

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 Nuflow 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

S. NO.	PARTICULARS	DESCRIPTION
1.	Date of Certificate	15-12-2022
2.	Date of Survey	14-12-2023
3.	Work Order Reference No.	Via E-mail dated: 13-12-2023
4.	Documents provided for perusal	<ul style="list-style-type: none">• List of Machines• Copy of Machine Invoices• Process Flow Chart
5.	Current Location of the Machines	Plot No. 303, Sector-7-II, IMT Manesar, Gurugram, Haryana
6.	Company Name	M/s. Nuflow Foods and Nutrition Pvt. Ltd.
7.	Type of Industry	Machines for manufacturing of Energy Dense Nutritious Foods
8.	Type of Assessment	Capacity Certificate of Plant & Machinery
9.	Scope of Assessment	Capacity Certificate of Plant & Machinery
10.	Purpose of Certificate	For Karnataka Government Tender purpose
11.	Nature of Machinery	Machines related to Food Industry
12.	Current Status of the machines	All the machines found to be installed & operational as per the list provided to us
13.	Condition of Machines	Physical condition of all the machines are good & operational
14.	Coordinating Person details from the company providing the details	Mr. Saday Singh (+91 99717 89969)
15.	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.

REGISTERED OFFICE:

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CORPORATE OFFICE:

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PART A

CAPACITY ASSESSMENT OF PLANT & MACHINERY

1. PLANT & MACHINERY CAPACITY:

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:

- 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.
- 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:-

[Handwritten signature]



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

- c) 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.
- d) 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.
- e) 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.




2. METHODOLOGY/ APPROACH ADOPTED:

- a. On site physical verification of the Plant & Machines against specified the list of Machines provided to us by the company as shown above.
- b. Process flow of the plant is considered and attached in below annexures.
- c. During visit related Invoices/ Bills are also procured from the company.
- d. Photographs taken of the machines installed which are also attached with the certificate.
- e. Past production data analysis.



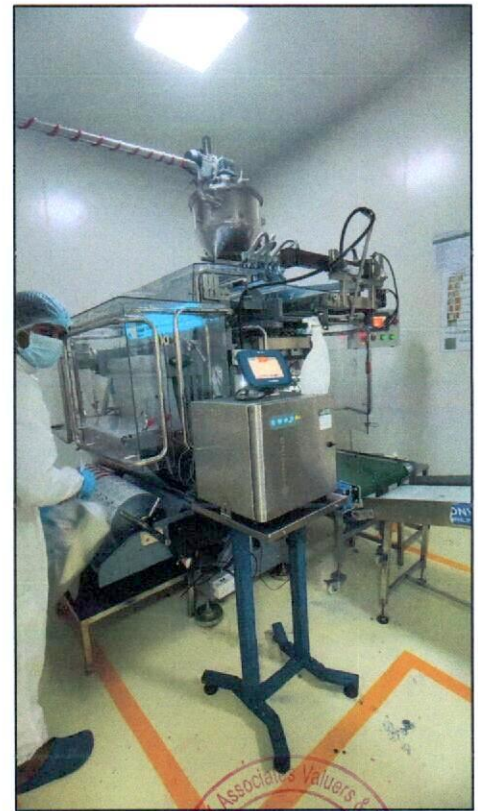
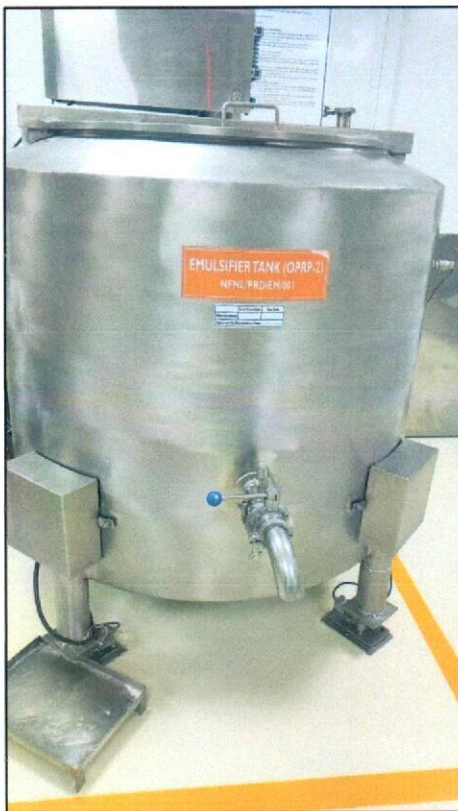
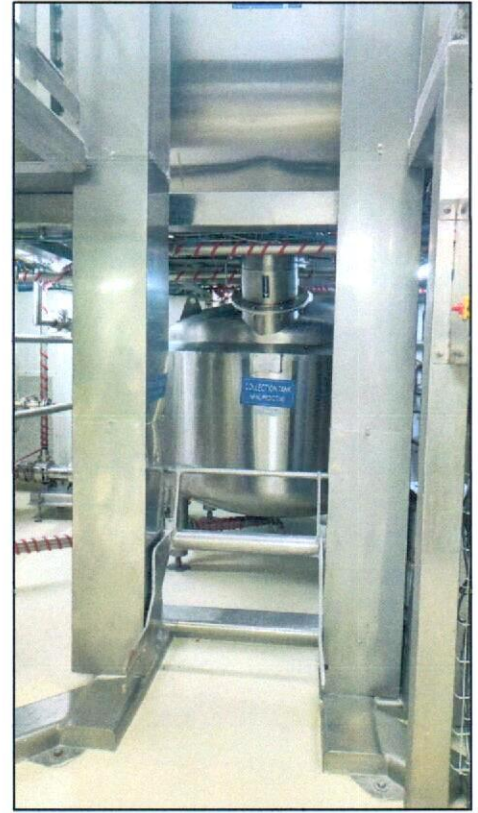
Disclaimer:

- a. 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.
- b. 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.
- c. 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.
- d. This certificate doesn't include any work related to drawing, design, sketch plan, and technical specifications of the machines.
- e. 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.
- f. This certificate is made at the request of the Company.
- g. We have not commented upon whether the machines are new or old.
- h. This certificate should not be used for any other purpose except as specified.
- i. 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.

SURVEY ANALYST	ENGINEER	REVIEWER
Manas Upmanyu & Mohd. Shahid	Abhinav Chaturvedi	Sr. V.P. Projects
		

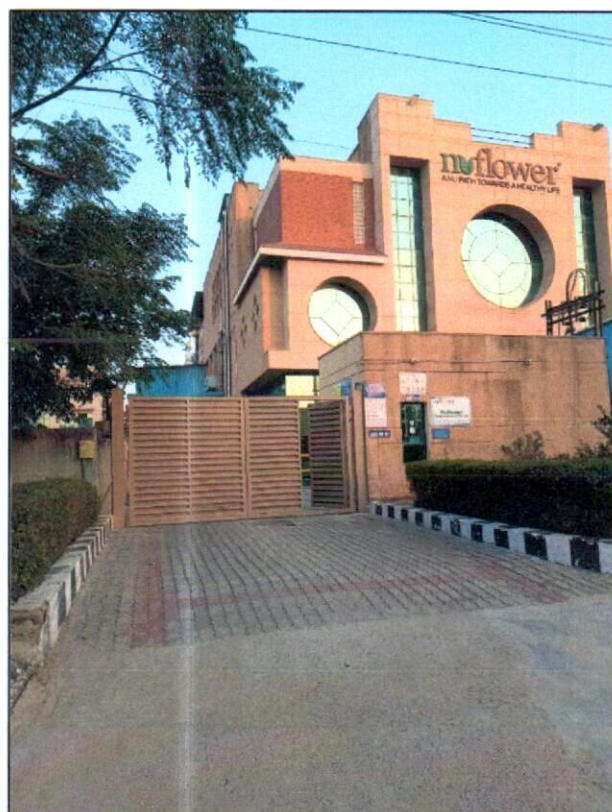


ANNEXURE: PHOTOGRAPHS

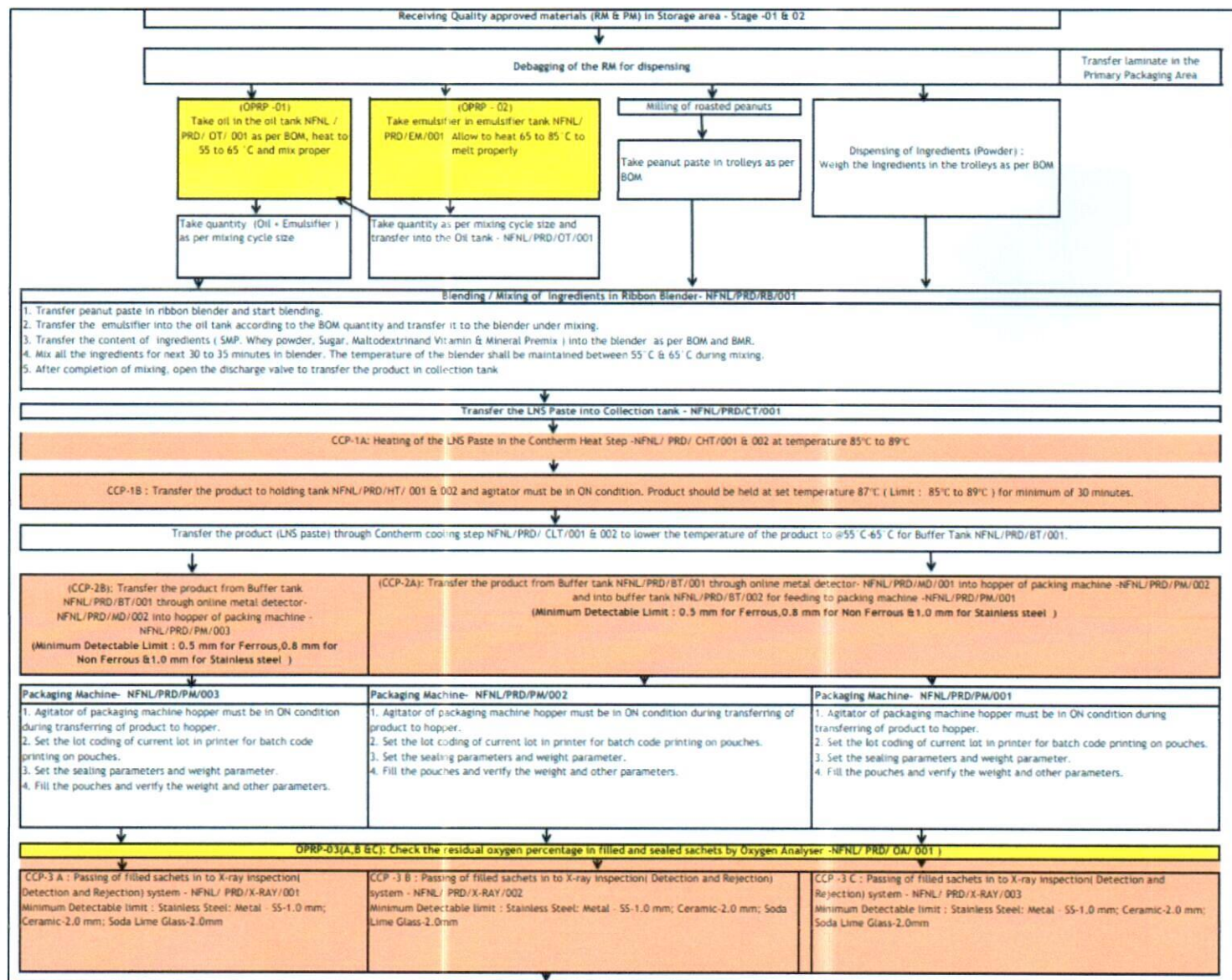








ANNEXURE: PROCESS FLOW CHART



Transfer the filled pouches to secondary packaging area through conveyor

Place the sachets in LDPE Liner covered shipper in Secondary Packaging Area

1. Fill the 150 pouches in one corrugated boxes properly after inserting the LDPE liner in corrugated boxes.
2. Weigh the each carton in BPR.
3. Set the lot code on lot coding printer for corrugated boxes.
4. Pass the packed cartons through tape sealing machine.
5. Place the filled corrugated boxes on pallets.
6. Leakage test in pouches by PCT should be done hourly and visual inspection should be done continuously.

Transfer the boxes to finished goods store

Terminal Inspection & Dispatch

List of Operational Pre-Requisite Program (OPRP) & Critical Control Points (CCP)

OPRP/CCP	Concerned Area	OPRP/CCP Name
OPRP - 1	Manufacturing area	Heating of Oil at Temperature 55 to 65 °C
OPRP - 2	Manufacturing area	Melting of Emulsifier at Temperature 65 to 85 °C
CCP-1 (A)	Manufacturing area	Heating of the product (Paste) in the Contherm Heat Step -NFNL/ PRD/ CHT/001 and NFNL/ PRD/ CHT/002 at temperature set temperature 87 °C (Limit 85°C to 89°C)
CCP-1 (B)	Manufacturing area	Product hold @ temperature set temperature 87 °C (Limit 85°C to 89°C) for Minimum 30 minutes in the holding tank NFNL/PRD/HT/ 001 and Holding Tank NFNL/PRD/HT/ 002.
CCP - 2 A and B	Manufacturing area	CCP-2 A ,B): Online metal detection by Metal Detectors - NFNL/PRD/MD/001 and NFNL/PRD/MD/002
OPRP - 3 A, B & C	Primary packaging area	Monitoring the oxygen percentage of packed pouches (limit : Max 4%)
CCP-3 A, B & C	Primary packaging area	CCP -3 A,B & C : Online Detection and Rejection of foreign particles e.g. Glass, Ceramic and Stainless Steel by X-ray inspection system (Make :Mekitec (MIDMEK)) - NFNL/ PRD/X-RAY/001, NFNL/ PRD/X-RAY/002 and NFNL/ PRD/X-RAY/003)

