

Dated: 03.12.2020

Subject: Cost norms of Plant & Machinery and Equipment for Dairy Sector – Reg.

Ministry has constituted a Committee under the Chairmanship of VC, NIFTEM for fixing cost norms for infrastructure and processing facilities for working out eligible project cost for all the schemes under Pradhan Mantri Kisan Sampada Yojana (PMKSY).

2. Based on the examination of cost of Plant & Machinery and Equipment received from Original Equipment Manufacturers (OEMs), inputs available with the Members of the Committee, feedback and consultations, the Committee has proposed the cost norms for Dairy Sector required for food processing indicating the broad/ general specifications of the machine and its capacity.

3. The Ministry, based on the recommendations of the Committee and review thereupon, has determined the cost norms for the Plant & Machinery and Equipment for working out the Eligible Project Cost for the purpose of calculating the amount of grant as financial assistance to the projects under the schemes of the Ministry.

4. The cost norms for Plant & Machinery and Equipment has been fixed on the basis of OEM quotations of indigenous manufacturers for calculation of eligible projects cost/ grant under the schemes of the Ministry. This will help promote indigenous machinery. Entrepreneurs desiring to import such machinery may bear extra cost on their own. Wherever indigenous brand manufacturers do not exist, the cost norm will be fixed on the basis of cost of the lowest OEM quotation of imported machinery.

5. Cost norms of Plant & Machinery and Equipment required for Dairy Sector are given at Annexure.



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6. Grant-in-aid amount for the proposals received against the Eols and approved by the Inter-Ministerial Approval Committee under all the schemes of the Ministry will be calculated based on the above cost norms.

7. The cost of any other facilities/ components to be created under the projects and not covered under the cost norms may be considered based on the quotations submitted along with the proposal and inputs of technical member of the Committee subject to the approval by the Inter-Ministerial Approval Committee.

This has the approval of the competent authority.

Encl: As above

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Cost norms of Plant & Machinery and Equipment for Dairy Sector

Ministry has constituted a Committee under the Chairmanship of VC, NIFTEM for fixing cost norms for infrastructure and processing facilities for working out eligible project cost for all the schemes under Pradhan Mantri Kisan Sampada Yojana (PMKSY).

2. Based on the examination of cost of Plant Machinery and Equipment received from Original Equipment Manufacturers (OEMs), inputs available with the Members of the Committee, feedback and consultations, the Committee has proposed the cost norms for Plant & Machinery and Equipment required for food processing indicating the broad/ general specifications of the machine and its capacity.
3. The Ministry, based on the recommendations of the Committee and review thereupon, has determined the cost norms for the Plant & Machinery and Equipment for working out the Eligible Project Cost for the purpose of calculating the amount of grant as financial assistance to the projects under various schemes of the Ministry.
4. The cost norms for Plant & Machinery and Equipment have been fixed on the basis of OEM quotations of indigenous manufacturers for calculation of eligible projects cost/ grant under the schemes of the Ministry. This will help promote indigenous machinery. Entrepreneurs desiring to import such machinery may bear extra cost on their own. Wherever indigenous brand manufacturers do not exist, the cost norm will be fixed on the basis of cost of the lowest OEM quotation of imported machinery.
5. Cost norms have been determined for commonly used Plant & Machinery and Equipment required by the food processing industries. The list is not exhaustive and more Plant & Machinery and Equipment would be included in due course.
6. The costs mentioned are basic cost of Plant and Machinery, exclusive of tax, freight, installation and commissioning charges.
7. The cost of any other facilities / components proposed to be created under the project and not covered under the cost norms may be considered by Technical Committee based on the quotations submitted along with the proposal and inputs of technical member of the Committee subject to the approval by the Inter-Ministerial Approval Committee.
8. If the capacity and quantity of components differs from those provided in cost norms, prorate cost may be considered by Technical Committee based on quotations submitted along with the proposal and inputs of technical member of the Committee subject to the approval by the Inter-Ministerial Approval Committee.
9. The cost of technical civil work (RCC Structure) will be Rs. 15,000 per square meter.
10. For the projects creating milk and milk processing capacity of 30 KLPD, the cost of plant and machinery @65% of the cost of 50 KLPD would be considered.



11. Flooring in milk and milk processing plants should be covered with alkali and acid resistant tiles and walls up-to 5 feet should be covered with glazed tiles / antibacterial paint with proper drainage.

12. Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) shall be mandatory for all cold chain Projects.

13. All processing equipment should be made of stainless steel of AISI 304/ 316 grade. All the major equipment of the plant should be designed, engineered and fabricated in accordance with the prevailing and applicable Indian Standards as laid down by BIS. Wherever Indian Standards are not available, international standards like EHEDG/3A standards may be considered.

14. The cost norms determined for Plant & Machinery and Equipment for Dairy Sector are given in the table below:

Sr. No.	Particulars	Cost (In Rs.)
A.1	Automatic Milk Collection Unit	94,000
A.2	Milk Chilling center with utilities	
A.2.1	50 KLPD	4,46,71,000
1	Can Milk Reception Section	81,60,000
2	CIP System (Single Circuit)	13,10,000
3	SS Pipes & Fittings for the plant	29,00,000
4	Steam Generation & Distribution System	68,80,000
5	Chilled Water Generation & Distribution System	1,50,00,000
6	Water Distribution System	11,50,000
7	Electrical System (Including HT line and Transformer)	70,85,000
8	Laboratory & Accessories	7,86,000
9	ETP	14,00,000
A.2.2	100 KLPD	6,38,48,000
1	Can Milk Reception Section	1,01,37,000
2	CIP Kitchen (3 Circuit)	13,10,000
3	SS Pipes and Fittings for the plant	31,50,000
4	Steam Generation & Distribution System	68,80,000
5	Chilled Water Generation & Distribution System	1,95,00,000
6	Water Distribution System	1,15,00,000
7	Electrical System	85,85,000
8	Laboratory & Accessories	7,86,000
9	ETP	20,00,000
A.3	Bulk Milk Cooler (Complete Setup)	
1	1 KL	6,97,000

2	2 KL	8,67,000
3	3 KL	11,06,000
4	5 KL	12,40,000
A.4		
	5KL Mobile Milk Cooler	38,00,000
A.5		
	Milk processing plant	
A.5.1	0.5 LLPD Milk Proc. Plant with White Butter & Paneer manufacturing with utilities (Manual Plant)	14,29,90,000
1	Milk Reception Section	48,10,000
2	Milk Processing Section	1,40,60,000
3	Milk Reconstitution Section	18,25,000
4	Cream Processing Section	24,80,000
5	Milk Packing Section	85,60,000
6	White Butter Manufacturing Section (400kg/Hr.)	36,15,000
7	Paneer Manufacturing Section (1TPD)	41,15,000
8	Rinse Milk Section	12,25,000
9	Concentrated Chemical Section	9,00,000
10	Process and Tanker CIPKitchen (3 Circuit)	39,70,000
11	SS Pipes and Fittings for the Plant	1,18,00,000
12	Steam Generation & Distribution System	2,39,50,000
13	Chilled Water Generation & Distribution System	1,91,35,000
14	Compressed Air Generation & Distribution System	12,50,000
15	Water Treatment & Distribution System	1,00,00,000
16	Electrical	2,61,00,000
17	Laboratory Accessories	21,95,000
18	ETP	30,00,000
A.5.2	1 LLPD Milk Proc. Plant with White Butter, Paneer, Curd, Lassi & Ice cream Manufacturing with utilities (Manual Plant)	25,28,36,000
1	Milk Reception Section	59,10,000
2	Milk Processing Section	2,11,35,000
3	Milk Reconstitution Section	35,15,000
4	Cream Processing Section	38,20,000
5	Milk Packing Section	1,14,70,000
6	White Butter Manufacturing Section (400kg/h.)	36,40,000
7	Paneer Manufacturing Section (2 TO 3 TPD)	58,76,000
8	Curd Manufacturing Section (5 TLPD)	1,49,90,000
9	Ice Cream Manufacturing Section (3 TLPD)	1,95,90,000
10	Rinse Milk Section	11,45,000
11	Concentrated Chemical Section	25,35,000
12	Process and Tanker CIP System (3 Circuit set)	34,00,000

13	Fermented Products CIP System (Single Circuit)	12,55,000
14	SS Pipes & Fittings for the Plant	1,70,00,000
15	Steam Generation & Distribution System	3,22,00,000
16	Chilled Water Generation & Distribution System	4,39,55,000
17	Compressed Air Generation & Distribution System	19,00,000
18	Water Treatment and Distribution System	1,05,00,000
19	Electrical	3,66,00,000
20	Laboratory Accessories	84,00,000
21	ETP	40,00,000

A.5.3	2.5 LLPD Milk Proc. Plant with White butter, Paneer, Curd, Lassi & Ice cream Manufacturing with utilities (Automatic Plant)	34,73,61,000
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1	Milk Reception Section	64,30,000
2	Milk Processing Section	3,88,50,000
3	Milk Reconstitution Section	31,35,000
4	Cream Processing Section	45,20,000
5	Milk Packing Section	1,34,30,000
6	White Butter Manufacturing Section (800kg//hr.)	53,70,000
7	Paneer Manufacturing Section (2 to 3 TLPD)	58,76,000
8	Curd Manufacturing Section (10 TLPD)	2,26,70,000
9	Ice Cream Manufacturing Section(6 TLPD with ice candy)	2,83,90,000
10	Rinse Milk Section	11,45,000
11	Concentrated Chemical Section	25,35,000
12	Process and Tanker CIP Kitchen (3 Circuit)	37,80,000
13	Fermented Products CIP Kitchen (1 Circuit)	12,55,000
14	SS Pipes & Fittings for the Plant	2,70,00,000
15	Steam Generation & Distribution System	3,64,50,000
16	Chilled Water Generation & Distribution System	5,55,25,000
17	Compressed Air Generation & Distribution System	25,00,000
18	Water Treatment & Distribution System	1,05,00,000
19	Electrical Automation & Instrumentation	5,96,00,000
20	Laboratory Accessories	84,00,000
21	ETP	1,00,00,000

A.6	Complete Road Milk Tanker (With Chassis)	
1	5 KL	18,63,000
2	9 KL	21,28,000
3	15 KL	30,04,000

