VISAKA INDUSTRIES LIMITED®

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

To,

The Director,

Ministry of Environment & Forests,

A / 3 Chandrasekharpur,

Bhubaneswar – 751023.

Date: - 29 / 06 / 2021

Sub: - Compliance Report for the period October-2020 to March-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.

Thanking You

Yours Faithfully,

U. N. Bhaskar

For Visaka Industries, Sambalpur

(Authorised Signatory)

Corporate Office : "VISAKA TOWER" 1-8-303/69/3, S.P. Road, Secunderabed - 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 VIII) : Survay No. 385, 386, Jujjur Village, Veerullapadu mandal, Near Kanchika cheria, Krishan District - 521181 (A.P.)
Factory : (Textile Division) : Survay No. 179, 180, Chiruva Village, Mouda Taluk, Nagpur District - 440104 (Maharashtra)
Factory : (V-Borad Division I) : Survay 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 Oct' 20 to Mar' 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/nm3 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

	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.
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.	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 Earth & Environment Laboratory who are empanelled with SPCB, Odisha. We are enclosing the copies of the latest test results. (Annexure-1)
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.	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 in every month.
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.	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)
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 in the manufacturing process. Process	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. We further confirm that the entire

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.	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).
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.	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.
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.	We are enclosing copy of test certificates of regular used fibers from our suppliers such as Konimpex for your ready reference. (Annexure-5).
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 whichever is later. Occupational	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 Supreme Court.

Health Surveillance shall be carried out as per the directives of the Honorable 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 under take 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 12th 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 8022 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 60 nos tress.)
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 such program should be ensured	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 celling fan facilities to Brahmakumari Ashram at Padhanpali.

accordingly in a time bound manner.	Further activities that has been initiated will be intimated to your office after implementation. On 25th Dec'2013we 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 19th 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 quality and stack emission shall be	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 has been recently analyzed by Earth &

regularly submitted to this ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Environment 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 19th May 1993 and 31st 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 in the surrounding villages like	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 surrounding villages. We sponsored a

community development programme, educational programme, drinking water supply and health care etc.	football tournament," Visaka Cup" at nearby Nuamunda village in Jan'2021 & 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 2019-20. Also in this current year 2020-21 we have paid 2.05000 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 parameters, indicated for the projects shall be monitored and displayed at a	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.

convenient location near the main gate of the company in the public domain.	
13. The environmental statement for each financial year ending 31st 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 31st 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.

(Annexure – 1)

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

ULR- TC-555018000000408P

TEST REPORT

Certificate No. : TC - 5550

TR #: EEL/43/21
DATE: 25.03.2021

Discipline	:	Chemical Testing
Group	:	Atmospheric Pollution
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	Edge Running Mill
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	EM-05/SEM/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 23.03.2021
Description of Sample	:	After Sampling and monitoring at site, one no. of thimble containing dust particle was received in good condition.
Test Method	:	Gravimetric Method

A. General Information About Stack 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 Platform/Ladder	:	Yes

A. Physical Data

Flue gas Temperature (^{0}C)	:	36^0 C
Barometric Pressure (mm Hg)	:	757
Velocity of Gas flow (m/s)	:	6.7
Quantity of Gas flow (Nm^3/hr)	:	3252.41

TEST RESULT

Sl. #	Test Parameters	Analysis Result	Units	Test Protocol	CPCB Standard
1.	*Total Dust (DF)	1.735	mg/Nm^3	IS:11255 (Pt-1) 1985	2.0 mg/m^3

Earth & Environment Laboratory

Ms. Ranjita Mishra
Authorized Signatory

Note: 1. The test report shall not be reproduced partially or fully, without written approval of the laboratory, in the court of Law.
2. The results relates only to the items tested.
*3. The tests marked with an * are not accredited by NABL.*

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.

T C : December 2020 – Stack : D S : I - E R M - A F C

30.12.2020

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 L P M

Specifications : As per A I A - R T M 1 IS:11450 & ISO:10397 Membrane Filter Method

Sampling Duration : 10 minutes

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

Date of sampling	Location	Condition	Dust concentration **fibre /cc of air**	Remarks
16.12.2020	Fibre D E Stack connected to BOD - Edge Running Mill	Dust Collector in operation. Wet Scrubber attached to Dust Collector and Stack.	0.065	---

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@yahoo.in

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

TEST REPORT

Ref No:- EEL/DC-VIL/02/21

Dt. 25.03.2021

Name & Address of Customer : M/s. Visaka Industries Ltd.
Paramanpur, Sambalpur.
Odisha.

Sample drawn by : Laboratory
Sampling Location : Fiber D E Stack connected to Edge Running Mill & BOD
Sampling Date : 19.03.2021
Sampling Plan Ref No : R-7.3-35
Sample Registration No : EM-06/SEM/21
Date of sample received : 20.03.2021
Date of Performance : 20.03.2021 To 22.03.2021

Description of Sample : Respirable asbestos fiber dust sample.
Test Method : Gravimetric Method

TEST RESULT

Sl. #	Test Parameters	Analysis Result	Units	Test Protocol	Remarks
1.	Dust concentration (D E Stack)	<0.1 (0.037)	Fiber/cc	IS 11450:2006	----

Earth & Environment Laboratory

For M/s Earth and Environment Laboratory

Website: www.earthandenvironment.org, Email: earth_environment2008@yahoo.com
Phone/Fax: 0674 - 2552544, Fax No. 0674-2720310

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

TR #: EEL/41/21
DATE: 25.03.2021

ULR- TC-555018000000406F

TEST REPORT

Certificate No. :TC - 5550

Discipline	:	Chemical Testing
Group	:	Atmospheric Pollution
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	(I)- Main gate (II)- Adjacent to guest house (III)- Dispatch yard (IV)- Adjacent to New Fiber godown
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	EM-03/AAQ(I-IV)/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 23.03.2021
Description of Sample	:	After Monitoring & Sampling at site, the 4 nos. of filter paper containing dust particle and 8 nos. of liquid gaseous samples were received in good condition.

TEST RESULT

Sl. #	Test Parameters	Ambient Air Analysis Report				Units	Test Protocol	Remarks
		(I) Main gate	(II) Adjacent to guest house	(III) Dispatch Yard	(IV) Adjacent to New fiber go down			CPCB standard
1.	PM_{10}	74.23	63.27	71.16	63.34	$\mu g/m^3$	IS 5182 (Pt-23) 2006, (RA 2017)	100
2.	SO_2	30.46	26.25	30.33	28.25	$\mu g/m^3$	IS:5182(Pt2)2001, (RA- 2017)	80
3.	NO_X	25.25	24.34	25.27	23.26	$\mu g/m^3$	IS: 5182 (Pt-6) 2005, (RA- 2017)	80

Earth & Environment Laboratory

Ms. Ranjita Mishra
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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.

30.12.2020

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:224-PCXR8:I & 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 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
1	16.12.2020	**Static** 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 (0.072)	---
2	16.12.2020	**Personal** 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	16.12.2020	**Personal** 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 (0.088)	---

For J R LABS

Research Fibre Analyst

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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 – II& S K C:224-PCXR8:II

Analyzed under : Olympus make, Japan, B X 40 Phase Contrast 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
4	16.12.2020	**Personal** 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 (0.048)	---
5	16.12.2020	**Personal** 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 (0.060)	---

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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E-mail : jrlabs@gmail.com
jrlabs@rediffmail.com
jr.labs@yahoo.in

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.

30.12.2020

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 SKC: Side Kick 51 Ex & S K C:AirLite

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 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
6	16.12.2020	**Personal** 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 (0.068)	---
7	16.12.2020	**Personal** 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 (0.080)	---

For J R LABS

Research Fibre Analyst

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30.12.2020

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 – VI, Casella:T13180 - I

Analyzed under : Olympus make, Japan, B X 40 Phase Contrast 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	16.12.2020	**Static** 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 (0.064)	---
9	16.12.2020	**Static** Ambient Air: Near Main Gate	The Static sample is collected from near the Main Gate. Plant was in operation.	< 0.1 (0.084)	---

For J R LABS

Research Fibre Analyst

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jr.labs@yahoo.in

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

TEST REPORT

Ref No:- EEL/D/P(3)S(2)-VIL/21 **Date: 25.03.2021**

Name & Address of Customer : M/s. Visaka Industries Ltd.
Paramanpur, Sambalpur
Odisha.

Sample Registration No : EM/12/D(P&S)/21

Date of sample received : 20.03.2021

Date of Performance : 20.03.2021 to 22.03.2021

PERSONAL/STATIC ANALYSIS REPORT

Sl. #	Date of Sampling	Sampling Point	Sampling Condition	Dust Concentration
1.	19.03.2021	**Personal/01** Drum Cutter Off	Mr. Bimal Kallu was carrying the sampler at the time of working in the area Drum Cutter Off.	< 0.1 0.062
2.	19.03.2021	**Personal/02** Ball Mill Section	Mr. Timan Kumbhar was carrying the sampler when engaged in operation of Ball Mill including feeding of broken AC sheets	< 0.1 0.068
3	19.03.2021	**Personal/03** Edge Running Mill – BOD	Mr. Sunil Kisan was carrying the sampler when feeding fiber bags through the belt conveyor. Dust collector in operation. Wet mopping done.	< 0.1 0.079
4.	19.03.2021	**Static/01** Sheet Loading Area/Dispatch	The Static sample was collected at Sheet Loading Area/Dispatch area during loading of different size of AC Sheets in to the Truck.	< 0.1 0.066
5.	19.03.2021	**Static/02** Fiber Go down	Fiber bags are stored properly. Torn bags are sealed.	< 0.1 0.068

Earth & Environment Laboratory

For M/s Earth and Environment Laboratory

(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
OCTOBER – 2020

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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	27-10-2020	411-2020-10-10-1	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 0.033
2	27-10-2020	412-2020-10-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.041
3	27-10-2020	413-2020-10-10-25	Filing Area	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

05-NOVEMBER-2020
PARAMATHI – T.N.

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

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OCTOBER – 2020

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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	27-10-2020	414-2020-10-10-11	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 0.029
2	27-10-2020	415-2020-10-10-24	Loading Platform	The static sample is collected from loading section. The plant was in production of Fibre cement sheets.	< 0.1 0.025

05-NOVEMBER-2020
PARAMATHI – T.N.

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS NOVEMBER – 2020

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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	17-11-2020	485-2020-11-10-1	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 0.025
2	17-11-2020	486-2020-11-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.049
3	17-11-2020	487-2020-11-10-19	Moulding Section	The worker carrying the sampler making AVS 10 moulded articles at moulding section. He was using PPE's.	< 0.1 0.041
4	17-11-2020	488-2020-11-10-3	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 0.020

05-DECEMBER-2020
PARAMATHI – T.N.

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS NOVEMBER – 2020

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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	17-11-2020	489-2020-11-10-11	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

05-DECEMBER-2020
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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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	08-12-2020	503-2020-12-10-1	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	08-12-2020	504-2020-12-10-3	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	08-12-2020	505-2020-12-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.037

16-DECEMBER-2020
PARAMATHI – T.N

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS DECEMBER – 2020

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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	08-12-2020	506-2020-12-10-11	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 0.090
2	08-12-2020	507-2020-12-10-24	Loading Platform	The static sample is collected from loading section. The plant was in production of Fibre cement sheets.	< 0.1 0.065

16-DECEMBER-2020
PARAMATHI – T.N

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS
JANUARY – 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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	14-01-2021	45-2021-1-10-1	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 0.049
2	14-01-2021	46-2021-1-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.057
3	14-01-2021	47-2021-1-10-19	Moulding Section	The worker carrying the sampler making AVS 10 moulded articles at moulding section. He was using PPE's.	< 0.1 0.074

27-JANUARY-2021
PARAMATHI – T.N

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS JANUARY – 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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	14-01-2021	48-2021-1-10-11	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 0.041
2	14-01-2021	49-2021-1-10-24	Loading Platform	The static sample is collected from loading section. The plant was in production of Fibre cement sheets.	< 0.1 0.033

27-JANUARY-2021
PARAMATHI – T.N

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AN EXTRACT OF WORK ZONE FIBRE COUNTING RESULTS FEBRUARY – 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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	10-02-2021	76-2021-2-10-1	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	10-02-2021	77-2021-2-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.090
3	10-02-2021	78-2021-2-10-25	Filing Area	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

22-FEBRUARY-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 FEBRUARY – 2021

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

Flow Rate : 1.0 LPM.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	10-02-2021	79-2021-2-10-11	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 0.057
2	10-02-2021	80-2021-2-10-24	Loading Platform	The static sample is collected from loading section. The plant was in production of Fibre cement sheets.	< 0.1 0.025

22-FEBRUARY-2021
PARAMATHI – T.N

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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 MARCH – 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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (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	12-03-2021	149-2021-3-10-1	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	12-03-2021	150-2021-3-10-19	Moulding Section	The worker carrying the sampler making AVS 10 moulded articles at moulding section. He was using PPE's.	< 0.1 0.065
3	12-03-2021	151-2021-3-10-16	Wet Ball Mill	The worker carrying the sampler was engaged in operation of cutting the AC broken sheets at wet ball mill section. He was using PPE's.	< 0.1 0.049

31-MARCH-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 MARCH – 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.

Sampling Duration : 60 Minutes.

Specifications : As Per A I A – R T M 1 (IS : 11450) Method.

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

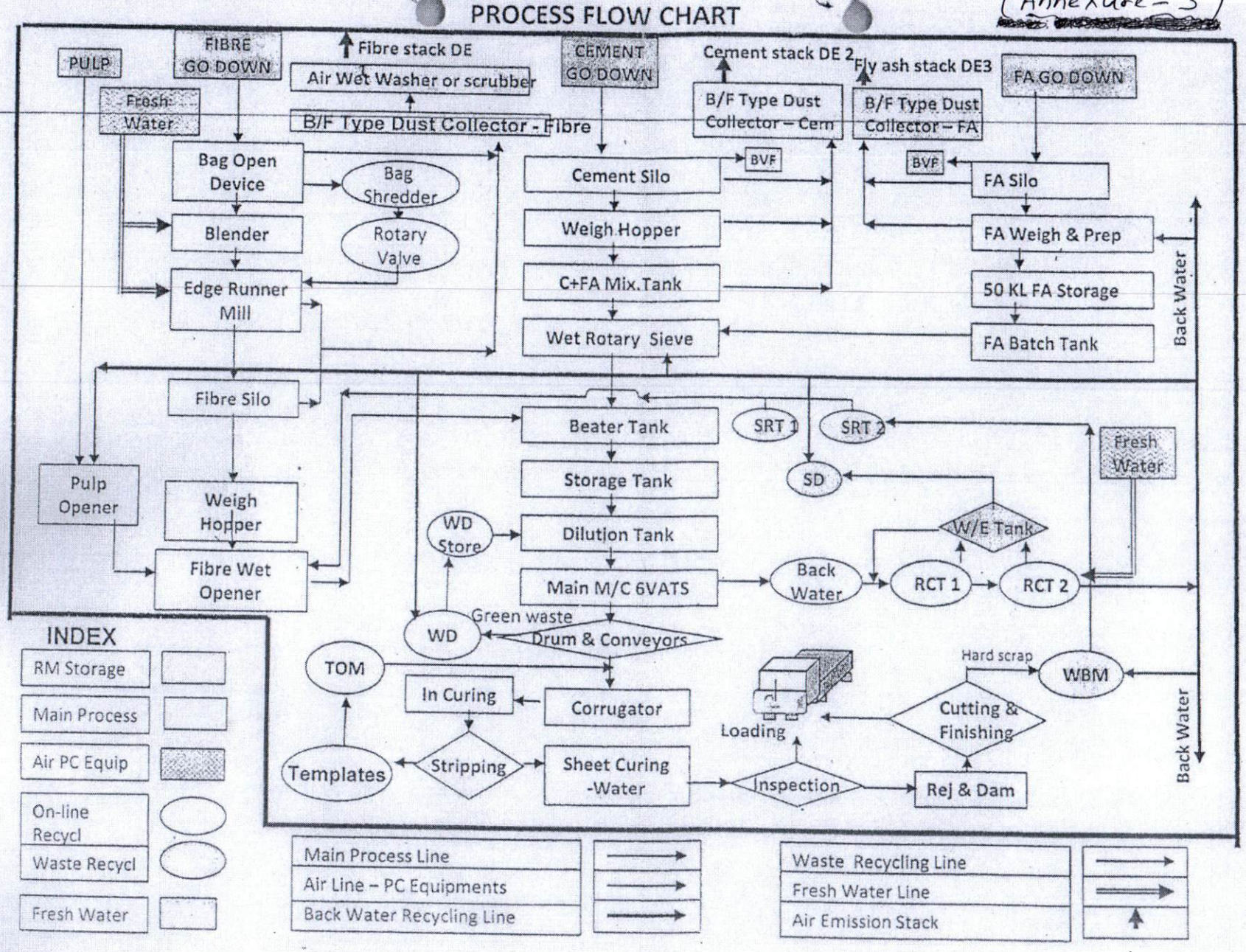
Sl. No	Date of Sampling	Sampling Code	Sampling Location	Sampling Condition	Dust Con. Fibre/cc of air
STATIC SAMPLING					
1	12-03-2021	152-2021-3-10-11	Fibre Godown	The static sample is collected and two grades of palletized fibre bags are stored in fibre godown. Torn bags are taped. Wet mopping system done.	< 0.1 0.025
2	12-03-2021	153-2021-3-10-24	Loading Platform	The static sample is collected from loading section. The plant was in production of Fibre cement sheets.	< 0.1 0.016

31-MARCH-2021
PARAMATHI – T.N

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

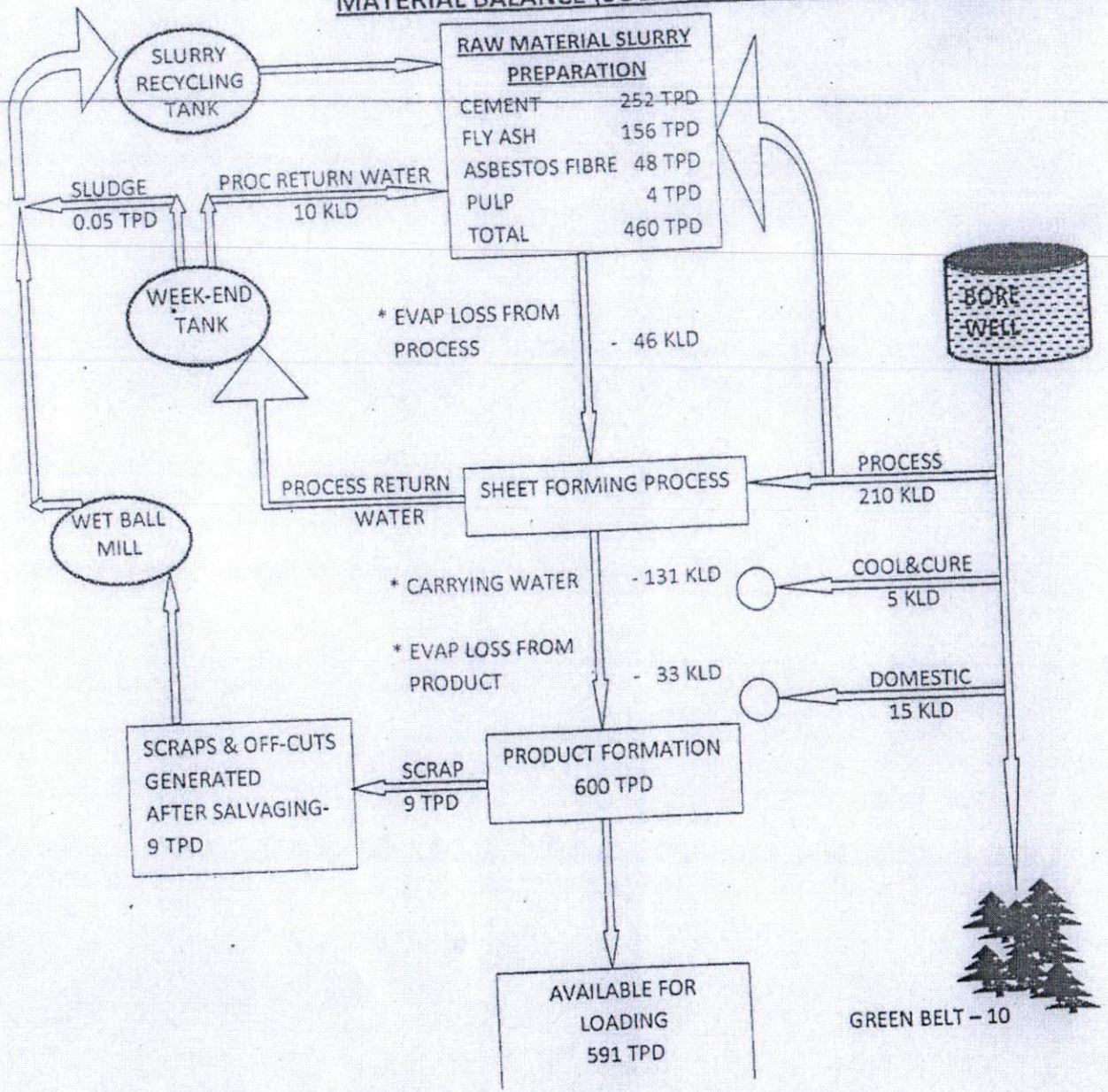
(Annexure – 3)

PROCESS FLOW CHART



(Annexure – 4)

MATERIAL BALANCE (SOLIDS & WATER) in TPD & KLD



Visaka industries limited (Sambalpur)

SOLID WASTE & WET WASTE GENERATION/CONSUMPTION DETAILS FY 2020-21

Period-- Oct'20 to Mar'21

MFG MONTH	GROSS PRODUCTION	HGW GENERATION	HGW CONSUMPTION	PROCESS SLUDGE GENERATION	PROSESS SLUDGE CONSUMPTION	TOTAL CONSUMPTION
Oct'20	7214.514	20.66	67.182	0.822	0.822	68.004
Nov'20	6044.831	47.90	41.911	1.014	1.014	42.925
Dec'20	8445.673	44.32	56.557	1.068	1.068	57.625
Jan'21	9514.633	57.50	66.310	1.290	1.290	67.600
Feb'21	10172.261	19.73	65.040	1.260	1.260	66.300
Mar'21	11819.206	16.17	54.522	1.788	1.788	56.310
Total	53211.118	206.285	351.5215	7.242	7.242	358.764

(Annexure – 5)

People & Business

24 Mickiewicza Str, 62-500 Konin
www.konimpex.com

KonimpeX

2020-10-27

QUALITY CERTIFICATE

REF Invoice No: F/TR/1102020100047
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. 11167 dtd. 2020-08-18

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
450 BAGS 22 500 KG NET EACH ONE CONTAINER P.P. BAGS 50 KG EACH ONE Stretch Wrapped / Thermo Shrink Film onto pallets of 1.25 MT (25 bags) – 10 pallets Stretch Wrapped / Thermo Shrink Film onto pallets of 1.00 MT (20 bags) – 10 pallets	TCKU 1477827	450	22 500	23 339
	TEMU 2123709	450	22 500	23 340
	TEMU 2764087	450	22 500	23 340
	TRHU 2399460	450	22 500	23 340
	TRHU 2692490	450	22 500	23 339
	TRLU 9609295	450	22 500	23 340
	ZIMU 1043963	450	22 500	23 340
	ZIMU 1436657	450	22 500	23 339
	Total	3 600	180 000	186 717

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

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: 360 000 PLN

People & Business
24 Mickiewicza Str. 62-500 Konin
www.konimpex.com

KonimpeX

2020-03-20

QUALITY CERTIFICATE

REF Invoice No: F/TR/1102020030051
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 5-65
P/O No: PO NO. 10481 dtd. 2020-01-18

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
P.P. bags 50 kg each one Stretch Wrapped / Thermo Shrink Film onto pallets of 1.25 MT (25 bags) – 10 pallets Stretch Wrapped / Thermo Shrink Film onto pallets of 1.00 MT (20 bags) – 10 pallets	EITU0519643	450	22 500	23 340
	EITU0556354	450	22 500	23 340
	MAGU2464556	450	22 500	23 340
	TEMU0819576	450	22 500	23 340
	Total	1 800	90 000	93 360

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
A Pawlak

Signature

(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 pandamic situation.

(Annexure-7)

Varsha-Jal TM
rainwater harvesting

COMPLETION REPORT

Date: 10/11/16

Name of Customer : - Visaka Industries Ltd Order No: -

Address of Customer : Parmanpur, Sambalpur - (Odisha)

Dist : Sambalpur State : odisha

This is to report that 50 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.

10/11/16

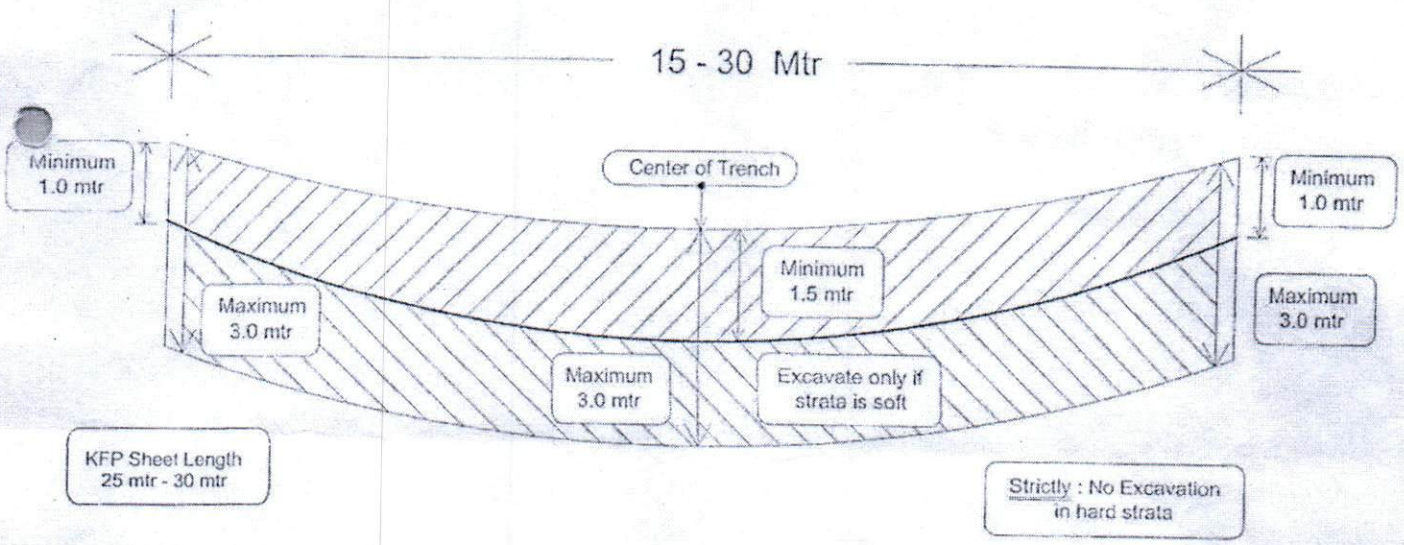
(KRWHPL Rep. Sign)

(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.61, Pannalal Nagar, Aurangabad - 431 005 (Maharashtra)
☎ : +91-9371780701 E-mail: info@varshajal.com Website: www.varshajal.com

Varsha-Jal™
rainwater harvesting

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

"KFP Drops Saves Crops"
KFP
Rainwater Harvesting

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-10)

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

ULR- TC-555018000000407P

TEST REPORT

TR #: EEL/42/21
DATE: 25.03.2021

Discipline	:	Chemical Testing
Group	:	Atmospheric Pollution
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	(I) Fly Ash Feeding System (II) Cement Feeding System (III) D G Set
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	EM-04/SEM(I-III)/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 23.03.2021
Description of Sample	:	After Sampling and monitoring at site, three nos. of thimbles containing dust particle were received in good condition.
Test Method	:	Gravimetric Method

A. General Information About

Stack Attached to	:	(I) Fly Ash Feeding System, (II) Cement Feeding System & (III) DG Set
Shape of stack	:	Circular
Material of Construction	:	M.S
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

TEST RESULT

Sl. #	Test Parameters	Analysis Result	Units	Test Protocol	CPCB Standard
(I) Fly Ash Feeding System	Particulate matter	56.18	mg/Nm^3	IS:11255 (Pt-1) 1985, (RA 2014)	100
(II) Cement Feeding System	Particulate matter	62.72	mg/Nm^3	IS:11255 (Pt-1) 1985, (RA 2014)	100
(III) DG Set	* Smoke in HSU	38.62	HSU	IS:11255 (Pt-1) 1985, (RA 2014)	75

Earth & Environment Laboratory

Ms. Ranjita Mishra
Authorized Signatory

Note: 1. The test report shall not be reproduced partially or fully, without written approval of the laboratory, in the court of Law.
2. The results relates only to the items tested.
*3. The tests marked with an * are not accredited by NABL.*

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

TR #: EEL/41/21
DATE: 25.03.2021

ULR- TC-555018000000406F
TEST REPORT

Certificate No. : TC - 5550

Discipline	:	Chemical Testing
Group	:	Atmospheric Pollution
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	(I)- Main gate (II)- Adjacent to guest house (III)- Dispatch yard (IV)- Adjacent to New Fiber godown
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	EM-03/AAQ(I-IV)/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 23.03.2021
Description of Sample	:	After Monitoring & Sampling at site, the 4 nos. of filter paper containing dust particle and 8 nos. of liquid gaseous samples were received in good condition.

TEST RESULT

Sl. #	Test Parameters	Ambient Air Analysis Report				Units	Test Protocol	Remarks
		(I) Main gate	(II) Adjacent to guest house	(III) Dispatch Yard	(IV) Adjacent to New fiber go down			CPCB standard
1.	PM_{10}	74.23	63.27	71.16	63.34	$\mu g/m^3$	IS 5182 (Pt-23) 2006, (RA 2017)	100
2.	SO_2	30.46	26.25	30.33	28.25	$\mu g/m^3$	IS:5182(Pt2)2001, (RA- 2017)	80
3.	NO_X	25.25	24.34	25.27	23.26	$\mu g/m^3$	IS: 5182 (Pt-6) 2005, (RA- 2017)	80

Earth & Environment Laboratory

Ms. Ranjita Mishra
Authorized Signatory

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NABL Accredited Laboratory

Bhubaneswar

TR # : EEL/F-40/21
DATE:25.03.2021

ULR- TC-555018000000000405F

TEST REPORT

Certificate No. : TC - 5550

Discipline	:	Chemical Testing
Group	:	Atmospheric Pollution
Name & Address of Customer	:	M/s Visaka Industries Ltd. Paramanpur, Sambalpur Odisha.
Sample drawn by	:	Laboratory
Sampling Location	:	1. Near Main gate 2. Near Adjacent to guest house 3. Near Dispatch yard 4. Near fiber godown 5. Near Administrative building 6. Near safety & Gasuring office
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	NF-11/EM/(I-VI)/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 to 22.03.2021
Description of Sample	:	The Noise monitoring was carried out at site.

TEST RESULT

Sl. #	Test Parameters	Analysis Result						Units	Test Protocol	Remarks
		Near Main gate	Near Adjacent to guest house	Near Dispatch yard	Near fiber go down	Near Administrative building	Near safety & Gasuring office			Standard (leq in dBA)
1.	Noise Level (Day Time) (6.00 AM to 10 PM)	63.22	64.24	61.27	63.35	62.32	64.35	dB(A)	IS:9989-1981RA 01	75
2.	Noise Level (Night Time) (10 PM to 6.00AM)	62.33	61.17	59.72	60.43	59.27	61.22	dB(A)	IS:9989-1981RA 01	70

Earth & Environment Laboratory

Ms.Ranjita Mishra
Authorized Signatory

Note: 1. The test report shall not be reproduced partially or fully, without written approval of the laboratory, in the court of Law.
2. The results relates only to the items tested.
*3. The tests marked with an * are not accredited by NABL.*

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NABL Accredited Laboratory

Bhubaneswar

TR #: EEL/44/21
DATE: 25.03.2021

ULR- TC-555018000000409F

TEST REPORT

Certificate No. : TC - 5550

Discipline	:	Chemical Testing
Group	:	Water
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	Bore Well - I & Bore Well - II
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	28(I-II)/GW/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 25.03.2021
Description of Sample	:	Two nos. of Ground water sample quantity 5 liters each was received in PG bottle with properly and perfect Condition.

TEST RESULT

SL #	Test Parameters	Analysis Result		Units	Test Protocol	CPSB Standard
		BW- I	BW- II			
1.	Colour	Colourless	Colourless	Hazen	IS:3025 (Pt-4) 1983 RA-2017	5
2.	Odour	Agreeable	Agreeable	---	IS:3025 (Pt-5) 1983 RA-2018	Un-objectionable
3.	Taste	Agreeable	Agreeable	---	APHA, 23rd Ed 2160, 2-22,2-23	Agreeable
4.	Turbidity	3.5	3.7	NTU	IS : 3025 (Part 10) 1984,RA-2017	05
5.	PH Value	7.2	7.3	---	IS:3025(Pt-II-2004 RA-2017	6.5 – 8.5
6.	Total hardness as $CaCo_3$	161	160	mg/l	IS 3025 (Part 21) : RA 2019	200
7.	Iron (as Fe)	0.05	0.06	mg/l	APHA 23rd Ed. 3111C	0.3
8.	Chloride as Cl	47.6	48.8	mg/l	IS:3025, pt-32-1988, RA-2019	250
9.	Fluoride (as F)	0.54	0.52	mg/l	IS:3025(Pt60):2008 RA 2019	1.0
10.	Total Dissolved Solids	337	344	mg/l	IS:3025, pt-16-1984, RA-2017	500
11.	Calcium as Ca	33	36	mg/l	IS 3025 (Part 40) : 1991, RA-2019	75
12.	Magnesium as Mg	14	16	mg/l	IS 3025(Pt 46), 1994, RA-2017	30
13.	Copper as Cu	<0.03	<0.04	mg/l	APHA 23rd 2017- 3111B	0.05
14.	Manganese	0.026	0.027	mg/l	APHA 22nd Ed., 3500, 3-85,	0.1
15.	Sulfate as SO_4	85	85	mg/l	IS:3025, pt-24-1986, RA-2019	200
16.	Nitrate as NO_3	26	29	mg/l	APHA 23rd Ed 4500, 4-126-127	45
17.	Phenolic Compound (as C_6H_5OH)	<0.001	<0.001	mg/l	IS 3025 (Part 43) :1992. Reafmd-2019	0.001
18.	Mercury as Hg	<0.001	<0.001	mg/l	IS 3025 (Part 48) : 1994, RA-2019	0.001
19.	Cadmium as Cd	0.002	0.002	mg/l	APHA 23rd Ed, 3500, 3-107	0.003
20.	Selenium as Se	0.008	0.007	mg/l	APHA 23rd Ed.3500, 3-95-96	0.01
21.	Arsenic as As	<0.04	<0.03	mg/l	IS: 3025 (Part 37) – 1988,RA-2019	0.05
22.	Cyanides as CN	Nil	Nil	mg/l	APHA 23rd Ed 4500, 4-48	0.05
23.	Lead as Pb	0.006	0.004	mg/l	APHA 23rd Ed 2017, 3111B	0.01
24.	Zinc as Zn	0.065	0.071	mg/l	IS 3025 (Part 49) :1994, Reafmd-2019	5
25.	Anionic Detergent (as MBAS)	<0.16	<0.13	mg/l	APHA 23rd Ed	0.2
26.	Chromium as Cr^{6+}	<0.04	<0.03	mg/l	APHA 23rd Ed. 3500, 3-65,3-70	0.05
27.	Mineral oil	<0.03	<0.04	mg/l	IS 3025 (Part 39)1:1991, RA-2014	0.5
28.	Alkanity	141	148	mg/l	IS: 3025 (Part 23) – Reafmd-2019	200
29.	Aluminium as Al	0.01	0.01	mg/l	APHA 23rd Ed. 2017, 3111 D	0.03
30.	Boron as B	0.08	0.07	mg/l	IS:3025 (part-57) :2005 RA-2017	0.5

Earth & Environment Laboratory

Ms.Kanika Mishra
Authorized Signatory

Note: 1. The test report shall not be reproduced partially or fully, without written approval of the laboratory, in the court of Law.
2. The results relates only to the items tested.
*3. The tests marked with an * are not accredited by NABL.*

Earth & Environment Laboratory

NABL Accredited Laboratory

Bhubaneswar

TR #: EEL/45/21
DATE: 25.03.2021

ULR- TC-555018000000000410F

TEST REPORT

Certificate No. : TC - 5550

Discipline	:	Chemical Testing
Group	:	Water
Name & Address of Customer	:	M/s. Visaka Industries Ltd. Paramanpur, Sambalpur. Odisha
Sample drawn by	:	Laboratory
Sampling Location	:	1. Canal Near Plant & 2. Pond Near plant
Sampling Date	:	19.03.2021
Sampling Plan Ref No	:	R-7.3-35
Sample Registration No	:	29(I-II)/SW/21
Date of sample received	:	20.03.2021
Date of Performance	:	20.03.2021 To 25.03.2021
Description of Sample	:	Two nos. of Surface Water samples quantity 5 Liters each was received in PG bottle with properly and perfect condition.

TEST RESULT

Sl. #	Test Parameters	Analysis Result		Units	Test Protocol	CPCB Standard
		Canal Near Plant (I)	Pond Near Plant (II)			
1.	Colour	Colourless	Colourless	Hazen	IS:3025 (Pt-4) 1983 RA-2017	<10
2.	Odour	Odourless	Odourless	---	IS:3025 (Pt-5) 1983 RA-2018	<3
3.	Total Suspended Solids	6.5	6.7	mg/l	APHA, 23rd2017,2540 D	<10
4	PH Value	7.1	7.3	---	IS:3025(Pt-11)1983RA-2017	6.5-8.5
5.	Temperature	25.6	27.3	°C	APHA, 23rd Ed 2017, 2550,	5°C-50°C
6.	Oil & Grease	NIL	NIL	mg/l	IS 3025 (Part 39)1:1991, RA-2019	10
7.	Total Residual Chloride	0.4	0.6	mg/l	IS:3025,Part-26-1986, RA-2019	1.0
8.	Ammonical Nitrogen as NH_3	0.03	0.04	mg/l	IS : 3025 (Part 34) – 1988, RA-2019	<0.05
9.	Total Kjeldahl Nitrogen as N	0.5	0.6	mg/l	APHA 23rd 2017 4500N_{org} - A,4-138	<1
10.	Free Ammonia as NH_3	0.7	1.1	mg/l	APHA 23rd 2017 4500	5.0
11.	BOD (3days at 27° C	2.1	2.2	mg/l	IS:3025-pt-44-1993 R.A.2019	<3
12.	COD	5.3	6.4	mg/l	APHA, 23rd Ed 5220 B	<10
13.	Arsenic (as As)	0.007	0.008	mg/l	IS : 3025 (Part 37) – 1988, RA-2019	<0.01
14.	Mercury (as Hg)	0.003	0.004	mg/l	IS 3025 (Part 48) : 1994, RA-2019	<0.005
15.	Lead (as Pb)	0.04	0.03	mg/l	APHA 23rd Ed 2012, 3111B	<0.05
16.	Cadmium (as Cd)	BDL	BDL	mg/l	APHA 23rd Ed, 3500, 3-107,	<0.001
17.	Chromium (as Cr^{6+})	0.03	0.02	mg/l	APHA 23rd Ed. 3500, 3-71,3-72	<0.05
18.	Total Chromium as Cr	0.02	0.03	mg/l	APHA 23rd Ed. 3500, 3-69,3-70	<0.05
19.	Copper (as Cu)	0.05	0.7	mg/l	APHA 23rd 2012- 3111B	<1.0
20.	Zinc (as Zn)	1.8	2.3	mg/l	IS 3025 (Part 49) : 1994, Reaafmd-2019,	<5.0
21.	Selenium (as Se)	0.009	0.007	mg/l	APHA 23rd Ed.3500, 3-95-96,	<0.01
22.	Nickel (as Ni)	0.008	0.007	mg/l	APHA 23rd Ed 3500	<0.01
23.	Cyanide (as CN)	0.03	0.02	mg/l	APHA 22nd Ed 4500, 4-48,	<0.05
24.	Fluoride (as F)	0.7	0.7	mg/l	IS:3025(Pt-60)RA2019	<1.0
25.	Phosphate as P	0.5	0.6	mg/l	APHA, 23rd Ed,2012, 4500-P	<0.7
26.	Sulphide as S	0.5	0.5	mg/l	IS:3025, pt-29-1986, RA-2019	<1.0
27.	Phenolic compounds (as C_6H_5OH)	Nil	Nil	mg/l	IS 3025 (Part 43) : 1992, RA-2019	<0.001
28.	Manganese (as Mn)	0.7	0.8	mg/l	APHA 23rd Ed., 3500, 3-87,	<1.0
29.	Iron (as Fe)	0.132	0.147	mg/l	APHA 23rd Ed. 3111D	<0.3
30.	Vanadium as V	0.05	0.07	mg/l	APHA, 23rd Ed.3500, 3-103-104	<0.1
31.	Nitrate (NO_3)	6.8	6.2	mg/l	APHA 23rd Ed 4500, 4-126-127	<50

Earth & Environment Laboratory

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Authorized Signatory

Note: 1. The test report shall not be reproduced partially or fully, without written approval of the laboratory, in the court of Law.
2. The results relates only to the items tested.
*3. The tests marked with an * are not accredited by NABL.*