



Project report on

Assessment Report of Health and Wellness Impacts of a Furniture Product as per “ANSI/BIFMA e3-2019 Furniture Sustainability Standard” for AFC Furniture Solutions, West Greater Noida, UP, India

July 2024



**Department of Civil Engineering
Indian Institute of Technology Kharagpur
Kharagpur, West Bengal – 721302**

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Submitted by

Brajesh Kumar Dubey

Principal Investigator

Professor, Department of Civil Engineering & Chairperson School of water resources

Indian Institute of Technology, Kharagpur, West Bengal - 721302



Submitted to

AFC Furniture Solutions

West Greater Noida, Uttar Pradesh - 201310



Year: July 2024

CERTIFICATE

This is to certify that the report on “**Assessment Report of Health and Wellness Impacts of a Furniture Product as per “ANSI/BIFMA e3-2019 Furniture Sustainability Standard” for AFC Furniture Solutions, West Greater Noida, UP, India**”, is original and based on the primary data from client and relevant secondary data sources. The data sources are duly referred and acknowledged.

Date: 22.07.2024

Prof. Brajesh Kumar Dubey

Principal Investigator

IIT Kharagpur

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1. Introduction

1.1. Background

To avoid the greenwashing in furniture manufacturing, Business & Institutional Furniture Manufacturers Association (BIFMA) came up with ANSI/BIFMA e3 Furniture Sustainability standard. This is an American National Standard for furniture sustainability based on rigorous research from industry and academia, framed by a joint consensus between BIMA and National Sanitation Foundation (NSF) International. This standard is the only furniture standard of its kind with a publicly disclosed Chemicals of Concern list. ANSI/BIFMA e3 Furniture Sustainability standard is a multi-attribute standard focused on analyzing various levels of environmental, health & wellness and social aspects throughout the supply chain to address the triple bottom line of sustainability. In this report, the elaboration on standard for **‘health and wellness impacts’** are presented.

Health and Wellness Impacts includes all the impacts on human health by the product or process, which includes the health and safety of the labour in manufacturing unit and the wellness of the end users of the product. This element is briefed in section 7 of ANSI/BIFMA e3 – 2019 standard and consists of three prerequisites and 38 additionally achievable points.

This study conducted a health and wellness impact assessment for AFC Furniture Solutions, India, focusing specifically on their product - DeskPro. Subsequent subsections will detail the company profile (Section 1.2) and product profile (Section 1.3). This will be followed by a summary of the scope of work (Section 1.4) and methodology (Section 1.5). Sections 2, 3, and 4 will present assessment records at the organizational, product, and facility levels, respectively. Finally, a summary of the assessment findings is presented.

1.2. Company Profile

AFC, with a 15-year history, is a leading provider of modular furniture solutions, rooted in innovation, sustainability, and exceptional service. Originating as a bootstrap organization in 2008, AFC quickly expanded its operations to meet the growing demand for ergonomic furniture solutions across India.

Driven by a commitment to address delivery concerns in the industry, AFC established an in-house manufacturing facility within three years, scaling up production to accommodate the

needs of clients nationwide. In 2019, the company further expanded its capabilities, achieving the capacity to produce over 15,000 workstations and 12,000 chairs monthly.

AFC's dedication to sustainability is ingrained in its core, with all products manufactured responsibly within India, utilizing cutting-edge technologies to meet global quality standards. Recently, AFC acquired prominent brands including Livo, Vibrant, and X-Bench, previously owned by Wipro Enterprises' furniture business, further solidifying its position in the market.

The company's agile approach enables swift customization of solutions to meet the diverse requirements of clients, ranging from Fortune 500 corporations to educational institutions and government bodies. With a workforce of over 600 individuals, AFC fosters a culture of collaboration, innovation, and continuous learning, ensuring constant improvement in its offerings.

Operating from a vast manufacturing facility spanning 2.5 lakh sq.ft., AFC maintains the shortest delivery timelines in the industry, while upholding stringent quality and regulatory standards. Strategic enhancements in supply chain operations and logistics, informed by years of experience serving clients across various regions, have further strengthened AFC's capabilities.

1.3. Product Profile

AFC's DeskPro workstation presents a sophisticated and adaptable workspace solution designed to boost productivity and enhance the atmosphere in office settings. Integrating a range of features and design elements, the DeskPro fosters an efficient and visually pleasing workspace environment. With its customizable configurations, the DeskPro allows for tailored adjustments to meet specific workspace requirements and preferences, catering to diverse tasks and working styles.

Key features of the DeskPro workstation include:

- **Effortless Mobility:** The DeskPro's cleverly engineered legs enable easy mobility, facilitating quick rearrangements to adapt to changing work needs and collaborative activities.

- **Ample Legroom:** Designed with user comfort and workspace ergonomics in mind, the DeskPro workstation ensures generous legroom, promoting a comfortable and productive working environment.
- **Simple Installation:** Known for its ease of installation, the DeskPro system offers a significant advantage for businesses seeking swift workspace setup or reconfiguration.
- **Versatile Leg Designs:** With options such as open, loop, and slant legs, the DeskPro workstation provides versatility to match the overall aesthetics of any office space. Additionally, customizable single or dual-tone leg options enhance personalization and design flexibility.
- **Screen Variety:** DeskPro offers a selection of screen materials including fabric, glass, and sandwich glass, impacting both visual appeal and functionality, while providing privacy when needed.
- **Power & Cable Management:** Featuring seamless power and cable management, the DeskPro workstation ensures a tidy and organized workspace, reducing clutter, enhancing safety, and improving overall office aesthetics.
- **Material Customization:** The DeskPro workstation can be customized with various metal and laminate shades, allowing for seamless integration with the office's color scheme and design preferences.

Overall, AFC's DeskPro workstation stands as a versatile and meticulously designed solution for modern office environments. Emphasizing flexibility, organization, and aesthetics, its adaptability to various configurations and design preferences contributes to a more productive and visually appealing workspace.

1.4. Scope of work

The scope of work includes:

- Evaluation of Compliance Status, Compliance and Risk Policies
- Chemical risk policy, Chemical Management Plan and Impact Reduction Strategy development
- Product Level Chemical Inventory, Assessment and Optimization for the furniture product – primary and secondary data collection as required

- Chemical Assessment and Score Calculations for product level and facility level based on Globally Harmonised System (GHS) of classification

1.5. Methodology

To initiate the analysis, a questionnaire was created and shared with the client to collect information on compliance status and the presence of chemical risk policies and management plans. For organizational level, the compliance with several regulations for environment, health & safety was assessed through documents, test reports and visit to the plant.

The client extended technical assistance in compiling inventory data essential for conducting health and wellness impact analysis. They shared chemical data from their facilities and acquired additional information from their vendors as needed. The assessment is based on data provided by AFC, and secondary data available for SDS of same commercial chemical from different suppliers. Assessment and optimization of chemicals in DeskPro was performed by GHS classification for chemical concentration level above 100 ppm for each homogeneous material totalling up to 99% of product weight. Also, assessment for all chemicals in DeskPro was performed to evaluate the presence of targeted chemical eliminations as per BIFMA e3 guidelines.

Additionally, this report includes emissions testing results for the product obtained by client from the labs of TÜV Rheinland, China.

The methodology for data collection, calculations and assessment was in accordance with the BIFMA e3 guidelines for each phase of the assessment. Relevant details are available in specific sections and additional information can be found in appendices.

2. Organization level assessment

2.1. Compliance Review

Based on a thorough evaluation of AFC's practices and processes related to regulatory compliance it can be stated that the organization has exhibited a proactive approach in ensuring adherence to health and safety standards set forth by regulatory bodies. AFC also ensures to check for compliance and certifications for their approved suppliers. The organization abide by following list of regulations and showcase below certifications. Supporting documentation for compliance conformance and certificates are attached in Appendix A.

Regulations and Licences:

All relevant local, state, and federal health and safety regulations have been complied by the organizations. Please note the test reports are on the name of E-way Furniture System Pvt. Ltd., which is sister company of AFC Furniture System Pvt. Ltd. and have same plot address registered.

- Emissions to air within limits per Environmental (Protection) Act
- Emissions to water within limits per Environmental (Protection) Act
- Noise levels for DG Sets within limits for Environmental (Protection) Act
- Drinking water specifications as per WHO drinking water standards
- Hazardous waste management in accordance with HWM Rules, 2016, guided by UPPCB
- Solid waste management in accordance with SWM Rules, 2016
- Factory license under Factory Act, 1948

Policies and Certifications:

- Quality Management System: ISO 9001: 2015 Certification [from 2023-10-30 to 2026-10-29]
- Environment Management System - ISO 14001: 2015 Certification [from 2023-09-26 to 2026-09-25]
- Occupational Health & Safety Management System - ISO 45001: 2018 Certification [from 2023-09-26 to 2026-09-25]
- Energy Management System - ISO 50001: 2018 Certification [from 2023-10-23 to 2026-10-22]
- Forest Stewardship Council (FSC) Certification [from 2023-11-08 to 2028-11-07]
- EHS policy addressing Occupational Health & Safety management [Effective from 2023-04-01]

2.2. Chemical Risk Policy

With due consultation with AFC, key chemical & risk policy was developed and shared with AFC. The policy covers the minimum elements highlighted in **ANSI/BIFMA e3-2019, 7.1.2**. The policy had taken into effect at organization level and communicated to relevant stakeholders. Chemical risk policy to be made publicly available through company's website.

2.3. Chemical Management Plan

In consultation with AFC, a comprehensive Chemical Management Plan (CMP) is developed, which needs to be implemented in organization to ensure better management and tracking of chemicals and its impact. The plan should be communicated to all relevant stakeholders as guided in the CMP document.

2.4. Chemical Impact Reduction Strategy

An Impact reduction strategy was integrated in CMP, which must be followed to reduce the overall impact. The impact reduction strategy is subject to continuous improvement.

3. Product level assessment

3.1. Product Level Chemical Inventory, Assessment and Optimization

The chemical assessment was performed for all chemicals down to 100 ppm in homogeneous materials totalling up to 99% weight of the product. The pathway followed for full material inventory, assessment and optimization is highlighted in Figure 1. The weight distribution for homogeneous material in the product is presented in Table 1.

DeskPro was chosen as representative of a group of products due to its highest sales. Furthermore, for the representative product sample, the powder coating shade was chosen as POWEDER AKZONOBEL TEXTURE OF SNOW WHITE for the maximum sale within the DeskPro product range.

Table 2 presents the full material inventory with chemical concentration distribution across homogeneous materials. Table 3 represents the Hazard information identification for all chemicals above 100 ppm in the finished product. Table 4 is added to present the alternate material available for powder coating variations in product. Lastly in this section, Table 5 presents the evaluation for No GHS Cat 1 chemicals for hazard cases: Reproductive Toxicity, Carcinogenicity, Germ Cell Mutagenicity. Appendix B contains all the relevant information and data upon which calculations were performed.

Table 6 presents list and details of chemicals above 1000 ppm in the product which must be publicly disclosed for eligibility of credits under section 7.3 of ANSI/BIFMA e3 2019 guidelines.

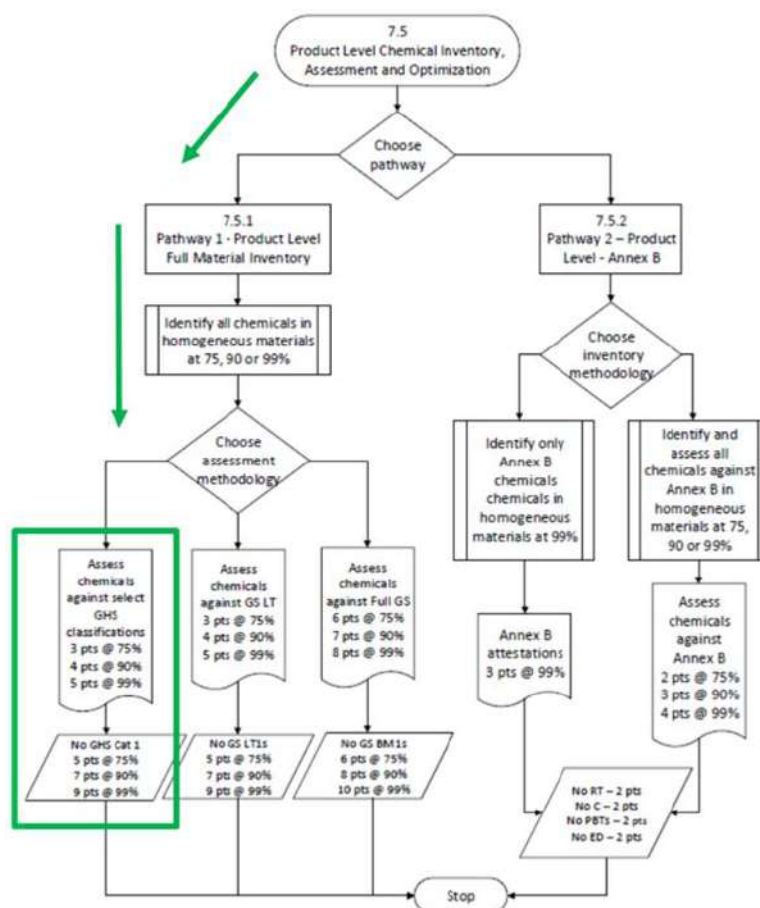


Figure 1: Pathway selected for product assessment

Table 1: Weight distribution for homogeneous materials in DeskPro

Material Type	Material	Weight (kg)	Weight (%)
Wood	Particle board	13.10	24.62
	MDF	5.00	9.39
Metal	Aluminium	6.90	12.96
	CR tube	7.20	13.53
	CRCA sheets	18.50	34.77
	GI steel sheets	2.00	3.75
Other	Packaging	0.50	0.93
Total weight of product		53.20	100
Total weight of wood		18.10	34.02
Total weight of metal		34.60	65.03
*Weight (Wood + Metal)		52.70	99.06
*Chemical assessment is performed up to 99% of the total weight of the finished product			

Table 2: Concentration of chemicals in each homogeneous component and the final DeskPro product

Material Type	Chemical	Particle Board (ppm)	MDF (ppm)	Aluminium (ppm)	CR Tube (ppm)	CRCA Sheet (ppm)	GI Sheet (ppm)	Finished product (ppm)	More than 100 ppm	More than 1000 ppm
Wood	TARPIN OIL	28865.01	11017.18	0	0	0	0	749.67	YES	NO
	JOWAT HOTMELT 280.31 (WHITE)	9621.67	3672.39	0	0	0	0	249.89	YES	NO
	HOT MELT GLUE 280-50	2749.05	1049.26	0	0	0	0	71.40	NO	NO
	PARAFFIN WAX	10000	0	0	0	0	0	2462.41	YES	YES
	UREA	36000	0	0	0	0	0	8864.66	YES	YES
	MELAMINE	26500	0	0	0	0	0	6525.375	YES	YES
	AMMONIUM CHLORIDE	10000	0	0	0	0	0	2462.41	YES	YES
	FORMALDEHYDE	1127.12	430.20	0	0	0	0	29.27	NO	NO
Metal	KEM ECORITE AC 1112 L	0	0	9279.37	9682.27	24878.25	2689.55	874.61	YES	NO
	KEM ECORITE PH 2510	0	0	4753.31	4959.69	12743.76	1377.71	448.01	YES	NO
	KEM ECORITE CS 1602-D	0	0	606.00	632.31	1624.70	175.64	57.12	NO	NO
	KEM ECORITE AC 1209	0	0	94.69	98.80	253.86	27.44	8.92	NO	NO
	POWEDER AKZONOBEL TEXTURE OF SNOW WHITE	0	0	44645.12	46583.56	119694.83	12940.02	4207.94	YES	YES

Table 3: Hazard information based on GHS Classification for the chemicals present in DeskPro (above 100 ppm)

Chemical Name	Concentration (ppm)	Compound Name	CASRN	Hazard Class & Category
Turpentine Oil	749.67	Oil of turpentine	8006-64-2	Skin sensitisation - Category 1 Aspiration hazard - Category 1 Skin irritation - Category 2 Eye irritation - Category 2 Chronic aquatic toxicity - Category 2 Flammable liquids - Category 3 Acute toxicity, Oral - Category 4 Acute toxicity, Inhalation - Category 4 Acute toxicity, Dermal - Category 4
JOWAT HOTMELT 280.31 (WHITE)	249.89	Vinyl Resin	Unknown	Flammable liquids - category 3 Acute toxicity: inhalation - category 4 Skin corrosion/irritation - category 2 Serious eye damage/ eye irritation - category 2a Carcinogenicity - category 2
		Titanium Oxide	13463-67-7	Not a hazardous substance or mixture
KEM ECORITE AC 1112 L	874.61	Potassium Hydroxide	1310-58-3	Corrosive to metals - Category 1 Acute toxicity, Oral - Category 4 Skin corrosion - Category 1A
		Tetrapotassium pyrophosphate	7320-34-5	Eye irritation - Category 2

KEM ECORITE PH 2510	448.01	Nitric acid	7697-37-2	Oxidizing liquids - Category 3 Skin corrosion - Category 1A
		Dihydrogen hexafluoro- zirconate(2-)	12021-95-3	Acute toxicity, Oral - Category 3 Acute toxicity, Inhalation - Category 4 Acute toxicity, Dermal - Category 3 Skin corrosion/irritation - Category 1 Serious eye damage/eye irritation - Category 1
		Sodium 3- nitrobenzenesulphona te	127-68-4	Skin sensitization - Category 1 Eye irritation - Category 2
		Zirconium dinitrate oxide	13826-66-9	Oxidizing Solution – Category 2 Acute Toxicity – Category 4 Skin Corrosion/Irritation - Category 1B Eye Damage/Irritation - Category 1
		Ammonium nitrate	6484-52-2	Oxidizing solids - Category 3 Skin Corrosion / Irritation – Category 2 Acute Oral Toxicity – Category 5 Serious eye damage / Eye irritation – Category 2A Specific target organ toxicity, single exposure / Respiratory tract irritation – Category 3
AMMONIUM CHLORIDE	2462.41	Ammonium chloride	12125-02-9	Acute toxicity, Oral - Category 4 Eye irritation - Category 2
UREA	8864.66	Urea	57-13-6	Not a hazardous substance or mixture.
MELAMINE	6525.375	Melamine	108-78-1	Carcinogenicity - Category 2 Reproductive toxicity - Category 2

				Specific target organ toxicity - repeated exposure (urinary tract) - Category 2
PARAFFIN WAX	2462.41	Hydrocarbon Mixture	8002-74-2	Not a hazardous substance or mixture
POWDER AKZONOBEL TEXTURE OF SNOW WHITE (Polyester-Epoxy Hybrid)	646.14	Titanium Dioxide	13463-67-7	Combustible dusts respiratory sensitization - category 1 Skin sensitization - category 1 carcinogenicity - category 2 Toxic to reproduction - category 2
		Limestone	1317-65-3	
		Kaolin	1332-58-7	
		propylidynetrimethanol	77-99-6	
		benzene-1,2,4-tricarboxylic acid 1,2-anhydride	552-30-7	

Table 4: Alternative material for powder coating

Chemical Name	Compound Name	CASRN	Hazard Category
Blue Matt Rapid RAPID COAT ULTRA BLUE TEXTURE HBIT003	BIS(2,4-DI-T-BUTYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE	26741-53-7	Aquatic Chronic – Category 3
POWDER NUT BROWN MATT - RAPID	3,9-bis(2,4-di-tert-butylphenoxy) - 2,4,8,10-tetraoxa3,9-diphosphaspiro[5.5]undecane	26741-53-7	Aquatic Chronic – Category 3
POWDER RAL 7035 MATT- RAPID COAT	titanium dioxide	13463-67-7	Carcinogenicity - category 2 toxic to reproduction - category 2
	propylidynetrimethanol	77-99-6	
DA GREY MATT HE15005	BIS(2,4-DI-T-BUTYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE	26741-53-7	Aquatic Chronic – Category 3
*POWDER GRAPHITE GREY TEXTURE - RAPID	Wollastonite	13983-17-0	Carcinogenicity - category 1a specific target organ toxicity (repeated exposure) (respiratory tract) (inhalation) - category 1
	Titanium Dioxide	13463-67-7	Not a hazardous substance or mixture
	1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine2,4,6(1H,3H,5H)- trione	2451-62-9	Acute toxicity (Inhalation, ingestion) - Category 3 Serious eye damage - Category 1 Skin sensitization - Category 1 Germ cell mutagenicity - Category 1B Specific target organ toxicity - repeated exposure - Category 2 Chronic aquatic hazard - Category 3
	carbon black	1333-86-4	Not a hazardous substance or mixture
	crystalline silica, respirable powder (<10 microns)	14808-60-7	Specific target organ toxicity - repeated exposure, - Category 1 (Lungs)
*POWDER GREY TEXTURE RAPID	barium sulfate	7727-43-7	Acute toxicity (oral) - category 4 skin sensitization - category 1 Germ cell mutagenicity - category 1 Carcinogenicity - category 2 Specific target organ toxicity (repeated exposure) - category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 54.9%
	titanium dioxide	13463-67-7	
	1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine- 2,4,6(1H,3H,5H)-trione	2451-62-9	
	carbon black	1333-86-4	

			(oral), 59.1% (dermal), 84.2% (inhalation)
*POWDER AKZONOBEL TEXTURE RAVEN BLACK	aluminium hydroxide	21645-51-2	serious eye damage - category 1 skin sensitization - category 1 germ cell mutagenicity - category 1 carcinogenicity - category 1a specific target organ toxicity (repeated exposure) - category 2
	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	
	carbon black, respirable powde	1333-86-4	
	Crystalline Silica as quartz not respirable,>10µm	14808-60-7	
PU WHITE GLOSSY UWHS-003	Titanium dioxide	13463-67-7	Flammable Liquid – Category 2 Skin Irritation - Category 2 Eye Irritation – Category 2A Skin Sensitization - Category 1 Carcinogenicity - Category 2 specific target organ toxicity (repeated exposure) - category 2,
	xylene [isomer mixture]	1330-20-7	
	ethylbenzene	100-41-4	
	Fatty acids, C14-18 and C16-18-unsatd., maleated	85711-46-2	
*POWDER MUNSHELL GREY TEXTURE HEOT023 RAPID COAT	barium sulfate	7727-43-7	skin sensitization - category 1 germ cell mutagenicity - category 1 carcinogenicity - category 2 specific target organ toxicity (repeated exposure) - category 2 percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 64.7% (dermal), 73.9% (inhalation)
	titanium dioxide	13463-67-7	
	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	
	carbon black	1333-86-4	
	1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol	26811-89-2	
*POWER PP RAL 9003 WHITE MATT RAPID COAT	titanium dioxide	13463-67-7	Skin sensitization - category 1 germ cell mutagenicity - category 1 carcinogenicity - category 2 specific target organ toxicity (repeated exposure) - category 2 percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 6.1%
	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	
	aluminium hydroxide	21645-51-2	
POWDER WHITE TEXTURE HWHT-001 RAPIDCOAT	ethylbenzene	100-41-4	Flammable liquids - category 2 skin irritation - category 2 eye irritation - category 2a carcinogenicity - category 2 specific target organ toxicity (repeated exposure) (central nervous system (cns), kidneys and liver) - category 2 percentage of the mixture consisting
	aluminium hydroxide	21645-51-2	
	Talc , not containing asbestiform fibres	14807-96-6	
	2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	
	benzyl alcohol	100-51-6	

	xylene	1330-20-7	of ingredient(s) of unknown toxicity: 41.9%
	titanium dioxide	13463-67-7	
	Isopropyl alcohol	67-63-0	
	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	
POWER RAL2008 HELLROTORANGE RAPID COAT	Mixture	Unknown	Not a hazardous substance or mixture
*POWER PP RAL MATT-7024 RAPID COAT	barium sulfate	7727-43-7	skin sensitization - category 1 germ cell mutagenicity - category 1 carcinogenicity - category 2 specific target organ toxicity (repeated exposure) - category 2
	titanium dioxide	13463-67-7	
	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	
	carbon black	1333-86-4	
*POWDER GRAPHITE GREY PP - RAPID	barium sulfate	7727-43-7	skin sensitization - category 1 germ cell mutagenicity - category 1 carcinogenicity - category 2 specific target organ toxicity (repeated exposure) - category 2
	titanium dioxide	13463-67-7	
	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	
	carbon black	1333-86-4	
	1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol	26811-89-2	
POWDER MISTY GREY MATT HE15094 RAPID COAT	Mixture with titanium dioxide	Unknown	Not a hazardous substance or mixture
POWDER HAVELLS GREY GLOSSY HE9S009 RAPID COAT	Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	Flammable liquid – Category 3 Reproductive toxin – Category 2
	Propylene glycol monomethyl ether acetate	108-65-6	
*POWER MET SILVER ASH	Unknown	Unknown	Unknown

GREY HSIS-001 RAPID COAT			
*POWER IVORY SATIN HI2S013 RAPID COAT	Unknown	Unknown	Unknown
*POWDER RAPID COAT NEW IVORY S/G HIVS013	Unknown	Unknown	Unknown

*** For these powder coats, product variation leads to non conformance with standards when points under Product Optimization GHS Classification - 7.5.1.3, ANSI/BIFMA e3 2019 is achieved. Organization may obtain reduced credit certification for these material variation or declare for product purchase for their non-conformance. Also public disclosure table needs to be updated for chemical number and CASRN, if credits are targeted.**

Table 5: No GHS Cat 1 evaluation chemicals present in DeskPro (above 100 ppm)

Chemical	GHS Cat 1 Carcinogenicity	GHS Cat 1 Germ Cell Mutagenicity	GHS Cat 1 Reproductive Toxicity	Supporting Information
TARPIN OIL	Not Present	Not Present	Not Present	Refer Table 3
JOWAT HOTMELT 280.31 (WHITE)	Not Present	Not Present	Not Present	
KEM ECORITE AC 1112 L	Not Present	Not Present	Not Present	
KEM ECORITE PH 2510	Not Present	Not Present	Not Present	
AMMONIUM CHLORIDE	Not Present	Not Present	Not Present	
PARAFFIN WAX	Not Present	Not Present	Not Present	
UREA	Not Present	Not Present	Not Present	
FORMALDEHYDE	Not Present	Not Present	Not Present	
POWEDER AKZONOBEL TEXTURE OF SNOW WHITE	Not Present	Not Present	Not Present	

Table 6: Chemicals present in DeskPro above 1000 ppm for public disclosure

Chemical Name	CASRN
AMMONIUM CHLORIDE	12125-02-9
UREA	57-13-6
MELAMINE	108-78-1
PARAFFIN WAX	8002-74-2
POWEDER AKZONOBEL TEXTURE OF SNOW WHITE	13463-67-7, 7727-43-7, 54553-90-1

3.2 Low emitting Furniture

Emission testing was arranged by Client and performed by TÜV Rheinland Hong Kong Ltd., China according to the requirements of BIFMA X7.1-2011 (R-2021). Test reports are attached in Appendix C, and results are extracted to below tables.

Table 7: Evaluation of emissions at 168 hours for prerequisite in ANSI/BIFMA e3-2019, 7.6.1

Chemical Contaminant	Emissions Limits Open Plan Workstation	Emissions Limits Private Office Workstation	Test result at 168 h	Evaluation
Formaldehyde ($\mu\text{g}/\text{m}^2\text{hr}$)	42.3	85.1	--	Pass
TVOC ($\mu\text{g}/\text{m}^2\text{hr}$)	345	694	34.27	Pass
Total Aldehydes ($\mu\text{mol}/\text{m}^2\text{hr}$)	2.8	5.7	--	Pass
4-Phenylcyclohexene ($\mu\text{g}/\text{m}^2\text{hr}$)	4.5	9.0	--	Pass

Table 8: Evaluation of individual VOCs at 336 hours according to ANSI/BIFMA e3-2019, 7.6.2

Compound name	CAS no.	Open Plan Maximum Allowable Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Private Office Maximum Allowable Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Calculated emission factor at 336h ($\mu\text{g}/\text{m}^2\text{h}$)	Evaluation
Butanoic acid	107-92-6	--	--	--	Pass
1-Butanol	71-36-3	--	--	2.02	Pass
Octane	111-65-9	--	--	--	Pass
Nonane	111-84-2	--	--	1.14	Pass
Decane	124-18-5	--	--	1.14	Pass
Dodecane	112-40-3	--	--	2.89	Pass
Tridecane	629-50-5	--	--	1.91	Pass
Tetradecane	629-59-4	--	--	3.98	Pass
Pentadecane	629-62-9	--	--	--	Pass
Hexadecane	544-76-3	--	--	2.29	Pass
Ethylbenzene	100-41-4	689	1392	--	Pass
2-Butanone	78-93-3	--	--	4.03	Pass
2-Pentanone	107-87-9	--	--	1.14	Pass
2-Heptanone	110-43-0	--	--	0.82	Pass
Cyclohexanone	108-94-1	--	--	--	Pass
Butyrolactone	96-48-0	--	--	--	Pass
2(3H)-Furanone, 5-ethylidihydro-	695-06-7	--	--	--	Pass
5-Tetradecene, (E)-	41446-66-6	--	--	--	Pass
2(3H)-Furanone,	1679-49-8	--	--	1.14	Pass

dihy- dro-4- methyl-					
4-Phenylcyclohexene	4994-16-5	--	--	--	Pass
Total of all VOC (TVOC) (C6-C16)	--	--	--	14.42	Pass
Formaldehyde	50-00-0	11	23	--	Pass
Acetaldehyde	75-07-0	48	97	--	Pass
Total aldehydes	--	--	--	--	Pass

Table 9: Evaluation of individual VOCs at 336 hours according to CDPH/ EHLB Standard V1.2

Substance	CAS no.	Emission factor at 336 hours (µg/m ² h)	Allowable Concentration (µg/m ³)	Open-plan workstation estimated concentration (µg/m ³)	Evaluation
Butanoic acid	107-92-6	--	--	--	Pass
1-Butanol	71-36-3	2.02	--	2.92	Pass
Octane	111-65-9	--	--	--	Pass
Nonane	111-84-2	1.14	--	1.66	Pass
Decane	124-18-5	1.14	--	1.66	Pass
Dodecane	112-40-3	2.89	--	4.19	Pass
Tridecane	629-50-5	1.91	--	2.76	Pass
Tetradecane	629-59-4	3.98	--	5.77	Pass
Pentadecane	629-62-9	--	--	--	Pass
Hexadecane	544-76-3	2.29	--	3.31	Pass
Ethylbenzene	100-41-4	--	1000	--	Pass
2-Butanone	78-93-3	4.03	--	5.84	Pass
2-Pentanone	107-87-9	1.14	--	1.66	Pass
2-Heptanone	110-43-0	0.82	--	1.19	Pass
Cyclohexanone	108-94-1	--	--	--	Pass
Butyrolactone	96-48-0	--	--	--	Pass
2(3H)-Furanone, 5-ethyl- di- hydro-	695-06-7	--	--	--	Pass
5-Tetradecene, (E)-	41446-66-6	--	--	--	Pass
2(3H)-Furanone, dihydro-4- methyl-	1679-49-8	1.14	--	1.66	Pass
4-Phenylcyclohexene	4994-16-5	--	--	--	Pass
Total of all VOC (TVOC) (C6-C16)	--	14.42	--	20.89	Pass
Formaldehyde	50-00-0	--	9	--	Pass
Acetaldehyde	75-07-0	--	70	--	Pass
Total aldehydes	--	--	--	--	Pass

Table 10. Evaluation of formaldehyde at 336 hours for ANSI/BIFMA e3-2019, 7.6.3

Compound name	CAS no.	Open Plan Workstation Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Private Office Workstation Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Calculated emission factor at 336h ($\mu\text{g}/\text{m}^2\text{h}$)	Evaluation
Formaldehyde	50-00-0	6.2	12.5	--	Pass

3.3 Category specific advances – Targeted chemical elimination

Table 11 presents the summary of assessment. There are no specific restrictions required by purchasers to be publicly disclosed.

Table 11. Targeted chemicals assessment for ANSI/BIFMA e3-2019, 7.4.4

Targeted Chemicals	Assessment Remarks	Supporting information
flame retardants	Not Present	Refer Table 3
per- and poly-fluorinated compounds	Not Present	Refer Table 3
chemical antimicrobials	Not Present	Refer Table 3
polyvinyl chloride (PVC)	Less than 1%	Refer Table 3
formaldehyde and other VOCs	Within Limits as per ANSI/BIFMA e.3-2019, 7.6.1 & 7.6.2	Table 7, Table 8 and Table 9

4. Facility-level assessment

4.1. Operations & Maintenance chemicals

An exhaustive list of all operations and maintenance chemicals was shared by AFC. For the shared chemicals hazard information was obtained based on SDS available over web. Table 12 and Table 13 presents the chemical & hazard information for all these chemicals and Table 14 presents an evaluation of this chemicals against criterion mentioned in section 7.7.1, ANSI/BIFMA e3 1019 standard. Appendix D contains average monthly consumption details for consumables and cleaning chemicals.

Table 12. Chemical information for consumable oil and grease at AFC

Chemical Description	Chemical Composition	CASRN	Hazard Class & Category
Hydraulic Oil 68	Base Oil - Highly Refined Distillates (Petroleum), Solvent-Refined Heavy Paraffinic 2,6-Di-Tert-Butylpheno	64741-88-4, 128-39-2	Not a hazardous substance or mixture
Grease Epo	Base Lubricant with Zinc Dialkyldithiophosphate	68649-42-3	Not a hazardous substance or mixture
Engine Oil 15w40	Interchangeable Low Viscosity Base Oil Zinc Dialkyldithiophosphate Calcium Long Chain Alkaryl Sulphonate Calcium Alkaryl Sulphonate	68784-31-6 722503-69-7 722503-68-6	Not a hazardous substance or mixture
Diesel	Fuels, Diesel Alkanes, C10-20-Branched And Linear	68334-30-5 928771-01-1	Flammable Liquids - Category 4 Acute Toxicity (Inhalation) - Category 4 Skin Corrosion/Irritation - Category 2 Carcinogenicity - Category 2 Specific Target Organ Toxicity - Repeated Exposure (Bone Marrow, Liver, Thymus) - Category 2 Aspiration Hazard - Category 1
Terpene Oil	Oil Of Turpentine	8006-64-2	Flammable Liquids - Category 3 Acute Toxicity, Oral - Category 4 Acute Toxicity, Inhalation - Category 4 Acute Toxicity, Dermal Category 4 Skin Irritation - Category 2 Eye Irritation - Category 2 Skin Sensitisation - Category 1 Aspiration Hazard - Category 1

			Chronic Aquatic Toxicity - Category 2
Grease L32n	Alkanes, C7-10-Iso-Dec-1-Ene, Homopolymer, Hydrogenated + 7-Methylpentadecane; Tetra-1-Decen, Dimer, Trimer, Hydrogenated Propan-2-Ol Isobutane Propane Butane	90622-56-3 292-458-5 68037-01-4, 1000172-11-1 67-63-0 200- 661-7 603- 117-00-0 75-28-5 200- 857-2 601- 004-00-0 74-98-6 200- 827-9 601- 003-00-5 106-97-8 203-448-7 601-004-00-0	Flammable Liquid – Category 2 Skin Irritation – 2 Specific target organ toxicity, single exposure - Category 3 Aspiration hazard - Category 1 Aquatic Chronic Toxicity – Category 2 Eye Irritation - Category 2
Mobil Oil 40	Base Oil With Zinc Alkyl Dithiophosphate	113706-15-3	Not a hazardous substance or mixture
Transformer Oil (Paraffin Based) 15-335	Distillate (Petroleum), Hydrotreated Light Paraffinic Distillates (Petroleum), Hydrotreated Light Naphthenic	64742-55-8 64742-53-6	Not a hazardous substance or mixture
Air Compressor Oil - 46	Hydrogenated Polydecene	68037-01-4	Not a hazardous substance or mixture
Cutting Oil - 222	Mineral Base Oil Additives	64742-65-0	Not a hazardous substance or mixture
Gear Oil - 90	Highly Refined Mineral Oil Long Chain Alkenyl Amine Long Chain Alkyl Amine Mineral Oil Solvent Dewaxed	64742-62-7	Not a hazardous substance or mixture

Table 13. Chemical information for cleaning materials at AFC

Chemical Description	Chemical Composition	Casrn	Hazard Class & Category
Taski R-1	Alcohols, C10-16, Ethoxylated (7-<15 Eo) 2-Aminoethanol Tetrasodium Ethylene Diamine Tetraacetate	68002-97-1 141-43-5 64-02-8	Skin Irritation - Category 2 Eye Damage - Category 1
Taski R-2	Alcohols, C10-16, Ethoxylated (7-<15 Eo) 2-Aminoethanol	68002-97-1 141-43-5 64-02-8	Skin Irritation - Category 2 Eye Damage - Category 1 Aquatic Chronic Toxicity – Category 3

	Tetrasodium Ethylene Diamine Tetraacetate Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride	68424-85-1	
Taski R-3			Not a hazardous substance or mixture
Taski R-5			Not a hazardous substance or mixture
Taski R-6	Hydrochloric Acid Oleyl Bis(2-Hydroxyethyl)Amine	7647-01-0 25307-17-9	Skin Irritation - Category 2 Eye Damage – Category 1 Aquatic Chronic Toxicity – Category 3 Metal Corrosivity – Category 1
Taski R-7	Sodium Alkylbenzenesulphonate Alcohols, C10-16, Ethoxylated (7-<15 Eo)	90194-45-9 68002-97-1	Eye Damage - Category 1
Taski R-9	Alcohols, C10-16, Ethoxylated (7-<15 Eo) Citric Acid	77-92-9 68002-97-1	Eye Irritation - Category 2
Taski D-7	Hydrocarbons, C12-C18, N-Alkanes, Isoalkanes, Cyclics, Aromatics (<2%)	-	Not a hazardous substance or mixture
Taski '101		Unknown	Eyes: Irritation With Pain, Swelling and Redness May Develop. Skin: Irritation Or Dryness develops with Long Contact. Ingestion: If Swallowed, Diarrhoea, Nausea and Vomiting May Occur. Inhalation: Irritation Of Respiratory Tract May Develop. Sensitive Skin.
Taski '103	Alkyl Eo/Po	68551-13-3	Eye Irritant, Prolonged Contact May Cause Skin Irritation.
Phenyl	Coal Tar Phenols Hydrocarbons Soap	Unknown	Skin Irritation – Category 2 Eye Irritation – Category 2
Handwash Soap (Normal)	Sodium Poly(Oxyethylene) Dodecyl Ether Sulfate Sodium Chloride Glycerin Alkylamidopropylbetaines Sulfuric Acid, Mono-C10-16- Alkyl Esters, Sodium Salts Ethanol	68585-34-2 7647-14-5 56-81-5 61789-40-0 68585-47-7 64-17-5	Eye Irritation - Category 2A
Handwash Soap (Dettol)	Chloroxylenol Pine Oil Isopropanol	88-04-0 8002-09-3 67-63-0	Eye Irritation

Odonil	Butane Propane Propane, 2-Methyl-	0000106-97-8 0000075-28-5 0000074-98-6	Flammable Gas – Category 1
Naphthalene Balls	Naphthalene	91-20-3	Flammable Solids - Category 2 Acute Toxicity, Oral - Category 4 Carcinogenicity - Category 2 Acute Aquatic Toxicity - Category 1 Chronic Aquatic Toxicity - Category 1

Table 14. Assessment for consumables and cleaning chemicals for impact reduction according to 7.7.2, ANSI/BIFMA e3 2019 standards

Hazard Class	Presence of Hazard Class	Chemicals of Concern	Supporting Information
carcinogenicity	Present	Diesel Naphthalene Balls	Table 11 and Table 12
germ cell mutagenicity	Not Present	-	
reproductive toxicity	Not Present	-	
hazardous to the aquatic environment	Present	Terpene Oil Grease L32N Taski R-2 Taski R-6 Naphthalene Balls	

4.2. Process Chemicals

Three gate to gate processes were identified including one process line at the supplier end. Assessment is presented in Table 15.



Figure 2: Gate-to-gate boundary for wooden item processing at AFC



Figure 3: Gate-to-gate boundary for metal sheet processing at AFC

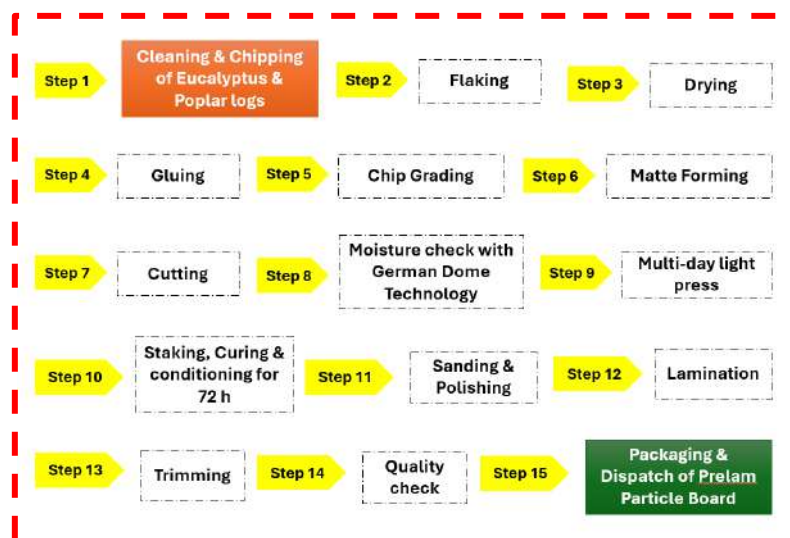


Figure 4: Gate-to-gate boundary for Prelam board fabrication at Action Tesa (Supplier)

Table 15: Process chemicals information in three gate-to-gate process including one supplier line

Wooden Item Process for Manufacturing			
Chemical Description	Chemical Composition	CASRN	Hazard Class & Category
TARPIN OIL	Oil of turpentine	8006-64-2	Skin sensitisation - Category 1 Aspiration hazard - Category 1 Skin irritation - Category 2 Eye irritation - Category 2 Chronic aquatic toxicity - Category 2 Flammable liquids - Category 3 Acute toxicity, Oral - Category 4 Acute toxicity, Inhalation - Category 4 Acute toxicity, Dermal - Category 4
FEVICOL NORMAL 50KG DRUM	Vinyl acetate homopolymer	Unknown	Skin irritation - Category 2 Eye irritation - Category 2
FEVICOL FAST TACK	Acetone, Butane, n-Hexane, Propane, 2-Methylpentane, Methyl Acetate, 3-Methylpentane, Cyclohexane	67-64-1, 106-97-8, 110-54-3, 110-54-3, 107-83-5, 79-20-9, 96-14-0, 110-82-7	Flammable aerosols - Category 1 Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 2A Reproductive toxicity (fertility) - Category 2 Specific target organ toxicity, single exposure (narcotic effects) - Category 3 Specific target organ toxicity, repeated exposure - Category 2 Aspiration hazard - Category 1
JOWAT HOTMELT 280.31 (WHITE)	Vinyl Resin	Unknown	Flammable liquids - category 3 Acute toxicity: inhalation - category 4 Skin corrosion/irritation - category 2 Serious eye damage/ eye irritation - category 2a Carcinogenicity - category 2
	Titanium Oxide	13463-67-7	Not a hazardous substance or mixture
HOT MELT GLUE 280-50	Hot Melt Adhesive & Vinyl Resin	Unknown	Not a hazardous substance or mixture
Sheet Metal Items Process for Manufacturing			
Chemical Description	Chemical Composition	CASRN	Hazard Class & Category
Welding Rod	-	-	-
KEM ECORITE AC 1112 L	Potassium Hydroxide	1310-58-3	Corrosive to metals - Category 1 Acute toxicity, Oral - Category 4 Skin corrosion - Category 1A

	Tetrapotassium pyrophosphate	7320-34-5	Eye irritation - Category 2
KEM ECORITE PH 2510	Nitric acid	7697-37-2	Oxidizing liquids - Category 3 Skin corrosion - Category 1A
	Dihydrogen hexafluoro-zirconate(2-)	12021-95-3	Acute toxicity, Oral - Category 3 Acute toxicity, Inhalation - Category 4 Acute toxicity, Dermal - Category 3 Skin corrosion/irritation - Category 1 Serious eye damage/eye irritation - Category 1
	Sodium 3-nitrobenzenesulphonate	127-68-4	Skin sensitization - Category 1 Eye irritation - Category 2
	Zirconium dinitrate oxide	13826-66-9	Oxidizing Solution – Category 2 Acute Toxicity – Category 4 Skin Corrosion/Irritation - Category 1B Eye Damage/Irritation - Category 1
	Ammonium nitrate	6484-52-2	Oxidizing solids - Category 3 Skin Corrosion / Irritation – Category 2 Acute Oral Toxicity – Category 5 Serious eye damage / Eye irritation – Category 2A Specific target organ toxicity, single exposure / Respiratory tract irritation – Category 3
KEM ECORITE CS 1602-D	Fatty alcohols, C12-15, EO-PO Alcohols, C12-14, ethoxylated (9-EO)	68551-13-3 68439-50-9	Acute Toxicity (Oral) - Category 5 Skin Corrosion/Irritation - Category 2 Acute Hazard to The Aquatic Environment - Category 1 Long-term Hazard to the Aquatic Environment - Category 3 Acute Toxicity Category 4 (Dermal) Acute Toxicity Category 4 (Inhalation) Eye Damage category 1 Specific Target Organ Toxicity - Single Exposure Category 3
KEM ECORITE AC 1209	Nitric Acid	7697-37-2	Oxidizing liquids - Category 3 Skin corrosion - Category 1A
KEM ECORITE 2803	Ammonium hydrogencarbonate	1066-33-7	Acute toxicity, Oral - Category 4
Powders for powder coating	Table 3 & Table 4 contains chemical details for all Powders		
Prelam board fabrication from eucalyptus wood (Supplier)			
Chemical Description	Chemical Composition	CASRN	Hazard Class & Category
Formaldehyde	Formaldehyde Methanol Water	50-00-0	Flammable liquids - Category 3 Acute toxicity, Oral - Category 3 Acute toxicity, Inhalation - Category 2 Acute toxicity, Dermal - Category 3

			Skin corrosion/irritation - Category 1 Serious eye damage/eye irritation - Category Skin sensitization - Category 1 Germ cell mutagenicity - Category 2 Carcinogenicity - Category 1B Specific target organ toxicity - single exposure (Eyes, Central nervous system)- Category 1 Specific target organ toxicity - single exposure (Respiratory system) - Category 3
Melamine	Melamine	108-78-1	Carcinogenicity - Category 2 Reproductive toxicity - Category 2 Specific target organ toxicity - repeated exposure (urinary tract) - Category 2
Urea	Urea	57-13-6	Not a hazardous substance or mixture.
Paraffin Wax	Hydrocarbon Mixture	8002-74-2	Not a hazardous substance or mixture
Ammonium Chloride	Ammonium chloride	12125-02-9	Acute toxicity, Oral - Category 4 Eye irritation - Category 2

Evaluation: Process chemicals (including powders) are not free of classes — carcinogenicity, germ cell mutagenicity, reproductive toxicity, and hazardous to the aquatic environment, hence they cannot earn 4 credits under 7.7.2.2 ANSI/BIFMA e3 2019 standard. Further, under point c, of section 7.7.2.2 will not earn credit as chemicals are **not** free of 3 GHS classes and associated categories as listed in 7.7.2.1 (Figure 5), namely – Acute toxicity (category 1), Hazardous to aquatic environment (acute, chronic – category 1) and Hazardous to ozone layer (category 1). The chemical KEM ECORITE CS 1602-D contributes to hazard category - Hazardous to aquatic environment (acute, chronic – category 1, having composition of hazard chemical (Fatty alcohols, C12-15, EO-PO 68551-13-3) more than 0.1%. Further there is no comparative assessment for chemical with a lesser impact.

GHS Hazard Class	GHS Hazard Categories
Acute toxicity	1
Skin corrosion/irritation	1, 1A, 1B
Serious eye damage/eye irritation	1
Respiratory or skin sensitization	1, 1A
Germ cell mutagenicity	1, 1A, 1B
Carcinogenicity	1, 1A, 1B
Reproductive toxicity	1, 1A, 1B
Specific target organ toxicity single exposure	1
Specific target organ toxicity repeated exposure	1
Aspiration hazard	1
Hazardous to the aquatic environment	Acute 1, Chronic 1
Hazardous to the ozone layer	1

**Figure 5: Process Chemical GHS Hazard Class Categories as listed in 7.7.2.1 ANSI/BIFMA e3
2019 standard**

5. Summary of assessment

5.1. Scorecard based on assessment for section 7, ANSI/BIFMA e3 2019.

Based on the overall assessment, compliance and credits in favour of organization and their product is presented in Table 16, which is in accordance with self-assessment checklist provided as Annex D in ANSI/BIFMA e3 2019 standard.

Table 16. Scorecard/self-assessment checklist for overall assessment

7.0 Health & Wellness Impacts		Points Available			Points Achieved	Relevant Section & Remarks
		Organizational	Facility	Product		
7.1.1	Prerequisite – Demonstration of Compliance	Required Credit			✓	Section 2.1
7.1.2	Prerequisite – Key Chemical and Risk Policies	Required Credit			✓	Section 2.2
7.2	Chemical Management Plan (CMP)	1			1	Section 2.3
7.3.1	Chemical Impact Reduction Strategy	1			1	Section 2.4
7.3.2.1	Assessing Chemicals for Substitution, Develop Plan	1			-	Assessment Not Performed
7.3.2.2	Assessing Chemicals for Substitution, Implement Plan	1			-	Assessment Not Performed
7.4	Category Specific Advances (maximum of 3 pts available)			3	1	
7.4.1	Ergonomics (1 point)					Assessment maybe performed by AFC
7.4.2	Lighting to Mitigate Health Risks (1 point)					Not in the scope of product
7.4.3	Infrared Lighting (1 point)					
7.4.4	Targeted Chemical Elimination (1point)					Section 3.3
7.5.1.1	Pathway 1 - Product Level Full Material Inventory for Chemical Assessment (2 to 8 points)			8	5	Section 3.1
7.5.1.3	Pathway 1 - Product Optimization GHS classification (3 to 7 Points)			10	9	
7.5.3	Product Chemical Disclosure (1 to 4 points)			4	4	Table 6, section 3.1
7.6.1	Prerequisite - Low Emitting Furniture, HCHO			Required Credit	✓	Section 3.2

	≤ 61.4 ug/m2-hr					
7.6.2	Low Emitting Furniture, HCHO ≤ 16.5 ug/m2-hr			1	1	
7.6.3	Low Emitting Furniture, HCHO ≤ 9.0 ug/m2-hr			1	1	
7.7.1.1	Maintenance/Operations Chemical Identification and Assessment		1		1	Section 4.1
7.7.1.2	Reductions of Maintenance/Operations Chemicals		1		1	
7.7.2.1	Process Chemical Identification and Assessment		1		1	Section 4.2
7.7.2.2	Reduction or Elimination of Process Chemicals		4		0	
	Total Credits Available	4	7	27	-	
	Total Credits Achieved	2	3	21		

5.2. Post assessment activities for the organization

AFC must complete following tasks for meeting the requisites and obtaining the credits relating to this assessment:

- Make the Key Chemical & Risk Policy publicly available
- Chemical Management Plan should be communicated with key stakeholders
- Table 6 with chemicals above 1000 ppm is disclosed publicly for credits under section 7.5.3 of ANSI/BIFMA e3 2019 standards

5.3. Recommendations for further improvement

Below recommendations are made based on the assessment for adhering to compliance and making further improvisation in future:

- Maintain chronological & historical record of compliance for air, water, noise and solid/hazard waste regulations including audits for health & safety
- Safety Data Sheets (SDS) to be mandated by suppliers
- GHS pictograms are communicated to worker dealing directly with the chemicals
- Inventory and tracking of chemicals to be performed diligently
- One dedicated personal (internal/external) for chemical management and impact reduction as part of continuous improvement

6. References

- 1) ANSI/BIFMA e3-2019 Furniture Sustainability Standard (2019) *Business & Institutional Furniture Manufacturers Association / American National Standard*
- 2) ANSI/BIFMA e3-2019 Furniture Sustainability Standard – Guidance Manual (2019) *Business & Institutional Furniture Manufacturers Association / American National Standard*
- 3) GHS Classification (Rev.10, 2023) Summary, <https://pubchem.ncbi.nlm.nih.gov/ghs/>

Appendix A: Compliance Reports and Certifications



Uttar Pradesh Pollution Control Board
Building: No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010
Phone: 0522-2720828, 2720831, Fax: 0522-2720764, Email: info@uppcb.in, Website: www.uppcb.com

**189583/UPPCB/GreaterNoida(UPPCBRO)/CTO/both/GREATER
NOIDA/2023**

Date: 10/08/2023

To,

M/s

E WAY FURNITURE SYSTEMS PVT LTD

**Plot No 33, Ecotech 12, Greater Noida, Gautam Budh Nagar UP
,GAUTAM BUDH NAGAR,201310**

**Application Id-
22156080**

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981

CCA is hereby granted to **E WAY FURNITURE SYSTEMS PVT LTD** located at **Plot No 33, Ecotech 12, Greater Noida, Gautam Budh Nagar UP ,GAUTAM BUDH NAGAR,201310**, subject to the provisions of the **Water Act, Air Act** and the orders that may be made further and subject to following terms and conditions :-

1. This CCA **E WAY FURNITURE SYSTEMS PVT LTD** granted for the period from **01/08/2023 to 31/07/2026** and valid for manufacturing of following products.

S No	Product	Quantity	Unit
1	Modular Furniture	3000	Metric Tonnes/Month

2. Conditions under Water(Prevention and Control of Pollution) Act -1974 as amended :-

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

Kind of Effluent	Quantity(KLD)	Treatment facility	Discharge point
Domestic	3.0	STP	Industrial Drain
Industrial	15.0	ETP	Industrial Drain

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

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

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

Industrial Effluent Quality Standard

S.No.	Parameter	Standard
1	Total Suspended Solids (TSS)	50 mg/l

2	Chemical Oxygen Demand (COD)	150 mg/l
3	Biological Oxygen Demand (BOD)	20 mg/l
4	Oil & Grease	10 mg/l

(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening as far as possible. The STP shall be maintained continuously so as to achieve the quality of the treated sewage to the following standards.

S No.	Parameters	Standards
1	pH	5.0-9.0
2	BOD (mg/L)	20 mg/l
3	TSS (mg/L)	50 mg/l
4	Fecal Coliform (MPN/100ml)	<1000

3. Conditions under Air (Prevention and Control of Pollution) Act -1981 as amended :-

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

Air Pollution Source Details

S No.	Air Pollution Source	Type of fuel	Stack no	Control Device	Height of Stack
1	Baking Oven	PNG	1	Particulate Matter	1.0 mtr. above roof top
2	Genset- 250 KVA (01 Nos.)	Duel Fuel (PNG 70% Diesel 30%)	2	Particulate Matter	3.5 mtr. above roof top

Emission Quality Standards

S No.	Stack no	Parameters	Standards
1	1	Particulate Matter	As per EP Act, 1986 and CAQM
2	2	Particulate Matter	0.2 g/kW-hr
3	2	Oxides of Nitrogen	4.0 g/kW-hr
4	2	Quantity of Emission	3.5 g/kW-hr for CO

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

(ii) The unit will not use any type of restricted fuel.

iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective

areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

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

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

4. Essential documents to be submitted by the Industry/Unit as Applicable :-

(i) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

(ii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

5. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

6. Unit has to comply with the following specific & general conditions. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will result in legal action under the aforesaid Acts and Rules.

7. In compliance to the G.O 1011/81-7-2021-09 (Writ)/2016 dated.13.10.2021 issued by Department of Environment, Forest and Climate Change, Uttar Pradesh. You are directed to develop Miyawaki Forest as per the SOP available at URL:-<http://www.upeep.in/TrainingSession.aspx> for ensuring timely compliance of this direction, you are hereby directed to submit a bank guarantee with minimum validity of one year of the amount equivalent to the sum of initial consent fees (Air and Water) or Rs. 50,000/- (Rs. Fifty Thousand Only) whichever is more, within 30 days from the date of issuance of this certificate. In case of non-compliance of this direction, your consent will be revoked by the Board.

8. If the unit uses the ground water and requires the permission from SGWA/CGWA for water abstraction then the industry will have to obtain No objection certificate for abstraction of ground water. It will be the responsibility of the industry to comply with the various conditions of the NOC obtained from the competent authority and submit to the Board, within 3 months time failing which CTO will be revoked.

General Conditions:-

1. The applicant shall get analysed the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UPPCB.

2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.

3. Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.

4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.

5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof

6. The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.

7. The industry shall provide Inspection Book at the time of inspection to the Board's officials.

8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.

9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/ production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point
12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.

Specific Conditions:-

1. This CTO is valid for production only in conforming zone.
2. No water and air pollution source will be added/ installed by the unit without prior permission from State Pollution Control Board.
3. The unit is not allowed to increase the electricity load without prior permission from State Pollution Control Board.
4. Operation of ETP cum STP established in the industry should be continued. The untreated effluent should not be disposed off by the industry at any circumstances.
5. For ground water is to be extracted for any kind of use in the premise, then it is mandatory to obtain Registration and/or NOC from the UP Ground Water Department. The copy of Registration and/or NOC should be sent to this office within three months in compliance with the UP Ground Water (Management and Regulation) Act, 2019. In case of violation, Environmental Compensation shall be imposed and legal proceedings will be initiated against the unit and this consent order will automatically be considered revoked.
6. Metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing etc. work is prohibited in production process of industry.
7. Industry shall submit quarterly monitoring reports of all stacks and ambient air quality from a certified/approved laboratory.
8. The industry should ensure compliance of orders/instructions issued by Commission for Air Quality Management & Adjoining Areas (CAQM&AA) from time to time.
9. The air pollution control system established in the industry should be operated and maintained in such a way that the parameter of air polluting standards in the gaseous emissions generated by the industry is as per the prescribed standards.
10. Strict compliance of orders/instructions issued from time to time for NCR region by Hon'ble National Green Tribunal, New Delhi and Commission for Air Quality Management in National Capital Region and Adjoining Areas (CAQM) and Central Pollution Control Board, New Delhi should be ensured.
11. Only fuel approved by the Commission for Air Quality Management in National Capital Region and Adjoining Areas (CAQM) should be used in the industry.
12. Unit shall not operate any DG sets having a capacity from 19KW to less than 125KW without converting it into dual fuel system (70% Gas + 30% Diesel) and shall not use any DG set having a capacity from 125KW to 800KW without installation of Retrofitted Emission Controlled Devices (RECD) through certified vendors/agencies after date 30.09.2023, in compliance of CAQM direction no. 73 dated 02.06.2023, failing which this CTO shall be deemed void.
13. The unit shall achieve the new emission standards laid down by CAQM vide direction no. 73 dated 02.06.2023 for all DG sets having a capacity more than 800KW from dated 01.10.2023.

14. Industry shall comply with various Waste Management Rules as notified by MoEF&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
15. Industry shall submit annual returns as per above mentioned rules. Also, Environmental Statement in prescribed form as per Rule 14 of Environment (Protection) Act, 1986.
16. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/process/discharge/plant machinery failing which consent would be deemed void.
17. Industry shall make rain water harvesting on the premises as per map approved by concerned Authority. Pre-monsoon and Post-monsoon maintenance of rain water harvesting pit shall be done annually.
18. For green belt at least 8 feet height plants should be planted which shall be properly protected as proper irrigation and manoeuvring arrangements shall be made. Industry shall develop green belt in accordance with Government Order 07/55-02- 2018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018 and letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018
19. Any additional air Polluting sources like D.G. Set, Boiler, Thermic Fluid Heater, etc shall not be installed without prior permission of the Board.
20. The industry shall submit an audited balance sheet/certificate of C.A. to this office for verification of the consent fee every year and accordingly balance fee shall be paid to UPPCB.
21. The operation of the industry should be in the way that the process emission generated from the industry should not affect the surrounding environment and population.
22. Industry shall provide sufficient safety equipment to the workers for their safety.
23. If U.P.P.C.B or C.P.C.B and CAQM issues a closure order against the industry, this consent shall remain suspended for the period till the closure order is revoked, after which the consent will be effective again for the remaining period.
24. This consent order will not affect the acceptance or order of any other department.
25. Knowingly making any false statement for obtaining consent or compliance with consent conditions shall result in the imposition of criminal penalties as provided under section 42(g) of the Water Act or section 38 (g) of the Air Act.
26. The applicant shall allow the staff of the Uttar Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
 - a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
 - b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this consent.
 - c. To have access at reasonable times to any records required to be kept under the terms and conditions of this consent.
27. This consent is transferable, in case of a change of ownership/management, and the addresses of the new Owner/partner/directors/proprietor should immediately apply for the same.
28. The issuance of this consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Central, State, or local laws or regulations.
29. This consent order is being issued with the intention that no pollution or land ownership dispute is pending and no such litigation is pending in any court, otherwise, the consent order will be deemed to be nullified.
30. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.

31. You shall become a member of any common TSDF for S.L.F., and start sending the stored hazardous wastes for final disposal to the TSDF and report back to U.P.C.B. with the required manifesto (document of proof) within one or three months of this letter.

32. The unit shall ensure that Hazardous waste is regularly sent to Authorized Common TSDF and shall not store for more than 90 days in accordance with rule 8 of HOWM Rules, 2016.

33. In case of violation of the above-mentioned conditions, the consent order may be withdrawn.

34. This CTO is issued as per the provisions of the Air (Prevention and Control of Pollution) Act, 1981 (as amended) and the Water (Prevention and Control of Pollution) Act, 1974, and its amendment of 1978.

Notwithstanding anything contained in this consent order and these conditions of consent, the U.P. Pollution Control Board hereby reserves its right and power under The Air (Prevention and Control of Pollution) Act, 1981 and its amendment of 1987 and the Water (Prevention and Control of Pollution) Act, 1974 and its amendment of 1978 to review any and/or all the conditions imposed herein above and to make such verification as deemed fit for the purpose of the Act by this Board.

Deokumar Gupta
Digitally signed by
Deokumar Gupta
Date: 2023.08.10
16:57:38 +05'30'
Regional Officer

Copy to:

Chief Environmental Officer, (Circle-1), U.P. Pollution Control Board, Lucknow ☐

Deokumar Gupta
Digitally signed by
Deokumar Gupta
Date: 2023.08.10
18:58:41 +05'30'
Regional Officer



मिशन LIFE - पर्यावरण के लिए जीवन शैली
(Lifestyle For Environment)
जनसहभागिता का सन्देश



- स्वच्छता – देशसेवा में अपने परिवेश की स्वच्छता हेतु अपना सक्रिय योगदान सुनिश्चित करें
- संकल्प लें -एकल उपयोग प्लास्टिक उत्पाद जैसे कप, तश्तरी, चम्मच, स्ट्रॉ, ईयरबड्स आदि का उपयोग न हो एवं पर्यावरण अनुकूल विकल्पों जैसे कागज/पत्तों से बने दोने या कटलरी को प्राथमिकता दी जाय |
- एकल उपयोग प्लास्टिक उत्पाद के प्रयोग को रोकने एवं प्लास्टिक बैग के बजाय कपड़े के थैले का उपयोग करने मात्र से 375 मिलियन टन ठोस (प्लास्टिक) कचरे का उत्सर्जन बचाया जा सकता है
- चक्रीय अर्थव्यवस्था (सर्कुलर इकोनॉमी) का समुचित कार्यान्वयन वर्ष 2030 तक लगभग 14 लाख करोड़ रुपये की अतिरिक्त बचत उत्पन्न कर सकता है | वेस्ट /अपशिष्ट फेंकने के पूर्व सोचें, ये किसी का संसाधन तो नहीं ...?
- अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को कचरे में फेंकने से रुकें | इसके उपयुक्त निस्तारण हेतु इसे प्राधिकृत ई – वेस्ट रीसाइकलर को दें | प्राधिकृत ई-रीसाइकिलिंग इकाई में अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को देने मात्र से 0.75 मिलियन टन तक ई-कचरे का पुनर्चक्रण किया जा सकता है एवं ई-कचरे के विषम पर्यावरणीय दुष्प्रभाव से बचा जा सकता है
- बाहर जाते समय - सोचें कि क्या आपको वास्तव में परिवहन की आवश्यकता है - वह भी क्या व्यक्तिगत रूप से ? छोटी दूरी के लिए पैदल चलना पसंद करें, अथवा सम्भव हो तो कार पूल के रूप में संसाधन को साझा करें अथवा सार्वजनिक परिवहन पर विचार करें
- घरेलू स्तर पर कम से कम ठोस अपशिष्ट का उत्सर्जन करें और इनका प्रथाङ्कीकरण करें
- उपयोगी शेष खाद्य सामग्री आपके स्वयं प्रयास अथवा निकटस्थ सक्रिय स्वयं सेवी संस्थाओं की सहायता से समाज के वंचित वर्ग तक पहुंचाई जा सकती है | वहीं अनुपयोगी भोजन /खाद्य सामग्री को कंपोस्ट (वर्मी कम्पोस्ट) करने से 15 अरब टन भोजन को तट होने से बचाया जा सकता है
- ध्यान रखें - उपयुक्त तल और शावर के उपयोग से पानी की खपत को 30 - 40% तक कम किया जा सकता है। एवं उपयोग में न होने पर नलों को बंद रखने मात्र से 9 ट्रिलियन लीटर पानी बचाया जा सकता है
- ट्रैफिक लाइट/रेलवे क्रॉसिंग पर कार/स्कूटर के इंजन बंद करने मात्र से 22.5 बिलियन kWh तक ऊर्जा की बचत हो सकती है
- परम्परागत बल्ब के स्थान पर CFL का उपयोग बिजली की खपत में प्रभावी कमी लाते हैं | उपयोग में न होने पर बिजली उपकरणों को बंद करें | स्टार रेटेड विद्युत उपकरणों के उपयोग को प्राथमिकता दें

हमारे द्वारा अपनी जीवन शैली की प्राथमिकताओं का उचित और पर्यावरण अनुकूल पुनर्निर्धारण समाज और पर्यावरण के प्रति हमारा दायित्व है |



ITS TESTING LABORATORY (P) LTD.

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Website: www.itslab.in, Email: itslaboratorypvtltd@gmail.com, info@itslab.in,
contact@itslab.in, itrlclab@gmail.com
+91 9911659800, 93505780312, 09958849764, 07210888634



TC-11181

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-060723-01

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.-33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample description : Ambient Air
Sample Drawn By : ITS Lab Representative
Date of Monitoring : 05/07/2023
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/07/2023 To 10/07/2023
Sampling Location : Near Main Gate Area
Ambient Temperature (°C) : 38
Sampling Duration : 8 hrs.
Sampling Instrument Used : Respirable Dust Sampler, Fine Particulate
(P.M 10 and PM 2.5) Sample
Weather Condition : Clear

RESULTS					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	92.7	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I	40.6	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	17.1	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	29.5	µg /m ³	80

End of the Report

Checked by



Terms & Conditions :

1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will be destroyed as per quality policy.
3. Any complaints about the report should be communicated in writing within 7 days.
4. Total liability of our laboratory is limited to invoiced amount.



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TC-11181

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-060723-02

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.-33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample description : Ambient Air
Sample Drawn By : ITS Lab Representative
Date of Monitoring : 05/07/2023
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/07/2023 To 10/07/2023
Sampling Location : Back Side Near DG Set Area
Ambient Temperature (°C) : 38
Sampling Duration : 8 hrs.
Sampling Instrument Used : Respirable Dust Sampler, Fine Particulate
(P.M 10 and PM 2.5) Sample
Weather Condition : Clear

RESULTS					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	90.3	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I	37.8	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	18.6	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	32.4	µg /m ³	80

End of the Report

Checked by

Authorized Signatory

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TC-11181

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-060723-03

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.-33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Sample description : Ambient Air
Sample Drawn By : ITS Lab Representative
Date of Monitoring : 05/07/2023
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 06/07/2023 To 10/07/2023
Sampling Location : Near STP/ETP Plant Area
Ambient Temperature (°C) : 38
Sampling Duration : 8 hrs.
Sampling Instrument Used : Respirable Dust Sampler, Fine Particulate
(P.M 10 and PM 2.5) Sample
Weather Condition : Clear

RESULTS					
S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	91.7	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1	39.5	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	16.3	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	26.1	µg /m ³	80

End of the Report

Checked by



Authorized Signatory

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TC-11181

TEST REPORT

Noise Report

Report Code: N-060723-01

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Date of Monitoring : 05/07/2023
Date of Test starting : 06/07/2023
Date of Test completed : 10/07/2023
Sampling Done by : ITS Lab Representative
Sampling Method : By Sound Level Meter
Capacity : 250 KVA DG No.- 1
Purpose of Monitoring : Efficacy of Acoustic DG room

RESULTS

S No.	Location	Unit	Test Method	Result	Requirement as Per EPA Act 1986
1	Noise Level When Canopy door is Open	dB(A)	CPCB Guidelines	102.8	-
2	Noise Level When Canopy door is Closed at a Distance of 1.0 meter	dB(A)	CPCB Guidelines	74.1	75 Max
3	Insertion Loss	dB(A)	CPCB Guidelines	28.7	25 Min.

Checked by

Authorized Signatory

Terms & Conditions :

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TC-11181

TEST REPORT

Noise Report

Report Code: N-060723-02

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Date of Monitoring : 05/07/2023
Date of Test starting : 06/07/2023
Date of Test completed : 10/07/2023
Sampling Done by : ITS Lab Representative
Sampling Method : By Sound Level Meter
Capacity : 250 KVA DG No.- 2
Purpose of Monitoring : Efficacy of Acoustic DG room

RESULTS

S No.	Location	Unit	Test Method	Result	Requirement as Per EPA Act 1986
1	Noise Level When Canopy door is Open	dB(A)	CPCB Guidelines	102.1	-
2	Noise Level When Canopy door is Closed at a Distance of 1.0 meter	dB(A)	CPCB Guidelines	73.5	75 Max
3	Insertion Loss	dB(A)	CPCB Guidelines	28.6	25 Min.

Checked by

Authorized Signatory

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contact@itslab.in, itrlclab@gmail.com
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TEST REPORT

Noise Report

Report Code: N-060723-03

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Date of Monitoring : 05/07/2023
Date of Test starting : 06/07/2023
Date of Test completed : 10/07/2023
Sampling Done by : ITS Lab Representative
Sampling Method : By Sound Level Meter
Capacity : 125 KVA DG No.- 3
Purpose of Monitoring : Efficacy of Acoustic DG room

RESULTS

S No.	Location	Unit	Test Method	Result	Requirement as Per EPA Act 1986
1	Noise Level When Canopy door is Open	dB(A)	CPCB Guidelines	100.7	-
2	Noise Level When Canopy door is Closed at a Distance of 1.0 meter	dB(A)	CPCB Guidelines	72.4	75 Max
3	Insertion Loss	dB(A)	CPCB Guidelines	28.3	25 Min.

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TEST REPORT

Stack Emission Analysis

Report Code: SE-060723-02

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample Description : Stack Emission
Sample Drawn On : 05/07/2023
Sample Drawn By : ITS Representative
Sampling Time : 50 minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 06/07/2023 To 10/07/2023
Ambient Temperature (°C) : 38°C
Stack Temperature (°C) : 129°C
Source of Emission : Stack Attached To D.G. No.- 1
Capacity : 250KVA
Type of Fuel used : HSD
Fuel Consumption : 30LTR/HR
Operating Load : Normal
Dia of Stack (meter) : 0.200
Height of Stack From Roof Level : 3.5 meter
Average Velocity (m/sec) : 16.9
Quantity of Emission (m³/Hr) : 1536.7

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits Upto 800 KW DG
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.12	g/kw-hr	≤0.2
2.	NOx+ NMHC	IS:11255(Part-7)	1.16	g/kw-hr	≤4.0
3.	Carbon monoxide(as CO)	USEPA Method No.10	0.93	g/kw-hr	≤3.5

****End of the Report****

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TC-11181

TEST REPORT

Stack Emission Analysis

Report Code: SE-060723-03

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample Description : Stack Emission
Sample Drawn On : 05/07/2023
Sample Drawn By : ITS Representative
Sampling Time : 51 minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 06/07/2023 To 10/07/2023
Ambient Temperature (°C) : 38°C
Stack Temperature (°C) : 131°C
Source of Emission : Stack Attached To D.G. No.- 2
Capacity : 250KVA
Type of Fuel used : HSD
Fuel Consumption : 30LTR/HR
Operating Load : Normal
Dia of Stack (meter) : 0.200
Height of Stack From Roof Level : 3.5 meter
Average Velocity (m/sec) : 17.1
Quantity of Emission (m³/Hr) : 1541.5

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits Upto 800 KW DG
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.125	g/kw-hr	≤0.2
2.	NOx+ NMHC	IS:11255(Part-7)	1.29	g/kw-hr	≤4.0
3.	Carbon monoxide(as CO)	USEPA Method No.10	0.98	g/kw-hr	≤3.5

****End of the Report****

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TC-11181

TEST REPORT

Stack Emission Analysis

Report Code: SE-060723-04

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Sample Description	: Stack Emission
Sample Drawn On	: 05/07/2023
Sample Drawn By	: ITS Representative
Sampling Time	: 55 minutes
Sampling Plan & Procedure	: SOP/SE/09
Analysis Duration	: 06/07/2023 To 10/07/2023
Ambient Temperature (°C)	: 38°C
Stack Temperature (°C)	: 114°C
Source of Emission	: Stack Attached To D.G. No.- 3
Capacity	: 125KVA
Type of Fuel used	: HSD
Fuel Consumption	: 15LTR/HR
Operating Load	: Normal
Dia of Stack (meter)	: 0.200
Height of Stack From Roof Level	: 3.5 meter
Average Velocity (m/sec)	: 15.8
Quantity of Emission (m ³ /Hr)	: 1129.3

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits Upto 800 KW DG
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.118	g/kw-hr	≤0.2
2.	NOx+ NMHC	IS:11255(Part-7)	1.17	g/kw-hr	≤4.0
3.	Carbon monoxide(as CO)	USEPA Method No.10	0.95	g/kw-hr	≤3.5

****End of the Report****

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TC-11181

TEST REPORT Stack Emission Analysis

Report Code: SE-060723-05

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample description	:	Stack Emission
Sample Drawn By	:	ITS Representative
Sample Drawn On	:	06/07/2023
Sampling Time	:	55 minutes
Sampling Plan & Procedure	:	SOP/SE/09
Analysis Duration	:	06/07/2023 To 10/07/2023
Ambient Temperature(°C)	:	38
Stack Temperature (°C)	:	42
Source of Emission	:	Stack Attached To Powder Coating Stack
Capacity	:	-
Type of Fuel used	:	PNG
Fuel Consumption	:	-
Operating Load	:	Normal
Type of Stack	:	MS
Diameter of Stack(meter)	:	0.3 x 0.3
Height of Stack from Ground Level	:	12 Meter
Average Velocity of Flue Emission (m/s)	:	6.4
Flow Rate of SPM (LPM)	:	17
Flow Rate of Gases (LPM)	:	2.1
Quantity of Emission (m ³ /Hr)	:	218.7
Attached APCH	:	Single Cyclone

S.N.	Parameter	Test Method	Results	Units	Emission limits As per CPCB
1.	Particulate Matter	IS:11255(Part-1)	12.9	mg/Nm ³	150
2.	Oxide of Nitrogen	IS:11255(Part-7)	BDL	mg/Nm ³	-
3.	Sulphur dioxide	IS:11255(Part-2)	BDL	mg/Nm ³	-
4.	Carbon monoxide	IS: 13270	0.004	%	1

****End of Report****

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TC-11181

TEST REPORT

ETP Outlet Water Sample Analysis

Report Code: WW-060723-01

Issue Date: 10/07/2023

issued TO : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.-33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Sample Description : ETP Outlet Water
Sample Drawn On : 05/07/2023
Sample Drawn By : Party
Sample Received On : 06/07/2023
Sample Quantity : 2.0 Liter
Environment Conditions : Normal
Analysis Duration : 06/07/2023 To 10/07/2023

REPORTS

S. No.	Parameter	Test Method	Results	Units	Limits
1.	pH	IS:3025(Part-11)	7.79	-	5.5-9.0
2.	Total Suspended Solids	IS:3025(Part-17)	59	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	IS:3025(Part-58)	124	mg/l	250.0
4.	Biochemical Oxygen Demand (at 27°C for 3 days)	IS:3025(Part-44)	21	mg/l	30.0
5.	Oil & Grease	IS:3025(Part-39)	<1.0	mg/l	10.0

-: End of the Report:-

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TC-11181

TEST REPORT

STP Outlet Water Sample Analysis

Report Code: WW-060723-02

Issue Date: 10/07/2023

Issued TO : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.-33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADESH- 201306

Sample Description : STP Outlet Water
Sample Drawn On : 05/07/2023
Sample Drawn By : Party
Sample Received On : 06/07/2023
Sample Quantity : 2.0 Liter
Environment Conditions : Normal
Analysis Duration : 06/07/2023 To 10/07/2023

REPORTS

S. No.	Parameter	Test Method	Results	Units	Limits
1.	pH	IS:3025(Part-11)	7.34	-	5.5-9.0
2.	Total Suspended Solids	IS:3025(Part-17)	46	mg/l	100.0
3.	Chemical Oxygen Demand (as O ₂)	IS:3025(Part-58)	128	mg/l	250.0
4.	Biochemical Oxygen Demand (at 27°C for 3 days)	IS:3025(Part-44)	22	mg/l	30.0
5.	Oil & Grease	IS:3025(Part-39)	<1.0	mg/l	10.0

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TC-11181

Report Code: W-060723-04, 1 of 2

TEST REPORT

Water Sample Analysis

Report Code: W-060723-04

Issue Date: 10/07/2023

Issued To : M/S. E-WAY FURNITURE SYSTEMS PRIVATE LIMITED
PROPERTY NO.- 33, INDUSTRIAL AREA, ECOTECH-12,
GREATER NOIDA, GAUTAM BUDDHA NAGAR,
UTTAR PRADES- 201306

Sample Description : Drinking Water
Sample Drawn On : 05/07/2023
Sample Drawn By : Mr. Amit Sharma (ITS)
Sample Received On : 06/07/2023
Sample Quantity : 1.0 Lt. Pet Bottle for Chemical & 500ml for
microbiological in sterilized Glass bottle.
Glass Bottle
Environment Conditions : Temp.- 25±2°C & Humidity- 50±10%
Analysis Duration : 06/07/2023 To 10/07/2023
Test Specification to be used : IS: 10500: 2012 RA-2018
Remarks (if any)

RESULTS Water Test as per IS:10500:2018

S. No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit
1.	pH	IS:3025 (Part-11)	7.19	-	6.5 – 8.5	-
2.	Colour	IS:3025 (Part-4)	<5.0	Hazen	5	15
3.	Taste	IS:3025 (Part-8)	Agreeable	-	-	-
4.	Turbidity	IS:3025 (Part-10)	<1.0	NTU	1	5
5.	Total Hardness (as CaCO ₃)	IS:3025 (Part-21)	50	mg/l	200	600
6.	Chloride (as Cl)	IS:3025 (Part-32)	11.7	mg/l	250	1000
7.	Residual Free Chlorine	IS:3025 (Part-26)	<0.1	mg/l	0.2 Max	-
8.	Iron (as Fe)	IS:3025 (Part-52)	<0.05	mg/l	1.0	-
9.	Fluoride (as F)	IS:3025 (Part-60)	<0.1	mg/l	1	1.5
10.	Total Dissolved Solid	IS:3025 (Part-16)	82	mg/l	500	2000
11.	Calcium (as Ca)	IS: 3025 (P- 40)	12	mg/l	75	200
12.	Magnesium (as Mg)	IS: 3025 (P-46)	4.8	mg/l	30	100

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Report Code: W-060723-04, 2 of 2

13.	Odour	IS:3025 (Part-5)	Agreeable	-	-	-
14.	Total Coli form	IS:1622	Absent	MPN/ 100ml	Absent	10 max
15.	E. Coli	IS: 1622	Absent	MPN/ 100ml	Absent	Absent

Remarks – Based on above tested parameter, water sample meet as per IS-10500-2018 in Acceptable limit and water is fit for drinking purpose.

-- End of the Report--

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TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-13

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Wood Cutting Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	76.2	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	46.0	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	3.0 ppm
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	

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Hazardous Air Pollutants Test :-

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Sulphur dioxide (as SO ₂)	IS:5182(P-II)	µg/m ³	12.6	80
2.	Nitrogen dioxide (as NO ₂)	IS:5182(P-VI)	µg/m ³	28.8	100
3.	Carbon monoxide (as CO)	IS:5182 (P-X)	ppm	2.10	9.0
4.	Ozone (as O ₃)	IS:5182 (Part-IX)	µg/m ³	11.9	100
5.	Ammonia (as NH ₃)	IS:5182 Part-XXV	µg/m ³	<10	25 (as per NIOSH)
6.	Asbestos	IS:2096:1992	Count	Nil	Not Specified
7.	Carbon dioxide (as CO ₂)	GC- FID With Catalyst converter	ppm	1178	1000
8.	Methane (as CH ₄)	GC Method	ppm	N.D.	Not Specified
9.	Hydrogen Peroxide (as H ₂ O ₂)	OSHA 1019	ppm	<0.5	1.0 (as per OSHA)

NIOSH- National Institute for Occupational Safety & Health.

OSHA- Occupational Safety & Health Administration.

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TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-14

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Powder Coating Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	71.8	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	42.5	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	3.0 ppm
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	

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Hazardous Air Pollutants Test :-

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Sulphur dioxide (as SO ₂)	IS:5182(P-II)	ppm	10.9	80
2.	Nitrogen dioxide (as NO ₂)	IS:5182(P-VI)	ppm	25.2	100
3.	Carbon monoxide (as CO)	IS:5182 (P-X)	ppm	2.19	9.0
4.	Ozone (as O ₃)	IS:5182 (Part-IX)	µg/m ³	10.2	100
5.	Ammonia (as NH ₃)	IS:5182 Part-XXV	µg/m ³	<10	25 (as per NIOSH)
6.	Asbestos	IS:2096:1992	Count	Nil	Not Specified
7.	Carbon dioxide (as CO ₂)	NIOSH	ppm	1085	1000
8.	Methane (as CH ₄)	GC Method	ppm	N.D.	Not Specified
9.	Hydrogen Peroxide (as H ₂ O ₂)	OSHA 1019	ppm	<0.5	1.0 (as per OSHA)

NIOSH- National Institute for Occupational Safety & Health.

OSHA- Occupational Safety & Health Administration.

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TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-15

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Welding Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	78.5	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	48.1	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	3.0 ppm
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	

Checked by

Authorized Signatory

Hazardous Air Pollutants Test :-

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Sulphur dioxide (as SO ₂)	IS:5182(P-II)	ppm	13.1	80
2.	Nitrogen dioxide (as NO ₂)	IS:5182(P-VI)	ppm	30.5	100
3.	Carbon monoxide (as CO)	IS:5182 (P-X)	ppm	2.39	9.0
4.	Ozone (as O ₃)	IS:5182 (Part-IX)	µg/m ³	12.5	100
5.	Ammonia (as NH ₃)	IS:5182 Part-XXV	µg/m ³	<10	25 (as per NIOSH)
6.	Asbestos	IS:2096:1992	Count	Nil	Not Specified
7.	Carbon dioxide (as CO ₂)	NIOSH	ppm	1318	1000
8.	Methane (as CH ₄)	GC Method	ppm	N.D.	Not Specified
9.	Hydrogen Peroxide (as H ₂ O ₂)	OSHA 1019	ppm	<0.5	1.0 (as per OSHA)

NIOSH- National Institute for Occupational Safety & Health.

OSHA- Occupational Safety & Health Administration.

CHECKED BY

AUTHORIZED SIGNATORY

TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-16

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Paint Shop Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	70.0	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	41.2	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	3.0 ppm
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	

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Authorized Signatory

Hazardous Air Pollutants Test :-

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Sulphur dioxide (as SO ₂)	IS:5182(P-II)	ppm	10.2	80
2.	Nitrogen dioxide (as NO ₂)	IS:5182(P-VI)	ppm	23.8	100
3.	Carbon monoxide (as CO)	IS:5182 (P-X)	ppm	1.90	9.0
4.	Ozone (as O ₃)	IS:5182 (Part-IX)	µg/m ³	9.8	100
5.	Ammonia (as NH ₃)	IS:5182 Part-XXV	µg/m ³	<10	25 (as per NIOSH)
6.	Asbestos	IS:2096:1992	Count	Nil	Not Specified
7.	Carbon dioxide (as CO ₂)	NIOSH	ppm	1059	1000
8.	Methane (as CH ₄)	GC Method	ppm	N.D.	Not Specified
9.	Hydrogen Peroxide (as H ₂ O ₂)	OSHA 1019	ppm	<0.5	1.0 (as per OSHA)

NIOSH- National Institute for Occupational Safety & Health.

OSHA- Occupational Safety & Health Administration.

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AUTHORIZED SIGNATORY

TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-17

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Laser Cutting Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	73.3	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	44.9	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	3.0 ppm

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Authorized Signatory

TEST REPORT**Indoor Air Quality Analysis**

Report Code: AAQ-100124-18

Issue Date: 13/01/2024

Issued To: M/S. AFC SYSTEM PVT. LTD.

Plot No. – 33, Ecotech – 12, Greater Noida West, Gautam Buddha Nagar, (U.P.), India

SAMPLING & ANALYSIS DATA

Sample Description	:	Work Zone Air
Date of Sample Drawn	:	09/01/20204
Sample Drawn By	:	Mr. Amit Sharma (ITS)
Sampling Location	:	Wood Cleaning Area
Sampling Plan & Procedure	:	IS:5182 & CPCB Guidelines
Sampling Instrument Used	:	Handy Sampler & Air Sampler
Date of Sample Received	:	10/01/20204
Analysis Duration	:	10/01/20204 To 13/01/2024

TEST RESULT**Particulate Matter Test :-**

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Particulate Matter (PM10)	IS:5182 Part-XXIII	µg/m ³	75.7	150
2.	Particulate Matter (PM2.5)	Gravimetric	µg/m ³	47.3	35.0

Volatile Organic Compound Test :-

S. No.	Parameter	Test Method	Unit	Results	TVOC Limit as per OSHA (Max)
1.	Benzene	IS:5182 Part-XI	ppm	<0.1	3.0 ppm
2.	Benzo(a) Pyrene	IS:5182 Part-XI	ppm	<0.1	
3.	Hexane	NIOSH 1501	ppm	<0.1	
4.	Formaldehyde	NIOSH 1501	ppm	<0.1	
5.	Mercaptan	NIOSH 1501	ppm	<0.1	
6.	Xylene	NIOSH 1501	ppm	<0.1	
7.	Toluene	NIOSH 1501	ppm	<0.1	
8.	Acetaldehyde	NIOSH 1501	ppm	<0.1	
9.	Total Volatile Organic Compound (as TVOC)	NIOSH 1501	ppm	<0.1	

Checked by

Authorized Signatory

Hazardous Air Pollutants Test :-

S. No.	Parameter	Test Method	Unit	Results	Requirements/ Limit ASHRAE (Max)
1.	Sulphur dioxide (as SO ₂)	IS:5182(P-II)	ppm	12.9	80
2.	Nitrogen dioxide (as NO ₂)	IS:5182(P-VI)	ppm	29.6	100
3.	Carbon monoxide (as CO)	IS:5182 (P-X)	ppm	2.15	9.0
4.	Ozone (as O ₃)	IS:5182 (Part-IX)	µg/m ³	12.3	100
5.	Ammonia (as NH ₃)	IS:5182 Part-XXV	µg/m ³	<10	25 (as per NIOSH)
6.	Asbestos	IS:2096:1992	Count	Nil	Not Specified
7.	Carbon dioxide (as CO ₂)	NIOSH	ppm	1192	1000
8.	Methane (as CH ₄)	GC Method	ppm	N.D.	Not Specified
9.	Hydrogen Peroxide (as H ₂ O ₂)	OSHA 1019	ppm	<0.5	1.0 (as per OSHA)

NIOSH- National Institute for Occupational Safety & Health.

OSHA- Occupational Safety & Health Administration.

CHECKED BY

AUTHORIZED SIGNATORY

FORM 10
[See rule 19 (1)]
S. No. HW 4706

MANIFEST FOR HAZARDOUS AND OTHER WASTE
To Be Forwarded By The Sender To The State Pollution Control Board After Signing All The Seven Copies.

Copy 1 (White)

1	Sender's Name and Mailing Address (including Phone No. and E-mail):	Ecoleg Furniture Systems Pvt. Ltd.
2	Sender's Authorisation No.:	Prod. No-35, Ecotech-18, Gurgaon
3	Manifest Document No.:	4706
4	Transporter's Name and Address (including Phone No. and E-mail):	S.N.M.P.
5	Type of Vehicle:	Truck/Tanker/Special Vehicle
6	Transporter's Registration No.:	UP-HF1-2770
7	Vehicle Registration No.:	
8	Receiver's Name and Mailing Address (including Phone No. and E-mail):	SHEETALA WASTE MANAGEMENT PROJECT D-26, UPSIDC Industrial Area, Sikandrabad, Uttar Pradesh - 203206 Mob: 9643764441 E-mail: swmp@sheetalawaste.com
9	Receiver's Authorisation No.:	133554/UPCB/Bulandshahr (PPCBRO) CTO/Bulandshahr (PPCBRO) D-26, UPSIDC Industrial Area, Sikandrabad (U.P.) Date: 08/01/2021
10	Waste Description:	Chemical Sludge 35.3 Kg
11	Total Quantity:	35.3 kg or MT
12	Physical Form:	(Solid/Semi-Solid/Liquid/Slurry/Tarry/Sludge)
13	Special Handling Instructions and Additional Information:	In case of leakage/spillage, use washing soap at the point of leakage to prevent it. All material should be properly packed in spillage proof containers. Do not throw any material from vehicle.
14	Sender's Certificate:	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
15	Transporter Acknowledgement of Receipt of Wastes:	Name and Stamp: Signature: Date: 06/01/2024
16	Receiver's certification for receipt of hazardous and other waste:	Name and Stamp: Signature: Date: 06/01/2024

SHEETALA WASTE MANAGEMENT PROJECT
(SWMP)

An ISO 9001:2015 & 14001:2015 Certified Company
www.sheetalawaste.com

MEMBERSHIP CERTIFICATE

This is to certify that

E WAY FURNITURE SYSTEMS PVT. LTD.
Plot No. 33, Ecotech-12,
Greater Noida, U.P. - 201310

is a registered member of our CHW-TSDF at
D-26, UPSIDC Industrial Area, Sikandrabad, Bulandshahr, Uttar Pradesh
For Safe, Legal & Scientific Disposal of Hazardous Waste

Membership No.: **SWMP/SKD/0193/22**
Validity: **19 August, 2022 To 18 August, 2027**

To verify validity of membership, call
Sheetala Waste Management Project at
Phone: 0120-2867001/002, +91-9643764441
Email: sales@sheetalawaste.com

For Sheetala Waste Management Project
Managing Director

Note: Membership is subjected to the Terms & Conditions of agreement and may be terminated by SWMP, upon non-payment of dues / service charges.



CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



AFC SYSTEM PVT. LTD.
33, ECOTECH -12 GREATER NOIDA (U.P)
GREATER NOIDA West – 201 310, India

has implemented Quality Management System
in accordance with ISO 9001:2015
for the scope of

**Design, Manufacturing, Supply and Installation of
Metal and Wooden Modular Furniture**

The certificate is valid from 2023-10-30 until 2026-10-29

Subject to successful completion of annual periodic audits
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by
entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of
this certificate may be obtained by consulting the certification body at info.in@tuvsud.com

Certificate Registration No. 99 100 23542

Date of Initial certification: 2023-10-30

Issue Date: 2023-10-30 Rev. 00

Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



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CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



AFC SYSTEM PVT. LTD.
33, ECOTECH -12 GREATER NOIDA (U.P.)
GREATER NOIDA West – 201 310, India

has implemented Environmental Management System
in accordance with ISO 14001:2015
for the scope of

**Design, Manufacturing, Supply and Installation of
Metal and Wooden Modular Furniture**

The certificate is valid from 2023-09-26 until 2026-09-25

Subject to successful completion of annual periodic audits
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by
entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of
this certificate may be obtained by consulting the certification body at info.in@tvsud.com

Certificate Registration No. 99 104 01646

Date of Initial certification: 2023-09-26

Issue Date: 2023-09-26 Rev. 00

Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



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CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



AFC SYSTEM PVT. LTD.
33, ECOTECH -12 GREATER NOIDA (U.P.)
GREATER NOIDA West – 201 310, India

has implemented Occupational Health and Safety Management System
in accordance with ISO 45001:2018
for the scope of

**Design, Manufacturing, Supply and Installation of
Metal and Wooden Modular Furniture**

The certificate is valid from 2023-09-26 until 2026-09-25

Subject to successful completion of annual periodic audits
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by
entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of
this certificate may be obtained by consulting the certification body at info.in@tvsud.com

Certificate Registration No. 99 117 01104

Date of Initial certification: 2023-09-26

Issue Date: 2023-09-26 Rev. 00

Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



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CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



AFC SYSTEM PVT. LTD.
33, ECOTECH -12 GREATER NOIDA (U.P)
GREATER NOIDA West – 201 310, India

has implemented Energy Management System
in accordance with ISO 50001:2018
for the scope of

**Design, Manufacturing, Supply and Installation of
Metal and Wooden Modular Furniture**

The certificate is valid from 2023-10-23 until 2026-10-22

Subject to successful completion of annual periodic audits

The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of this certificate may be obtained by consulting the certification body at info.in@tuv-sud.com

Certificate Registration No. 99 118 00070

Date of Initial certification: 2023-10-23

Issue Date: 2023-10-23 Rev. 00

Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



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BUREAU
VERITAS

Bureau Veritas Certification



AFC System Private Limited

Plot No. 33, Ecotech XII, Dist: Gautam Budha Nagar Greater Noida (W) - 201310, Uttar Pradesh, India

Bureau Veritas Certification Holding (BVCH) certifies that the company has implemented a FSCTM product groups control system according to the Forest Stewardship Council™ certification system, in the above location and complies with the requirements of Standard:

FSC Chain of Custody Certification standard, Ref.: FSC-STD-40-004 V3-1

For its activities concerning:

Manufacturing and Sale of custom furniture and office furniture certified FSC 100% and FSC Mix.*

*Updated list of products & species on the FSC database (info.fsc.org)

Type of certification: Single

Original certification date:	08 November 2023
Certification start date:	08 November 2023
Expiration date:	07 November 2028
FSC Certificate code:	BV-COC-191418
Certificate No. / Version:	IN044959/1
Contract No:	19138179
Issue date:	14 November 2023

Nicolas MEY
Signed on behalf of BVCH

The validity of this certification shall be verified on: info.fsc.org
This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified or FSC Controlled Wood. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on sales and delivery documents.

Bureau Veritas Certification Holding - Tour ALTO, 4 place des saisons, 92400 COURBEVOIE - France: www.bureauveritas.com

Certification decision office: Bureau Veritas Certification China, Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, P.R.C. 100738

Contracting office: Bureau Veritas Certification India

A list of the products or services that are included in the scope of the certificate may be obtained on request to Bureau Veritas Certification. This certificate remains the property of Bureau Veritas Certification, all copies or reproductions and the certificate itself shall be returned or destroyed on Bureau Veritas certification request. All certificates not in English are for reference only

FSC CoC Certificate rev B.2

1/1

August 17, 2023



The mark of
responsible forestry



BALAJI ACTION BUILDWELL PVT. LTD.

PLOT NO. C-34& 34 (A) TO (D), C-6(A) TO (C), C-3, C-98,
PLOT 04 AND 05 ELDECO SIDCUL IND PARK, SITARGUNJ, DIST. UDDHAM, UTTRAKHAND
UDDHAM SINGH NAGAR - 262405, INDIA

Bureau Veritas Certification Holding (BVCH) certifies that the company has implemented a FSCTM product groups control system according to the Forest Stewardship CouncilTM certification system, in the above location and complies with the requirements of Standard:

FSC Chain of Custody Certification standard, Ref.: FSC-STD-40-004 V3-1

For its activities concerning:

MANUFACTURING AND SALES OF PARTICLEBOARD, HIGH-DENSITY FIBREBOARD (HDF) AND MEDIUM-DENSITY FIBREBOARD (MDF) CERTIFIED FSC 100%, FSC MIX AND FSC CONTROLLED WOOD AND LAMINATED FLOORING CERTIFIED FSC MIX USING TRANSFER SYSTEM AND CREDIT SYSTEM.*

*Updated list of products & species on the FSC database (info.fsc.org)

Type of certification: Single

Original certification date:	07 October 2019
Certification start date:	07 October 2019
Expiration date:	06 October 2024
FSC Certificate code:	BV-COC-151638/ BV-CW-151638
Certificate No. / Version:	IN042089/1
Contract No:	15072280
Issue date:	29 December 2022



The mark of responsible forestry

Nicolas MEY
Signed on behalf of BVCH

The validity of this certification shall be verified on: info.fsc.org This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified or FSC Controlled Wood. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on sales and delivery documents.

Bureau Veritas Certification Holding - 8, cours du Triangle - 92800 Puteaux - France: www.bureauveritas.com

Certification decision office: Bureau Veritas Certification China, Room 62, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dapeng District, Beijing, P.R.C. 100738

Contracting office: Bureau Veritas Certification INDIA

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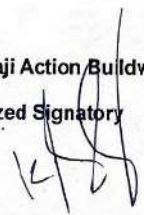

FSC CoC Certificate rev 7.8

1/1

April 29, 2022



Appendix B: Data and Calculations for Chemical Assessment of DeskPro

 action TESA PANELS FLOORING DOORS	CIN : U20211DL2021PTC387480 BALAJI ACTION BUILDWELL PRIVATE LIMITED Regd. Office : G-11, Udhog Nagar, Peeragarhi, New Rohtak Road, North West Delhi, Delhi - 110 041 Ph : 011-41120000, 41120020, Email: investor@actiontesa.com Plant : Plot No. C34, C34 (A) to (D) , C3, C6 (A) to (C), Eldeco Sidcul Industrial Park & Plot No.5, IIE, Sitarganj (US Nagar), Uttarakhand PIN - 262405, India
Date: - 22-March-2024	
We Manufacture: Prelam Particle Board	
Company: Balaji Action Buildwell Pvt Ltd.	
Address: Plot No. C-34, C-34(a) to (d) & C-3, Eldeco Sidcul Industrial Park, Sitarganj-262405, Dist: U.S. Nagar (Uttarakhand) - India	
Material supplied to:	
Company: AFC Furniture Solutions.	
Address: Plot no 33, Ecotech 12, Greater Noida West, UP, 201310	
Invoice No: NA	
Invoice Date: NA	
<u>TO WHOMSOEVER IT MAY CONCERN</u>	
<p>We at Balaji Action Buildwell Pvt Ltd manufacturing Plain Particle board with the ingredients wood fibre (~88 to 90%), MUF (Melamine Urea Formaldehyde) & UF (Urea Formaldehyde) Resin (for mother board) -(~8 to 9%), MF (Melamine Formaldehyde) Resin for Prelamination (~1.5 to 1.75%); Paraffin wax (~0.5 to 1%) & Ammonium Chloride (~0.5 to 1%). We hereby declare that our product Particle board is mainly manufactured with cellulosic, wood species of Eucalyptus tereticornis from legal sources of India.</p>	
<p>Remarks: MUF (Melamine Urea Formaldehyde) – For Exterior Grade UF (Urea Formaldehyde) – For Interior Grade Formaldehyde emission for E1 Products are maintained ≤ 8 mg/100 of dry board</p>	
<p>For Balaji Action Buildwell Pvt Ltd Authorized Signatory  Koushlesh Pandey Asst. Vice President</p>	
<p>www.actiontesa.com</p> 	

Assumptions values of concentration for chemicals based on above statement – 1% Ammonium chloride, 1% Paraffin Wax, 3.6% Urea, 2.67% Melamine. Formaldehyde content was taken based on Prelam Borad test report attached below.

Thickness: 25.00 MM		Party Name: AFC SYSTEM		
Date: 13.05.2022		Batch Number: 09.05.22		
Invoice No. 2223003991		Date Of Manufacturing: 09.05.2022		
Vehicle Number: UP31T-5454		Date Of Sampling: 09.05.2022		
Date Of Testing: 10.05.2022				
SPECIFICATIONS/TEST RESULT				
TESA INTERIOR GRADE PRELAMINATED PARTICLE BOARD E1				
Sl.No.	PROPERTIES	UNIT	Specification As Per I.S. : 12823	Results
1	Dimensions			
	Thickness	(%)	±5	24.94
	Length	mm	±5	2443
	Width	mm	±5	1833
2	Density	Kg/m ³	500 - 900	640
3	Variation from mean density	(%)	±10	2.83
4	Moisture Content	%	5 - 15	6.73
5	Linear Expansion (swelling in water), 2hrs. Soaking			
	Thickness	%	12.00	10.89
6	Water Absorption			
	a) After 2 Hr. soaking	%	15.00	13.32
	b) After 24 Hr. soaking	%	30.00	28.32
7	Modulus of Rupture			
	Average	N/mm ²	11.00	13.18
	Minimum individual	N/mm ²	10.00	-
8	Modulus Of Elasticity			
	Average	N/mm ²	2500	2665
	Minimum individual	N/mm ²	2200	-
9	Internal Bond			
	upto and above 20mm Average	N/mm ²	0.30	0.32
10	Screw Withdrawal Strength			
	Face	N	1250	1541
	Edge (for thick >12mm)	N	750	1056
11	Resistance to steam		Should Pass	Pass
12	Resistance to crack		Should Pass	Pass
13	Resistance to cigarette burn		Should Pass	Pass
14	Resistance to stain		Should Pass	Pass
15	Resistance to surface abrasion		450	470
16	Free Formaldehyde Content (I.S: 13745.1993)	mg/100 gm. of dry board	≤ 8	4.12

Ref.
Chemist

Authorized Signatory

Group	Product name	Purpose of use	Consumption from april to dec 23	Consumption per month	Unit	Use in material	Monthly production of deskpro (kg)
Chemical Item	TARPIN OIL	For Cleaning	4200	467	litre	wood	622500
Adhesive items	JOWAT HOTMELT 280.31 (WHITE)	For Production	1400	156	Kg.	wood	622500
Adhesive items	HOT MELT GLUE 280-50	For Production	400	44	Kg.	wood	622500
Chemical Item	KEM ECORITE AC 1112 L	Powder Coating	4900	544	Kg.	metal	622500
Chemical Item	KEM ECORITE PH 2510	Powder Coating	2510	279	Kg.	metal	622500
Chemical Item	KEM ECORITE CS 1602-D	Powder Coating	320	36	Kg.	metal	622500
Chemical Item	KEM ECORITE AC 1209	Powder Coating	50	6	Kg.	metal	622500
Chemical Item	KEM ECORITE 2803	Powder Coating	0	0	Kg.	metal	622500
Chemical Item	POWDER AKZONOBEL TEXTURE RAVEN	Powder Coating	3620	402	Kg.	metal	622500
Chemical Item	POWDER AKZONOBEL TEXTURE(AF SN	Powder Coating	10000	1111	Kg.	metal	622500
Chemical Item	BLUE MATT RAPID	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	DA GREY MATT HE15005	Powder Coating	520	58	Kg.	metal	622500
Chemical Item	POWDER GRAPHITE GREY PP - RAPID	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	POWDER GRAPHITE GREY TEXTURE - RAPID	Powder Coating	2050	228	Kg.	metal	622500
Chemical Item	POWDER GREY TEXTURE RAPID	Powder Coating	1740	193	Kg.	metal	622500
Chemical Item	POWDER HAVELLS GREY GLOSSY HE9S009 RAPID COAT	Powder Coating	60	7	Kg.	metal	622500
Chemical Item	POWDER MISTY GREY MATT	Powder Coating	960	107	Kg.	metal	622500

	HE15094 RAPID COAT						
Chemical Item	POWDER NUT BROWN MATT - RAPID	Powder Coating	300	33	Kg.	metal	622500
Chemical Item	POWDER RAL 7035 MATT-RAPID COAT	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	POWDER RAPID COAT NEW IVORY S/G HIVS013	Powder Coating	105	12	Kg.	metal	622500
Chemical Item	POWDER WHITE TEXTURE HWHT-001 RAPIDCOAT	Powder Coating	100	11	Kg.	metal	622500
Chemical Item	POWER IVORY SATIN HI2S013 RAPID COAT	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	POWER MET SILVER ASH GREY HSIS-001 RAPID COAT	Powder Coating	210	23	Kg.	metal	622500
Chemical Item	POWER MUNSHELL GREY TEXTURE HE0T023 RAPID COAT	Powder Coating	3600	400	Kg.	metal	622500
Chemical Item	POWER OXFORD BLUE GLOSSY HBIS 004 RAPID COAT	Powder Coating	0	0	Kg.	metal	622500
Chemical Item	POWER PP RAL 9003 WHITE MATT RAPID COAT	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	POWER PP RAL MATT-7024 RAPID COAT	Powder Coating	100	11	Kg.	metal	622500
Chemical Item	POWER RAL2008 HELLROTORANGE RAPID COAT	Powder Coating	20	2	Kg.	metal	622500
Chemical Item	PU WHITE GLOSSY UWHS-003	Powder Coating	70	8	Kg.	metal	622500
Chemical Item	RAPID COAT ULTRA BLUE TEXTURE HBIT003	Powder Coating	20	2	Kg.	metal	622500

HINDALCO INDUSTRIES LIMITED

(Regd. Office: Aditya Centre, 1st floor, 5 Ring, Mahatma, Cross Road, Ahmedabad) Phone: 432 084 Tel: (91-22) 6661 1000 Fax: (91-22) 6661 7071
Website: www.hindalco.com Corporate Identity No. L27000MH1995PL201228

TEST CERTIFICATE

CUSTOMER NAME & ADDRESS			M M METACHART PVT. LTD. BITE IN INDUSTRIAL AREA, DAFARABAD, GHANABAD 382172			CONSIGNEE NAME & ADDRESS			M M METACHART PVT. LTD. BITE IN INDUSTRIAL AREA, DAFARABAD, GHANABAD 382172													
Product: Aluminum Ingot-99.99% (99.99%)			Source Plant: RFG, BITE, Ahmedabad			RFG, BITE, Ahmedabad			RFG, BITE, Ahmedabad													
Customer PO No: As per mail			Plant Order No. & Date: UPRKAT2310011758 28-JUN-23			Truck No: 81M40C5553			Truck No: 81M40C5553													
HIL Sales Order No: 230503010103			GST Invoice No. & Date: UPRKAT2310011758 28-JUN-23																			
Sl.	Packag. No.	Cart No.	Grade	Net Wt. (Kg)	Net Wt. (Kg)	%Si	%Fe	%Mn	%Cu	%Zn	%Cr	%Ti	%B	%Zr	%Nb	%V	Other	%Al	Chem. Analysis	Impurities in Ppm	Batch	Lot
1	1000000000	1000	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
2	1000000000	1001	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
3	1000000000	1002	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
4	1000000000	1003	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
5	1000000000	1004	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
6	1000000000	1005	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
7	1000000000	1006	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
8	1000000000	1007	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
9	1000000000	1008	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
10	1000000000	1009	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
11	1000000000	1010	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
12	1000000000	1011	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
13	1000000000	1012	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
14	1000000000	1013	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
15	1000000000	1014	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
16	1000000000	1015	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
17	1000000000	1016	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
18	1000000000	1017	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
19	1000000000	1018	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
20	1000000000	1019	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
21	1000000000	1020	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
22	1000000000	1021	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
23	1000000000	1022	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
24	1000000000	1023	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
25	1000000000	1024	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
26	1000000000	1025	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
27	1000000000	1026	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
28	1000000000	1027	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
29	1000000000	1028	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
30	1000000000	1029	99.99%	1000	1000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				
Total:			99.99%	29766	29766	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	99.99%				

Remarks:
1. Chemical composition reported in TIC is actual composition and is analysed by wet/dry chemical method.
2. The material complies with ISIRI specifications.
3. The material is in soft strain condition.
4. This is computer generated report, hence no signature is required.
5. For Raw data of ASTM B 925/5

29766
4034
2000K-20

2023/7/10 14:13

Date & Time : 07-25-2023 02:32:52 AM

M M METACRAFT PVT. LTD

Add- Plot No 40/1 C, Site-4, Industrial Area, Sahibabad, Ghaziabad- 201010

Spectro Report

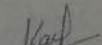
Matrix : Al_Low Alloys


Base : Al

Sample Name: 6063-127-MM-FINAL

Heat No : 116

Elements	Burn1	Burn2	Burn3	Mean	SD
Si	0.4247	0.4192	0.4246	0.4228	0.0031
Fe	0.1064	0.1075	0.1095	0.1078	0.0016
Cu	<0.0100	<0.0100	<0.0100	0.0000	0.0000
Mg	0.5564	0.5440	0.5467	0.5490	0.0055
Mn	<0.0100	<0.0100	<0.0100	0.0000	0.0000
Ti	<0.0100	<0.0100	<0.0100	0.0000	0.0000
Zn	<0.0300	<0.0300	<0.0300	0.0000	0.0000
Ni	<0.0300	<0.0300	<0.0300	0.0000	0.0000
Pb	<0.0300	<0.0300	<0.0300	0.0000	0.0000
Sn	<0.0300	<0.0300	<0.0300	0.0000	0.0000
Cr	<0.0100	<0.0100	<0.0100	0.0000	0.0000
Be	<0.0001	<0.0001	<0.0001	0.0000	0.0000
Al	98.8912	98.9101	98.8952	98.8988	0.0100


Tested By


Authorised By

2023/8/1 09:29

HINDALCO										TEST CERTIFICATE									
CUSTOMER NAME & ADDRESS: M M METACRAFT PVT LTD, RAIPUR INDUSTRIAL AREA, KASNA JAIL ROAD, GREATER NODIA, GAUTAM BUDDHA NAGAR-201306										CONSIGNEE NAME & ADDRESS: M M METACRAFT PVT LTD, RAIPUR INDUSTRIAL AREA, KASNA JAIL ROAD, GREATER NODIA, GAUTAM BUDDHA NAGAR-201306									
Product: Aluminum Billet-Bc 7 Dia 6.35										M/M: M/M Finished Goods									
Customer PO No: As per Mail										Plant Chalan No. & Date: 15-JUL-23									
Hil. Sales Order No.: 2305030102210										GST Invoice No. & Date: MPMH42318001881 15-JUL-23									
Sl.	Packet No.	Cast No.	Gross Wt (kg)	Net Wt (kg)	No. of Pcs	%Si	%Fe	%Mn	%Mg	%Cu	%Zn	%Cr	%Ti	%B	%Zr	%Ni	%Pd	%V	Other
1	MB23065017	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
2	MB23065018	408	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
3	MB23065019	409	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
4	MB23065020	406	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
5	MB23065021	404	402	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
6	MB23065022	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
7	MB23065023	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
8	MB23065024	404	402	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
9	MB23065025	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
10	MB23065026	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
11	MB23065027	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
12	MB23065028	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
13	MB23065029	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
14	MB23065030	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
15	MB23065031	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
16	MB23065032	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
17	MB23065033	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
18	MB23065034	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
19	MB23065035	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
20	MB23065036	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
21	MB23065037	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
22	MB23065038	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
23	MB23065039	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
24	MB23065040	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
25	MB23065041	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
26	MB23065042	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
27	MB23065043	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
28	MB23065044	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
29	MB23065045	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
30	MB23065046	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
31	MB23065047	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
32	MB23065048	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
33	MB23065049	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
34	MB23065050	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
35	MB23065051	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
36	MB23065052	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
37	MB23065053	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
38	MB23065054	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
39	MB23065055	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
40	MB23065056	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
41	MB23065057	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838
42	MB23065058	405	403	1 0.420	0.150	0.004	0.040	0.001	0.008	0.007	0.012								58.838

Date: - 15-09-2022

Product Name: MDF (HNS Code -4411130)

UOM: SQMTR

Manufactured By:

A Balaji Action Buildwell Private Limited
Plot No. C34, C34A to D & C3, Eldeco Sidcul Industrial Pard, Sitarganj
U.S. Nagar – 262405 (Uttarakhand – India)

Supplied To:

-
-

We, hereby declare that we supply the above-mentioned material and it is: **Recyclable / Not Recyclable** (tick one).

At the end-of-life, the product would need to be disposed of to the municipal waste treatment facilities or other certified agencies/organizations who are authorized for recycling the material or use it as a raw material during their own production.

Our supplied material is 100 % recyclable when disposed to above mentioned agencies.

Furthermore, the raw material supplied by us contains/does not contain Pre & Post-Consumer recycled content as mentioned below:

Raw Material	Post-Consumer Recycled Content Used (%)	Pre-Consumer Recycled Content Used (%)
MDF	Nil	20%

We recommend our customer to not throw away the material out in open and always dispose it as per local/regional government laws.

Full Name: Koushlesh Pandey

Signature:



Seal of the Authorized Person:

Date: - 15-09-2022

Product Name: Particle Board (HSN Code-44101110)

UOM: SQMTR

Manufactured By:

A Balaji Action Buildwell Private Limited

Plot No. C34, C34A to D & C3, Eldeco Sidcul Industrial Pard, Sitarganj

U.S. Nagar – 262405 (Uttarakhand – India).

Supplied To:

We, hereby declare that we supply the above-mentioned material and it is: **Recyclable / not recyclable** (tick one).

At the end-of-life, the product would need to be disposed of to the municipal waste treatment facilities or other certified agencies/organizations who are authorized for recycling the material or use it as a raw material during their own production.

Our supplied material is 100 % recyclable when disposed to above mentioned agencies.

Furthermore, the raw material supplied by us contains/does not contain Pre & Post-Consumer recycled content as mentioned below:

Raw Material	Post-Consumer Recycled Content Used (%)	Pre-Consumer Recycled Content Used (%)
PB	Nil	17.50%

We recommend our customer to not throw away the material out in open and always dispose it as per local/regional government laws.

Full Name: Koushlesh Pandey

Signature of Authorized Person:



Appendix C: Emissions Tests Reports following ANSI/BIFMA M7.1- 2011 (R-2021)

Test Report - Products



Test Report: 158287816a1 001

VOC emission test

For testing of individual furniture components following ANSI/BIFMA M7.1- 2011 (R-2021)

1. Manufacturer, product and sample identification

Client Information

Client: AFC SYSTEM PVT LTD
Contact Information: 33, ECOTECH 12, WEST GREATER NOIDA, UTTAR PRADESH, INDIA - 201310
City/State/Country: INDIA
Contact name: SHAHNAWAZ SHEIKH
Phone number: 9823766119

Manufacturer Information

Manufacturing company: AFC SYSTEM PVT LTD
Product name: Curvivo, Livo, Deskpro, XBench, Proceed, Sleek, Trio, Optima, Fenix Series, Adaptable
Product commercial part no.: AFCDESK
Product item no.: AFCDESK
Product category: Desk tables and systems
Manufacturer ID: Hong kong- 272525106996- fedex
Date manufactured: 2024-03-20
Date collected: 2024-03-20
Date shipped: 2024-03-22

Sample/Specimen Information

Date received: 2024-03-28
Specimen ID (Lab tracking No.): A003685994
Conditioning period start & duration: 2024-04-05, 3 days
Test period start & duration: 2024-04-08, 96 hours
Condition at delivery: Test item complete and undamaged
Place of testing: Chemical laboratory Hong Kong

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Tel.: (852) 2192 1000 Fax: (852) 2192 1003 Mail: service-gc@tuv.com • Web: www.tuv.com

2. Test Methods and conditions

An estimated building concentration compliance approach of the sample is considered for the analysis. The whole product is loaded inside the test chamber.

Table 1. Sample emitting parts

Component	Material Description	No. of pcs of sample	Surface area in chamber (m ²)
Curvivo, Livo, Deskpro, XBench, Proceed, Sleek, Trio, Optima, Fenix Series, Adaptable	Pre-laminated particle board, ABS edge banding, aluminium profiles, fabric, powder coat	4	0.50

Chamber conditions are described in table 2.

Table 2. Test chamber conditions

Test Parameters	Test chamber conditions
Emission test chamber volume	1 m ³
Chamber air supply flow rate [Q _{chamber}]	1 m ³ /h
Temperature	23 ± 1°C
Humidity	50 ± 5 %
Test specimen description	Entire sample
Test specimen amount [A _{chamber}]	0.50 m ²
Test duration	168 h

VOC and aldehydes active sampling were performed in duplicate by pumping air through respective sorbent just before beginning of the test, then after 72 ± 2 hours and 168 ± 2 hours after introduction of the test specimen in the emission test chamber. Sampling conditions are represented in Table 3.

Table 3. Sampling conditions

Sampling conditions	VOC	Aldehydes (C ₁ -C ₂)
Number of sampled tubes	2	2
Sorbent type	Tenax TA	DNPH
Sampling duration	54 min	100 min
Sampling air flow rate	75 mL/min	0.8 L/min
Sampled air volume	4.0 L	80L

The chemical analysis was performed following test methods ISO 16000-3 and ISO 16000-6 for the analysis of respectively aldehydes in DNPH cartridges by HPLC-UV and VOCs/TVOCs in Tenax tubes by TD-GC-MS.

3. Data Analysis Procedures

3.1 Emission factors

The emission factor for each individual VOC (including individual aldehydes) and TVOC was calculated using equation 1, where the emission factors at 72 h and 168 h [E(t_i)] is equal to the product of the chamber air supply flow rate [Q_{chamber}] and the chamber concentration [C_{chamber}] at the different times, divided by the no. of component units [A_{chamber}] of product tested in the test chamber.

$$E(t_i) = \frac{Q_{chamber} \times C_{chamber}}{A_{chamber}} \quad \text{Equation 1}$$

The emission factor for each individual aldehydes was calculated using equation 2, where the emission factors at 72 h and 168 h [E(t_i)_{μmol}] is equal to the emission factor for each individual aldehydes [E(t_i)] divided by the molecular weight (molar mass) [MW] of the respective compound.

$$E(t_i)_{\mu mol} = \frac{E(t_i)}{MW} \quad \text{Equation 2}$$

4. Results

Table 4. Chamber concentrations [C_{chamber}] of VOCs between n-C6 and n-C16 measured by GC/MS

Substance	CAS no.	Chamber concentration ($\mu\text{g}/\text{m}^3$)	
		72 h	168 h
Butanoic acid	107-92-6	2	n.d.
1-Butanol	71-36-3	1	1
Octane	111-65-9	2	n.d.
Nonane	111-84-2	2	1
Decane	124-18-5	2	1
Dodecane	112-40-3	3	2
Tridecane	629-50-5	5	2
Tetradecane	629-59-4	5	3
Pentadecane	629-62-9	2	n.d.
Hexadecane	544-76-3	4	2
Ethylbenzene	100-41-4	1	n.d.
2-Butanone	78-93-3	2	2
2-Pentanone	107-87-9	2	1
2-Heptanone	110-43-0	3	1
Cyclohexanone	108-94-1	1	n.d.
Butyrolactone	96-48-0	6	n.d.
2(3H)-Furanone, 5-ethyldihydro-	695-06-7	2	n.d.
5-Tetradecene, (E)-	41446-66-6	2	n.d.
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	2	1
4-Phenylcyclohexene	4994-16-5	n.d.	n.d.
Total of all VOC (TVOC) (C6-C16)	--	49	17

Note:

n.d. = not detected ($< 1 \mu\text{g}/\text{m}^3$)

The DNPH cartridges were analyzed by HPLC and quantified as described in BIFMA M7.1-2011 (R-2021) in order to obtain the chamber concentrations of formaldehyde and acetaldehyde.

Table 5. Chamber concentrations of formaldehyde and acetaldehyde by HPLC analysis

Substance	CAS no.	Chamber concentration ($\mu\text{g}/\text{m}^3$)	
		72 h	168 h
Formaldehyde	50-00-0	5	n.d.
Acetaldehyde	75-07-0	n.d.	n.d.

Note:

n.d. = not detected ($< 5 \mu\text{g}/\text{m}^3$)

Table 6. Calculated specific emission factor for identified VOCs, TVOC, formaldehyde and acetaldehyde

Substance	CAS no.	Emission factor ($\mu\text{g}/\text{m}^2\text{h}$)	
		72 h	168 h
Butanoic acid	107-92-6	4.03	--
1-Butanol	71-36-3	2.02	2.02
Octane	111-65-9	4.03	--
Nonane	111-84-2	4.03	2.02
Decane	124-18-5	4.03	2.02
Dodecane	112-40-3	6.05	4.03
Tridecane	629-50-5	10.08	4.03
Tetradecane	629-59-4	10.08	6.05
Pentadecane	629-62-9	4.03	--
Hexadecane	544-76-3	8.06	4.03
Ethylbenzene	100-41-4	2.02	--
2-Butanone	78-93-3	4.03	4.03
2-Pentanone	107-87-9	4.03	2.02
2-Heptanone	110-43-0	6.05	2.02
Cyclohexanone	108-94-1	2.02	--
Butyrolactone	96-48-0	12.10	--
2(3H)-Furanone, 5-ethyldihydro-	695-06-7	4.03	--
5-Tetradecene, (E)-	41446-86-6	4.03	--
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	4.03	2.02
4-Phenylcyclohexene	4994-16-5	--	--
Total of all VOC (TVOC) (C6-C16)	--	98.79	34.27
Formaldehyde	50-00-0	10.08	--
Acetaldehyde	75-07-0	--	--

Table 7. Calculated specific emission factor of aldehydes

Substance	CAS no.	Emission factor ($\mu\text{mol}/\text{m}^2\text{h}$)	
		72h	168 h
Formaldehyde	50-00-0	0.34	--
Acetaldehyde	75-07-0	--	--
Total aldehydes	--	0.34	--

Table 8. Calculation of emission factors at 336 hours based on the Power law Model Prediction of VOCs and TVOC

Substance	CAS no.	Power Law Model Coefficients for $E=at^b$		Emission factor at 336 hours ($\mu\text{g}/\text{m}^2\text{h}$)
		a	b	
Butanoic acid	107-92-6	--	--	--
1-Butanol	71-36-3	2.02	0.00	2.02
Octane	111-65-9	--	--	--
Nonane	111-84-2	133.34	0.82	1.14
Decane	124-18-5	133.34	0.82	1.14
Dodecane	112-40-3	46.82	0.48	2.89
Tridecane	629-50-5	1028.15	1.08	1.91
Tetradecane	629-59-4	132.82	0.60	3.98
Pentadecane	629-62-9	--	--	--
Hexadecane	544-76-3	266.69	0.82	2.29
Ethylbenzene	100-41-4	--	--	--
2-Butanone	78-93-3	4.03	0.00	4.03
2-Pentanone	107-87-9	133.34	0.82	1.14
2-Heptanone	110-43-0	1548.35	1.30	0.82
Cyclohexanone	108-94-1	--	--	--
Butyrolactone	96-48-0	--	--	--
2(3H)-Furanone, 5-ethyldihydro-	695-06-7	--	--	--
5-Tetradecene, (E)-	41446-86-6	--	--	--
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	133.34	0.82	1.14
4-Phenylcyclohexene	4994-16-5	--	--	--
Total of all VOC (TVOC) (C6-C16)	--	20665.71	1.25	14.42

Table 9. Calculation of emission factors at 336 hours based on the Power law Model Prediction of aldehydes

Substance	CAS no.	Power Law Model Coefficients for $E=at^b$		Emission factor at 336 hours ($\mu\text{g}/\text{m}^2\text{h}$)
		a	b	
Formaldehyde	50-00-0	--	--	--
Acetaldehyde	75-07-0	--	--	--
Total aldehydes	--	--	--	--

5. Evaluation

Table 10. Evaluation according to the requirements of BIFMA X7.1-2011 (R-2021) for individual furniture components at 168 hours

Chemical Contaminant	Emissions Limits Open Plan Workstation	Emissions Limits Private Office Workstation	Test result at 168h	Evaluation
Formaldehyde ($\mu\text{g}/\text{m}^2\text{hr}$)	42.3	85.1	--	Pass
TVOC ($\mu\text{g}/\text{m}^2\text{hr}$)	345	694	34.27	Pass
Total Aldehydes ($\mu\text{mol}/\text{m}^2\text{hr}$)	2.8	5.7	--	Pass
4-Phenylcyclohexene ($\mu\text{g}/\text{m}^2\text{hr}$)	4.5	9.0	--	Pass

Table 11. Evaluation of individual VOCs at 336 hours according to ANSI/BIFMA e3-2019, Credit 7.6.2

Compound name	CAS no.	Open Plan Maximum Allowable Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Private Office Maximum Allowable Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Calculated emission factor at 336h ($\mu\text{g}/\text{m}^2\text{h}$)	Evaluation
Butanoic acid	107-92-6	--	--	--	Pass
1-Butanol	71-36-3	--	--	2.02	Pass
Octane	111-65-9	--	--	--	Pass
Nonane	111-84-2	--	--	1.14	Pass
Decane	124-18-5	--	--	1.14	Pass
Dodecane	112-40-3	--	--	2.89	Pass
Tridecane	629-50-5	--	--	1.91	Pass
Tetradecane	629-59-4	--	--	3.98	Pass
Pentadecane	629-62-9	--	--	--	Pass
Hexadecane	544-76-3	--	--	2.29	Pass
Ethylbenzene	100-41-4	689	1392	--	Pass
2-Butanone	78-93-3	--	--	4.03	Pass
2-Pentanone	107-87-9	--	--	1.14	Pass
2-Heptanone	110-43-0	--	--	0.82	Pass
Cyclohexanone	108-94-1	--	--	--	Pass
Butyrolactone	96-48-0	--	--	--	Pass
2(3H)-Furanone, 5-ethylidihydro-	695-06-7	--	--	--	Pass
5-Tetradecene, (E)-	41446-66-6	--	--	--	Pass
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	--	--	1.14	Pass
4-Phenylcyclohexene	4994-16-5	--	--	--	Pass
Total of all VOC (TVOC) (C6-C16)	--	--	--	14.42	Pass
Formaldehyde	50-00-0	11	23	--	Pass
Acetaldehyde	75-07-0	48	97	--	Pass
Total aldehydes	--	--	--	--	Pass

Table 12. Evaluation of individual VOCs at 336 hours according to CDPH/ EHLB Standard Method V1.2

Substance	CAS no.	Emission factor at 336 hours ($\mu\text{g}/\text{m}^2\text{h}$)	Allowable Concentration ($\mu\text{g}/\text{m}^3$)	Open-plan workstation estimated concentration ($\mu\text{g}/\text{m}^3$)	Evaluation
Butanoic acid	107-92-6	--	--	--	Pass
1-Butanol	71-36-3	2.02	--	2.92	Pass
Octane	111-65-9	--	--	--	Pass
Nonane	111-84-2	1.14	--	1.66	Pass
Decane	124-18-5	1.14	--	1.66	Pass
Dodecane	112-40-3	2.89	--	4.19	Pass
Tridecane	629-50-5	1.91	--	2.76	Pass
Tetradecane	629-59-4	3.98	--	5.77	Pass
Pentadecane	629-62-9	--	--	--	Pass
Hexadecane	544-76-3	2.29	--	3.31	Pass
Ethylbenzene	100-41-4	--	1000	--	Pass
2-Butanone	78-93-3	4.03	--	5.84	Pass
2-Pentanone	107-87-9	1.14	--	1.66	Pass
2-Heptanone	110-43-0	0.82	--	1.19	Pass
Cyclohexanone	108-94-1	--	--	--	Pass
Butyrolactone	96-48-0	--	--	--	Pass
2(3H)-Furanone, 5-ethylidihydro-	695-06-7	--	--	--	Pass
5-Tetradecene, (E)-	41446-66-6	--	--	--	Pass
2(3H)-Furanone, dihydro-4-methyl-	1679-49-8	1.14	--	1.66	Pass
4-Phenylcyclohexene	4994-16-5	--	--	--	Pass
Total of all VOC (TVOC) (C6-C16)	--	14.42	--	20.89	Pass
Formaldehyde	50-00-0	--	9	--	Pass
Acetaldehyde	75-07-0	--	70	--	Pass
Total aldehydes	--	--	--	--	Pass

Table 13. Evaluation of formaldehyde at 336 hours according to ANSI/BIFMA e3-2019, Credit 7.6.3 – Individual furniture components maximum emission factor

Compound name	CAS no.	Open Plan Workstation Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Private Office Workstation Emission Factor ($\mu\text{g}/\text{m}^2\text{h}$)	Calculated emission factor at 336h ($\mu\text{g}/\text{m}^2\text{h}$)	Evaluation
Formaldehyde	50-00-0	6.2	12.5	--	Pass

6. Conclusion

The following indoor air quality emission criteria for testing of individual furniture components following ANSI/BIFMA M7.1-2011 (R-2021) have been met:

- ANSI/BIFMA X7.1/M7.1-2011 (R-2021), Private office, Open plan
- ANSI/BIFMA e.3-2019, Credit 7.6.1, Private office, Open plan
- ANSI/BIFMA e.3-2019, Credit 7.6.2, Private office, Open plan
- ANSI/BIFMA e.3-2019, Credit 7.6.3, Private office, Open plan
- CDPH/ EHLB Standard Method V1.2

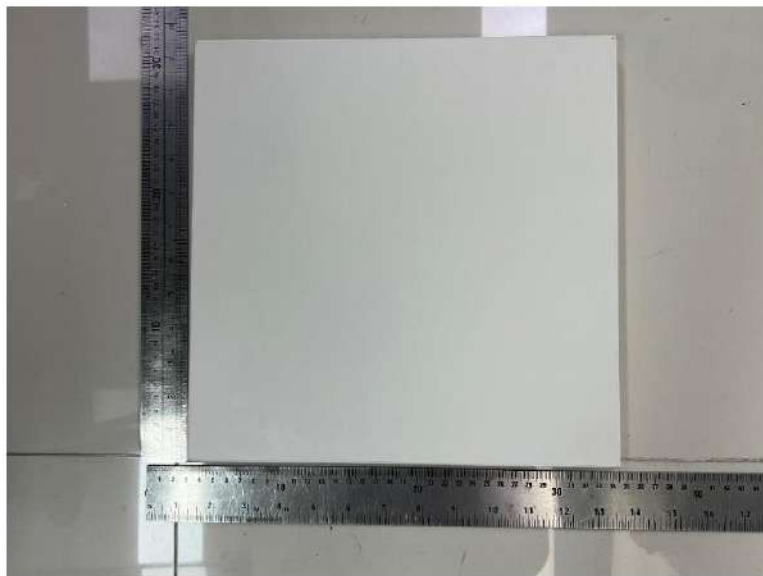
Hong Kong, 2024-04-22

TÜV Rheinland Hong Kong Ltd.



Gary Choi
Project Executive

7. Photo



Photos 1. Tested sample – Curvivo, Livo, Deskpro, XBench, Proceed, Sleek, Trio, Optima, Fenix Series, Adaptable

8. Chain of Custody

TÜV Rheinland Hong Kong Ltd
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 Page 1 of 2

VOC EMISSION TESTING APPLICATION FORM AND CHAIN OF CUSTODY

揮發性及有機化合物釋放測試申請表

Please fill out one form per sample and return it to us. Thanks.

請為每個測試樣品填寫一份申請表，然後將填寫的申請表傳回我們。謝謝。

Please ship sample to/ 將樣品寄送到:

3/F., Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, Hong Kong (Sample Reception)
 香港新灣山街10-16號第3樓(收樣部)

Please fill in by computer - send with sample, and per email/ 請使用電腦填寫 - 並連同樣品及透過電郵交回

Client/ 客戶	Report to be sent to/ 報告送到	Invoice to be sent to/ 發票送到	Copy of report to be sent to/ 報告副本送到
Company/ 公司	AFC SYSTEM PVT LTD	AFC SYSTEM PVT LTD	AFC SYSTEM PVT LTD
Contact person/ 聯絡人	SHAHNAWAZ SHEIKH	SHAHNAWAZ SHEIKH	SHAHNAWAZ SHEIKH
E-mail/ 電子郵件	shahnawaz@afcindia.in	shahnawaz@afcindia.in	afci@afcindia.in
Address/ 地址	33, ECOTECH 12, WEST GREATER NOIDA, UTTAR PRADESH, INDIA - 201310	33, ECOTECH 12, WEST GREATER NOIDA, UTTAR PRADESH, INDIA - 201310	33, ECOTECH 12, WEST GREATER NOIDA, UTTAR PRADESH, INDIA - 201310
Postcode/town/ 郵編/ 鎮	201310	201310	201310
Country/ 國家	INDIA	INDIA	INDIA
Telephone no./ 電話號碼	9823766119	9823766119	9823766119
Fax no./ 傳真號碼			
Your reference/ 您的參考			

Test Method(s) ordered:

1. AgBB/DIBt (full test, incl. aldehydes) Without aldehydes test after 28 days AgBB/DIBt (only 7 days) Without aldehydes after 7 days	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	8. LGA Tested Safety & Contamination: VOC/揮發性及有機化合物 Formaldehyde/ 甲醛 Odour/ 氣味	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. French mandatory VOC label (including 4 regulated CMR)	<input type="checkbox"/>	9. Formaldehyde/ 甲醛: EN 717-1 ISO 16000-3 (DNPH) ASTM D6007	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
3. CDPH Section 01350	<input type="checkbox"/>	10. VOC emission/ 揮發性及有機化合物釋放 ISO 16000-6.0 ASTM 5116	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
4. FloorScore	<input type="checkbox"/>		
5. ANSI/BIFMA M7.1-2011	<input checked="" type="checkbox"/>		
6. Indoor Advantage	<input type="checkbox"/>		
7. Indoor Advantage GOLD	<input checked="" type="checkbox"/>		

Further information - Please fill in only if necessary

Type of Chamber: Mid-scale <input type="checkbox"/> Small-scale <input type="checkbox"/>	Length of testing: 24h <input type="checkbox"/> 72h <input type="checkbox"/> 168h <input checked="" type="checkbox"/> 336h <input type="checkbox"/> Other: _____	Reporting of results: Emission Factors only <input type="checkbox"/> Room concentrations modeling <input type="checkbox"/>
Other test/information:		
Report format:	PDF <input type="checkbox"/> Printed <input type="checkbox"/> Printed & PDF <input checked="" type="checkbox"/>	

TÜV Rheinland Hong Kong Ltd
 香港德意志萊茵蘭集團有限公司
 SAMPLE PICKUP SERVICE
 HOTLINE: +852 2192 1000
 EMAIL: samplepickup@hk.tuv.com

3, 4/F., Fou Wah Industrial Building, 10-16 Pun Shan Street,
 Tsuen Wan, Hong Kong
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 TEL: +852 2192 1000
 FAX: +852 2192 1003
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Test Report - Products



Test Report: 158287816a1 001

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VOC EMISSION TESTING APPLICATION FORM AND CHAIN OF CUSTODY
揮發性有機化合物測試申請表及試品鏈

Please fill out one form per sample and return it to us. Thanks.
請為每個測試樣品填寫一份申請表，然後將填妥的申請表寄回給我們。謝謝。

Internal use only / TÜV 集團內部使用
Order No: 156 367866
Reviewed by (date):

Product Commercial Name:	Curvivo, Livo, Deskpro, X Bench, Proseed, Sleek, Trio, Optimo, Fenix Series, Adaptable	Product Commercial Part No.:	AFCDESK
Product Dimensions: (height x width x thickness)	300 mm x 300 mm x 25mm thick	Product item No.:	AFCDESK
Manufacturer Sample Tracking ID:	Hong kong- 272525106996-fedex	Date Manufactured:	20-03-2024
Product Category and Use:	Desk tables and systems	Sample Construction Material:	Pre-laminated particle board, ABS edge banding, aluminium profiles, fabric, powder coat
Plant Name & Location:	AFC SYSTEM PVT LTD 33, ECOTECH 12, WEST GREATER NOIDA, UTTAR PRADESH, INDIA - 201310	Collection Location in Plant:	WOOD PACKING AND PARTITION PACKING AREA
Date and Time of collection:	20-03-2024 6PM IST	Sample Collected by:	SHAHNAWAZ
Storage of Sample after Sampling:	Wooden box	Packing Material:	Aluminium foil and wooden box
Packed and Shipped by:	AFC SYSTEM PVT LTD	Shipping Date:	22-03-2024
Carrier:	FEDEX	Airbill Number:	272525106996

FOR LABORATORY USE ONLY:			
Received by:	Gary Choi	Received date:	28 Mar 2024
Conditions of package:	FINE	Conditions of Sample:	FINE
Received by:	Gary Choi	Signature:	Gary
Company:	TÜV Rheinland Hong Kong Ltd	Laboratory:	Chemical Laboratory Hong Kong
Sample Number:	AD03685994	Report Number:	158287816a1 001

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service-gc@tuv.com 800888888

- END -

Appendix D: Average monthly consumption of Maintenance & Operations Chemicals

Sr.no.	Chemical Description	monthly consumption	UOM
1	Hydraulic Oil 68	10	litres
2	Grease EPO	1	kg
3	Engine Oil 15W40	5	litres
4	Diesel	2400	litres
5	Tarpene oil	600	litres
6	Grease L32N	10	kg
7	Mobil Oil 40	20	litres
8	Transformer Oil (Paraffin based) 15-335	5	litres
9	Air Compressor Oil - 46	5	litres
10	Cutting Oil - 222	50	litres
11	Gear Oil - 90	5	kg

Housekeeping Stock as on		Sep-23 Stock	Oct-23 Stock	Nov-23 Stock	Dec-23 Stock	Average Consumption
sS.No.	Liquid Items	Qty (Ltr.)	Qty (Ltr.)	Qty (Ltr.)	Qty (Ltr.)	
1	Taski R-1	8	10	8	7	10
2	Taski R-2	10	8	10	10	10
3	Taski R-3	10	10	10	8	10
4	Taski R-5	8	10	10	5	10
5	Taski R-6	10	7	10	8	10
6	Taski R-7	3	7	3	5	5
7	Taski R-9	1	1	2	1	2
8	Taski D-7	1	1	1	1	1
9	Taski '101	1	2	1	1	2
10	Taski '103	2	2	2	2	2
11	Phenyl	8	8	10	10	10
12	Handwash Soap (Normal)	15	15	15	15	15
13	Handwash Soap (Dittol)	3	2	3	3	3
14	Odonil	8	8	8	8	8 Pcs
15	Naphthalene balls	5	2	2	2	3 Pkt