011

Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

	compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of environment and forests.	
(xiii)	Regional office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environmental Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	A complete set of documents have already been submitted to regional office of MoEF via our letter no. SEPL-II/001/MOEF/Lucknow/014/2011 dated 9 th February, 2011
(xiv)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Separate fund has been kept for implementation of environmental protection measures along with item-wise break-up. The details for same has been submitted to concerned offices:
(xv)	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by concerned	Erection & installation activities are on hold for Phase II. Required approvals/clearances from concerned authorities have been obtained. Financial closure has been



Compliance to the Conditions Stipulated by MoEF vide

Environment Clearance Letter No. J-13012/135/2010-IA.II (I); dated 31st January, 2011

Validity up to 30.01.2021 as per MoEF Letter No. J-13012/135/2010-IA II (T) dated 27.02.2018

	authorities and the dates of start of land development work and commissioning of plant.	achieved on 05 th July, 2011.
(xvi)	Full cooperation shall be extended to the Scientist/Officers from the Ministry/Regional Office of the Ministry at Lucknow/CPCB/SPCB who would be monitoring the compliance of environmental status.	Full cooperation shall be extended to the visiting Scientists/Officers from the Ministry / Regional Office of the Ministry at Lucknow/CPCB/ SPCB



Signature

ANEXURE - 1



CATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MoEF RECOGNISED GOVT. APPROVED TEST HOUSE

Trusted Analytical & Research House

Certificate of Analysis

7.8 F-01(B)

PARTY CODE : S/UK/003

PARTY

: SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (BOREWELL WATER-1)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00122303

Ref No. : SEPL-01/O&M/EHS/WO
-915/2022

DATE:22/12/2022

RESULTS OF ANALYSIS

Reference : IS: 10500-2012

Description : One sample of Ground Water (Borewell Water-1) was collected by us on 10/03/2023.

PARAMETERS	Results	Acceptable (Limit) (Max.)	Permissible (Limit) (Max.)	Protocols
pH	: 7.14	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 298 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO3)	: 145 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 35 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 12 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-48)
Chloride (as Cl)	: 58 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO4)	: 18 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Total Alkalinity	: 130 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-23)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Microbiological Examination	:			
E.coli	: Absent/100 ml	Absent/100 ml	-	IS: 1622
Total Coliform MPN/100 ml	: Not detected/100 ml	Not detected/100 ml	Not detected/100 ml	IS: 1622
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)

Date of performance 11/03/2023 to 16/03/2023

Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US



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AN ISO 9001:2015 CERTIFIED M&EF RECOGNISED GOVT. APPROVED TEST HOUSE

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Certificate of Analysis

7.8 F-01(B)

PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (BOREWELL WATER-2)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00132303

Ref No. : SEPL-01/O&M/EHS/WO
-915/2022

DATE-22/12/2022

RESULTS OF ANALYSIS Reference : IS: 10500-2012

Description : One sample of Ground Water (Borewell Water-2) was collected by us on
10/03/2023.

PARAMETERS	Results	Acceptable (Limit) (Max)	Permissible (Limit) (Max.)	Protocols
pH	: 7.33	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 326 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO ₃)	: 158 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 42 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 20 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-46)
Chloride (as Cl)	: 72 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO ₄)	: 28 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Total Alkalinity	: 124 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-23)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Microbiological Examination	:	-	-	-
E.coli	: Absent/100 ml	Absent/100 ml	-	IS: 1622
Total Coliform MPN/100 ml	: Not detected/100 ml	Not detected/100 ml	Not detected/100 ml	IS: 1622
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)

Date of performance : 11/03/2023 to 16/03/2023

Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US





CATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MoEF RECOGNISED GOVT. APPROVED TEST HOUSE

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Certificate of Analysis

7.8 F-01(B)

PARTY CODE : S/U/K/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (VILLAGE-BERKHERA PANDEY, GW-1)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00082303
Ref No. : SEPL-010/G&G/EHS/WO-
894/2022
DATE-09/08/2022

RESULTS OF ANALYSIS Reference : IS: 10500-2012

PARAMETERS	Results	Acceptable (Limit) (Max.)	Permissible (Limit) (Max.)	Protocols
Description : One sample of Ground Water (Berkhera Pandey GW-1) was collected by us on 10/03/2023.				
pH	: 7.16	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 338 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO3)	: 132 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 34 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 11 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-46)
Chloride (as Cl)	: 68 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO4)	: 16 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Nitrates (as NO3)	: 4.82 mg/L	45 mg/L	No Relaxation	IS: 3025 (P-34)
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)
Copper (as Cu)	: Not detected	0.05 mg/L	1.5 mg/L	IS: 3025 (P-2)
Manganese (as Mn)	: Not detected	0.1 mg/L	0.3 mg/L	IS: 3025 (P-2)
Free Residual chlorine (as Cl2)	: 0.21 mg/L	0.2 mg/L (Min)	1.0 mg/L	IS: 3025 (P-26)

Date of performance : 11/03/2023 to 15/03/2023

Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US



DATE 15-03-2023

Analyst/ Auth. Signatory

Person In. Auth. Signatory



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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (VILLAGE-RAJPURA RANI GW-2)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00092303

Ref No. : SEPL-01/VO&G/EHS/WO-
894/2022

DATE-09/08/2022

RESULTS OF ANALYSIS Reference : IS: 10500-2012

Description : One sample of Ground Water (Rajpura Rani GW-2) was collected by us on 10/03/2023.

PARAMETERS	Results	Acceptable (Limit) (Max.)	Permissible (Limit) (Max.)	Protocols
pH	: 7.20	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 302 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO3)	: 121 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 28 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 13 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-46)
Chloride (as Cl)	: 52 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO4)	: 10 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Nitrates (as NO3)	: 3.74 mg/L	45 mg/L	No Relaxation	IS: 3025 (P-34)
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)
Copper (as Cu)	: Not detected	0.05 mg/L	1.5 mg/L	IS: 3025 (P-2)
Manganese (as Mn)	: Not detected	0.1 mg/L	0.3 mg/L	IS: 3025 (P-2)
Free Residual chlorine (as Cl2)	: 0.22 mg/L	0.2 mg/L (Min.)	1.0 mg/L	IS: 3025 (P-26)

Date of performance : 11/03/2023 to 15/03/2023

Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US



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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (VILLAGE-KANAKPUR GW-3)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00102303

Ref No. : SEPL-01/O&G/EHS/WO-894/2022

DATE-09/08/2022

RESULTS OF ANALYSIS

Reference : IS: 10500-2012

Description PARAMETERS	Results	: One sample of Ground Water (Kanakpur GW-3) was collected by us on 10/03/2023.		
		Acceptable (Limit) (Max.)	Permissible (Limit) (Max.)	Protocols
pH	: 7.13	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 412 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO ₃)	: 141 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 32 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 15 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-46)
Chloride (as Cl)	: 67 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO ₄)	: 26 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Nitrates (as NO ₃)	: 3.64 mg/L	45 mg/L	No Relaxation	IS: 3025 (P-34)
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)
Copper (as Cu)	: Not detected	0.05 mg/L	1.5 mg/L	IS: 3025 (P-2)
Manganese (as Mn)	: Not detected	0.1 mg/L	0.3 mg/L	IS: 3025 (P-2)
Free Residual chlorine (as Cl ₂)	: 0.21 mg/L	0.2 mg/L (Min.)	1.0 mg/L	IS: 3025 (P-26)

Date of performance : 11/03/2023 to 16/03/2023

Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US



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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD,
UDHAM SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : GROUND WATER (VILLAGE-KATTAYA GW-4)

Sample Qty. : 2.5 LTRS

DT Recd : 11-03-2023

REPORT NO. : CWM00112303
Ref No. : SEPL-01VO&G/EHS/WO-
894/2022
DATE:09/08/2022

RESULTS OF ANALYSIS Reference : IS: 10500-2012

Description PARAMETERS	: One sample of Ground Water (Kattaya GW-4) was collected by us on 10/03/2023.			
	Results	Acceptable (Limit) (Max.)	Permissible (Limit) (Max.)	Protocols
pH	: 7.30	6.5 to 8.5	Relaxation	IS: 3025 (P-11)
Colour	: <1 Hazen	5 Hazen	15 Hazen	IS: 3025 (P-4)
Odour	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-5)
Taste	: Agreeable	Agreeable	Agreeable	IS: 3025 (P-7 & 8)
Turbidity	: <1 NTU	1 NTU	5 NTU	IS: 3025 (P-10)
Total Dissolved Solids	: 356 mg/L	500 mg/L	2000 mg/L	IS: 3025 (P-16)
Total Hardness (as CaCO ₃)	: 130 mg/L	200 mg/L	600 mg/L	IS: 3025 (P-21)
Calcium (as Ca)	: 29 mg/L	75 mg/L	200 mg/L	IS: 3025 (P-40)
Magnesium (as Mg)	: 12 mg/L	30 mg/L	100 mg/L	IS: 3025 (P-46)
Chloride (as Cl)	: 60 mg/L	250 mg/L	1000 mg/L	IS: 3025 (P-32)
Sulphate (as SO ₄)	: 10 mg/L	200 mg/L	400 mg/L	IS: 3025 (P-24)
Iron (as Fe)	: <0.1 mg/L	1 mg/L	No Relaxation	IS: 3025 (P-53)
Nitrates (as NO ₃)	: 4.2 mg/L	45 mg/L	No Relaxation	IS: 3025 (P-34)
Lead (as pb)	: Not detected	0.01 mg/L	No Relaxation	IS: 3025 (P-65)
Mercury (as Hg)	: Not detected	0.001 mg/L	No Relaxation	IS: 3025 (P-48)
Arsenic (as As)	: Not detected	0.01 mg/L	0.05 mg/L	IS: 3025 (P-65)
Chromium (as Cr)	: Not detected	0.05 mg/L	No Relaxation	IS: 3025 (P-52)
Copper (as Cu)	: Not detected	0.05 mg/L	1.5 mg/L	IS: 3025 (P-2)
Manganese (as Mn)	: Not detected	0.1 mg/L	0.3 mg/L	IS: 3025 (P-2)
Free Residual chlorine (as Cl ₂)	: 0.21 mg/L	0.2 mg/L (Min.)	1.0 mg/L	IS: 3025 (P-26)

Date of performance : 11/03/2023 to 16/03/2023

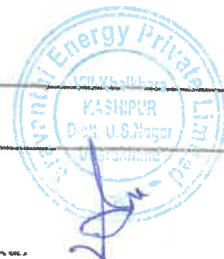
Opinion :- The Chemical & Bacteriology analysis indicates that the sample received conforms to IS: 10500-2012 specification (Acceptable Limits) wrt above tests only.

SAMPLE DRAWN BY US

DATE 16-03-2023

Analyst / Auth. Signatory

Person in Charge / Auth. Signatory



Annexure – 2

CSR Activities

Activities Completed/On progress:

- ◆ Ambulance has been purchased under CSR activities and extended helping hand number of times.
- ◆ Classroom furniture has been provided in Primary Pathsala Kataiya Village and Primary Pathsala in Khaikhera village.
- ◆ School Kits (Uniform, bags, water bottles, note books etc.) have been distributed in Primary Pathsala Kataiya village and Primary Pathsala in Khaikhera village.
- ◆ Construction of Bore wells and hand pumps for safe drinking water in Khaikhera & Kataiya village is in progress
- ◆ Construction of classroom and sanitation facilities completed at Primary Pathsala Khaikhera village
- ◆ Construction of drainage from Madhaya Village to connecting Nala completed.
- ◆ Approximately Rs. 2.59 crore is invested under CSR activities till now.

Table: CSR Expenditure (for Work Completed & on Progress)

Sr. No.	CSR Head	Activity	Place/Location	Amount Spent/Progress (Rs.)	Remarks
1	Education	Uniform Distribution, Furniture, School Building Repair & maintenance, Bicycle Distribution & Drainage Cleaning & Needy People Education Help	Khaikhera Village	6,17,036	Completed
		Uniform, Furniture Distribution & Fees	Katiya Village	4,98,972	Completed
2	Health	Ambulance	Site	9,13,092	Completed
3	Drinking Water Facility	Hand Pump Installation & Water Filter & RO	Nearby Villages & Gurdwara	7,23,550	Completed
4	Infrastructure Development	Construction of Drainage (Sewer)	Madhayya to Nalla	26,12,859	Completed
		Construction of Drainage (Storm)	Khaikhera	11,89,950	Completed



		Road Concreting	Madhaya & Khaikhera	8,58,000	Completed
		Classroom Construction	Divya Convent School	1,50,000	Completed
		Land Purchase	For School & Hospital development	75,00,000	Completed
5	Help to disabled	Tri Cycle & Sewing Machine Distribution	Nearby Villages	2,74,716	Completed
6	Green Belt Development	Park Development	Rudrapur Collectorate	1,50,000	
7	Illumination	Installation of Street light poles with light fixtures and its Electrification works.	Khaikhera	56,000	Completed
8	Construction	For Gurudwara Slab construction	Khaikhera	71,000	Completed
9	Cleaning Activity	For Drain Cleaning	Khaikhera & Maddu	90,268	Completed
10	Water Harvesting	Artificial Structure for Rain Water harvesting	Village Kamola & Dhamola Distt-Nainital	13,02,325	Completed
		Distribution to poor & Needy People Society to Support them in Epidemic Covid 19 & Woolen Blanket	Kashipur, khailkera, Kanakpur, kattya,	7,87,594	Completed
11	Covid-19	Distribution Santizer, Medical Equipments, PPA	Govt Hospital Kashipur, khailkera, Kanakpur, kattya ETC	4,84,218	Completed
		Donation for Containment of epidemic	Pipal Tree Foundation/ Indian Red Cross Society/Seva Bharathi /Shri Adinath Rajendra Jain Shwetamber Pedhi Trust/Wani Chamber of Commerce Industries & Agriculture	54,66,976	Completed



		Ambulance Support with Driver to District Administration	CMO Rudarpur	67,750	Completed
		Telemedicine Services Nearby Village	Kashipur, khailkera, Kanakpur, kattya and nearby Villages	11,01,999	Completed
12	Health	Doonline Medicines Service	Kashipur, khailkera, Kanakpur, kattya and Nearby Villages	9,91,056	Completed
13	Flood Relief	Heavy rain Fall	Rudarpur	50,000	Completed
Total Amount				2,59,57,361	



ANEXURE - 3



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PARTY CODE : SJUK003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR

Ref No. : SEPL-01/O&M/EHS/WO-9 DT Recd : 11-03-2023
15/2022 DATE-22/12/2022

REPORT NO. : CAV00072303

RESULTS OF ANALYSIS Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.

Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND

Location of the Sampling Point : Near GT3

Date of Sampling : 09/03/2023 to 10/03/2023

Sampling Started at : 2:50 pm dt. 09/03/2023

Sampling Completed at : 2:50 pm dt. 10/03/2023

Actual Time of Sampling (Minutes) : 1440

Total Volume of Air sampled (m3) : 1728 for PM 10 & 20.4 PM 2.5

Flow Rate of SPM(M3/MIN) : 1.2

Ambient Temperature (degree C) : 28

PARAMETERS

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	81.6	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	47.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	22.2	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.104 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	38.6	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 15/03/2023

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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-BERKHERA PANDEY)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/08/2022

REPORT NO. : CAV00032303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.

Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND

Location of the Sampling Point : Village Berkhera Pandey

Date of Sampling : 09/03/2023 to 10/03/2023

Sampling Started at : 10:00 am dt. 09/03/2023

Sampling Completed at : 10:00 am dt. 10/03/2023

Actual Time of Sampling (Minutes) : 1440

Total Volume of Air sampled (m3) : 1584

Flow Rate of SPM (M3/MIN) : 1.1

Ambient Temperature (degree C) : 28

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max)	Protocols
Particulate Matter (PM 10)	72.4	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	56.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	20.2	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.112 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	40.2	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 16/03/2023

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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-RAJPURA RANI)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/08/2022

REPORT NO. : CAV00042303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.
Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND
Location of the Sampling Point : Village Rajpura Rani
Date of Sampling : 09/03/2023 to 10/03/2023
Sampling Started at : 1:45 pm dt. 09/03/2023
Sampling Completed at : 1:45 pm dt. 10/03/2023
Actual Time of Sampling (Minutes) : 1440
Total Volume of Air sampled (m3) : 1872 for PM 10 & 20.4 PM 2.5
Flow Rate of SPM(M3/MIN) : 1.3
Ambient Temperature (degree C) : 29

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	: 89.2	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	: 50.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	: 22.6	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	: 0.120 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	: 38.6	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 16/03/2023

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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE KANAKPUR)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/08/2022

REPORT NO. : CAV00052303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.
 Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND
 Location of the Sampling Point : Village Kanakpur
 Date of Sampling : 09/03/2023 to 10/03/2023
 Sampling Started at : 11:00 am dt. 09/03/2023
 Sampling Completed at : 11:00 am dt. 10/03/2023
 Actual Time of Sampling (Minutes) : 1440
 Total Volume of Air sampled (m3) : 1584 for PM 10 & 20.6 PM 2.5
 Flow Rate of SPM(M3/MIN) : 1.1
 Ambient Temperature (degree C) : 30

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	77.2	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	48.6	60	Gravimetric
Sulphur Dioxide (as SO ₂)	20.8	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.110 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	34.4	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 16/03/2023

SAMPLE DRAWN BY US

DATE 16-03-2023

[Signature]
Analyst (Auth. Signatory)

[Signature]
Person in Charge (Auth. Signatory)



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PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-KATTAYA)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
84/2022 DATE-09/08/2022

REPORT NO. : CAV00062303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.

Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND

Location of the Sampling Point : Village Kattaya

Date of Sampling : 09/03/2023 to 10/03/2023

Sampling Started at : 1:00 pm dt. 09/03/2023

Sampling Completed at : 1:00 pm dt. 10/03/2023

Actual Time of Sampling (Minutes) : 1440

Total Volume of Air sampled (m3) : 1728 for PM 10 & 21.2 PM 2.5

Flow Rate of SPM(M3/MIN) : 1.2

Ambient Temperature (degree C) : 29

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	78.4	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	52.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	24.2	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.102 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	44.8	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 16/03/2023

SAMPLE DRAWN BY US

ANEXURE - 4

Implementation Status of Environmental Safeguard at SEPL Site

S. N.	Environmental Safeguard Activity	Status
1	Sanitation Facilities for Workers, Drivers etc.	Provided
2	Environmental Management Plan for Construction Phase	Available
3	Disaster Management Plan	Available
4	Environment, Health & Safety Manual	Available
5	Safety Guidelines Leaflet for Visitors	Available
6	Rain Water Harvesting System	Rainwater Harvesting Pit (two nos) completed
7	Effluent Treatment Plant	Completed
8	Sewage Treatment Plant	Completed
9	Stack	Provided
10	Ground Water Level Monitoring (Piezometer)	Ground water level is monitored
11	Environment Monitoring Lab	Established
12	Green belt Development	Developed and maintained



ANEXURE - 5



HEAD OFFICE
Uttarakhand Pollution Control Board
"Gaura Devi Paryuvaran Bhawan"

46B, IT Park, Sahasradhara Road, Dehradun (Uttarakhand)

Web : www.ukpcb.org.in E-mail : ukpcb@ukpcb.org.in
Ph. No. 2976157, 2976158, 2687892

UKPCB/HO/Con-S-217/2021 /375

Date: 19.07.2021
REGD. POST

To,

M/s Sravanthi Energy Pvt. Ltd.
Khaikhera, Dadiyal Road,
Kashipur, Dist- U.S.Nagar.

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Expand) under Section-25 of the "Water (Prevention & Control of Pollution) Act, 1974" and under Section-21 of the "Air (Prevention & Control of Pollution) Act, 1981" and Authorization under "Rule-6(2)" of the "Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" notified under "Environment (Protection) Act, 1986" as applicable (to be referred hereinafter as Water Act, Air Act and HW Rules respectively).

CAF ID - 25753	Application No. - 1308693
CCA (Expand)	Date :- 13.04.2021

CCA is hereby granted to M/s Sravanthi Energy Pvt. Ltd. located at Khaikhera, Dadiyal Road, Kashipur, Dist- U.S.Nagar subject to the provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the orders that may be made further and subject to following terms and conditions:-

1. This CCA is granted for the period Upto 31.03.2023 and valid for manufacturing of following products with Capital Investment/Net Assets Values ₹ 98852.86 Lakh :-

S. No.	Last CCA		Present CCA (Expand)	
	Product	Quantity	Product	Quantity (Per Month)
1	Electricity	162000 MWH	Electricity	324000 MW

2. Specific Conditions under Water Act :

- (i) The daily quantity of effluent discharge (KLD) :-

	Last CCA	Present CCA (Expand)
Trade Effluent	450	80
Sewage	12	3

- (ii) Trade Effluent Treatment and Disposal :- The applicant shall operate Effluent Treatment Plant consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

- (iii) The treated effluent shall be recycled to the maximum extent. Quality of the treated effluent shall meet to the following general and specific standards as prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

		Between	
1	pH		6.5 to 9.0
2	Suspended solids	Not to exceed	100mg/l
3	BOD (3 days 27 C)	Not to exceed	30 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	10 mg/l



(iv) Sewage Treatment and Disposal: The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality.

In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reuse in gardening etc. Quality of the treated effluent shall meet to the following standards :-

S.No.	Parameters	Standards
1	pH	6.5 to 9.0
2	BOD (mg/L)	Not more than 30
3	TSS (mg/L)	Not more than 100
4	Fecal Coliform (MPN/100ml)	Less than 1000

3. Conditions under Air Act :-

(i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as is required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards :

S. No	Stack attached with	Stack height (Mtr)	Type of Fuel	Fuel Quantity	Emission Control Equipment	Emission standards not to exceed
1	Heat Recovery Boiler 125TPH) x 2	40 each	Flue Gas		-	-
2	DG Set (1010KVA) x 2	15	HSD	2.0KLD	Acoustic Enclosure & Stack	-

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(ii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
	75	70	65	55	55	45	50	40

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

4. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016:-

(i) The Factory Manager of M/s Sravanthi Energy Pvt. Ltd., Kashipur, USNagar is hereby granted an authorization to operate a facility for collection and storage of Hazardous wastes.

(ii) The authorization is granted to operate a facility for generation, collection and storage of hazardous wastes within factory premises for following category of wastes :-

S.No.	Category (Schedule-I & Schedule-II)	Quantity of Waste for which authorization is being issued (MTA)	Mode of Disposal
1	Schedule I - 5.1	4.00	Recyclable
2	Schedule I - 35.3	10.00	Secure land fillable

(iii) The authorization shall be in force for the period upto 31.03.2023.



(iv) The authorization is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under Environment (Protection) Act, 1986.

Terms and conditions of authorization :-

- (i) The authorization shall comply with the provision, of the Environment (Protection) Act, 1986, and the rules made there under.
 - (ii) The authorization and its renewal shall be produced for inspection at the request of an officer authorized by the SPCB/PCC.
 - (iii) The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the SPCB/PCC.
 - (iv) Any unauthorized changes in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
 - (v) It is the duty of the authorized person to take prior permission of the SPCB/PCC to close down the facility.
 - (vi) An application for the renewal of an authorization shall be made as laid down under these rules.
 - (vii) The unit shall comply with any other conditions specified in the guidelines issued by the MoEF&CC or CPCB/SPCB from time to time.
5. This CCA is valid for the production of Electricity-324000 MW/Month using Natural Gas only.
 6. **Compulsory documents to be submitted by the Industry/Unit :-**
 - (i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Third Party Audit Report.
 - (ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986.
 - (iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.
 7. Unit has to apply for renewal of CCA well in advance of 60 days of expiry of this CCA.
 8. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.
 9. Unit has to comply with the other general conditions as annexed herewith. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will result in legal action under the aforesaid Acts and Rules.


Member Secretary

Copy to: Regional Officer, Uttarakhand Pollution Control Board, Kashipur, Distt- U.S.Nagar for information and compliance of the same.


Chief Environment Officer





Specific Conditions:

1. The applicant shall submit audited balance sheet of the unit at the end of each financial year so that fee submitted by the applicant could be assessed.
2. The applicant shall provide ports in the chimney/stack and facilities such as ladder, platform etc. as per requirement for monitoring the air emissions and the same shall be open for inspection and use at all times by the Board's staff. The chimney/stack attached to various sources of emission shall be designated by numbers such as S-1, S-2 etc. and these shall be painted/ displayed to facilitate identification.
3. The industry shall ensure interlocking of air pollution control devices and production processes.
4. Solid wastes generated from the industry has to be disposed in manner so that contamination of surface water bodies/ground water/soil etc. does not take place.
5. The industry shall take adequate measures to control of noise from its own source so as to comply with the standards as may be applicable.
6. The applicant shall develop three rows of green belt on the premises with plant species as suggested by the Central Pollution Control Board.
7. The industry shall strictly adhere with the specific and general conditions issued with CCA order. Any violation of stipulated conditions may attract legal action under the provisions of Water Act, Air Act and Environment (Protection) Act and Rules made thereunder.
8. The industry shall ensure all safety measures and shall undertake periodical assessment by the competent authority.
9. Unit shall ensure manifest system in Form-10 of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 while disposing hazardous waste.
10. Hazardous waste should not be stored beyond a period of 90 days.
11. The industry situated nearby the River Ganga and its tributaries shall ensure the treatment facilities and disposal arrangement in such a way so that no waste water is discharged in water stream or water bodies.
12. The unit shall strictly comply with the provisions of Water, Air & E (P) Acts and Rules/Notifications made there under.

General Conditions

1. The applicant shall get analyse the samples of effluent/emission/hazardous wastes at least once in a three months from the laboratory recognized by the MoEF&CC and shall report to the UKPCB.
2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If, at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof.
6. The industry shall provide uninterrupted entry to the STP's/ETP's inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control measures.
7. The industry shall provide "Inspection Book" at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be



- reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types' production capacity manufacturing process capacity enhancement etc. or any change in effluent discharge point or emission point.
 12. The Board reserves the right to revoke add modify any stipulated condition issued along with CCA, as may be necessary.
 13. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous waste without objection prior permission of the Board.
 14. Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
 15. It is the duty of the authorized person to take prior permission of the Board to close down the facility.
 16. The authorization is valid for temporary storage of Hazardous Waste within premises only.
 17. The authorized agency shall ensure that on-line data with regard to quantity and nature of hazardous chemicals being used in the plant as well as air emission and waste generated within premises is displayed on Display Board of size 6x4 feet outside the main factory gate within premises.
 18. It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
 19. The applicant shall maintain record of hazardous waste in Form-3 and shall submit annual return in Form-4 on or before the 30th day of June following to the financial year to which that return relates.
 20. In no case any hazardous waste shall be disposed off on land, in any drain, or into any water stream. All spillage must also be safely collected and stored.
 21. Before the hazardous waste is stored or dumped in the facility, applicant must conduct a detailed physical and chemical analysis of hazardous waste sample and report to the Board.
 22. Dried hazardous sludge from the process in the plant shall be stored in double lined HDPE pit constructed with R.C.C. or such material which does not react with the waste contained in it.
 23. The storage area should be fenced properly and Sign/Notice Board indicating 'Danger' and 'Hazardous' shall be displayed at appropriate position both in Hindi and English.
 24. The industry shall store non-ferrous metal waste, used oil/spent oil waste in sealed drums placed on impervious floor under covered shed. Hazardous waste if required shall be sold only to Registered Recyclers/Re-processors.
 25. In case of any transportation of hazardous waste, the details in Form-10 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 shall be submitted to the Board.

[Handwritten Signature]
 1274
 Chief Environment Officer



FORM 4

[See rules 6(5), 13(8), 16(6) and 20(2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

1. Name and address of the facility : **Sravanthi Energy Pvt. Ltd**
2×225 MW Combined Cycle Power Plant
Village – Khaikhera, Kashipur-244713
District – Udham Singh Nagar (Uttarakhand)

2. Authorization No. and Date of issue : **38431/1075 & 18.07.2018**

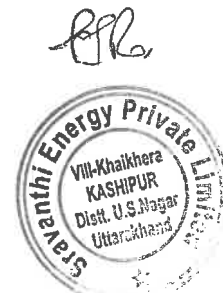
3. Name of the authorized person & full address with telephone, fax number and e-mail:
K. Tirumal Rao
Sravanthi Energy Pvt. Ltd
2×225 MW Combined Cycle Power Plant
Village – Khaikhera, Kashipur-244713
District – Udham Singh Nagar (Uttarakhand)
Telephone No. : **08057903030**
Fax No. : **05947-272757**
Email: **ktirumalrao@sravanthigroup.com**

4. Production during the year (product wise), wherever applicable
Electricity: 0 MWH

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise
Schedule I – 5.1 : 3.66 MT
Schedule I – 35.3 : 0.00 MT

2. Quantity dispatched :
 - (i) to disposal facility
 - (ii) to recycler or co-processors or pre-processor: **3.66 MT**
 - (iii) others



ENVIRONMENTAL STATEMENT REPORT

For The Year

2022-2023

Submitted to :

**Uttarakhand Environment Protection and
Pollution Control Board
(UEPPCB)**



"FORM - V"

ENVIRONMENTAL STATEMENT REPORT
For Year 2022-23

M/s Sravanthi Energy Pvt. Ltd.

PART - A

- (i) Name and address of the Owner/occupier : D. V. Rao
of the industry, operation or Process 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 : 22/06/2022

PART - B

Water and Raw Materials Consumption

(1) Water consumption m³/d.

Process	: 16.00m ³ /d
Cooling	: 82.83m ³ /d
Domestic	: 11.24m ³ /d

Name of products	Process Water consumption per unit of product output	
	During the previous financial year	During the current financial year
Electricity	0.00003940m³/KWH	0m³/KWH

(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
Natural Gas	Electricity	0.2162scm/KWH	0/KWH

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

[Handwritten Signature]



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 - 5.65 MT	Used Oil - 3.66 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.



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_x (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_x agent in enormous quantity to meet the pollution Norms, whereas Sravanthi Gas Turbines are with Dry Low NO_x technology use NIL such water or Superheated steam and also keeps the NO_x 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:

- Rainwater 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 5th June is celebrated every year by organizing various types of competitions to create awareness among employees along with massive plantations.
- STPs in operation for recovery and reuse of sewagewater also for Green Belt.

Remarks:

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





CATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MoEF RECOGNISED GOVT. APPROVED TEST HOUSE

Trusted Analytical & Research House

7.8F-01(B)

Certificate of Analysis

PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTRAKHAND

SAMPLE : AMBIENT AIR

Ref No. : SEPL-01/O&M/EHS/WO-9
15/2022 DATE-22/12/2022

DT Recd : 11-03-2023

REPORT NO. : CAV00072303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.
 Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTRAKHAND
 Location of the Sampling Point : Near GT3
 Date of Sampling : 09/03/2023 to 10/03/2023
 Sampling Started at : 2:50 pm dt. 09/03/2023
 Sampling Completed at : 2:50 pm dt. 10/03/2023
 Actual Time of Sampling (Minutes) : 1440.
 Total Volume of Air sampled (m3) : 1728 for PM 10 & 20.4 PM 2.5
 Flow Rate of SPM(M3/MIN) : 1.2
 Ambient Temperature (degree C) : 28

PARAMETERS	Results (µg/m3)	Limits (µg/m3) (Max.)	Protocols
Particulate Matter (PM 10)	: 81.6	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	: 47.4	60	Gravimetric
Sulphur Dioxide (as SO2)	: 22.2	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	: 0.104 mg/m3	2.0 mg/m3	IS:5182 (P-10)
Nitrogen Dioxide (as NO2)	: 38.6	80	IS:5182 (P-6)

Date of performance : 11/03/2023 to 15/03/2023



SAMPLE DRAWN BY US

DATE 15-03-2023

Analyst/ Auth. Signatory

Person In. / Auth. Signatory

(J.S.CHADHA)

Page 1 of 1 nk / Ky

- NOTE: 1. Results listed refer only to the tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
 2. Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.
 3. The Report shall not be reproduced either in full or part without the written approval of laboratory.
 4. Sample shall be disposed off after issue of Test Report unless specified.



CATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MOEF RECOGNISED GOVT. APPROVED TEST HOUSE

Trusted Analytical & Research House

Certificate of Analysis

7.8F-01(B)

PARTY CODE : S/UK/603

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-BERKHERA PANDEY)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/08/2022

REPORT NO. : CAV00032303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQs Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.

Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND

Location of the Sampling Point : Village Berkhera Pandey

Date of Sampling : 09/03/2023 to 10/03/2023

Sampling Started at : 10:00 am dt. 09/03/2023

Sampling Completed at : 10:00 am dt. 10/03/2023

Actual Time of Sampling (Minutes) : 1440

Total Volume of Air sampled (m3) : 1584

Flow Rate of SPM(M3/MIN) : 1.1

Ambient Temperature (degree C) : 28

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	72.4	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	56.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	20.2	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.112 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	40.2	80	IS:5182 (P-6)



Date of performance : 11/03/2023 to 16/03/2023

SAMPLE DRAWN BY US



CATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MoEF RECOGNISED GOVT. APPROVED TEST HOUSE

Trusted Analytical & Research House

7.8F-01(B)

Certificate of Analysis

PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-RAJPURA RANI)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/09/2022

REPORT NO. : CAV00042303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.
Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND
Location of the Sampling Point : Village Rajpura Rani
Date of Sampling : 09/03/2023 to 10/03/2023
Sampling Started at : 1:45 pm dt. 09/03/2023
Sampling Completed at : 1:45 pm dt. 10/03/2023
Actual Time of Sampling (Minutes) : 1440
Total Volume of Air sampled (m3) : 1872 for PM 10 & 20.4 PM 2.5
Flow Rate of SPM(M3/MIN) : 1.3
Ambient Temperature (degree C) : 29

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	: 89.2	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	: 50.4	60	Gravimetric
Sulphur Dioxide (as SO ₂)	: 22.6	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	: 0.120 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	: 38.6	80	IS:5182 (P-6)

Date of performance : 11/03/2023 to 16/03/2023



SAMPLE DRAWN BY US



GATTS LABS & RESEARCH PVT. LTD.



AN ISO 9001 - 2015 CERTIFIED MoEF RECOGNISED GOVT. APPROVED TEST HOUSE

Trusted Analytical & Research House

7.8F-01(B)

Certificate of Analysis

PARTY CODE : S/UK/003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE KANAKPUR)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
04/2022 DATE-09/08/2022

REPORT NO. : CAV00052303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.

Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND

Location of the Sampling Point : Village Kanakpur

Date of Sampling : 09/03/2023 to 10/03/2023

Sampling Started at : 11:00 am dt. 09/03/2023

Sampling Completed at : 11:00 am dt. 10/03/2023

Actual Time of Sampling (Minutes) : 1440

Total Volume of Air sampled (m3) : 1584 for PM 10 & 20.6 PM 2.5

Flow Rate of SPM(M3/MIN) : 1.1

Ambient Temperature (degree C) : 30

PARAMETERS	Results ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$) (Max.)	Protocols
Particulate Matter (PM 10)	77.2	100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	48.6	60	Gravimetric
Sulphur Dioxide (as SO ₂)	20.8	80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	0.110 mg/m ³	2.0 mg/m ³	IS:5182 (P-10)
Nitrogen Dioxide (as NO ₂)	34.4	80	IS:5182 (P-6)

Date of performance : 11/03/2023 to 16/03/2023

SAMPLE DRAWN BY US



DATE 16.03.2023

[Signature]
Analyst/ Auth. Signatory

[Signature]
Person in Charge/ Auth. Signatory



CATT'S LABS & RESEARCH PVT. LTD.



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Trusted Analytical & Research House

Certificate of Analysis

7.8F-04(B)

PARTY CODE : SJUKJ003

PARTY : SRAVANTHI ENERGY PVT LTD
225 MW GBCC PP, VILLAGE-KHAIKHERA, DARIYAL ROAD, UDHAM
SINGH NAGAR, KASHIPUR-244713, UTTARAKHAND

SAMPLE : AMBIENT AIR (VILLAGE-KATTAYA)

Ref No. : SEPL-01/O&G/EHS/WO-8 DT Recd : 10-03-2023
94/2022 DATE-09/08/2022

REPORT NO. : CAV00062303

RESULTS OF ANALYSIS

Reference : EP Act Standard/NAAQS Schedule VII rule-3 (3B)

Description : One Ambient Air sample was collected by us on 09/03/2023 to 10/03/2023.
Name of the Industry : SRAVANTHI ENERGY PVT LTD, UTTARAKHAND
Location of the Sampling Point : Village Kattaya
Date of Sampling : 09/03/2023 to 10/03/2023
Sampling Started at : 1:00 pm dt. 09/03/2023
Sampling Completed at : 1:00 pm dt. 10/03/2023
Actual Time of Sampling (Minutes) : 1440
Total Volume of Air sampled (m3) : 1728 for PM 10 & 21.2 PM 2.5
Flow Rate of SPM(M3/MIN) : 1.2
Ambient Temperature (degree C) : 29

PARAMETERS	Results	Limits	Protocols
Particulate Matter (PM 10)	(µg/m3) : 78.4	(µg/m3) (Max.) : 100	IS:5182 (P-23)
Particulate Matter (as PM 2.5)	: 52.4	: 60	Gravimetric
Sulphur Dioxide (as SO2)	: 24.2	: 80	IS:5182 (P-2)
Carbon Monoxide (as CO) (8 Hr.)	: 0.102 mg/m3	: 2.0 mg/m3	IS:5182 (P-10)
Nitrogen Dioxide (as NO2)	: 44.8	: 80	IS:5182 (P-8)



Date of performance : 11/03/2023 to 16/03/2023

SAMPLE DRAWN BY US