**REPORT FORMAT:** CL-1 | Version: 1.0\_2018

# FILE No.: VIS(2023-24)-PL576-486-743 Date: 15-12-2023

* **CERTIFICATE NAME:** Capacity/Performance Certificate of Plant & Machinery.
* **FOR ORGANIZATION:** M/s Nuflower Foods and Nutrition Pvt. Ltd.
* **ASSET TYPE**: Manufacturer of Energy Dense Nutritious Foods
* **CURRENT LOCATION OF THE MACHINES:** Plot No. 303, Sector-7-II, IMT Manesar, Gurugram, Haryana

**TO WHOMSOEVER IT MAY CONCERN**

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| **S. NO.** | **PARTICULARS** | **DESCRIPTION** |
|  | Date of Certificate | 15-12-2022 |
|  | Date of Survey | 14-12-2023 |
|  | Work Order Reference No. | Via E-mail dated: 13-12-2023 |
|  | Documents provided for perusal | * List of Machines * Copy of Machine Invoices * Process Flow Chart |
|  | Current Location of the Machines | Plot No. 303, Sector-7-II, IMT Manesar, Gurugram, Haryana |
|  | Company Name | M/s. Nuflower Foods and Nutrition Pvt. Ltd. |
|  | Type of Industry | Machines for manufacturing of Energy Dense Nutritious Foods |
|  | Type of Assessment | Capacity Certificate of Plant & Machinery |
|  | Scope of Assessment | Capacity Certificate of Plant & Machinery |
|  | Purpose of Certificate | For Karnataka Government Tender purpose |
|  | Nature of Machinery | Machines related to Food Industry |
|  | Current Status of the machines | All the machines found to be installed & operational as per the list provided to us |
|  | Condition of Machines | Physical condition of all the machines are good & operational |
|  | Coordinating Person details from the company providing the details | Mr. Saday Singh (+91 99717 89969) |
|  | Final Conclusion | All the machines found to be installed & operational as per the list provided to us as mentioned in Part-A of the Certificate. Capacity has been checked and found to be ok as described in the list. |

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| **PART A** | **CAPACITY ASSESSMENT OF PLANT & MACHINERY** |

## PLANT & MACHINERY CAPACITY:

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| **Sr. No.** | **Process Equipment for Batch Manufacturing & Packing** | **Working Capacity** | **Unit** |
| 1 | Oil Transfer Pump | 4,000 | KG/H |
| 2 | Buffer Oil Tank | 400 | KG |
| 3 | Buffer Oil Transfer Pump | 2,000 | KG/H |
| 4 | Emulsifier Tank | 400 | KG |
| 6 | Buggy Lift and assembly | 3,000 | KG/H |
| 7 | Core Mill (Paste Making) | 1,200 | KG/H |
| 8 | Ribbon Blender | 1,800 | KG |
| 9 | Collection Tank | 1,800 | KG |
| 10 | Scrapped Surface Heater (Heating Contherm) | 2,000 | KG/H |
| 11 | Holding Tank -1 | 1,800 | KG |
| 12 | Holding Tank -2 | 1,800 | KG |
| 13 | Scrapped Surface Heater (Cooling Contherm) | 2,000 | KG/H |
| 14 | Buffer Tank | 1,800 | KG |
| 15 | Transfer Pump (Twin Screw Type) - 20 Bar | 3,000 | KG/H |
| 16 | Transfer Pump (Twin Screw Type) - 10 Bar | 3,000 | KG/H |
| 17 | Inline Metal Detector | 2,250 | KG/H |
| 18 | Pouch Packing Machine with online batch code printer | 2,250 | KG/H |
| 19 | X-Ray Metal Detector | 3,000 | KG/H |
| 20 | Belt Conveyor | 3,000 | KG/H |
| 21 | Carton Tape Sealer - Double Side | 3,000 | KG/H |
| 22 | Carton Coder | 3,000 | KG/H |

## OBSERVATIONS:

1. The subject plant is involved in manufacturing of “Ready-to-use Therapeutic Food” (RUTF), Ready-to-Use Supplementary Food (RUSF) and Lipid-based Nutrient Supplement (LNS) which are being exported majorly to African Countries.
2. The output capacity of the plant is ascertained by Ribbon Blender, which is used to break down lumps and agglomerates of food. As per copy of Tax Invoice dated 02-01-2022 by Primesol & Ergo System, the Capacity of Ribbon Blender is 1500 KG/Hr. However, company is operating Ribbon Blender at Capacity of 1800 KG/Hr with some Design modification & up-gradation for which company has also provided the drawing. The overall calculation of capacity is as follows:-

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| **S. No.** | **Particular** | **Unit** | **UOM** |
| 1 | Per mixing Size/Capacity | KG | 1800 |
| 2 | Per Mixing Duration | Minutes | 60 |
| 3 | Total Mixing Cycle/day | Nos. | 24 |
| 4 | Per Day manufacturing capacity | MT | 43.2 |
| 5 | Available working days | Days | 300 |
| **Total per annum manufacturing Capacity** | | **MT** | **12,960** |

1. We have physically verified all the machines/equipment as per list shared by the company with their Tax Invoice & Specification Tag mentioned on machine to crosscheck its capacity.
2. Upon a thorough examination of the current plant and machinery situated at the specified plant location, it has been determined that the facility is equipped to manufacture the above mentioned quantity of Therapeutic Foods.
3. As per previous production data shared by the company, the min. & max. production is 1576 kg/hr & 1919 kg/hr respectively. Thus, we can say that the subject plant is capable of producing approx.1800 Kg./hr. of the specified product.

## METHODOLOGY/ APPROACH ADOPTED:

## On site physical verification of the Plant & Machines against specified the list of Machines provided to us by the company as shown above.

## Process flow of the plant is considered and attached in below annexures.

## During visit related Invoices/ Bills are also procured from the company.

## Photographs taken of the machines installed which are also attached with the certificate.

## Past production data analysis.

***Disclaimer:***

* 1. *During the course of the assessment, several information/ data/ inputs is referred made available to us by the company and in the event this is found to be incorrect then this certificate would be null & void.*
  2. *This Capacity/Performance Certificate is stated on the basis of the site visit by the surveyor and we don’t recommend any sort of recommendation in our Certificate.*
  3. *As per physical inspection and observation made during site visit dated 14th December 2023. Company has installed all the machines mentioned in the provided list.*
  4. *This certificate doesn’t include any work related to drawing, design, sketch plan, and technical specifications of the machines.*
  5. *Ownership and other legal point of view in respect of the asset is not considered in this report as same is out of scope of this certificate.*
  6. *This certificate is made at the request of the Company.*
  7. *We have not commented upon whether the machines are new or old.*
  8. *This certificate should not be used for any other purpose except as specified.*
  9. *Level 1 (Primary) scrutiny approach is applied within the limited time to the best of the possibility using specified best practices. However chances of error can’t be ruled out which may require detailed verification & scrutiny.*

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| **SURVEY ANALYST** | **ENGINEER** | **REVIEWER** |
| Manas Upmanyu &  Mohd. Shahid | Abhinav Chaturvedi | Sr. V.P. Projects |
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# ANNEXURE: PHOTOGRAPHS

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| **E:\Abhinav Chaturvedi's Assignments\In-Progress\Manesar\Documents\Photos\6acd84b0-f0f6-4526-bd51-4819b9422a1a.JPG** | **E:\Abhinav Chaturvedi's Assignments\In-Progress\Manesar\Documents\Photos\7d9e6cc3-240f-4b17-ba2b-ad10721648f2.JPG** |

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| **E:\Abhinav Chaturvedi's Assignments\In-Progress\Manesar\Documents\Photos\c7f4565b-0503-44bb-90e1-dac1c9c5a589.JPG** | **E:\Abhinav Chaturvedi's Assignments\In-Progress\Manesar\Documents\Photos\edc3b450-78ae-40a5-8361-767cc63bdb20.JPG** |

# ANNEXURE: PROCESS FLOW CHART



