



VISAKA INDUSTRIES LIMITED[®]

Factory Off : Plot No. 2006, 1994, Khata No. 450, At - Parmanpur, P.s - Sason, Dist. Sambalpur - 768200 (Ph. : 7504990284)

To,

Date: - 10 / 12 / 2021

The Director,

Ministry of Environment & Forests,

A / 3 Chandrasekharpur,

Bhubaneswar - 751023.

Sub: - Compliance Report for the period April-2021 to September-2021

Dear Sir,

We are attaching herewith the Compliance Report with all relevant data and annexures for the period as mentioned above for the compliances of all the requirements.

This is for your kind information.

Thanking You.

Yours Faithfully,

For VISAKA INDUSTRIES LIMITED



Mr. SREENIVASA RAO PAGOLU
(AUTHORISED SIGNATORY)

Corporate Office	: "VISAKA TOWER" 1-8-303/69/3, S.P. Road, Secunderabad - 500 003, Phone: +91 40-27813833 / 35, 27892190/91/92, Fax: 040-27891833
Factory : (A.C. Division I)	: Survey No. 315 Yelumala Village R. C. Puram Mandal, Patanchuru, Medak District - 502300 (A.P)
Factory : (A.C. Division II)	: Survey No. 170/1 Manikantham Village, Paramathi - Velur taluq, Namakkal Dist - 637207 (Tamilnadu)
Factory : (A.C. Division III)	: 70/3A, 70/3, Sahajpur Industrial Area, Nandur (Village), Daund (Taluka) Pune District - 412202, (Maharashtra)
Factory : (A.C. Division IV)	: Changsol Mouza, Bankibundh, G.P. No. 4, Salboni, Midnapore West 721101 (W.B.)
Factory : (A.C. Division V)	: No. 27/1, G. Nagenhalli Village, Korahobli, Tumkur - 572138, (Karnataka)
Factory : (A.C. Division VI)	: Kannawan, P.S. Bacharawan, Tashil Maharaj ganj, Raibareli District - 229301 (U.P.)
Factory : (A.C. Division VII)	: Survey No. 385, 386, Jujjur Village, Veerullapadu mandal, Near Kanchika cheria, Krishan District - 521181 (A.P.)
Factory : (Textile Division)	: Survey No. 179, 180, Chiruva Village, Mouda Taluk, Nagpur District - 440104 (Maharashtra)
Factory : (V-Borad Division I)	: Survey No. 95 & 96 Gajalapurna Village, Pedadevillapally Mandal, Tripuram, Nalgonda District - 527217 (A.P)
Factory : (V-Borad Division II)	: Gate No 262 to 269 Delwadi Village Daund Taluq Pune District - 412214 (Maharashtra)

COMPLIANCE STATUS OF MOEF CONDITIONS

(From Apr' 21 to Sep' 21)

Letter No J-11011/480/2009-1A11(1)

CONDITIONS	COMPLIANCE STATUS
A Specific Conditions	
1. The project proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fiber and cement shall be transported in closed containers. Asbestos fiber shall be brought in palletized form, in impermeable bags and under compressed condition.	We strictly adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fiber and cement are always transported in closed containers. Asbestos fibers are always brought in palletized form, in impermeable bags and under compressed condition.
2. Only Chrysotile white asbestos fibre shall be used. Blue asbestos shall not be utilized as raw materials in the manufacturing process.	We confirm that we are using only Chrysotile white asbestos fibre. We stand committed to our policy decision of not using Blue asbestos as one of the raw materials.
3. There shall be no manual handling / opening of asbestos fibre bags. The company shall install fully automatic asbestos fibre debagging system before commissioning the unit.	We assure you that we are not handling/opening asbestos fiber bags manually. Bag opening is being done through fully automatic debagging system installed before the commissioning of plant.
4. Fugitive emission shall be controlled by bringing Cement in closed tankers, fly ash in covered trucks and asbestos in impervious bags opening inside a closed mixer. Dust collectors shall be provided to fibre mill, Bag opening devices (BOD), Cement and Fly ash silos to control emissions. Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder, fibre mill and to cement silo to collect the dust and recycle it into the process. Fugitive emissions generated from hopper of jaw crusher and pulverizer shall be channelized	All the emissions are being controlled by bringing the dry fly ash & Cement in covered trucks (Bulkers) & asbestos fibre in impervious bags in palletized conditions & opening of the bags is being done in the closed chamber i.e. Bag Opening Device. For further control, Bag-filter type dust collector has been provided to asbestos fibre – tapped on to the E R Mill & BOD followed by hydrostatic precipitator & air wet washer. Second & third B/F type dust collectors are connected to Cement and Fly ash feeding. The dust from the rotary valve of fibre dust collector is collected in water filled

through hood with proper suction arrangement, bag filter and stack.	container & recycled back to process. In case of cement & fly ash it is collected in closed bags & recycled.
5. The company shall comply with total dust emission limit of 2 mg/nm ³ as notified under the Environment Protection Act. 1986. Adequate measures should be adopted to control the process emission and ensure that the stack emission of asbestos fiber shall not exceed the emission limit of 0.2 fibre/cc. Asbestos fibre in work zone environment shall be maintained within 0.1 fibre/cc.	Our emission levels are well below the limits, prescribed by the MOEF in respect of total dust from Fibre stack (max 2 mg/NM ³), Fiber count in stack emission is not exceeding 0.2 fibre/cc & work zone fiber count not exceeding 0.1fibre/cc. For this we have installed Bag Filter Type Dust collector in combination with hydrostatic precipitator & air wet washer, attached to the Fiber Mill and Bag Opening Device combined. Adequate care has been taken to ensure that the fiber count results in work zone are within the prescribed limit. A monitoring report is enclosed. (Annexure 1)

6. Bag containing asbestos fiber shall be stored in enclosed area to avoid fugitive emission of asbestos fiber from damaged bags if any.	Bag containing asbestos fiber are stored in closed fiber go-down to avoid fugitive emission of asbestos fiber from damaged bags. Damaged bags are sealed immediately on notice.
7. Proper house keeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better house keeping practice shall be adopted for improvement of the environment within the work environment also. These Includes: a. All monitoring transfer points shall be connected to dust extraction system b. Leakages or dust from machines and ducts shall be plugged. c. Floor shall be cleaned by vacuum cleaner only. d. Enclosed belt conveyor shall be used instead of manual transportation of asbestos within the premises.	We are always maintaining a neat & clean environmentally friendly work zone. A good housekeeping practice is adopted by maintaining the following points. (a) All the transfer points involving dry asbestos, cement and fly ash have been connected to the Dust Extraction system. (b) Leakages in the machines have been plugged. (c) The floor of RM section is being cleaned by using vacuum cleaner only and collection is recycled in process. (d) The asbestos fibre bags are transported to our plant in closed containers and are always brought in Palletized form, in Impervious bags and packed under compressed conditions and are stored in fibre go-down. These Palletized bags are transferred to BOD

	<p>area by Forklift in as it is condition, thus avoiding manual handling. Covered Slant conveyors are used to convey the fibre bags into the automatic Bag Opening Device (BOD). We also confirm that the Process machineries, exhaust, and ventilation systems have been laid in accordance with Factories Act.</p>
<p>8. Quarterly monitoring of pollutant (PM10, asbestos fibre count) in the work zone area and stack(s) shall be undertaken by the project proponents. In addition, the asbestos fiber count in the work zone area shall be monitored by an independent monitoring agency like NIOH/ ITRC/ NCB or any other approved agency and reports submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.</p>	<p>An environmental laboratory is already available at the site which monitors the required parameters. We regularly take periodical air samples for work zone monitoring by using personal air sampler and get it analyzed at our central lab. (Annexure-2) apart from PM10 at ambient locations by using High vol. sampler. Periodically the asbestos fiber count in the work zone area gets sampled & counted by M/S ENVOMIN Consultant (Pvt.) Ltd. who are Accredited Laboratory by MoEF & OSPCB, Odisha. We are enclosing the copies of the latest test results. (Annexure-1)</p>
<p>9. Total water requirement from ground water shall not exceed 240 m3/day and prior permission for the drawl of water from competent authority shall be obtained and all their recommendations shall be implemented in time bound manner.</p>	<p>We ensure that our daily requirement of water will not exceed 240 m3/day. We have authorization for drawl of ground water valid up to year 2022. We are paying water consumption charges to Sambalpur Irrigation division on demand notice every month.</p>
<p>10. As reflected in the EMP, all the treated effluent shall be recycled and reused in the manufacturing process. No process water shall be discharged outside the premises and "zero" discharge shall be maintained. All the domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development.</p>	<p>There are no discharges of process effluent. The entire process effluent is recycled and reused in the manufacturing process. The domestic waste water is used for green belt development after treatment through Septic tank followed by Soak pit(Annexure – 3)</p>
<p>11. The company shall ensure that the entire solid waste generated including process rejects Cement, Fly ash, dust from bag filters and empty asbestos bags shall be recycled back</p>	<p>We confirm that the entire solid waste generated including process rejects, dust from bag filters and empty asbestos bags are recycled in the manufacturing process.</p>

<p>in the manufacturing process. Process sludge shall be 100% recycled and reused in the process, Hazardous waste shall be ground in dust proof pulverizer with integrated bag filter and recycled back to the process. Asbestos fibres which cannot be further recycled due to contamination of Iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.</p>	<p>We further confirm that the entire process sludge is being recycled back in process, the broken sheet pieces are ground in slurry form in the wet ball mill & recycled back to process (Annexure – 4).</p>
<p>12. The cut and damaged fiber bags shall immediately be repaired. Empty fibre bags will be shredded into the fine particles in a bag shredder and recycled into the process. Filling of AC sheets shall be done in wet condition only.</p>	<p>The cut and damaged fiber bags are immediately repaired. Empty fibre bags are shredded in closed bag shredder into fine particles & recycled into the process. Filling of AC sheets are done in wet condition only.</p>
<p>13. The company shall obtain a certificate from the supplier of Chrysotile fibre that it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Env. And Forests.</p>	<p>We are enclosing copy of test certificates of regular used fibers from our suppliers such as Konimpex for your ready reference. (Annexure-5).</p>
<p>14. Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out the medical surveillance. Occupational health of all the workers shall be monitored for Lung function test , Chest X-ray ,Sputum for acid – fast-bacilli(AFC) and Asbestos body(AB) ,urine for sugar and albumen, bloat test for TLC ,DLC, ESR, Hb and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment</p>	<p>We have provided medical and health care facilities at the workplace and if any case of asbestosis is detected, necessary compensation will be arranged under the existing laws. A competent occupational health physician has been appointed to carry out medical surveillance. The occupational health monitoring is being done as stipulated(Annexure – 6) Records of all medical checkup as advised will be maintained for at least 40 years from the beginning of employment or 15 years after retirement or cessation of employment whichever is later. We assure you that Occupational Health Surveillance will be carried out as per the directives of the Honorable</p>

whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Honorable Supreme Court.	Supreme Court.
15. To educate the workers all the workplace where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazards and the associated health effects.	We have clearly indicated dust exposure area through the use of display signs which identifies the hazards and the associated health effects in all the workplaces where asbestos dust is handled.
16. The company shall also undertake rain water harvesting measures and plan of action shall be submitted to MOEF within 3 months.	Rainwater harvesting measures are undertaken through 4 nos. of harvesting pits of size 30M X 20M X 3M. In addition to that, we have constructed 5 nos. rain water harvesting structures with the help of 'Varsha Jal' group, copy is attached for your ready reference(Annexure-7).
17. All the commitments made to the public during Public Hearing /Public Consultation meeting held on 12 th May 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry Regional Office at Bhubaneswar	We confirm that all the commitments made to the public during Public Hearing will be completely implemented. A separate budget has been allocated for implementing the same (Annexure – 8)
18. Green belt shall be developed in at least 33% of plant area as per the CPCB guidelines in consultation with the DFO.	We have reserved 33% of total land area for green belt development. So far we have planted 8222 plants of different varieties like –Sishu, Kamari, Kadamba, Krusna Chura etc. including 600 fruit bearing trees like Mango, Coconut, Litchi, Sapeta, Lemon etc. Also in this year we have planted 570 nos trees.(Annexure – 9)
19. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with the time bound action plan should be prepared and submitted to the Ministry Regional Office at Bhubaneswar. Implementation of	We have reserved 5% of the total project cost for corporate, social responsibilities. Out of which a portion have already been utilized on various activities like facilitating water supply to Dr. Jhasketan Sahu college which was their dream for the last 34 years & also 10 nos ceiling fan facilities to

such program should be ensured accordingly in a time bound manner.	Brahmakumari Ashram at Padhanpali. Further activities that has been initiated will be intimated to your office after implementation. On 25 th Dec'2013 we were awarded ' ODISHA GOURAV ' for the most valuable contribution towards the peripheral development in villages as part of CSR & environmentally friendly activities. Copy submitted earlier.
20. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Construction period is over. No construction laborers are staying inside plant premises. Temporary shelters that has been erected for construction labors have been removed.
B. General Conditions.	
1. The project authorities must strictly adhere to the stipulation made by OPCB and the state government.	We are strictly adhering to the stipulation made by OPCB and state government.
2. No further expansion or modifications in the plant shall be carried without prior approval of the MOEF.	We will not carry out any further expansion/modifications in the plant without prior approval of the MOEF.
3. The gaseous emission from various process units shall conform to the load/mass-based standards notified by this ministry on 19 th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	As such there is no process emission as no chemicals, furnace or boiler is used. The emissions (SPM) from various stacks connected to the dust collectors at RM feeding section are within the standard limits. The results of the latest monitoring done are enclosed. (Annexure-10)
4. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2, and NOx are anticipated in consultation with the SPCB. Data on ambient air	We have constructed four no's of Ambient stations permanently at four opposite sides of the plant premises in consultation with SPCB where maximum ground level concentration of PM10, SO2, and NOx are anticipated. Data of ambient air quality

quality and stack emission shall be regularly submitted to this ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	has been recently analyzed by ENVOMIN Consultant (Pvt.) Ltd Laboratory and the results were found satisfactory. The test results enclosed (Annexure – 11).
5. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	The Industrial wastewater is recycled back to process, and no water is let out.
6. The overall noise level in and around the plant area shall be kept well within the standard (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules. 1989 viz. 75 dBA (daytime) and 70 dBA(nighttime)	We confirm that we have provided all necessary control like acoustic enclosures & silencers to keep the noise generation level within the standard limit prescribed.
7. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being monitored at regular intervals & records are being maintained as per criteria, we have also provided medical & health care facilities at the workplace. The list of member's undergone test recently along with a reference test report submitted earlier.
8. The company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	Rainwater harvesting pit (4 nos.) Have already been constructed, so that the stored water can be utilized in the lean season.
9. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the company must undertake socio-economic development activities	We will comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. We have already started to undertake the socio-economic development activities in the

in the surrounding villages like community development programme, educational programme, drinking water supply and health care etc.	surrounding villages. We sponsored a football tournament," Visaka Cup" at nearby Nuamunda village in Jan'2021 also in evry year & our financial & wholehearted moral support to local festival 'Dhanu Yatra' are other activities undertaken as part of community participation.
10. Requisite amount shall be earmarked towards capital cost and recurring cost/annum for env pollution control measures to implement the conditions stipulated by the MOEF as well as the state govt. An implementation schedule for implementing all the conditions stipulated here in shall be submitted to the Regional office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	We have provided/reserved adequate funds of Rs 5.0 lacs & Rs. 50 lacs both recurring and non-recurring cost to implement the conditions stipulated by MOEF as well as state government. The funds so provided is not being diverted for any other purposes. Also, we have paid Rs. 2.02760 lacs towards environmental sampling & testing cost of third-party environmental monitoring FY 2020-21. Also in this current year 2021-22 we have paid 2.05 lacs towards environmental sampling & testing cost of third-party environmental monitoring
11. A copy of clearance letter shall be sent by the proponent to concern Panchayat, Zila parishad / Municipal Corporation Urban local body and the local NGO, if any, from whom suggestions/representations, if any. were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	A copy of clearance letter has been submitted to the concerned government offices & the clearance letter has also being put on the website of company.
12.The project proponent shall upload the status of compliance of the stipulated env clearance conditions, including results of monitored data on their web site and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF at Bhubaneswar. The respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely PM10, SO2 and NOx. (ambient level as well as stack emissions) or critical sectoral	We are committed to upload the status of compliance of all stipulated environmental clearance conditions & monitoring data to our website. We have made provisions to display the ambient air & stack monitoring data at the display board fixed near company main gate.

parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
13. The environmental 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 SPCB as prescribed under the env. (protection) rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions & shall also be sent to the respective regional office of the MOEF at Bhubaneswar by e-mail.	We are committed to submit the environmental statement for each financial year ending 31 st March in Form-V to SPCB & MOEF with all the monitoring data of stack & ambient air & also upload the same at company website.
14. Project authority shall inform the regional office as well as the ministry, the date of financial closure & final approval of the project by the concerned authorities & the date of commencing the land development work.	We have informed the regional office & also the ministry, the date of financial closure, final approval of the project & the date of commencement of the land development work.



ENVOMIN Consultant (Pvt.) Ltd.

(A Consultancy House for Mine Planning, Forest Proposal and Environmental Engineering)

MoEF & OSPCB Accredited Laboratory

TEST REPORT

REPORT NO/ULR NO.
 NAME & ADDRESS OF CLIENT/AGENCY
 NAME OF PROJECT/WORK
 REFERENCE NO.
 TYPE OF SAMPLE
 SAMPLE COLLECTED BY
 CONDITION OF SAMPLE
 TYPE OF TEST
 DATE OF SAMPLE RECEIVED
 DATE OF TEST COMMENCEMENT
 DATE OF COMPLETION
 TEST METHOD

: EMC/TD/21-22/10
 DT-15.09.2021
 : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 : --
 : S.O. No.12727 Dt- 23.09.2021
 : Fibre Dust Sampling Report
 : ECPL Representative in presence of client's Representative
 : Sealed
 : Physical
 : 08.09.2021
 : 08.09.2021
 : 09.09.2021
 : Gravimetric Method

A. General Information about Stack

Stack attached to : Edge Running Mill & Automatic Bag opening device
 process activity
 Shape of stack : Circular
 Material of Construction : M.S
 Stack sampling point : 5 meter from GL
 Stack height : 15 meter from GL
 Whether stack is provided with permanent : Yes
 Platform /ladder

B. Physical Data

Flue gas Temperature (°C) : 38°C
 Barometric Pressure (mmHg) : 758
 Velocity of Gas flow (m/s) : 6.8
 Quantity of Gas flow (Nm³/hr) : 3268.3

Sample Specification: Sample ID. No.

Locations

EMC/Lab/TD-1 -

Edge Running Mill & Automatic Bag opening device
process activity

Sl. No.	Parameter to be Tested	Unit	Results	Test Protocol	CPCB Industry Specific Standard for emissions
			EMC/Lab/TD-1		
1	Total Dust (DF)	(mg/m ³)	1.68	IS:11255(Pt-1) 1985	2 mg/m ³

PREPARED BY
 Pranab Mohanty

(Asst. Quality Manager)

AUTHORIZED SIGNATORY
 Sanghamitra Das

(Tech. Manager)



1. THIS TEST REPORT IS BASED ON THE SAMPLE RECEIVED BY OUR LABORATORY.
2. THE TEST RESULT RELATES ONLY TO THE ITEM TESTED.
3. THE REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF THE TESTING LABORATORY
4. THE SAMPLE WILL BE RETAINED IN OUR LABORATORY FOR SEVEN DAYS AFTER DATE OF TEST COMPLETION.

-END OF REPORT-

(Page 1 of 1)



JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

TC : June 2021 - Stack : DS : I - ERM - AFC

16.07.2021

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

FIBRE D E STACK

Project : M/s. VISAKA INDUSTRIES LTD,
Plot No.1994(P) 2006, Khata No.450, Chaka No.727,
Village-Parmanpur, P.S-Sason, Tahsil:Maneswar, Dist.Sambalpur, Pin-768200,
ODISHA

Sampler used : Envirotech VSS1 **Analyzed under** : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Flow rate : 10 LPM **Specifications** : As per A 1 A - R T M 1
IS:11450 & ISO:10397
Membrane Filter Method

Sampling Duration : 10 minutes

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
AS PER MoEF & PCB = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
28.06.2021	Fibre D E Stack connected to BOD - Edge Running Mill	Dust Collector in operation. Wet Scrubber attached to Dust Collector and Stack.	0.014	---

For JR LABS

Research Fibre Analyst

B-305 & 309, Vasudha Apartments,
Quthubullapur Road, New Jeedimetla,
HYDERABAD - 500 067,
TELANGANA, INDIA.



AN ISO 9001 : 2008 CERTIFIED LAB

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(A Consultancy House for Mine Planning, Forest Proposal and Environmental Engineering)

MoEF & OSPCB Accredited Laboratory

TEST REPORT

REPORT NO/ULR NO. : EMC/ST/21-22/08(i) DT-15.09.2021
NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
NAME OF PROJECT/WORK : --
REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
TYPE OF SAMPLE : Stack Monitoring Report
SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
CONDITION OF SAMPLE : Sealed
TYPE OF TEST : Physical & Chemical Parameters
DATE OF SAMPLE RECEIVED : 08.09.2021
DATE OF TEST COMMENCEMENT : 08.09.2021
DATE OF COMPLETION : 09.09.2021

Sample Specification: Sample ID. No.
EMC/Lab/ST-1

Locations

- Fiber DE Stack connected to Edge Running Mill & BOD

Sl. No.	Parameter to be Tested	Results	Unit	Test Protocol	Remarks
1.	Dust Concentration (DE Stack)	<0.1 0.036	Fiber/cc	IS 11450:2006	--

PREPARED BY
Pranab Mohanty

(Asst. Quality Manager)



AUTHORIZED SIGNATORY
Sanghamitra Das

(Tech. Manager)

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-END OF REPORT-

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TEST REPORT

REPORT NO/ULR NO. : EMC/AAQ/21-22/04 DT-15.09.21
 NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 NAME OF PROJECT/WORK : --
 REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
 TYPE OF SAMPLE : Ambient Air Quality (AAQ)
 SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
 CONDITION OF SAMPLE : Sealed
 TYPE OF TEST : Physical & Chemical Parameters
 DATE OF SAMPLE RECEIVED : 08.09.2021
 DATE OF TEST COMMENCEMENT : 08.09.2021
 DATE OF COMPLETION : 09.09.2021

Sample Specification: Sample ID. No. Locations
 EMC/Lab/AAQ-1 - Near Main Gate
 EMC/Lab/AAQ-2 - Despatch Area
 EMC/Lab/AAQ-3 - Near Fibre Godown
 EMC/Lab/AAQ-4 - Near Guest House

Sl. No.	Parameter to be Tested	Unit	Test Method	Results				NAAQ standards CPCB, 18 th Nov, 2009
				EMC/Lab/20	EMC/Lab/21	EMC/Lab/22	EMC/Lab/23	
1.	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	IS 5182 (Part 23): 2006	47.8	56.74	45.21	42.12	100 (Gravimetric)
2.	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	IS 5182 (Part 24): 2019	30.6	35.21	26.34	23.46	60 (Gravimetric)
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS 5182 (Part 2): 2001	8.32	10.86	7.32	7.82	80 (Improved West and Gaeke)
4.	Oxides of Nitrogen as NO _x	µg/m ³	IS 5182 Part-6: 2017	15.34	18.24	13.64	17.23	80 (Modified Jacob & Hochheiser (Na Arsenite))

PREPARED BY
 Pranab Mohanty
 (Asst. Quality Manager)



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 (Tech. Manager)

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JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

16.07.2021

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. VISAKA INDUSTRIES LTD,
Plot No.1994(P) 2006, Khata No.450, Chaka No.727,
Village-Parmanpur, P.S-Sason, Tahsil:Maneswar, Dist.Sambalpur, Pin-768200, ODISHA.

Sampler used : Samples collected by J R Labs
using Envirotech:APM 800 - VII,
S K C : Side Kick 51 Ex &
Casella:T13180 - II

Analyzed under : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Flow rate : 1.0 L P M

Sampling Duration : 60 minutes each

Specifications : As per A I A - R T M I
& IS : 11450 - Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
1	28.06.2021	<u>Static</u> Fibre Godown	Fibre bags are stored properly. Torn bags are sealed. Only two grades of Fibre bags are stored in the Fibre Godown. Wet mopping done.	< 0.1 (0.024)	---
2	28.06.2021	<u>Personal</u> Edge Running Mill - B O D	The worker carrying the Sampler was feeding fibre bags through the Slant Conveyor. Dust Collector in operation.	< 0.1 (0.096)	---
3	28.06.2021	<u>Personal</u> Cutter Off - S F Drum	The worker carrying the Sampler was cutting the Sheets at green stage on main Machine along with another worker.	< 0.1 (0.092)	---

For J R LABS

Research Fibre Analyst

B-305 & 309, Vasudha Apartments,
Quthubullapur Road, New Jeedimetla,
HYDERABAD - 500 067,
TELANGANA, INDIA.



AN ISO 9001 : 2008 CERTIFIED LAB

☎ : 040-42300546, 27230750, 27230966

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JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

16.07.2021

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. VISAKA INDUSTRIES LTD,
Plot No.1994(P) 2006,Khata No.450,Chaka No.727,
Village-Parmanpur,P.S-Sason, Tahsil:Maneswar,Dist.Sambalpur, Pin-768200, ODISHA.

Sampler used : Samples collected by J R Labs
using S K C:224-PCXR8:II &
Casella:AFC 123

Flow rate : 1.0 L P M

Sampling Duration : 60 minutes each

Analyzed under : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Specifications : As per A I A - R T M 1
& IS : 11450 - Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
4	28.06.2021	<u>Personal</u> Salvaging Section	The worker carrying the Sampler was reclaiming the Sheets along with other workers. F C C rejected Sheets were getting reclaimed. Wet process.	< 0.1 (0.032)	---
5	28.06.2021	<u>Personal</u> Ball Mill	The worker carrying the Sampler was engaged in operation of Ball Mill including feeding of broken F C C Sheets. Wet process.	< 0.1 (0.056)	---

For J R LABS

Research Fibre Analyst

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16.07.2021

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. VISAKA INDUSTRIES LTD,
Plot No.1994(P) 2006,Khata No.450,Chaka No.727,
Village-Parmanpur,P.S-Sason, Tahsil:Maneswar,Dist.Sambalpur, Pin-768200, ODISHA.

Sampler used : Samples collected by J R Labs **Analyzed under** : Olympus make, Japan,
using Envirotech:APM 800 – VIII & B X 40 Phase Contrast
Envirotech:APM 800 – IV Microscope

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each IS : 11450 - Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
6	28.06.2021	<u>Personal</u> Fork Lift Operator	The Fork Lift Operator carrying the Sampler was engaged in shifting of Sheets from Stock Yard to Sheet Loading Platform during the period of sampling.	< 0.1 (0.060)	---
7	28.06.2021	<u>Personal</u> Q C Lab Assistant	The Q C Lab Assistant carrying the Sampler was engaged in different Lab activities during the period of sampling.	< 0.1 (0.064)	---

For J R LABS

Research Fibre Analyst

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16.07.2021

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. VISAKA INDUSTRIES LTD,
Plot No.1994(P) 2006,Khata No.450,Chaka No.727,
Village-Parmanpur,P.S-Sason, Tahsil:Maneswar,Dist.Sambalpur, Pin-768200, ODISHA.

Sampler used : Samples collected by J R Labs **Analyzed under :** Olympus make, Japan,
using Spectro : SLE-PS-154:III, B X 40 Phase Contrast
Spectro : SLE-PS-154:II Microscope

Flow rate : 1.0 L P M

Specifications : As per A I A - R T M 1
& IS : 11450 - Membrane
Filter Method

Sampling Duration : 60 minutes each

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
8	28.06.2021	<u>Static</u> Ambient Air: Stock Yard - Sheet Loading Area	The Static sample is collected from Stock Yard- Sheet Loading Area during loading of different sizes of F C C Sheets into the Truck.	< 0.1 (0.056)	---
9	28.06.2021	<u>Static</u> Ambient Air: Near Main Gate	The Static sample is collected from near the Main Gate. Plant was in operation.	< 0.1 (0.040)	---

For J R LABS

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ENVOMIN Consultant (Pvt.) Ltd.

(A Consultancy House for Mine Planning, Forest Proposal and Environmental Engineering)

MoEF & OSPCB Accredited Laboratory

TEST REPORT

REPORT NO/ULR NO. : EMC/PS/21-22/07 DT-15.09.2021
 NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 NAME OF PROJECT/WORK : --
 REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
 TYPE OF SAMPLE : Personal Dust Sampling Report
 SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
 CONDITION OF SAMPLE : Sealed
 TYPE OF TEST : Physical
 DATE OF SAMPLE RECEIVED : 08.09.2021
 DATE OF TEST COMMENCEMENT : 08.09.2021
 DATE OF COMPLETION : 09.09.2021

Sl. No.	Date of Sampling	Sampling Point	Sampling Condition	Dust Concentration
1	07.09.2021	EMC/Lab/PS-1 (Personal) Salvaging Area	Mr. Kishor Nag was carrying the sampler at the time of working in the Salvaging Area	<0.1 0.058
2		EMC/Lab/PS-2 (Personal) Ball Mill section	Mr. Mokunda Chhatar was carrying the sampler when engaged in operation of Ball Mill including feeding of broken AC sheets	<0.1 0.064
3		EMC/Lab/PS-3 (Personal) Edge Running Mill-BOD	Mr. R. Pradhan was carrying the sampler when feeding fiber bags through the belt conveyor. Dust collection in operation. Wet mopping done,	<0.1 0.072
4		EMC/Lab/PS-4 (Static) Sheet Loading Area/Dispatch	The static sample was collected at Sheet loading Area/ Dispatch area during loading of different size of AC sheets into the Truck.	<0.1 0.061
5		EMC/Lab/PS-5 (Static) Fibre Go down	Fiber bags are stored properly. Torn bags are sealed.	<0.1 0.067

PREPARED BY
Pranab Mohanty

(Asst. Quality Manager)



AUTHORIZED SIGNATORY
Sanghamitra Das

(Tech. Manager)

1. THIS TEST REPORT IS BASED ON THE SAMPLE RECEIVED BY OUR LABORATORY.
2. THE TEST RESULT RELATES ONLY TO THE ITEM TESTED.
3. THE REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF THE TESTING LABORATORY
4. THE SAMPLE WILL BE RETAINED IN OUR LABORATORY FOR SEVEN DAYS AFTER DATE OF TEST COMPLETION.

-END OF REPORT-

(Page 1 of 1)



(Annexure - 2)

VISAKA INDUSTRIES LIMITED[®]

CIN: L52520TG1981PLC003072

FACTORY: MANIKANATHAM-VILLAGE, PARAMATHI-POST, NAMAKKAL-DISTRICT, TAMIL NADU - 637 207
TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE, Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS SEPTEMBER - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED, Parmanpore-Village, Sason-Post, Sambalpore-D.T, Odissa-State-768200. Analyzer Under : Carl Zeiss Make, Axioskop 40, Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
PERSONAL SAMPLING					
1	25-09-2021	527-2021-9-10-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.057
2	25-09-2021	528-2021-9-10-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.016
3	25-09-2021	529-2021-10-10-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.033
4	25-09-2021	530-2021-9-10-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.074

21-OCTOBER-2021
PARAMATHI - T.N

T. MURUGANANDHAM - SR. OFFICER (EHS)
ASBESTOS FIBRE COUNTING ANALYST



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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS SEPTEMBER - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED, Parmanpore-Village, Sason-Post, Sambalpore-D.T, Odissa-State-768200. Analyzer Under : Carl Zeiss Make, Axioskop 40, Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1


Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>STATIC SAMPLING</u>					
1	25-09-2021	531-2021-9-10-8	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.061
2	25-09-2021	532-2021-9-10-10	Main Machine	The static sample is collected from Main Machine area. The plant was in production of Fibre cement sheets.	< 0.1 0.025

21-OCTOBER-2021
PARAMATHI - T.N


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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS **AUGUST - 2021**

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpur-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
PERSONAL SAMPLING					
1	22-08-2021	461-2021-8-10-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.074
2	22-08-2021	462-2021-8-10-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.041
3	23-08-2021	463-2021-8-10-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.025
4	22-08-2021	464-2021-8-10-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.090
5	22-08-2021	465-2021-8-10-6	Fibre Bags Carrying Forklift Operator	The worker carrying the sampler was engaged in Fibre Bags Carrying fibre godown area during the sampling. He was using PPE's.	< 0.1 0.012

11-SEPTEMBER-2021
PARAMATHI - T.N

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Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS
AUGUST - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>STATIC SAMPLING</u>					
1	22-08-2021	466-2021-8-10-8	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.033
2	23-08-2021	467-2021-8-10-10	Main Machine	The static sample is collected from Main Machine area. The plant was in production of Fibre cement sheets.	< 0.1 0.016

11-SEPTEMBER-2021
PARAMATHI - T.N

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ASBESTOS FIBRE COUNTING CELL

Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE, Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS **JULY - 2021**

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Kannawan-Village, Bacharawan-Post,
Raebareli-D.T, U.P-State-229301.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) **As PER MoEFCC & PCB = < 0.1 fibre/cc of air.**

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>PERSONAL SAMPLING</u>					
1	03-07-2021	399-2021-7-7-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.057
2	03-07-2021	400-2021-7-7-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.049
3	04-07-2021	401-2021-7-7-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.041
4	04-07-2021	402-2021-7-7-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.033
5	04-07-2021	403-2021-7-7-5	Fibre Testing Personnel	The Fibre testing personnel carrying the sampler was engaged in lab activities during the period of fibre sampling. He was using PPE's.	< 0.1 0.016
6	05-07-2021	404-2021-7-7-6	Fibre Bags Carrying Forklift Operator	The worker carrying the sampler was engaged in Fibre Bags Carrying fibre godown area during the sampling. He was using PPE's.	< 0.1 0.012

T. MURUGANANDHAM - SR. OFFICER (EHS)
ASBESTOS FIBRE COUNTING ANALYST

31-JULY-2021
PARAMATHI - T.N

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JULY - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
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Raebareli-D.T, U.P-State-229301.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per A I A - R T M 1


Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>STATIC SAMPLING</u>					
1	05-07-2021	405-2021-7-7-9	Process Waste Storage	The static sample is collected from Process Waste Storage area. The plant was in production of Fibre cement sheets.	< 0.1 0.065
2	05-07-2021	406-2021-7-7-10	Main Machine	The static sample is collected from Main Machine area. The plant was in production of Fibre cement sheets.	< 0.1 0.016
3	06-07-2021	407-2021-7-7-11	Loading Platform	The static sample is collected from Loading Section. The plant was in production of Fibre cement sheets.	< 0.1 0.033
4	06-07-2021	408-2021-7-7-8	Fibre Godown	The static sample is collected and different grades of palletized fibre bags are stored in Fibre Godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.049

31-JULY-2021
PARAMATHI - T.N


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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS **JUNE - 2021**

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpur-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per AIA - RTM 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
PERSONAL SAMPLING					
1	14-06-2021	323-2021-6-10-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.065
2	14-06-2021	324-2021-6-10-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.057
3	14-06-2021	325-2021-6-10-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.033
4	14-06-2021	326-2021-6-10-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.049

26-JUNE-2021
PARAMATHI - T.N

T. MURUGANANDHAM - SR. OFFICER (EHS)
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Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE, Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS **JUNE - 2021**

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per AIA - RTM 1


Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>STATIC SAMPLING</u>					
1	14-06-2021	327-2021-6-10-8	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.037
2	14-06-2021	328-2021-6-10-11	Loading Platform	The static sample is collected from Loading Section. The plant was in production of Fibre cement sheets.	< 0.1 0.016

26-JUNE-2021
PARAMATHI - T.N


T. MURUGANANDHAM - SR. OFFICER (EHS)
ASBESTOS FIBRE COUNTING ANALYST



VISAKA INDUSTRIES LIMITED®

CIN: L52520TG1981PLC003072

FACTORY: MANIKANATHAM-VILLAGE, PARAMATHI-POST, NAMAKKAL-DISTRICT, TAMIL NADU - 637 207
 TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE,
 Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS MAY - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
 Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
 Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per AIA - RTM 1
 (IS : 11450) Method.

Sampling Duration : 60 Minutes.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
PERSONAL SAMPLING					
1	21-05-2021	264-2021-5-10-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.041
2	21-05-2021	265-2021-5-10-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.025
3	21-05-2021	266-2021-5-10-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.049
4	21-05-2021	267-2021-5-10-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.065
5	21-05-2021	268-2021-5-10-6	Fibre Bags Carrying Forklift Operator	The worker carrying the sampler was engaged in Fibre Bags Carrying fibre godown area during the sampling. He was using PPE's.	< 0.1 0.016

23-JUNE-2021
 PARAMATHI - T.N

T. MURUGANANDHAM - SR. OFFICER (EHS)
 ASBESTOS FIBRE COUNTING ANALYST



VISAKA INDUSTRIES LIMITED[®]

CIN: L52520TG1981PLC003072

FACTORY: MANIKANATHAM-VILLAGE, PARAMATHI-POST, NAMAKKAL-DISTRICT, TAMIL NADU - 637 207
TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE,
Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS MAY - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per AIA - RTM 1

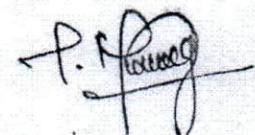
Sampling Duration : 60 Minutes.

(IS: 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
STATIC SAMPLING					
1	21-05-2021	269-2021-5-10-8	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.025
2	21-05-2021	270-2021-5-10-10	Main Machine	The static sample is collected from Main Machine area. The plant was in production of Fibre cement sheets.	< 0.1 0.012

23-JUNE-2021
PARAMATHI - T.N


T. MURUGANANDHAM - SR. OFFICER (EHS)
ASBESTOS FIBRE COUNTING ANALYST



VISAKA INDUSTRIES LIMITED[®]

CIN: L52520TG1981PLC003072

FACTORY: MANIKANATHAM-VILLAGE, PARAMATHI-POST, NAMAKKAL-DISTRICT, TAMIL NADU - 637 207
TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

Achieved a "1" rating Laboratory for counting of Asbestos Fibre by INSTITUTE OF OCCUPATIONAL MEDICINE,
Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health

AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS APRIL - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

Specifications : As Per AIA - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
PERSONAL SAMPLING					
1	12-04-2021	191-2021-4-10-1	E.R Mill - BOD Area	The worker carrying the sampler was feeding fibre bags through the slant conveyor. Fibre dust collector in operation. He was using PPE's.	< 0.1 0.057
2	12-04-2021	192-2021-4-10-3	Filing Worker	The worker carrying the sampler was working in filing of rejected AC sheets were getting reclaimed. He was using PPE's.	< 0.1 0.065
3	12-04-2021	193-2021-4-10-4	Waste Recycling Worker	The worker carrying the sampler was engaged in operation of Waste sheets recycling work at wet ball mill section. He was using PPE's.	< 0.1 0.049
4	12-04-2021	194-2021-4-10-2	Salvaging Area	The worker carrying the sampler was working in salvaging of rejected AC sheets were getting reclaimed. Wet process. He was using PPE's.	< 0.1 0.041

21-APRIL-2021
PARAMATHI - T.N

T. MURUGANANDHAM - SR. OFFICER (EHS)
ASBESTOS FIBRE COUNTING ANALYST



VISAKA INDUSTRIES LIMITED®

CIN: L52520TG1981PLC003072

FACTORY: MANIKANATHAM-VILLAGE, PARAMATHI-POST, NAMAKKAL-DISTRICT, TAMIL NADU - 637 207
TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

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TEL: 99424-65086 & 79041-91384, www.visaka.in email: environment.paramathi@visaka.in

ASBESTOS FIBRE COUNTING CELL

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS

APRIL - 2021

Name of the Company : M/s. VISAKA INDUSTRIES LIMITED,
Parmanpore-Village, Sason-Post,
Sambalpore-D.T, Odissa-State-768200.

Analyzer Under : Carl Zeiss Make, Axioskop 40,
Phase Contrast Microscope,

Flow Rate : 1.0 LPM.

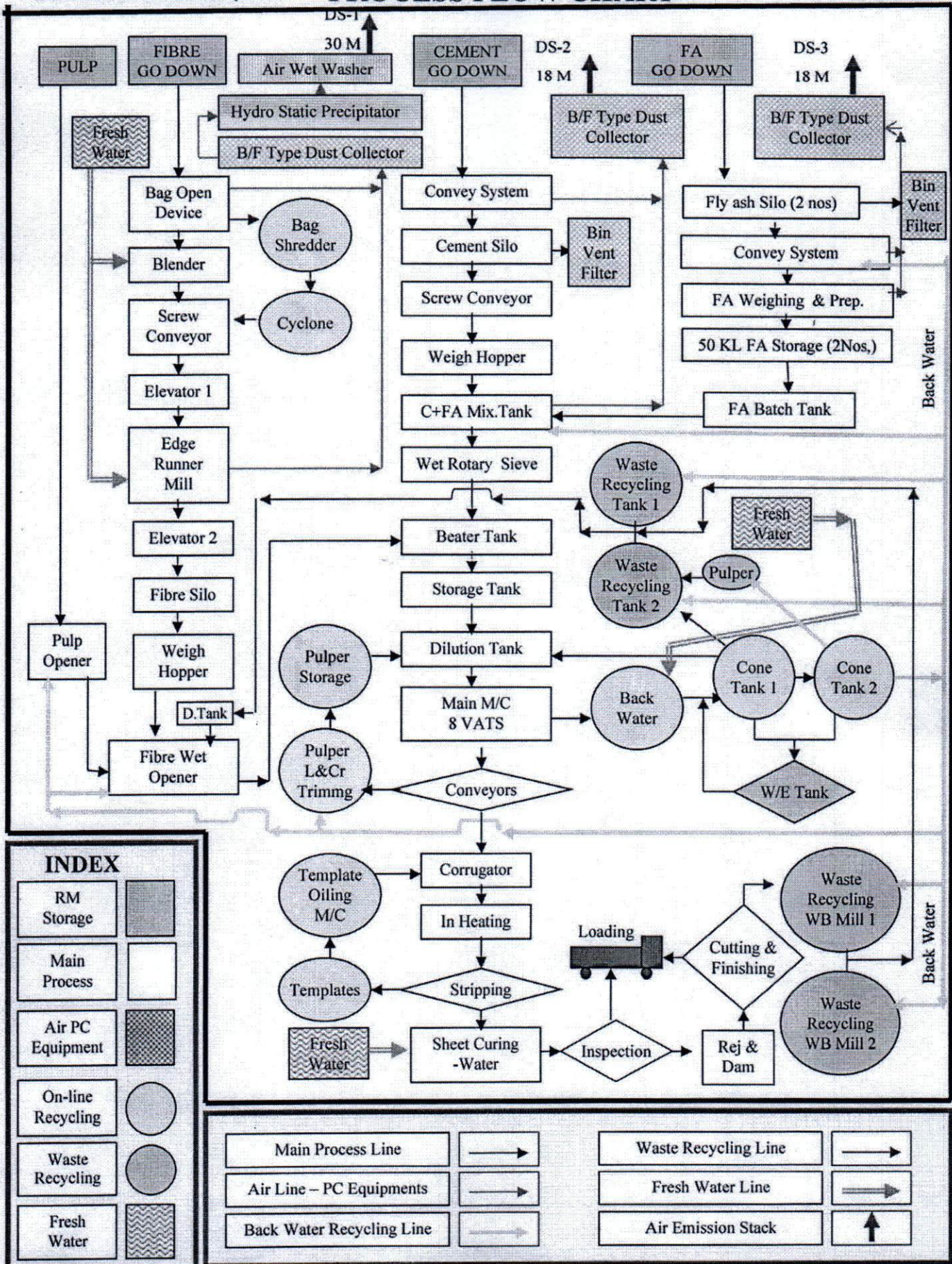
Specifications : As Per AIA - R T M 1

Sampling Duration : 60 Minutes.

(IS : 11450) Method.

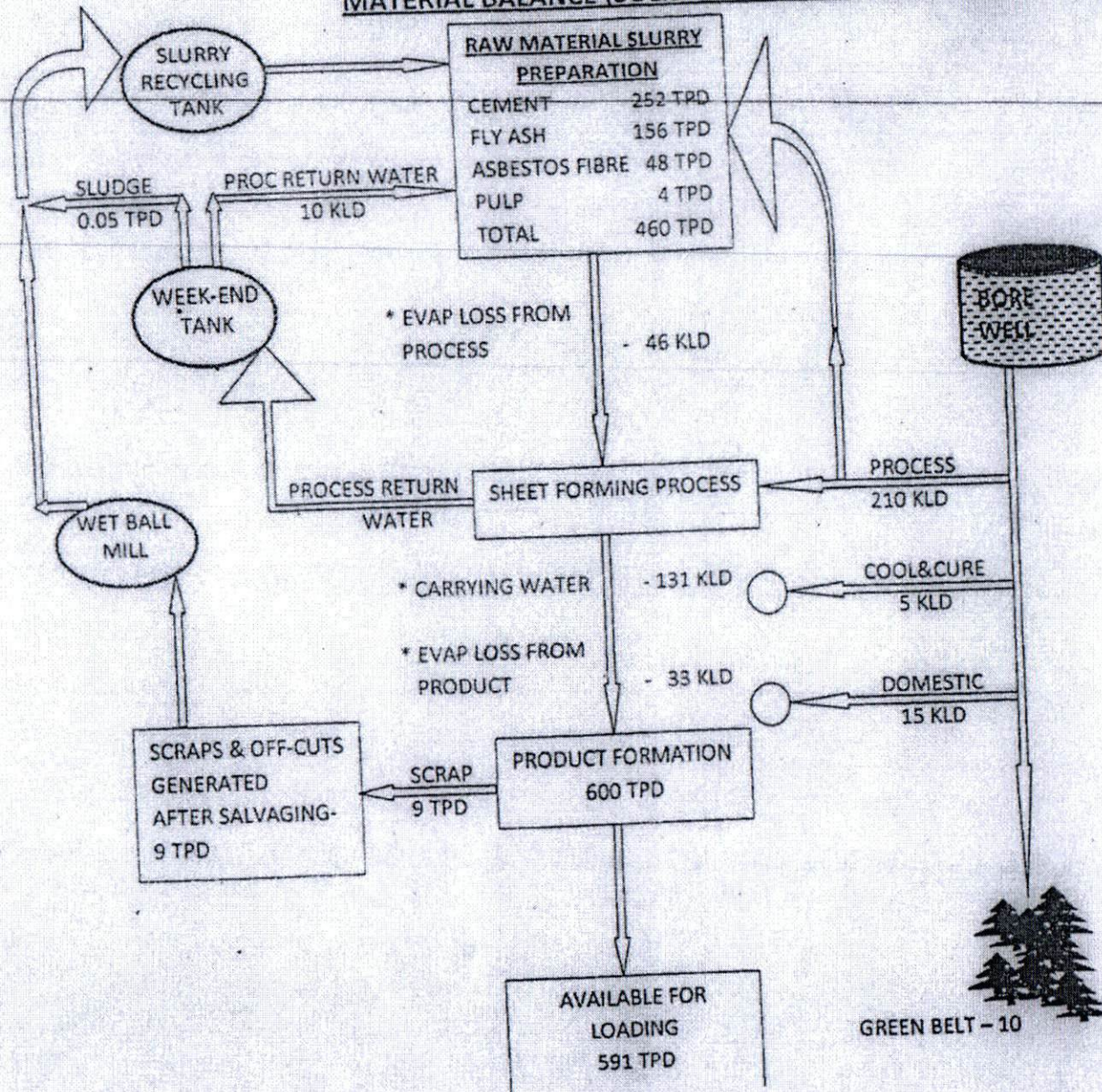
PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
As PER MoEFCC & PCB = < 0.1 fibre/cc of air.

Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
<u>STATIC SAMPLING</u>					
1	12-04-2021	195-2021-4-10-8	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.049
2	12-04-2021	196-2021-4-10-9	Process Waste Storage	The static sample is collected from Process Waste Storage area. The plant was in production of Fibre cement sheets.	< 0.1 0.033



(Annexure - 4)

MATERIAL BALANCE (SOLIDS & WATER) in TPD & KLD



Visaka industries limited (Sambalpur)

SOLID WASTE & WET WASTE GENERATION/CONSUMPTION DETAILS FY 2021-22

Period-- Apr'21 to Sep'21

MFG MONTH	GROSS PRODUCTION	HGW GENERATION	HGW CONSUMPTION	PROCESS SLUDGE GENERATION	PROSESS SLUDGE CONSUMPTION	TOTAL CONSUMPTION
Apr'21	12567.433	20.66	84.600	1.428	1.428	86.028
May'21	12026.647	47.90	128.862	1.896	1.896	130.758
Jun'21	12126.708	44.32	158.170	0.990	0.990	159.160
Jul'21	12951.670	57.50	197.177	1.188	1.188	198.365
Aug'21	5149.392	19.73	76.176	0.702	0.702	76.878
Sep'21	2174.709	16.17	8.022	0.666	0.666	8.688
Total	56996.559	206.285	653.007	6.870	6.870	659.877

(Annexure - 5)

People & Business

24 Mickiewicza Str. 62-500 Konin
www.konimpex.com**Konimpex**

2021-11-02

QUALITY CERTIFICATE

REF Invoice No: F/TR/1102021110005
 Consignee: VISAKA INDUSTRIES LTD.
 PLOT NO:1994(P), 2006, KHATA NO.450
 CHAKA NO. 727, VILLAGE: PARMANPUR
 768200 GST No:21AAACV7263K1Z9
 P.S:SESON SAMBALPUR, ORISSA
 IEC No 0900004347
 INDIE

COPY

Description of goods: Chrysotile Raw Asbestos Fibre of Russian Origin Grade 5-65
 P/O No: PO NO. 11903 dtd. 2021-02-23

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
P.P. BAGS 50 KG	ZIMU1340494	490	24 500	25 351
EACH ONE	ZIMU1348263	490	24 500	25 352
490 BAGS	ZIMU1413287	490	24 500	25 351
Stretch Wrapped /	ZIMU2862261	490	24 500	25 352
Thermo Shrink Film	ZIMU2957979	490	24 500	25 352
onto	ZIMU3002095	490	24 500	25 352
pallets of 1.25 MT (25	ZIMU3023138	490	24 500	25 351
bags) - 18 pallets	ZIMU3048563	490	24 500	25 353
Stretch Wrapped /	ZIMU3058664	490	24 500	25 352
Thermo Shrink Film	ZIMU3069479	490	24 500	25 351
onto	ZIMU3078969	490	24 500	25 351
pallets of 1.00 MT (20				
bags) - 2 pallets				
Total		5 390	269 500	278 868

IT IS HEREBY CERTIFIED THAT THE QUALITY OF THE GOODS MENTIONED IN THIS CERTIFICATE IS IN CONFORMITY WITH THE STANDARD GOST 12871-2013 AND THE GOODS MAY BE EXPORTED. QUALITY CHARACTERISTICS OF THE GOODS: REMAINDER ON THE MAIN SIEVE OF THE CONTROL APPARATUS: NOT LESS THAN MENTIONED BELOW IN %

Characteristic	Value
DUST(NOT MORE THAN IN %)	9
2 SIEVE	0
3 SIEVE	65

KONIMPEX Ltd.
 24, Mickiewicza Str.
 62-500 Konin, POLAND
 Signature *[Signature]*

Konimpex Sp. z o.o.
 Tel.: +48 63 249 77 92, BDO: 000030364,
 e-mail: konimpex@konimpex.com.pl
 The Register of Companies - the District Court Poznań,
 Nowe Miasto and Wilda in Poznań,

the 9th Economic Department of the National Court Register
 KRS No 0000043189
 VAT ID No.: PL6650001148,
 Company registr. No.: 008273909,
 Share capital: 358 000 PLN

2021-08-16

QUALITY CERTIFICATE

COPY

REF Invoice No: F/TR/1102021080022

Consignee: VISAKA INDUSTRIES LTD.

PLOT NO:1994(P), 2006, KHATA NO.450

CHAKA NO. 727, VILLAGE: PARMANPUR

768200 GST No:21AAACV7263K1Z9

P.S:SESON SAMBALPUR, ORISSA

IEC No 0900004347

INDIE

Description of goods: Chrysotile Raw Asbestos Fibre of Russian Origin Grade 4-20

P/O No: PO NO. 11902 dtd. 2021-02-23

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
P.P. BAGS 50 KG	DFSU2458280	500	25 000	25 855,2
EACH ONE	SEGU2601843	500	25 000	25 855,2
500 BAGS	SEGU2670280	500	25 000	25 855,2
Stretch Wrapped /	TCKU1276930	500	25 000	25 855,2
Thermo Shrink Film	ZIMU1022765	500	25 000	25 855,2
onto	ZIMU1187960	500	25 000	25 855,2
pallets of 1.25 MT (25	ZIMU1427362	500	25 000	25 855,2
bags) – 20 pallets	ZIMU1429787	500	25 000	25 855,2
Stretch Wrapped /	ZIMU2868423	500	25 000	25 855,2
Thermo Shrink Film	ZIMU3120061	500	25 000	25 855,2
onto	ZIMU3127322	500	25 000	25 855,2
pallets of 1.00 MT (20				
bags) – 0 pallets				
Total		5 500	275 000	284 406

IT IS HEREBY CERTIFIED THAT THE QUALITY OF THE GOODS MENTIONED IN THIS CERTIFICATE IS IN CONFORMITY WITH THE STANDARD GOST 12871-2013 AND THE GOODS MAY BE EXPORTED. QUALITY CHARACTERISTICS OF THE GOODS: REMAINDER ON THE MAIN SIEVE OF THE CONTROL APPARATUS: NOT LESS THAN MENTIONED BELOW IN %

Characteristic	Value
2 SIEVE	20
3 SIEVE	58
DUST(NOT MORE THAN IN %)	4.5

Description of goods: Chrysotile Raw Asbestos Fibre of Russian Origin Grade 5-65

P/O No: PO NO. 11902 dtd. 2021-02-23

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
P.P. BAGS 50 KG	BMOU2396504	500	25 000	25 855,2
EACH ONE	FCIU4234060	500	25 000	25 855,2
500 BAGS	ZIMU1025548	500	25 000	25 855,6
Stretch Wrapped /	ZIMU1335585	500	25 000	25 855,2
Thermo Shrink Film	ZIMU1353491	500	25 000	25 855,2
onto	ZIMU1423475	500	25 000	25 855,2

Konimpex Sp. z o.o.

Tel.: +48 63 249 77 92, BDO: 000030364,

e-mail: konimpex@konimpex.com.pl

The Register of Companies - the District Court Poznań,

Nowe Miasto and Wilda in Poznań,

the 9th Economic Department of the National Court Register

KRS No 0000043189

VAT ID No.: PL6650001148,

Company registr. No.: 008273909,

Share capital: 358 000 PLN

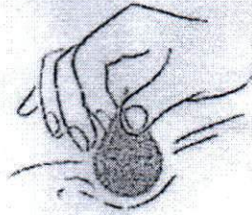
(Annexure - 6)

Visaka Industries Limited
Sambalpur , Odisha
Annual Health Check Up Details

Date :- 24.02.2021
25.02.2021
27.02.2021

Category	No. of Persons	HB %	SPUTUM	DC	TLC	PFT	X - RAY
Staff	36	✓	✓	✓	✓	_____	_____
Worker	46	✓	✓	✓	✓	_____	_____
Contract Worker	125	✓	✓	✓	✓	_____	_____

Note :- All Medical Test Reports are filed and preserved.
PFT test not done due to Covid-19 pandemic situation.



(Annexure-7)

TM

Varsha-Jal
rainwater harvesting

COMPLETION REPORT

Date: 10/11/16

Name of Customer: Visaka Industries Ltd Order No: -

Address of Customer: Pannampur Sambalpur - (Odisha)

Dist: Sambalpur State: Odisha

This is to report that 5 Nos. of KFP (Patented) RWH structures has been implemented at above address and completed to satisfaction of the Customer.

Beautification, all future maintenance of KFP Structures will be your responsibility.

We are satisfied of the Work done.

(KRWHPL Rep. Sign)

(Site Incharge of the Company)

Authorised Impelmenter of KFP (Patented) Rainwater Harvesting
(Low cost permanent solution to Unreliable Rainfall - No rain, Low rain & Heavy rain)

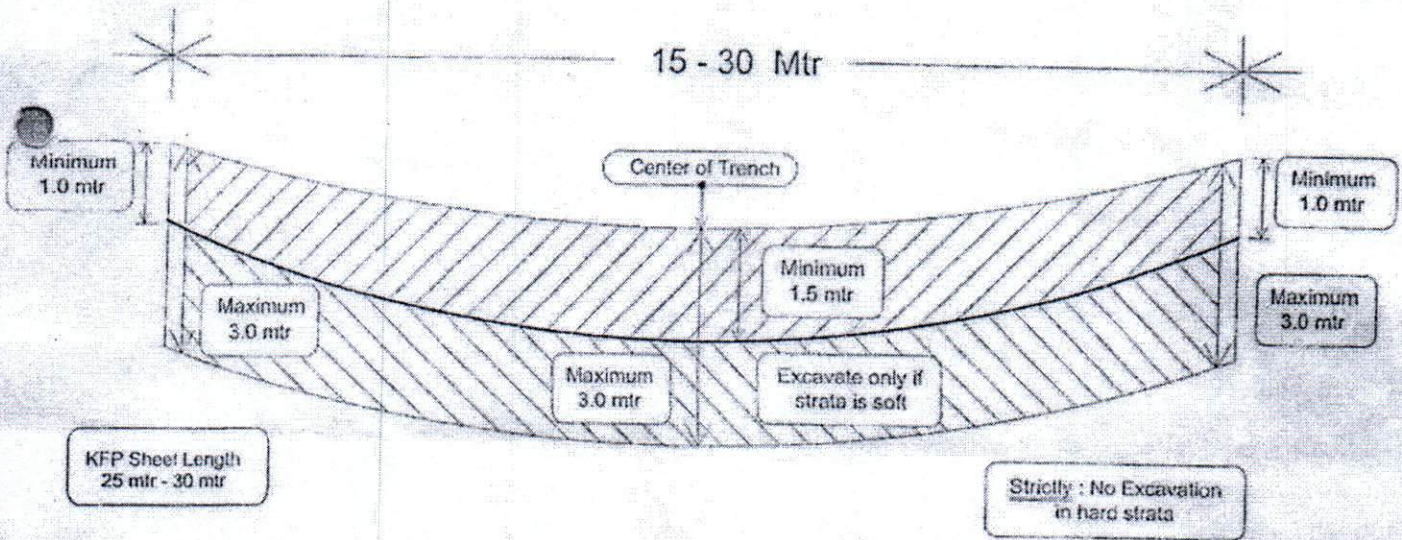
Kedia Rainwater Harvesting Pvt. Ltd

VARSHA-JAL, Plot No 51, Pannajal Nagar, Aurangabad - 431 005 (Maharashtra)

☎: +91-9271780701 E-mail: info@varshajal.com Website: www.varshajal.com



Cross - Section (Lengthwise) of KFP (Patented) RWH Structure (*bandhara*)



Effects Of KFP (Patented) RWH :

During Monsoon -

Run-Off from KFP field will be much less than earlier/ compared to non-KFP field.
Rain Water collected by KFP structure will empty much faster, compared to non-KFP field.

After Monsoon -

Water level rise can be seen in the well of KFP field, even in 1st monsoon.
Moisture level in the ground will start increasing.
Within 3-4 good monsoons, soil 2 feet below ground, may be found to be moist even 4-6 months after rains.

Care to be taken by Customer of KFP Structure :

1. If silt is found on the trench, clean the trench of silt accumulation.
2. No movement of tractor / vehicle / ploughing in 100' x 10' Zone of KFP structure.
3. Repair the soil bund, if it breaks in heavy monsoon.
4. You can do boulder pitching / grass on soil bund / beautification of bandhara
5. Divert storm water flow towards KFP structure, if going elsewhere.
6. No Effluent / ETP / STP / Grey Water (Kitchen, Greasy water) should find its way towards KFP.
7. Topping-up of the KFP Trench with Murum-porous soil (in case of settlement of soil).

Signature _____
10/11/16



Kedia Rainwater Harvesting Pvt. Ltd.

'Varsha-Jal', Plot No: 51, Pannalal Nagar, Aurangabad - 431 005 (MH)
☎ +91-9371780701, 0240-2356599 ✉ info@varshajal.com
www.varshajal.com

(Annexure - 8)

PUBLIC HEARING TASKS UNDERTAKEN

With respect to the commitments made during public hearing conducted on 12/05/2010 at PARMANPUR Panchayat office in presence of the District administration, PCB authorities, VISAKA Industries management and the villagers, following actions have been taken so far by the VISAKA management as part of compliance to the Public Hearing.

- 1) We are always using Cement, Fly Ash, Asbestos Fibre & Pulp as raw materials in slurry medium for manufacturing of Asbestos Corrugated Sheets.
- 2) We are keeping Fly Ash content @ more than 25.0 % in our product. As Fly Ash is a bi-product of Thermal Power plants, it is a major environmental pollutant which we are consuming to the tune of appx. 26,000 MTs per annum there by actively participating in environmental pollution control measures.
- 3) As part of our company's policy, we are always using white chrysotile asbestos fibre in our sheet manufacturing process. We will never use blue asbestos fibre to manufacture AC sheets.
- 4) Annual health check-up is being carried out each year religiously covering all staffs, workers and contractual laborers working in the company as per the standard guidelines and all records are being preserved. No health issue has been detected till date.
- 5) Caution stickers are being used for awareness of the public in product.
- 6) Employment have been provided in Staff, workman & contractual labour categories to eligible people of nearby peripheral villages.

(Annexure - 9)

CASH MEMO

SUNITA NURSARY

SINDURPANK, SAMBALPUR

Bill No. 167

Date 24.8.2023

Name Visaka Industries Ltd

Address Ranmorpur

Sl. No.	Description	Qnty.	Rate	Amount	
				Rs.	P.
1.	Nim	305	1	305	W
2.	Jamu	102	1	102	W
3.	Guava	103	1	103	W
SI-636/24/8					
SECURITY DEPT		PH			
STORES DEPT		C. B. il			
PURCHASE DEPT					
USER DEPT		A. Sheng			
APPROVED BY					
			TOTAL	510	W

Rupees.....

Signature

CASH / CREDIT MEMO

TAN NO. BBND 00700A

OFFICE OF THE DEPUTY DIRECTOR, HORTICULTURE
SAMBALPUR

Book No. 4 Sl. No. 391 Date 7.6.2021

Name Mishakha Industries Ltd

Address Paramanpur Sambalpur

Sl. No.	Particulars	Quantity	Rate	Amount		Reference
				RS.	P.	
1	Guava seeds	30 kg	15/-	450	= 0	
2	Neem "	30 kg	15/-	450	= 0	
Sl- 287 4/6						
SECURITY DEPT		Rulana				
STORES DEPT		Potli				
PURCHASE DEPT						
USER DEPT		Prakash				
APPROVED BY						
TOTAL				900 = 0		

(Rupees Nine hundred)

) Only

Nilamchal Behera
Signature of Receiver

[Signature]
Signature
4.6.2021
Designation H.D.



ENVOMIN Consultant (Pvt.) Ltd.

(A Consultancy House for Mine Planning, Forest Proposal and Environmental Engineering)

MoEF & OSPCB Accredited Laboratory

TEST REPORT

REPORT NO/ULR NO. : EMC/ST/21-22/08(ii) DT-15.09.2021
NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
NAME OF PROJECT/WORK : --
REFERENCE NO. : S.O. No. 12727 Dt- 23.09.2021
TYPE OF SAMPLE : Stack Monitoring Report
SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
CONDITION OF SAMPLE : Sealed
TYPE OF TEST : Physical & Chemical Parameters
DATE OF SAMPLE RECEIVED : 08.09.2021
DATE OF TEST COMMENCEMENT : 08.09.2021
DATE OF COMPLETION : 09.09.2021
TEST METHOD : Gravimetric Method

A. General Information about

Stack attached to : i. Flyash feeding system
ii. Cement Feeding system
iii. DG Set

Shape of Stack : Circular

Material of Construction : MS

Stack sampling point : i. 5 meter from GL, ii. 5 meter from GL, iii. 6 meter from GL

Stack Height : i. 15 meter from GL, ii. 15 meter from GL iii. 12 meter from GL

Whether stack is provided with Permanent Platform/ Ladder : Yes

Sl. No.	Parameter to be Tested	Results	Unit	Test Protocol	OSPCB prescribed Standard	Remarks
1.	Particulate Matter	EMC/Lab/ST-2 55.2	mg/Nm ³	IS 11255 (Pt-1) 1985, (RA 2014)	100	--
2.	Particulate Matter	EMC/Lab/ST-3 67.81	mg/Nm ³	IS 11255 (Pt-1) 1985, (RA 2014)	100	--
3.	Smoke in HSU	EMC/Lab/ST-4 40.1	HSU	IS 11255 (Pt-1) 1985, (RA 2014)	75	--

PREPARED BY
Pranab Mohanty

(Asst. Quality Manager)



AUTHORIZED SIGNATORY
Sanghamitra Das

(Tech. Manager)

1. THIS TEST REPORT IS BASED ON THE SAMPLE RECEIVED BY OUR LABORATORY.
2. THE TEST RESULT RELATES ONLY TO THE ITEM TESTED.
3. THE REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF THE TESTING LABORATORY
4. THE SAMPLE WILL BE RETAINED IN OUR LABORATORY FOR SEVEN DAYS AFTER DATE OF TEST COMPLETION.



ENVOMIN Consultant (Pvt.) Ltd.

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TEST REPORT

REPORT NO./ULR NO. : EMC/AAQ/21-22/04 DT-15.09.21
 NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 NAME OF PROJECT/WORK : --
 REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
 TYPE OF SAMPLE : Ambient Air Quality (AAQ)
 SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
 CONDITION OF SAMPLE : Sealed
 TYPE OF TEST : Physical & Chemical Parameters
 DATE OF SAMPLE RECEIVED : 08.09.2021
 DATE OF TEST COMMENCEMENT : 08.09.2021
 DATE OF COMPLETION : 09.09.2021

Sample Specification: Sample ID. No. Locations
 EMC/Lab/AAQ-1 - Near Main Gate
 EMC/Lab/AAQ-2 - Despatch Area
 EMC/Lab/AAQ-3 - Near Fibre Godown
 EMC/Lab/AAQ-4 - Near Guest House

Sl. No.	Parameter to be Tested	Unit	Test Method	Results				NAAQ standards CPCB, 18 th Nov, 2009
				EMC/Lab/20	EMC/Lab/21	EMC/Lab/22	EMC/Lab/23	
1.	Particulate Matter (size less than 10 μ m) or PM ₁₀	μ g/m ³	IS 5182 (Part 23): 2006	47.8	56.74	45.21	42.12	100 (Gravimetric)
2.	Particulate Matter (size less than 2.5 μ m) or PM _{2.5}	μ g/m ³	IS 5182 (Part 24): 2019	30.6	35.21	26.34	23.46	60 (Gravimetric)
3.	Sulphur Dioxide as SO ₂	μ g/m ³	IS 5182 (Part 2): 2001	8.32	10.86	7.32	7.82	80 (Improved West and Gaeke)
4.	Oxides of Nitrogen as NO _x	μ g/m ³	IS 5182 Part-6: 2017	15.34	18.24	13.64	17.23	80 (Modified Jacob & Hochheiser (Na Arsenite))

PREPARED BY
Pranab Mohanty

(Asst. Quality Manager)



AUTHORIZED SIGNATORY
Sanghamitra Das

(Tech. Manager)

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TEST REPORT

REPORT NO/ULR NO. : EMC/NLS/21-22/06 DT-15.09.2021
 NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 NAME OF PROJECT/WORK : --
 REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
 TYPE OF SAMPLE : Noise Monitoring Report
 SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
 CONDITION OF SAMPLE : --
 TYPE OF TEST : Physical Parameters
 DATE OF SAMPLE RECEIVED : 08.09.2021
 DATE OF TEST COMMENCEMENT : 08.09.2021
 DATE OF COMPLETION : 09.09.2021

Sample Specification: Sample ID. No.

EMC/Lab/N-1
 EMC/Lab/N-2
 EMC/Lab/N-3
 EMC/Lab/N-4
 EMC/Lab/N-5
 EMC/Lab/N-6

Locations

- Fibre Godown
 - Starting Loading Point
 - Main Gate
 - Administrative Building
 - Near Guest House
 - Ball Mill Area

Sl. No.	Date of Sampling	Unit	Results	Time	
				Day (6 AM to 10 PM)	Night (10 PM to 6 AM)
1	07.09.2021	dB (A) Leq	EMC/Lab/N-1	68.2	45.0
2		dB (A) Leq	EMC/Lab/N-2	71.6	49.3
3		dB (A) Leq	EMC/Lab/N-3	74.0	40.8
4		dB (A) Leq	EMC/Lab/N-4	63.5	39.1
5		dB (A) Leq	EMC/Lab/N-5	58.1	34.6
6		dB (A) Leq	EMC/Lab/N-6	72.3	45.7
Standard as per CPCB Noise Pollution (Regulation and Control) Rules, 2000 Industrial Area				75	70

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 Pranab Mohanty

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TEST REPORT

REPORT NO/ULR NO. : EMC/GW/21-22/05 DT-15.09.2021
 NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
 NAME OF PROJECT/WORK : -
 REFERENCE NO. : S.O. No.12727 Dt- 23.09.2021
 TYPE OF SAMPLE : Ground Water
 SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
 CONDITION OF SAMPLE : 1 ltr. Water sample in sealed condition
 TYPE OF TEST : Physical & Chemical Parameters
 DATE OF SAMPLE RECEIVED : 08.09.2021
 DATE OF TEST COMMENCEMENT : 08.09.2021
 DATE OF COMPLETION : 11.09.2021

Sample Specification: Sample ID. No.

Locations

EMC/Lab/GW-1 - Bore well no-1
 EMC/Lab/GW-2 - Bore well no-2

Sl. No	Test parameters	Test Method	Unit	Results		Requirements as per IS 10500: 2012	
				EMC/Lab/34	EMC/Lab/35	Acceptable Limit	Permissible Limit
1	Colour	APHA 2120 B	Hazen	1	1	5	15
2	Odour	APHA 2150 B	-	Agreeable	Agreeable	Agreeable	Agreeable
3	pH value	APHA 4500H ⁺ B	-	7.39	7.65	6.5-8.5	No relaxation
4	Taste	APHA 2160 B	-	Agreeable	Agreeable	Agreeable	Agreeable
5	Total Dissolved Solids	APHA 2540 C	mg/l	315	360.0	250	1000
6	Aluminium as Al	APHA 3111 D & E	mg/l	0.032	0.028	0.03	0.2
7	Barium as Ba	APHA 3111 D	mg/l	<0.01	<0.01	0.7	No relaxation
8	Boron as B	APHA 4500 B	mg/l	<0.01	<0.01	0.5	1.0
9	Calcium as Ca	APHA 3500, Ca, B	mg/l	56.3	48.2	75	200
10	Chloride as Cl	APHA 4500, Cl, B	mg/l	17.7	13.8	250	1000
11	Copper as Cu	APHA 3111 B, C	mg/l	0.024	0.022	0.05	1.5
12	Fluoride as F	APHA 4500, F, D	mg/l	0.56	0.62	1.0	1.5
13	Free residual chlorine	APHA 4500 Cl, B	mg/l	0.04	0.026	0.2	1.0
14	Iron as Fe	APHA, 3500 Fe, B	mg/l	0.082	0.076	0.3	No relaxation
15	Magnesium as Mg	APHA 3500 Mg, B	mg/l	9.6	10.2	30	100
16	Manganese as Mn	APHA 3500 Mn, B	mg/l	0.026	0.032	0.1	0.3
17	Nitrate as NO ₃	APHA NO ₃ , E	mg/l	0.14	0.16	45	No relaxation
18	Phenolic compound as C ₆ H ₅ OH	APHA 5530 B, D	mg/l	<0.001	<0.001	0.001	0.002
19	Selenium as Se	APHA 3114 B	mg/l	<0.01	<0.01	0.01	No relaxation
20	Sulphate as SO ₄	APHA 4500 SO ₄	mg/l	6.84	7.12	200	400
21	Total Alkalinity as CaCO ₃	APHA 2320, B	mg/l	56.4	65.2	200	600
22	Total Hardness as CaCO ₃	APHA 2340 C	mg/l	110.0	128.0	200	600
23	Zinc as Zn	APHA 3111 B, C	mg/l	0.204	0.302	5	15
24	Cadmium as Cd	APHA 3111 B, C	mg/l	<0.003	<0.003	0.003	No relaxation
25	Lead as Pb	APHA 3111 B, C	mg/l	<0.01	<0.01	0.01	No relaxation
26	Mercury as Hg	APHA 3500 Hg	mg/l	<0.001	<0.001	0.001	No relaxation
27	Molybdenum as Mo	APHA 3111 D	mg/l	<0.01	<0.01	0.07	No relaxation
28	Nickel as Ni	APHA 3111 B	mg/l	0.018	0.015	0.02	No relaxation
29	Total Arsenic	APHA 3114 B	mg/l	<0.001	<0.001	0.01	0.05
30	Total Chromium	APHA 3111 C	mg/l	<0.01	<0.01	0.05	No relaxation
31	Total Coliform	APHA 9221 B	MPN/100 ml	Absent	Absent	Shall not be detectable in any 100 ml sample	

Regd. Office: Plot No.-58, Kharavel Nagar, Bhubaneswar-751001, Odisha,
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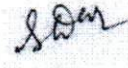
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32	E. Coliform	APHA 9222 C	MPN/100 ml	Absent	Absent	Shall not be detectable in any 100 ml sample
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Pranab Mohanty
(Asst. Quality Manager)




AUTHORIZED SIGNATORY
Sanghamitra Das
(Tech. Manager)

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TEST REPORT

REPORT NO/ULR NO. : EMC/SW/21-22/09 **DT-15.09.2021**
NAME & ADDRESS OF CLIENT/AGENCY : M/s. VISAKA INDUSTRIES LIMITED; Sambalpur, Odisha.
NAME OF PROJECT/WORK : --
REFERENCE NO. : S.O. No.12727 **Dt- 23.09.2021**
TYPE OF SAMPLE : Surface Water
SAMPLE COLLECTED BY : ECPL Representative in presence of client's Representative
CONDITION OF SAMPLE : 1 ltr. Water sample in sealed condition
TYPE OF TEST : **Physical & Chemical Parameters**
DATE OF SAMPLE RECEIVED : **08.09.2021**
DATE OF TEST COMMENCEMENT : **08.09.2021**
DATE OF COMPLETION : **11.09.2021**

Sample Specification: Sample ID. No.

Locations

EMC/Lab/SW-1 - Pond Water

EMC/Lab/SW-2 - Canal Water

Sl. No.	Parameters	Testing Method	Unit	Max, Tolerance Limit as per IS 2296: Class C	Results	
					EMC/Lab/SW-1	EMC/Lab/SW-2
1	Colour	APHA 2010 B, C	Hazen	300	2	5
2	pH value @ 25°C	APHA 4500H+ B	--	6.5 to 8.5	6.81	7.6
3	Iron as Fe	APHA 3500Fe, B	mg/l	50	0.162	0.132
4	Chloride as Cl, Max	APHA 4500Cl ⁻ C	mg/l	600	9.85	8.86
5	Dissolved Solids, Max	APHA 2540 C	mg/l	1500	405.0	256.0
6	Dissolved Oxygen, Min	APHA 4500-O C	mg/l	45	7.8	7.7
7	BOD for 5 days @ 20°C	APHA 5210 B	mg/l	3	2.4	2.8
8	Oil & Grease, Max	APHA 5520 B	mg/l	0.1	<0.1	<0.1
9	Copper as Cu, Max	APHA 3111 B,C	mg/l	1.5	0.047	0.034
10	Sulphate as SO ₄	APHA 4500 SO ₄ ²⁻ E	mg/l	400	0.021	0.016
11	Nitrate as NO ₃	APHA 4500 - NO ₃ ⁻ E	mg/l	50	0.22	0.20
12	Fluoride as F	APHA 4500F ⁻ C	mg/l	1.5	0.82	0.88
13	Cadmium as Cd	APHA 3111 B,C	mg/l	0.01	<0.005	<0.005
14	Selenium as Se	APHA 3114 B	mg/l	0.05	0.021	0.018
15	Arsenic as As	APHA 3114 B	mg/l	0.2	<0.001	<0.001
16	Phenolic Compound as C ₆ H ₅ OH	APHA 5530 B,D	mg/l	0.005	<0.001	<0.001
17	Lead as Pb	APHA 3111 B,C	mg/l	0.1	0.010	0.008
18	Zinc as Zn	APHA 3111 B,C	mg/l	15	0.143	0.087
19	Hexavalent Chromium as Cr ⁺⁶	APHA 3111 C	mg/l	0.05	<0.05	<0.05
20	Total Coliform, Max	APHA 9221 B	MPN/10	5000	320	480



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