



No M-01004/17/2023-CDD (E-25203)

भारत सरकार

Government of India

मत्स्यपालन, पशुपालन और डेयरी मंत्रालय

Ministry of Fisheries, Animal Husbandry and Dairying

पशुपालन और डेयरी विभाग

Department of Animal Husbandry and Dairying

Krishi Bhawan, New Delhi

Date: 30.06.2024

Subject: Minutes of the 15th Project Sanctioning Committee (PSC) meeting under the Chairpersonship of Secretary (AHD) of National Programme for Dairy Development (NPDD)-reg

15th Project Sanctioning Committee (PSC) meeting for National Programme for Dairy Development (NPDD) was held under the Chairpersonship of Secretary (AHD) on 16.06.2025 at 3:30 PM at Room No 243, Krishi Bhawan, New Delhi through hybrid mode.

2. The minutes of the meeting are hereby attached for information and further necessary action.

Encl.: a/a

(Dayanand Appa Sawant)
Deputy Commissioner (DD)

To:

1. Additional Secretary & Financial Advisor, Ministry of Fisheries, Animal Husbandry & Dairying, Krishi Bhawan, New Delhi.
2. Additional Secretary, NRLM, Ministry of Rural Development, Department of Rural Development, 7th Floor, NDCC-II Building, Jai Singh Road, New Delhi-110 001
3. Additional Chief Secretaries/ Principal Secretary/ Secretaries/ Commissioners-All State Animal Husbandry and Dairying Departments
4. Managing Directors, All State Milk Federations/ Unions
5. DDG (Animal Sciences), ICAR, Krishi Bhawan, New Delhi
6. Chairman, National Dairy Development Board, Post Box No.40, Anand, Gujarat. Pin 388001

Copy for information to:

Sr.PPS to Secy (AHD), Sr. PPS to AS &FA, PPS to AS (C&DD), Director (Budget), US (IFD), AC (SS)

Minutes of 15th Project Sanctioning Committee (PSC) Meeting held under the Chairpersonship of Secretary (AHD) of National Programme for Dairy Development (NPDD) on 16.06.2025 at 3.30 PM in Committee Room No. 243, Krishi Bhawan, New Delhi

The list of participants is annexed with minutes of the meeting (**Annexure I**).

The Project Sanctioning Committee (PSC) meeting of NPDD Scheme held under the Chairpersonship of Secretary (AHD).

At the offset, the Additional Secretary welcomed all the members and briefly highlighted the agenda of the meeting. Shri Dayanand Sawant, Deputy Commissioner (Dairy Development) gave a detailed presentation on the agenda put forth before the committee member. DC (DD) informed that the agenda for the meeting has been divided into three parts namely Component A, Component B and recommendations of Technical Committee on Cost Norms.

The component wise agenda wise discussion has been tabulated below:

S. No.	Discussion Point/ decision taken during the meeting																								
A	Component A																								
1	<p>Agenda 1: Approval of target for creation of new Dairy Cooperative societies and strengthening of the existing Dairy Cooperative Societies under the Revised NPDD Scheme along with tentative project cost for establishment of New DCS for the year 2025-26</p> <p>The committee discussed the revised target for the creation of new DCS and strengthening of existing DCS which is 21,902 and 14,646 respectively. State wise plans were considered during the meeting. It was informed to the PSC that NDDDB has conducted regional level workshops with States and finalised the State-wise targets in line with the White Revolution 2.0 targets. The state wise break up of target for new DCS and strengthening of existing DCS is at Annexure II & III.</p> <p>PSC was informed that the new DCS will be provided financial assistance for the following activities:</p> <table><tr><th>S.No.</th><th>Activity/ Particular</th><th>Total Cost (in Rs.)</th></tr><tr><td>1.1</td><td>Milk Testing Equipment</td><td>86,000</td></tr><tr><td>1.2</td><td>Milk Collection accessories</td><td>38,370</td></tr><tr><td>1.3</td><td>Glassware & Chemicals</td><td>7,480</td></tr><tr><td>1.4</td><td>Furniture and Fixtures</td><td>15,650</td></tr><tr><td>1.5</td><td>Stationary</td><td>2,500</td></tr><tr><td>1.6</td><td>Administrative expenses</td><td>36,000</td></tr><tr><td></td><td>Total</td><td>1,86,000</td></tr></table> <p>The details/sub-items of each activity is placed at Annexure-XIX</p> <p>Approval of PSC:</p>	S.No.	Activity/ Particular	Total Cost (in Rs.)	1.1	Milk Testing Equipment	86,000	1.2	Milk Collection accessories	38,370	1.3	Glassware & Chemicals	7,480	1.4	Furniture and Fixtures	15,650	1.5	Stationary	2,500	1.6	Administrative expenses	36,000		Total	1,86,000
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1.6	Administrative expenses	36,000																							
	Total	1,86,000																							

	<ol style="list-style-type: none"> 1. PSC approved the target for the creation of new DCS and Strengthening of existing DCS which is 21,902 and 14,646 (including already approved project for strengthening under NPDD Scheme) respectively. 2. PSC approved a total budget of Rs. 407.37 Cr (GOI Share of Rs 211.90 Cr and Organisation Share of Rs 195.47 Cr) for release to States for creation of new DCS during FY 2025-26. The state wise details of approved outlay is at Annexure II(a). In addition, the approval for creation is of new DCS is subject to the following: <ul style="list-style-type: none"> • Acceptance from State government on the approval • Receipt of district-wise plan as per guidelines/model DPR with target of milk producer and milk procurement at EOP • Undertaking of no duplication with any other scheme/programme • Assurance on availability of matching organisation share • No unspent balance of earlier released funds under the scheme i.e. before TSA module implementation. 3. Since the targets for new DCS creation have been finalised in discussion with the States, the project proposal shall be exempted from the requirement of obtaining recommendation from the SLTMC. However, such proposals must be routed through State Government to DAHD, GOI. In case of MPC/MPP projects, it should be routed through NDDB with intimation to the State Government. The State Government will ensure regular monitoring of the approved project through SLTMC ensuring effective coordination and successful implementation. 4. All the States to ensure submission of project proposal for creation of New DCS within 15 days of the issuance of this Minutes of the 15th PSC Meeting. A model DPR to enable project preparation is prepared and placed at Annexure-VI for reference.
	<p>Other items discussed:</p> <p>1. International Day of Yoga 2025 – Dairy Sector Engagement</p> <p>Action Plan for Dairy Cooperatives</p> <ul style="list-style-type: none"> ➤ Organize yoga sessions at DCS, Milk Union, and Federation levels across all states. ➤ Conduct awareness programs on the nutritional benefits of milk and milk products. ➤ Set up local stalls/exhibitions to promote milk and dairy brands. <p>The State Government/ Milk Federation was requested to coordinate and organise wide-reaching celebrations that highlight and amplify the message of Yoga and Milk as twin pillars of health. To ensure smooth coordination and effective implementation, kindly nominate a nodal officer who will be responsible for overseeing the activities and for timely sharing of event reports, photographs, and short videos with this Department. These materials will be compiled and disseminated at the national level. The content may be uploaded to the following link provided by the Ministry of Ayush:</p> <p>https://drive.google.com/drive/u/0/folders/1iT9Jy4HSBpkdn_eXatOczeFosWLUkmpw.</p> <p>2. Real-Time Data Integration for Central MIS Platform</p> <p>Action Item</p>

	<ul style="list-style-type: none">To fill and submit the data inputs in format already shared with Unions within 15 daysUnion with ERP /System: Develop and share APIs capturing the required data fields from the Excel already shared for seamless integration. <p>State Governments/State Milk Federations are requested to submit the required information to this Department in the prescribed format within 15 days.</p>													
B	Component B													
	<p>Agenda 1: Action taken report on the meeting of Project Sanctioning Committee held on 29 August 2024</p> <p>The PSC was apprised that in the PSC held on 29 August 2024, a total of 13 projects were approved. The sanction letter for all the projects has been issued. The action taken report on the meeting of the PSC held on 29 August 2024 is given in Annexure IV.</p>													
	<p>Agenda 2: Approval for Reappropriation under Dairying Through Cooperative, NPDD Component B</p> <p>PSC was informed that in order to utilise the savings made under different approved line items some Producer Institutions (PIs) has requested for reappropriation of funds within the same component. Some union have also requested for the re-appropriation due to change in the local requirement or difficulties in implementation. The intra-component re-appropriation agenda has been put up for approval of PSC whereas inter-component re-appropriation will be approved in the future CPSC Meeting. The rationale for the appropriation is at Annexure V.</p> <p>The PI will make own contribution for any additional cost over the approved cost norm.</p> <p>PSC Approval:</p> <p>The PSC deliberated the re-appropriation agenda and provided project wise recommendation/ approval.</p>													
	<p>Agenda 3: Re-appropriation of line items within approved SPP of Bhilwara Milk Union</p> <p>It was presented before the committee that Bhilwara Milk union has submitted two reappropriation proposals namely:</p> <ol style="list-style-type: none">1. Reappropriation for 25 TLPD UHT Plant2. Reappropriation under 150 MTPD Cattle Feed plant <p>Reappropriation under 25 TLPD UHT Plant</p> <table><tr><th rowspan="2">S.N.</th><th rowspan="2">Sub-Component</th><th colspan="3">Financial Outlay (Rs. Lakh)</th></tr><tr><th>Present sanction (11 Jul 2023)</th><th>Revised sanction</th><th>Increase/ Decrease</th></tr><tr><td>1</td><td>Civil Works</td><td>0.00</td><td>881.65</td><td>881.65</td></tr></table>	S.N.	Sub-Component	Financial Outlay (Rs. Lakh)			Present sanction (11 Jul 2023)	Revised sanction	Increase/ Decrease	1	Civil Works	0.00	881.65	881.65
S.N.	Sub-Component			Financial Outlay (Rs. Lakh)										
		Present sanction (11 Jul 2023)	Revised sanction	Increase/ Decrease										
1	Civil Works	0.00	881.65	881.65										

2	Process & product equipment	4120.10	3623.28	-496.82
3	Service equipment	378.00	301.84	-76.16
4	Miscellaneous equipment	274.47	152.87	-121.60
5	General Charges	25.00	25.00	0.00
6	Erection	501.12	314.05	-187.07
7	Technical Service Fee	265.73	265.73	0.00
	Total Outlay	5564.42	5564.42	0.00

Reappropriation under 150 MTPD Cattle Feed plant

Sr. No.	Sub-Component	Financial Outlay (Rs. Lakh)		
		Original Sanction (11 Jul 2023)	Revised Approval	Increase/Decrease
1	Civil Works	2272.43	2381.01	108.58
2	Process & product equipment	2178.52	2339.26	160.74
3	Service equipment	616.59	567.75	-48.84
4	Miscellaneous equipment	411.15	524.30	113.15
5	General Charges	18.00	23.25	5.25
6	Erection	506.60	253.24	-253.36
7	Technical Service Fee + GST	301.06	215.54	-85.52
	Total Outlay	6304.35	6304.35	0.00

PSC Approval

1. The proposed Civil Work re-appropriation under 25 TLPD UHT Plant was not part of the original Sub-Project Proposal, hence it has not been approved. The original cost has been reduced from Rs 5564.42 Lakh to Rs 4682.77 Lakhs. The saving of Rs 881.65 Cr needs to be returned.
2. As the re-appropriation is within the same component, the re-appropriation proposal is approved under the 150 MTPD Cattle Feed.
3. **Detailed revised cost sheet is placed at Annexure VII.**

Agenda 4: Re-appropriation of line items within approved SPP of Jaipur Milk Union

The PSC was informed about the proposed re-appropriation tabulated below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk procurement infrastructure					
1	Building for DCS	200	1155.7	200	1155.7	0

2	SS milk collection Accessories	400	462.28	400	462.28	0
3	Management grant to DCS Secretary	200	113.11	200	113.11	0
4	AMCU	400	693.417	1160	1833.4	1140.1
5	Building for Bulk Cooler	120	396.9	0	0	-396.9
6	BMC - 1 KL	80	749.7	50	468.56	-281.14
7	BMC – 2 KL	40	463.05	0	0	-463.05
8	Tankers for milk transportation 10KL	50	1271.32	50	1271.32	0
	Total		5305.47		5304.37	-1.10
	Loan		2365.04		2364.50	-0.55
	Grant		2882.89		2882.35	-0.55
	PI's contri.		57.54		57.54	0
Productivity Enhancement Services						
	Total		337.29		337.29	0
	Loan		0		0	0
	Grant		303.56		303.56	0
	PI's contri.		33.73		33.73	0
Training						
	Total		170.18		170.18	
	Loan					
	Grant		170.18		170.18	
	PI's contri.					
Project Outlay						
	Total		5812.94		5811.86	-1.1
	Loan		2365.04		2364.5	-0.55
	Grant		3356.63		3356.09	-0.55
	PI's contri.		91.27		91.27	0

PSC Approval

1. As per the re-appropriation is within the same component, the re-appropriation proposal is approved.
2. **Detailed revised cost sheet at placed at Annexure VIII.**

Agenda 5: Re-appropriation of line items within approved SPP of Uttarakhand Cooperative Dairy Federation (UCDF)

It was discussed that the performance and local needs of the union indicated the requirement of Automatic Silage Baler (Capacity 60 kg). The detailed proposal has been given below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
Productivity Enhancement- through Nutritional Interventions						

1	High Speed Wet Biomass Unit	2	94.93	1	40.25	-54.68
2	Other Line items under PE component	-	538.55		538.55	0
3	Automatic Silage Baler (Capacity 60 kg)	-	-	5	54.68	54.68
	Total		633.48		633.48	0.00
	Loan		0		0.00	0
	Grant		570.13		570.13	0
	PI's contri.		63.35		63.35	0
Training						
	Total		5.70		5.70	0.00
	Loan		0.00		0.00	0
	Grant		5.70		5.70	0
	PI's contri.		0.00		0.00	0
Project Outlay						
	Total		639.18		639.18	0.00
	Loan		0.00		0.00	0
	Grant		575.83		575.83	0
	PI's contri.		63.35		63.35	0

PSC Approval

1. As the re-appropriation is within the same component, the re-appropriation proposal is approved.
2. Additional cost over approved Sanction/outlays in the procurement to be borne by the Union.
3. **Detailed revised cost sheet is placed at Annexure IX.**

Agenda 6: Re-appropriation of line items within approved SPP of Bapudham MPC

It was discussed before the PSC that due to framework agreement, NDDB Dairy Service supported MPCs have made significant saving under different line items due to economy of scale of procurement. The PI has proposed to re-appropriate line items, as per details given below:

Sr. No.	Sub-Component	Sanctioned		Proposed reappropriation		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
Productivity Enhancement						
1	Fodder Seeds	24	2.52	54	5.4	2.88
2	Chaff cutter Power	20	5.13	318	79.3	74.18

3	Fodder storage godown	3	49.65	4	59.35	9.7
4	Low-cost silage Making	3	31.53	4	40	8.48
5	Micro Training centre	0	0	1	10	10
6	Others		521.03		415.81	-105.23
	Total		609.86		609.86	0
	Loan		0		0	0
	Grant		548.87		548.87	0
	PI's contribution		60.99		60.99	0
Training & Capacity development						
1	Village awareness programmes	60	6.62	97	9.12	2.5
2	Others		5.14		2.64	-2.5
	Total		11.76		11.76	0
	Loan		0		0	0
	Grant		11.76		11.76	0
	PI's contribution		0		0	0
Project Outlay						
	Total		621.62		621.62	0
	Loan		0		0	0
	Grant		560.63		560.63	0
	PI's contribution		60.99		60.99	0

PSC Approval

1. As all the re-appropriation is within the same component, the proposal was approved by the PSC.
2. **Detailed revised cost sheet is placed at Annexure X.**

Agenda 7: Re-appropriation of line items within approved SPP of Saahaj MPC

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1820	2598.79	1820	1740.64	-858.15
2	AMCU	40	79.70	40	62.99	-16.71
3	MPP accessories	1200	134.01	1200	125.54	-8.47

4	Milk cans	7000	281.89	7000	221.88	-60.02
5	BMC 1 KL	18	197.95	18	157.69	-40.26
6	BMC 2 KL	6	79.88	6	64.43	-15.45
7	Management grant to Village level functionary	1200	735.69	1200	604.77	-130.92
8	Advanced OTP based Milk Analyser			3070	1074.50	1074.50
9	Advanced Milk testing and adulteration Machine			54	254.88	254.88
	Total		4107.92		4307.32	199.40
	Loan		1478.16		1478.16	0.00
	Grant		2514.60		2514.60	0.00
	PI's contribution		115.16		314.56	199.40
Productivity Enhancement- through Nutritional Interventions						
1	Legume fodder crops (Certified) MT	26	12.18	76	26.56	14.38
2	Chaff cutter Power			624	156.00	156.00
3	Other line items under PE		566.23		395.85	-170.38
	Total		578.42		578.42	0.00
	Loan		0.00		0.00	0.00
	Grant		520.57		520.57	0.00
	PI's contribution		57.84		57.84	0.00
Training & Capacity Development						
	Clean Milk Prog.	34000	38.59	38060	40.79	2.21
	Women Awareness Programme	34000	38.59	40450	42.76	4.18
	Refresher Training of MPP Sahayak	500	5.51	620	6.10	0.59
	Milch animal rearing for dairy farmers	20	2.26	44	4.66	2.40
	Other trainings		134.32		124.95	-9.37
	Total		219.27		219.27	0.00
	Loan		0.00		0.00	0.00
	Grant		219.27		219.27	0.00
	PI's contribution		0.00		0.00	0.00

Total Project Outlay						
Grand Total		4905.61		5105.01	199.40	
Loan		1478.16		1478.16	0.00	
Grant		3254.44		3254.44	0.00	
PI's contribution		173.00		372.40	199.40	

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XI.**

Agenda 8: Re-appropriation of line items within approved SPP of Harit Pradesh MPC

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1450	2039.99	1450	1252.63	-787.37
2	AMCU	4	7.72	11	19.28	11.57
3	MPP accessories	1400	151.46	1400	65.03	-86.43
4	Milk Cans	8400	327.16	13900	461.37	134.21
5	Management grant to Village level functionary	500	299.75	0	271.77	-27.98
6	BMC 5 KL			4	70.00	70.00
7	Heat Recovery Unit			4	3.20	3.20
8	Building for Village Producer Institution			158	316.00	316.00
9	Advanced OTP based Milk Analyser			700	245.00	245.00
10	Advanced Milk testing and adulteration Machine			30	141.60	141.60
	Total		2826.09		2845.89	19.80
	Loan		1023.86		1023.86	0.00
	Grant		1724.39		1724.39	0.00
	PI's contribution		77.84		97.64	19.80
	Productivity Enhancement- through Nutritional Interventions					
1	Low cost silage (250 MT per unit)	5	56.78	0	0	-56.78
2	Other line items under PE		505.62		470.62	-35.00

3	New Item - Silage Baler (60 Kg)			8	91.78	91.78
	Total		562.40		562.40	0.00
	Loan		0.00		0.00	0.00
	Grant		506.16		506.16	0.00
	PI's contribution		56.24		56.24	0.00
	Training & Capacity Development					
	Total		112.44		112.44	0.00
	Loan		0.00		0.00	0.00
	Grant		112.44		112.44	0.00
	PI's contribution		0.00		0.00	0.00
	Total Project Outlay					
	Grand Total		3500.92		3520.73	19.81
	Loan		1023.86		1023.86	0.00
	Grant		2342.99		2342.99	0.00
	PI's contribution		134.08		153.88	19.80

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XII.**

Agenda 9: Re-appropriation of line items within approved SPP of Shwetdhara MPC

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk Procurement Infrastructure					
1	DPMCU	671	754.94	671	573.64	-181.30
2	AMCU	12	20.34	12	18.99	-1.35
3	MPP accessories	510	182.03	510	182.03	0.00
4	BMC 5 KL	8	158.21	10	141.39	-16.82
5	BMC accessories	8	35.28	8	35.28	0.00
6	Heat Recovery Unit	8	7.06	10	7.35	0.29
7	Management grant to Village level functionary	510	316.25	510	247.21	-69.04
8	Milk cans			1588	57.17	57.17
9	BMC 2 KL			4	42.00	42.00
10	Advanced OTP based Milk Analyser			172	60.20	60.20

11	Advanced Milk testing and adulteration Machine			28	132.16	132.16
	Total		1474.11		1497.42	23.31
	Loan		487.91		487.91	0.00
	Grant		936.37		936.37	0.00
	PI's contribution		49.83		73.14	23.31
Productivity Enhancement- through Nutritional Interventions						
1	Mower over 15 HP	1	22.05	3	62.05	40
2	Conveyer fed chaffcutter	1	1.93	3	4.95	3.02
3	Promotional materials	100	3.31	220	6.91	3.6
4	Other line items under PE		274.61		227.99	-46.62
	Total		301.9		301.9	0
	Loan		0		0	0
	Grant		271.71		271.71	0
	PI's contribution		30.19		30.19	0

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Training & Capacity Development					
	Producer / Women Awareness Programme	20400	23.04	29400	28.63	5.58
	Others		82.15		76.57	-5.58
	Total		105.20		105.20	0.00
	Loan		0.00		0.00	0.00
	Grant		105.20		105.20	0.00
	PI's contribution		0.00		0.00	0.00
	Total Project Outlay					
	Grand Total		1881.21		1904.52	23.31
	Loan		487.91		487.91	0.00
	Grant		1313.28		1313.28	0.00
	PI contribution		80.02		103.33	23.31

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XIII.**

Agenda 10: Re-appropriation of line items within approved SPP of Baani MPC

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

SN	Sub-Component	Sanctioned		Proposed reappropriation		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk Procurement Infrastructure					
1	DPMCU	2300	2616.23	2300	1723.79	-892.44
2	AMCU	12	20.34	12	20.34	0.00
3	MPP accessories	2200	791.02	4900	875.98	84.96
4	Milk Cans	-	-	6250	225.00	225.00
5	Management grant to Village level functionary	1000	635.77		373.53	-262.24
6	BMC 2 KL			20	210.00	210.00
7	Building for Village Producer Institution			225	450.00	450.00
8	Advanced Milk testing and adulteration Machine			50	236.00	236.00
	Total		4063.36		4114.64	51.28
	Loan		1318.29		1318.29	0.00
	Grant		2602.39		2602.39	0.00
	PI's contribution		142.68		193.96	51.28
	Productivity Enhancement					
1	Chaff cutter Powered			240	60.00	60.00
2	Low cost silage making at MPP Level (250 MT per silage unit)			2	20.00	20.00

3	Promotional materials			220	7.06	3.59
4	Other Line items under PE		355.69		272.11	-83.59
	Total		359.17		359.17	0.00
	Loan		0.00		0.00	0.00
	Grant		323.25		323.25	0.00
	PI's contribution		35.92		35.92	0.00
Training & capacity Development						
1	Refresher Training of MPP Sahayak	1200	13.73	3174	30.42	16.69
2	Training of staff of DCS / BMC / Chilling Centre / AMCU / DPMCU in DCS Management, Operations and Quality Management	5	0.55	11	1.00	0.45
3	Strategic Dairy Business Management for MD & Section Heads	5	2.89	11	5.29	2.40
4	Milch animal rearing for dairy farmers	10	1.16	22	2.16	1.00
5	Training to ANO	2	0.46	4	0.93	0.46
6	Training to AN and CRP Supervisors	11	2.55	22	5.09	2.55
7	Training of fodder officers/field staff	2	0.46	4	0.92	0.46
8	Village awareness programmes for enhancing adoption of cattle feed, green fodder & mineral mixtures	40	4.75	80	9.50	4.75

9	Awareness campaign on calf rearing	0	3.56	20	7.12	3.56
10	Other trainings		180.97		148.65	-32.32
	Total		211.08		211.08	0.00
	Loan		0.00		0.00	0.00
	Grant		211.08		211.08	0.00
	PI's contribution		0.00		0.00	0.00
	Total Project Outlay					
	Total		4633.61		4684.89	51.28
	Loan		1318.29		1318.29	0.00
	Grant		3136.72		3136.72	0.00
	PI's contribution		178.60		229.87	51.28

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XIV.**

Agenda 11: Re-appropriation of line items within approved SPP of Asha Milk Producer Company

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

S. N.	Sub-Component	Sanctioned		Proposed reappropriation		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	735	830.90	735	659.78	-171.12
2	AMCU	6	10.09	6	9.56	-0.53
3	MPP accessories	450	160.78	450	130.43	-30.35
4	Management grant to Village functionary	450	279.33		224.36	-54.97
5	Building for Village Producer Institution:			59	118.00	118.00
6	Advanced OTP based Milk Analyser			425	148.76	148.76

7	Advanced Milk testing and adulteration Machine			16	75.52	75.52
	Total		1281.10		1366.40	85.30
	Loan		420.49		420.49	0.00
	Grant		816.60		816.60	0.00
	PI's contribution		44.01		129.32	85.30
Productivity Enhancement- through Nutritional Interventions						
1	Establishment of MTC	-		2	20.00	20.00
2	Promotional materials	100	3.31	323	10.00	6.70
3	Other line items under PE		263.62		236.92	-26.70
	Total		266.93		266.93	0.00
	Loan		0.00		0.00	0.00
	Grant		240.23		240.23	0.00
	PI's contribution		26.69		26.69	0.00
Training & Capacity Development						
	Total		100.54		100.54	0.00
	Loan		0.00		0.00	0.00
	Grant		100.54		100.54	0.00
	PI's contribution		0.00		0.00	0.00
Total Project Outlay						
	Total		1648.57		1733.87	85.30
	Loan		420.49		420.49	0.00
	Grant		1157.37		1157.37	0.00
	PI's contribution		70.70		156.01	85.31

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XV.**

Agenda 12: Re-appropriation of line items within approved SPP of Sakhi Milk Producer Company

The saving under the different components due to Framework Agreement and efficient procurement has been proposed for re-appropriation before the committee. The details of revised re-appropriation is given below:

Sr. No.	Sub-Component	Sanctioned		Revision (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1280	1452.54	1280	1131.24	-321.30
2	AMCU	12	20.34	12	17.64	-2.70
3	MPP accessories	800	287.42	800	287.42	0.00
4	Management grant to Village level functionary	800	499.35	800	363.25	-136.10
5	Advanced OTP based Milk Analyser			692	242.20	242.20
6	Advanced Milk testing & adulteration Machine			75	354.00	354.00
	Total		2259.66		2395.75	136.10
	Loan		736.44		736.44	0.00
	Grant		1444.54		1444.54	0.00
	PI's contribution		78.68		214.77	136.10
	Productivity Enhancement- through Nutritional Interventions					
1	Fodder storage godown	-	-	2	27.00	27.00
	Establishment of MTC	-	-	1	10.00	10.00
	Line items under PE		273.76		236.76	-37.00
	Total		273.76		273.76	0.00
	Loan		0.00		0.00	0.00
	Grant		246.39		246.39	0.00
	PI's contribution		27.38		27.38	0.00
	Training & Capacity Development					
	Total		168.14		168.14	0.00
	Loan		0.00		0.00	0.00
	Grant		168.14		168.14	0.00
	PI's contribution		0.00		0.00	0.00
	Total Project Outlay					

	Total		2701.56		2837.66	136.10
	Loan		736.44		736.44	0.00
	Grant		1859.06		1859.06	0.00
	PI's contribution		106.05		242.15	136.10

PSC Approval

1. As all the proposal for re-appropriation is within the approved line item, the proposal was accepted.
2. Additional cost over approved sanction/outlays will be contributed by the beneficiary.
3. **Detailed revised cost sheet is placed at Annexure XVI.**

Agenda 13 : Approval of funds for the component 'Milk Processing facilities for Pali Milk Union

The unit proposed upgradation of existing 250 TLPD milk processing plant with an additional outlay of Rs.783.92 Lakh comprising of milk processing facilities along with related trainings.

This proposal is in addition to earlier approved proposal in the 4th PSC meeting held on 29 Aug 2024, with total outlay of Rs. 1641.10 Lakh (Loan: Rs. 781.42 Lakh, Grant: Rs. 849.27 Lakh, PI's contribution: Rs. 10.40 Lakh). The proposed milk processing plant is old and need upgradation.

Component	Loan	Grant	PI's contribution	Total
Milk Processing facilities	649.75	0.00	116.96	766.71
Training & Capacity building	0.00	17.21	0.00	17.21
<i>Dairy Plant Management</i>	<i>0.00</i>	<i>7.28</i>	<i>0.00</i>	<i>7.28</i>
<i>Dairy Plant Hygiene and Sanitation ensuring compliances of FSSAI regulations</i>	<i>0.00</i>	<i>4.85</i>	<i>0.00</i>	<i>4.85</i>
<i>Modern Dairy Management practices including TQM, Kaizen, 5S, ISOs</i>	<i>0.00</i>	<i>5.07</i>	<i>0.00</i>	<i>5.07</i>
Total	649.75	17.21	116.96	783.92

PSC Approval

1. As all fund under the Processing Component has been earmarked, re-appropriation of funds will be required for approval of new project under Milk Processing Infrastructure Component.
2. The project is approved subject to availability of fund after inter component re-appropriation in the CPSC Meeting.

Agenda 14: Re-appropriation of line items within approved SPP of Shreeja Milk Producer Company

Shreeja MPC has requested for re-appropriation of the approved project proposals for re-appropriation within components of “Strengthening Milk Procurement Infrastructure” and “Training & Capacity Building”. The PI has requested reduction in number of AMCU and in place of that increase in number of OTP based analyzer to cover more number of villages for transparent transactions and quality milk procurement. The details of proposed re-appropriation are as per table given below:

Sr. No.	Sub-Component	Sanctioned		Revision (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	2200	2518.58	2200	1637.75	-880.83
2	DPU and Milk Analyser (instead of full unit of DPMCU)	1000	551.25	0	0	-551.25
3	AMCU	105	181.19	65	112.16	-69.02
4	MPP accessories	2000	984.54	2000	984.54	0
5	Management grant to Village level functionary	2000	1253.72	2000	1081.33	-172.39
6	Building/facility for MPP			150	300	300
7	Advanced OTP based Milk Analyser			2700	945	945
8	Advanced Milk testing and adulteration Machine			120	566.4	566.4
9	Other line items		1608.76		1608.76	0
	Total (Milk procurement infra.)		7098.03		7253.18	155.15
	Loan		2429.89		2429.89	0
	Grant		4444.32		4444.32	0
	PI's contribution		223.83		378.97	155.15
	Training & Capacity Development					
	Re-appropriation proposed:					

	Training and awareness of milk producers on clean milk production and good hygienic practices	80000	187.02	93510	218.6	31.58
	Village Contact Group orientation programme	10000	58.44	20380	119.1	60.65
	School Children Awareness Program	1500	86.89	1804	104.51	17.62
	Board of Directors (BOD) orientation program	1	1.16	14	14.86	13.7
	Business Appreciation Program for Existing Proc. Staff	5	0.55	455	50.16	49.61
	Basic Training for new Sahayaks	2000	22.9	4299	49.22	26.33
	Refresher Training for Sahayaks	2000	23.03	4673	53.81	30.78
	Training of staff of DCS/ BMC/chilling centre/ AMCU/ DPMCU	5	0.55	448	49.27	48.72
	Strategic Dairy Business Management for MD & Section Heads	5	2.76	29	15.9	13.14
	Marketing trainings		291.78		0	-291.78
	Other line items		187.02		186.66	-0.36
	Total (Training)		862.09		862.09	0
	Loan		0		0	0
	Grant		862.09		862.09	0
	PI's contribution		0		0	0

PSC Remarks

1. As all the proposal for re-appropriation are within the approved line item, the proposal was accepted.
2. **Detailed revised cost sheet is placed at Annexure XVII.**

Agenda 15: Surrender of Funds under the Support to Marketing Infrastructure by Shreeja Milk Producer Company

Shreeja Mahila MPC has handed over the marketing operations to Mother Dairy and has decided to surrender the balance funds after making some initial expenditure. The Details of the surrender of the saving has been given below:

Sub-Component	Sanctioned	Current Utilisation	Surrendering Amount (Rs. Lakh)
	Financial Outlay with contingency (Rs. Lakh)	Financial Outlay with contingency (Rs. Lakh)	
Total	4939.73	61.86	4877.87
Loan	3951.78	49.49	3902.29
Grant	987.95	12.37	975.58
PI's contribution	0.00	0.00	0.00

PSC Approval:

1. PSC approved the approved the surrender of project savings amounting to ₹4,877.87 lakh, comprising ₹3,902.29 lakh under the loan component and ₹975.58 lakh under the grant component.
2. **Detailed revised cost sheet is placed at Annexure XVII.**

Agenda 16: To consider project proposal of Shreeja Milk Producer Company to set-up new milk processing plant of 4 LLPD and Powder Plant of 30 MTPD capacity at Kuppam

Shreeja Mahila Milk Producer Company submitted a new project proposal for setting-up of new milk processing plant of 4 LLPD and Powder Plant of 30 MTPD capacity at Kuppam with total project outlay of Rs. 22720 Lakh, including loan of Rs. 12000 Lakh under Component-B of NPDD and PI contribution of Rs. 10720 Lakh.

The project proposal has been appraised by NDDB and the same was found to meet the eligibility and viability conditions. The MPO proposes to include Loan from NDDB as a part of PI contribution.

The proposed outlay is summarised below:

Project Component	Loan (Rs. Lakh)	Grant (Rs. Lakh)	PI's share (Rs. Lakh)	Total Outlay (Rs. Lakh)	Description
Milk Processing Facilities	11304.00	0.00	11415.59	22719.59	New 30 MTPD Powder plant at Kuppam

PSC Approval

1. The proposal has been accepted by the Project Steering Committee (PSC), and in-principal approval has been accorded for funding of Rs 4878 Lakhs under the loan component (surrendered by Shreeja Milk Producer Company under the ongoing project).
2. The balance funding requested will be considered, subject to the availability of loan funds after evaluating the demands from other Participating Institutions (PIs) and subject to approval of CPSC for reappropriation of intercomponent funds.
3. The PI has been advised to explore alternative funding sources such as the Ministry of Food Processing Industries (MoFPI), Animal Husbandry Infrastructure Development Fund (AHIDF), etc.

Agenda 17: Approval of funds for the component 'Milk Processing facilities' for Karimnagar MPC

Based on projected utilization, the PI has proposed re-appropriation of line items, as per details given below:

- **Proposed inter-component re-appropriation of Loan:**

The PI has proposed to re-appropriate part of Loan under components of 'Milk Procurement', 'Marketing, and Cattle Feed Plant for the Curd Plant (already approved line item) for additional civil works and new equipment like Heating Module System, Silo of 100KL, Lassi Plant of 5 KL, Conveying System and service equipment. This will help in effective operations of proposed curd plant and better product quality.

- **Proposed inter-component re-appropriation of Grant:**

A part of funds of Grant under the components of 'Milk Procurement' and 'Marketing are proposed to be utilised under components 'Productivity Enhancement' and 'Training', for line items such as cereal fodder crops/legume seeds/fodder saplings, chaff-cutters, mowers, MTC, etc.

The details are given in the table below:

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	Increase/ Decrease (Rs. Lakh
Strengthening Milk procurement infrastructure						
1	Building for Village Producer Institution - Existing MPIs	100	583.63	50	291.82	-291.81

2	AMCU (New + Existing)	520	1050.63	520	676.00	-374.63
	Other line items		204.23		204.23	0.00
	Total		1838.49		1172.05	-666.44
	Loan		817.13		483.91	-333.22
	Grant		1000.94		667.72	-333.22
	PI Contribution		20.42		20.42	0.00
Milk processing facilities and Manufacturing facilities						
1	Dahi Yoghurt or Fermented Milk Plant	1	2544.95	1	3569.80	1024.85
2	Cattle Feed Plant - 100 TLPD	1	3849.17	1	3299.17	-550.00
3	Mineral Mixture Plant	1	100.00		100.00	0.00
	Total		6494.12		6968.97	474.85
	Loan		5844.71		6272.07	427.37
	Grant		0.00		0.00	0.00
	PI Contribution		649.41		696.90	47.49
Support for Marketing Infrastructure						
1	Milk Parlours with Visi Cooler & Deep Freezer	100	350.18	50	175.09	-175.09
2	Other line items		82.53		82.53	0.00
	Total		432.71		257.62	-175.09
	Loan		346.17		206.10	-140.07
	Grant		86.54		51.52	-35.02
	PI Contribution		0.00		0.00	0.00
Support for ICT Infrastructure						
	Total		180.76		180.76	0.00
	Loan		144.61		144.61	0.00
	Grant		36.15		36.15	0.00
	PI's contribution		0.00		0.00	0.00
Productivity Enhancement-through nutritional intervention						
1	Cereal Fodder seed	45	10.37	245	59.78	49.41
2	Chaff Cutter (powered)	2	0.55	202	61.61	61.06

3	Establishment of Micro Training Centre	1	11.03	5	61.00	49.97
4	Legume Fodder Seed			37.5	18.30	18.30
5	Perennial Fodder sapling (Lakh)			16.2	19.76	19.76
6	Purchase of High Speed Wet Biomass Unit			1	48.80	48.80
7	Fodder Storage Godown			5	91.50	91.50
8	Distribution of Mineral Mixture (MT)	-	-	60	29.28	29.28
	Total		21.95		390.03	368.08
	Loan		0.00		0.00	0.00
	Grant		19.76		351.03	331.27
	PI's contri.		2.20		39.00	36.81
Training & Capacity Development						
1	Awareness Program on Clean Milk Production	2400	5.49	15000	36.60	31.11
	Other line items		97.43		97.43	0.00
	Total		102.92		134.03	31.11
	Loan		0.00		0.00	0.00
	Grant		102.92		134.03	31.11
	PI's contri.		0.00		0.00	0.00
	Total Project Outlay					
	Total		9070.95		9103.46	33.55
	Loan		7152.62		7106.69	-45.93
	Grant		1246.31		1240.45	-4.92
	PI's contri.		672.03		756.32	84.40

PSC Approval

1. The re-appropriation of Rs 550.00 Lakhs from Cattle Feed Plant to Dahi Yoghurt or Fermented Milk Plant was approved.

	<p>2. The approval for balance Rs 474.84 Lakhs under processing component will be done according to fund re-appropriation in the CPSC</p> <p>3. The intra component reallocation to be placed before the CPSC for approval.</p> <p>4. Detailed revised cost sheet at placed at Annexure XVIII.</p>
	<p>Agenda 18: Approval of routine re-appropriate proposal along with other activities on file</p> <p>The Committee was informed that, as the project progresses into its third year, additional intra-component re-appropriation requests from PIs are expected. To streamline approvals, it was proposed to delegate intra-component re-appropriation powers to the Divisional Head under Component B of NPDD as it was existed in Comp A of NPDD. The inter-component re-appropriation powers retained by the CPSC only. The option of delegating re-appropriation powers to the State level was also explored during the discussions.</p> <p>However, it was clarified that SLTMC is mandated to oversee implementation of approved projects at the state level, coordinate among PIs, and recommend new proposals to the PSC. Its primary role is to ensure convergence and prevent duplication between state and Central scheme. SLTMC has not been delegated any financial powers.</p> <p>PSC Approval</p> <p>The Committee did not consider the delegation of re-appropriation powers for projects under component B of NPDD; all such proposals shall continue to require PSC approval.</p>
C	Recommendation of 7th Technical Committee on Revised NPDD Cost Norms
	<p>PSC was informed that since the NPDD scheme was revised vide Cabinet decision on 19.03.2025, therefore it was imperative to prepare activities-wise cost norms for new components included like New DCS organisation, Milk Processing and Value Addition and Establishment of MPC and updation (if required) of cost norms of existing/continuing components.</p> <p>PSC was informed that a draft cost norm was prepared by the dairy division in consultation with NDDDB, NDRI, States, OEMs, GeM rates and available actual cost/expenditure in ongoing project implementation to arrive at a realistic cost estimate of each component. This draft cost norms were circulated to the Technical Committee (TC) members and discussed in the 7th meeting of the Technical Committee held on 04.06.2025. While no major changes were proposed in the continuing components, cost norms were finalised for new components.</p> <p>PSC was informed that the cost norms finalised by the Technical Committee would guide the States in preparing new project proposals, it will enable division in appraising new projects and</p>

	<p>calculating the eligible financial assistance to States under Component A of the revised NPDD scheme. The TC recommended cost norms for each component were presented before PSC.</p> <p>PSC Approval: PSC discussed the TC recommendations on the cost norms and approved the same with the suggestion of revisiting the same on annual basis. It was also advised that the revised cost norms should be followed strictly while appraisal of new projects under Comp A of the revised NPDD scheme. The approved cost norms are at Annexure-XIX.</p>
	<p>Other agenda</p> <ol style="list-style-type: none"> It was appraised by DC (DD) that in order to expedite the fund utilisation, it was decided that the restriction of 90 days for advance released is relaxed. The entire balance advances of both loan as well as grant may be released to respective PIs for smooth implementation of scheme. Time period for utilization of advance for grant and loan would be till 31st March 2026. As the sanction has been issued by NDDB so Department has no objection. Implementation of Sanctioned Project under NPDD needs to be expediated and monitored regularly. It was appraised by DC (DD) that in the PCMC meeting dated, 21 May 2025, NDDB, Shri TT Vinayagam Group Head Finance, highlighted that due to requirement of counter signature of Principal Secretary, State Animal Husbandry and Dairying Dept, the submission of FUC by PI are significantly delayed. <p>In the PCMC Meeting, Shri Sagar Gupta from IFD stated that as per Rule 12-A of the General Financial Rules (GFR), 2017, and as per the prescribed format of the Utilization Certificate for Autonomous Bodies of the Grantee Organization, NDDB is not required to obtain countersignature from the State Government on the Utilization Certificate. PIs may share a copy of the FUC with respective State Government for the purpose of project information dissemination and to ensure better coordination and support.</p>

List of participants in the PSC Meeting
Physical Mode

DAHD, GOI

1. **Ms. Alka Upadhyaya, Secretary (AHD)-In Chair**
2. Ms Varsha Joshi, Additional Secretary (CDD & IT)
3. Ms. Anandi Venkateswaran, Director (IFD), DAHD
4. Shri Dayanand Appa Sawant, Deputy Commissioner (DD), DAHD
5. Shri Sudhanshu Shekhar, Assistant Commissioner (DD), DAHD
6. Shri C.L. Gautam, Under Secretary (Budget), DAHD
7. Shri Arpit Enoch Dass, Technical Officer (DD), DAHD
8. Shri Sagar Gupta, Section Officer, IFD, DAHD

PMC-NPDD Comp. B at DAHD, GOI

9. Shri S.K. Sharma, Sr. Dairy Specialist
10. Shri Rupesh Kumar Pandey, Co-Team Leader
11. Shri Digvijay Singh Bisht, PME
12. Shri Shailesh Tiwari, Coordinator
13. Shri Devinder Singh, Dairy Specialist

National Dairy Development Board

14. Dr G Kishore, Senior General Manager, NDDB
15. Shri TT Vinayakam, Group Head Finance, NDDB
16. Shri Sujit Saha, Group Head IMC Group, NDDB
17. Ms. Rajni Tripathi, Sr. Manager, NDDB
18. Shri Raghu Mallegowda, NDDB Dairy Services

Online Mode

19. Ms. Shruti Bhardwaj, I.A.S, Managing Director of Rajasthan Cooperative Dairy Federation
20. Shri Kumarjib Chakraborty, IAS, OSD and Ex-Officio Sr. Special Secretary. Department of Animal Resource Department, West Bengal
21. Mr S V Ramana, MD, Shreeja MPC
22. Mr S Roy, Senior General Manager, NDDB
23. Ms Mahima Sharma, NDDB Dairy Service
24. Officials from Bihar, Uttarakhand, Manipur, Maharashtra, Telangana, Andhra Pradesh, Tripura, Sikkim Gujarat, Madhya Pradesh, Uttar Pradesh, Punjab, Haryana, Chhattisgarh etc.

Annexure-II

Target and Achievement for Establishment of New DCS under White Revolution 2.0

State/ UT	Target						Achievement 2024-25	Revised Target 2025-26	Balance Target (2026-27 to 2028- 29)
	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	Total			
Andhra Pradesh	3,091	1,066	1,028	963	894	7,042	896	1012	5,134
Assam	135	680	460	540	585	2,400	422	900	1,078
Bihar	2,320	1,980	748	748	748	6,544	2222	3000	1,322
Chhattisgarh	500	1,070	910	910	910	4,300	245	700	3,355
Goa	2	13	8	9	9	41	3	14	24
Gujarat	238	245	240	228	222	1,173	601	214	358
Haryana	149	213	166	171	171	870	127	171	572
Himachal Pradesh	90	478	259	249	244	1,320	429	70	821
Jammu & Kashmir	150	254	202	202	152	960	1094	100	-234
Jharkhand	100	698	374	364	364	1,900	157	100	1,643
Karnataka	669	777	639	603	623	3,311	793	952	1,566
Kerala	34	34	34	34	34	170	0	28	142
Madhya Pradesh	512	1,424	1,043	1,043	1,043	5,064	522	2700	1,842
Maharashtra	133	781	506	516	492	2,428	735	913	780
Manipur	26	97	61	61	61	306	18	100	188
Meghalaya	10	165	100	70	70	415	12	165	238
Mizoram	15	31	23	18	18	105	2	43	60
Nagaland	1	35	19	20	21	96	2	35	59
Odisha	1,209	1,554	1,243	2,815	1,726	8,547	0	3500	5,047
Puducherry	1	3	1	1	1	7	2	3	2
Punjab	476	530	488	447	437	2,378	325	636	1,417
Rajasthan	1,300	1,808	1,599	1,634	1,671	8,012	1602	2500	3,910
Sikkim	15	12	10	10	10	57	36	10	11
Tamil nadu	227	386	323	334	346	1,616	512	323	781
Telangana	372	435	306	208	204	1,525	60	322	1,143
Tripura	15	31	28	28	28	130	1	45	84
Uttar Pradesh	1,666	2,101	2,026	2,121	2,216	10,130	1760	2101	6,269
Uttarakhand	222	473	333	328	306	1,662	92	295	1,275
West Bengal	295	741	530	461	464	2,491	86	950	1,455
Grand Total	13,973	18,115	13,707	15,136	14,070	75,000	12,756	21,902	40,342

Budget for new DCS Creation under Revised NPDD Scheme

S. No	States	Implementing Agency	Target for New DCS FY 2025-26	Project Outlay (Amount Rupees in Lakh)		
				Total Outlay	Gol share	State/ Organisation share
1	Andhra Pradesh	The Andhra Pradesh Dairy Development Cooperative Federation Limited (APDDCF)	1012	1882.32	941.16	941.16
2	Assam	West Assam Milk Producers Cooperative Union Limited (WAMUL)	900	1674.00	1255.50	418.50
3	Bihar	Bihar State Milk Cooperative Federation Ltd (COMFED)	3000	5580.00	2790.00	2790.00
4	Chattisgarh	Chhattisgarh Rajya Sahakari Dugdh Mahasangh Maryadit (Devbhog)	700	1302.00	651.00	651.00
5	Goa	Goa State Co Op Milk Producers Union Limited	14	26.04	13.02	13.02
6	Gujarat	Gujarat Cooperative Milk Marketing Federation Limited (GCMMF)	214	398.04	199.02	199.02
7	Haryana	Haryana Dairy Development Cooperative Federation Limited (HDDCF)	171	318.06	159.03	159.03
8	Himachal pradesh	HP State Coop Milk Producers Federation Limited (HP Milkfed)	70	130.20	97.65	32.55
9	Jammu and Kashmir	Jammu and Kashmir Milk Producers Cooperative Ltd (JKMPCL)	100	186.00	139.50	46.50
10	Jharkhand	The Jharkhand State Cooperative Milk Producer's Federation Limited (JMF)	100	186.00	93.00	93.00
11	Karnataka	Karnataka Cooperative Milk Producers Federation Limited (KMF)	952	1770.72	885.36	885.36
12	Kerala	Kerela Co-operative Milk Marketing Federation Ltd (MILMA)	28	52.08	26.04	26.04
13	Madhya Pradesh	MP State Cooperative Dairy Federation Ltd (MPCDF)	2700	5022.00	2511.00	2511.00
14	Maharashtra	Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit (MRSDMM)	913	1698.18	849.09	849.09
15	Manipur	Manipur Milk Producers' Cooperative Union Ltd	100	186.00	139.50	46.50
16	Meghalaya	East Khasi Hills District Cooperative Milk Union (EKMUL)	165	306.90	230.18	76.73
17	Mizoram	Mizoram Milk Producers Cooperative Union Ltd (MULCO)	43	79.98	59.99	20.00
18	Nagaland	The Nagaland State Dairy Cooperative Federation Limited (NSDCF)	35	65.10	48.83	16.28

Budget for new DCS Creation under Revised NPDD Scheme

S. No	States	Implementing Agency	Target for New DCS FY 2025-26	Project Outlay (Amount Rupees in Lakh)		
				Total Outlay	Gol share	State/ Organisation share
19	Odisha	The Odisha State Co-operative Milk Producers' Federation Ltd (OMFED)	3500	6510.00	3255.00	3255.00
20	Puducherry	The Pondicherry Cooperative Milk Producers' Union Limited (PONLAIT)	3	5.58	4.19	1.40
21	Punjab	The Punjab State Cooperative Milk Producers Federation Ltd (MILKFED)	636	1182.96	591.48	591.48
22	Rajasthan	Rajasthan Cooperative Dairy Federation Ltd (RCDF)	2500	4650.00	2325.00	2325.00
23	Sikkim	The Sikkim Cooperative Milk Producers' Union Ltd	10	18.60	13.95	4.65
24	Tamil Nadu	Tamil Nadu Cooperative Milk Producers Federation Limited (TCMPFL)	323	600.78	300.39	300.39
25	Telangana	Telangana Dairy Development Co-operative Federation Limited (TSDDCF)	322	598.92	299.46	299.46
26	Tripura	Gomati Cooperative Milk Producers Union Ltd	45	83.70	62.78	20.93
27	Uttar Pradesh	Pradeshik Cooperative Dairy Federation Ltd (PCDF)	2101	3907.86	1953.93	1953.93
28	Uttarakhand	Uttarakhand Co-operative Dairy Federation Ltd. (UCDF)	295	548.70	411.53	137.18
29	West Bengal	West Bengal Cooperative Milk Producers Federation Ltd.	950	1767.00	883.50	883.50
	Total		21902	40737.72	21190.08	19547.70

Annexure III

Target and Achievement for Strengthening of DCS under White Revolution 2.0

State/ UT	Target						Achievement 2024-25	Revised Target 2025-26	Balance Target (2026-27 to 2028-29)
	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	Total			
Andhra Pradesh	211	632	527	421	316	2,107	5	1605	497
Assam	18	55	46	37	28	184	0	55	129
Bihar	610	1,830	1,525	1,220	915	6,100	260	2985	2,855
Chhattisgarh	45	135	113	90	68	451	0	180	271
Goa	6	18	15	12	9	60	0	30	30
Gujarat	440	1,320	1,100	880	660	4,400	3956	2098	
Haryana	119	356	297	237	178	1,187	0	422	765
Himachal Pradesh	19	57	47	38	28	189	148	57	
Jammu & Kashmir	33	98	82	66	49	328	756	32	
Jharkhand	32	96	80	64	48	320	153	150	17
Karnataka	410	1,230	1,025	820	615	4,100	619	2117	1,364
Kerala	83	250	208	167	125	833	379	158	296
Madhya Pradesh	273	819	683	546	410	2,731	67	1038	1,626
Maharashtra	419	1,256	1,047	837	628	4,187	0	985	3,202
Manipur	2	7	6	5	4	24	0	20	4
Meghalaya	1	3	2	2	1	9	133	61	
Mizoram	1	2	2	1	1	7	0	3	4
Nagaland	1	3	3	2	2	11	0	3	8
Odisha	114	342	285	228	171	1,140	209	342	589
Puducherry	3	10	9	7	5	34	0	35	
Punjab	244	732	610	488	366	2,440	539	553	1,348
Rajasthan	470	1,410	1,175	940	705	4,700	817	600	3,283
Sikkim	17	51	42	34	25	169	205	10	
Tamil nadu	297	892	743	595	446	2,973	3426	97	
Telangana	134	401	334	267	200	1,336	175	424	737
Tripura	3	9	7	6	4	29	0	12	17
Uttar Pradesh	500	1,499	1,250	1,000	749	4,998	0	110	4,888
Uttarakhand	85	255	213	170	128	851	24	255	572
West Bengal	52	157	131	105	79	524	0	209	315
Grand Total	4,642	13,925	11,607	9,285	6,963	46,422	11,871	14,646	22,817

Note: Apart from this, 10,495 Milk Pooling Points are proposed to be strengthened by the Milk Producer Organisations

Summary of Action taken report on the meeting of Project Sanctioning Committee (PSC) held on 29 August 2024

S. No.	Decision	Action Taken
1.	Considering approval of SPP submitted by Vikramshila Milk Union, Bihar	Complied Sanction letter issued.
2.	Considering approval of SPP submitted by Kosi Milk Union, Bihar	Complied Sanction letter issued.
3.	Considering approval of SPP submitted by Magadh Milk Union, Bihar	Complied Sanction letter issued.
4.	Considering approval of SPP submitted by Shahabad Milk Union, Bihar	Complied Sanction letter issued.
5.	Considering approval of SPP submitted by COMFED, Bihar	Complied Sanction letter issued.
6.	Considering approval of SPP submitted by Tirhut Milk Union, Bihar	Complied Sanction letter issued.
7.	Considering approval of SPP submitted by Mithila Milk Union, Bihar	Complied Sanction letter issued.
8.	Considering approval of SPP submitted by Vaishal Patliputra Milk Union, Bihar	Complied Sanction letter issued.
9.	Considering approval of SPP submitted by Sri Vijaya Visakha Milk Producer Company, Andhra Pradesh	Complied Sanction letter issued.
10.	Considering approval of SPP submitted by Midnapore Milk Union, West Bengal	Complied Sanction letter issued.
11.	Considering approval of SPP submitted by Ichhamati Milk Union, West Bengal	Complied Sanction letter issued.
12.	Considering approval of SPP submitted by Varanasi Milk Union, Uttar Pradesh	Complied Sanction letter issued.
13.	Considering approval of SPP submitted by Pali Milk Union, Rajasthan	Complied Sanction letter issued.
14.	Re-appropriation of line items within approved SPP of Shreeja MPC	Complied Letter conveying approval issued.
15.	Re-appropriation of line items within approved SPP of Mithila Milk Union, Bihar	Complied Letter conveying approval issued.

Rationale for proposed re-appropriation

Component: Strengthening Milk Procurement Infrastructure

1. **Advanced Milk testing and Adulteration Detection Machine:** An Advanced Milk Testing and Adulteration Detection Machine is a device, usually used with an Automatic Milk Collection Unit (AMCU), that checks milk for quality and purity. It measures fat, SNF (solids-not-fat), protein, and water content, and can detect adulterants like urea, detergent, and sugar. It also keeps a record of all operations, helping ensure milk quality and safety. The unit cost considered is Rs. 4.72 Lakh.
2. **Silage Baler Machine (60 kg capacity):** The Silage Baler machine will have a better capacity for production and will be economically viable. The silage baler would serve the same purpose of demonstration of green fodder conservation through silage making to the dairy farmers, especially in hilly regions. The unit cost considered is Rs. 21.35 Lakh.
3. **Milk Analyser (part of DPMCU instead of full unit):** Each DPMCU comprises sub assets namely Data Processor Unit with printer & GPRS Modem, Milk Analyzer, Electronic Weighing Scale, Ultrasonic Stirrer, Solar Charge Controller with Solar Panel, Remote display indicator and tubular battery. The proposed unit cost of OTP based Milk Analyzer is Rs. 35,000/- per unit, instead of full unit of DPMCU. For other parts of DPMCU, the PIs will contribute from their own funds or use existing inventory of sub assets. With installation of milk analysers, the PIs will be able to strengthen additional villages and procure quality milk.

Approval to similar proposal for re-appropriation by Shreeja MPO was accorded by PSC in its meeting held on 29 August 2024.

4. **Milk Collection Accessories:** Milk collection accessories are proposed for new and strengthening villages, to maintain better quality milk.
5. **Milk Cans:** In the earlier sanctioned projects, six milk cans per Milk Pooling Point (MPP) were proposed. However, due to increased milk procurement per milk pooling point, the PIs have proposed purchasing an additional milk cans at Rs. 3600/- per unit.
6. **AMCU:** To strengthen milk systems and maintain milk quality at BMC/MCC level, PIs have proposed installation of AMCU.
7. **Bulk Milk Cooler:** To handle increased milk procurement and to maintain the quality of the milk procured, PIs have envisaged for installation of BMCs along with BMC Accessories and Heat Recovery Unit.
8. **Building / Collection Facility for Village Producer Institution:** Milk pouring in villages is often influenced by socio-economic and political factors, sometimes limiting the PIs from maximizing collection. PIs feel that moving the Milk Pooling

Points (MPP) out of the Sahayak's compound would address the problem to a significant extent. Thus, it is proposed that the MPP be placed at a neutral location. The neutral location could be a common area of the panchayat or a rented place. A semi-portable, container-based MPP has been developed by Pls for easy deployment at any location, powered by solar energy to run all equipment and utilities. The proposed unit cost is Rs. 2 lakh /- per unit.

Component: Productivity Enhancement- through nutritional interventions

9. **Cereal/ Legume Fodder Crops seed:** Farmers prefer cereal/legume fodder crops as they give higher fodder yield, enhance animal nutrition, and help boost milk production. Thus, to promote green fodder production, Pls have proposed to procure additional cereal/legume
10. **Plantation of Perennial Fodder saplings:** Pls have proposed to purchase perennial fodder saplings to be distributed to its progressive farmer members.
11. **Chaff Cutters (powered):** Pls has proposed to purchase more number of chaff cutters as chaff cutter is essential for farmers to cut large volumes of fodder quickly and efficiently, thus saving time, reducing labour, improving animal health & boosting milk production, which makes daily farm operations more efficient.
12. **Fodder Storage Godown:** To ensure year-round fodder supply, it is important to store surplus green and dry fodder. This reduces shortages, cuts costs, and maintains proper animal nutrition.
13. **Purchase of Mowers:** To overcome the labour problem and to reduce the time for grass cutting, the Pls have proposed to purchase a high-speed mowers to reduce manual labour and cost of manual grass.
14. **Low cost silage making at MPP Level (250 MT per silage unit)** Considering the growing demand for silage in the operational area of Pls, additional silage unit for farmers' benefit are envisaged.
15. **Conveyer fed chaff cutter:** Conveyor-fed chaff cutter cuts fodder efficiently, saves time, reduces labor, and improves fodder use. To increase productivity further, the purchase of conveyer fed chaff cutters is envisaged.
16. **Promotional materials (poster, Pamphlet, reading material, etc.):** To create awareness among farmers, educate them about best practices, and promote adoption of new technologies and programs more promotional materials is envisaged.
17. **Micro Training Centers (MTC):** To spread awareness about improved farming practices, farmers need practical, hands-on training from Trainers, where progressive and successful farmers share their experiences with other dairy farmers. Training would cover key areas such as milk production, fodder cultivation, and fodder conservation. Establishing a Micro-Training Centre (MTC) is essential for organizing regular training sessions and demonstrations at the village level. In some Pls, exiting Micro Training Centre has proven very effective

in providing trainings to the farmers. On similar lines, to cater the training needs of farmers in remote villages and MPAs, MTC is proposed to be set-up.

Component: Training & Capacity Building

To cover more number of dairy farmers under training various training programmes are proposed to be conducted such as:

18. **Awareness Program on Clean Milk Production:** To sensitize its producer members towards hygienic practices for clean milk production and improve overall quality of milk, PIs has proposed to increase number of trainings on 'to cover more number of dairy farmers under training.
19. **Producer / Women Awareness Programme:** To educate farmers and women on better dairy practices, collective work, and new technologies to improve their income.
20. **Village awareness programmes for enhancing adoption of cattle feed, green fodder & mineral mixtures:** To educate more farmers on the benefits of adopting scientific feeding, cattle feed, green fodder, and mineral mixtures, which help improve animal health, increase milk production, and enhance farmer income.

Model DPR for Creation of New Village Level Dairy Cooperative Societies

Model Detailed Project Report

for

Creation of New Village Level Dairy Cooperative

Societies in _____ *(Name of the State)* **during 2025-26**

under

Component A of Revised National Programme for

Dairy Development (NPDD) Scheme

Submitted by:

_____ **State Cooperative Dairy Federation**

Table of Content

S.No.	Topic	Page No.

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Table No.	Topic	Page No.

List of Annexures

Annexure No.	Topic	Page No.

Summary of the Project Proposal

1.	Title of the Project	Creating of New Village Level Dairy Cooperative Societies in ___ABC___State									
2.	State Implementing Agency (SIA)										
3.	End Implementing Agency (EIA)										
4.	Districts Covered										
5.	Project Objective	To increase the coverage of organized sector through the establishment of new dairy cooperatives/ strengthening of existing dairy cooperatives in the districts of ___ABC___State , thereby providing dairy farmers opportunities to market their produce.									
6.	Project Duration	2025-26									
7.	Proposed Activities <i>(major physical targets in brief)</i>	<ul style="list-style-type: none"> Setting up of new DCS:___(Nos.) Additional Milk Producers enrolled: _____ (Nos.) Additional Milk Procurement: _____ TLPD 									
8.	Project Outlay	Rs. _____ Lakh									
9.	Project Finance	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr style="background-color: #d9ead3;"> <th style="text-align: center;">Particulars</th> <th style="text-align: center;">Amount (Rs. in Lakh)</th> </tr> <tr> <td>Central Government's Share</td> <td></td> </tr> <tr> <td>State Government/SIA/EIA's Share</td> <td></td> </tr> <tr> <td style="text-align: center;">Total</td> <td></td> </tr> </table>		Particulars	Amount (Rs. in Lakh)	Central Government's Share		State Government/SIA/EIA's Share		Total	
Particulars	Amount (Rs. in Lakh)										
Central Government's Share											
State Government/SIA/EIA's Share											
Total											

Executive Summary

Background: _____ **POI** was established in the year _____. The area of operation of the PI is _____ districts of the State, namely _____, _____, _____ and _____. As on March 2025, the POI has _____ organised DCS of which _____ are functional and _____ are registered. During 2024-25, the POI procured _____ TKgPD from about _____ thousand milk producers. The bulk milk purchase of the POI was about _____ TKgPD from co-operative dairies of other states like _____ and private dairies. The sale of packed liquid milk by the POI was about _____ TLPD.

The POI has envisaged to implement a project under Component A of the revised National Programme for Dairy Development (NPDD) scheme for strengthening the cooperative milk procurement network at the village level in its operational area.

Project Objective: “To increase the coverage of organized sector through the establishment of new dairy cooperatives/ strengthening of existing dairy cooperatives in the districts of _____ABC_____ State, thereby providing dairy farmers opportunities to market their produce.”

Project Period: The project has been envisaged to be implemented over a period of one year i.e., 2025-26.

Project Area: (_____ Name of the Districts _____ of _____ABC_____ State) .

Target Beneficiaries: After implementation of the project, the milk producer members of the DCS affiliated with the **POI** in the proposed project area will be benefitted.

Project Outputs:

- Setting up of _____ (Nos. of DCS) _____ new DCS at the village level by the end of the project period.
- The POI would be procuring an annual average of about _____ TKgPD through _____ Nos. of Milk Producers by the end of the project period.

Project Outcome:

- The project will provide milk producers with access to an organised market for the sale of their milk through a fair & transparent procurement system. It will also contribute to strengthen the livelihoods of smallholder milk producers in the project area.

1. About _____ POI

1.1. Overview of Operational Area

1.1.1. _____ POI was established in the year _____. The area of operation of the POI is two districts of the State, namely _____ and _____.

1.1.2. Milk procurement network: As on March 2025, the POI has _____ organised DCS of which _____ are functional. About _____ Lakh milk producers are members of DCS with _____% women members (_____ Lakh women members). Milk procurement and liquid milk sale of the POI is increasing at a CAGR of _____% and _____%, respectively, over past 5 years. Details of past performance of the POI are given in the table below:

Table 1: Past Performance of the POI

No.	Particulars	Units	2020-21	2021-22	2022-23	2023-24	2024-25
1	DCS Organized	Nos.					
2	DCS Registered	Nos.					
3	DCS Functional	Nos.					
4	Farmers Members	'000' Nos.					
5	Chilling Capacity	TLPD					
5.1	Chilling Plant Capacity	TLPD					
5.2	Bulk Milk Coolers	TLPD					
6	Dairy Plant Capacity	TLPD					
7	Daily Average Milk Procurement	TKgPD					
8	Daily Average Milk Marketing	TLPD					

1.1.3. [Name of Dairy Cooperative] currently offers a diverse product portfolio comprising [list of major dairy products], totaling _____ distinct product variants.

1.1.4. Additionally, it operates a [type of facility] named [Facility Name], located in [Location], which produces _____ variants of [Cattle Feed Brand Name] and _____ nutritional supplement variants _____ and _____.

1.1.5. Financial Performance: The financial performance of the _____ POI in the past 5 years is as given below:

Table 2: Financial Performance of the _____ POI in past 5 years

No.	Particulars	Past Performance (Rs. in Lakh)				
		20-21	21-22	22-23	23-24	24-25
1	Share capital					
2	Accumulated Profit / Loss (-)					
3	Net profit					
4	Net-Worth					
5	Turnover					

2. Means of Finance

- The _____ POI proposes to avail financial assistance under the Component A of the revised NPDD scheme.
- The total project outlay is Rs. _____ Lakh with Rs. _____ Lakh as central government grant-in-aid and Rs. _____ Lakh as State Govt./SIA/EIA contribution.
- In addition, it has been observed that _____ POI has consistently generated substantial profits over the past ____ years (from 2020-21 to 2024-25). In [Year], the POI reported a net profit of approximately Rs. ____ Lakh and an accumulated profit of around Rs. ____ Lakh. Therefore, it is expected that the POI would be able to mobilize its share of the project cost from its internal resources.
- If, _____ POI is unable to arrange its share of funds, the [Name of State Government/SIA] may consider extending financial support to meet the balance requirement and ensure smooth implementation of the proposed project activities.
- The detailed cost table is given as an **Annexure VI** (Consolidated).

2.1. No Duplication of Funding

There is no duplication of funding for the proposed project activities under the schemes of Central/ State Government/Agency. The POI will ensure that any duplication of funds for the proposed activities doesn't take place. An undertaking indicating no duplication of funding and proposed activities with the projects funded under other Central or State Government Schemes has been provided as **Annexure VII**.

2.2. Utilization of Earlier Approved Project Fund

The POI has not unspent funds against the funds released till 31.03.2024 (prior to TSA module implementation) under the Component A of NPDD scheme or the POI commits to submitting the required Utilization Certificate(s) and related documentation as per the prescribed format/norms of the scheme.

2.3. Resource Utilisation

Existing resources have been fully utilized to avoid duplication or overlapping of the proposed activities. The proposal is prepared after a realistic need assessment to make the proposed activities technically feasible.

2.4. Purchase Procedure

The POI will be using its own procurement procedure (Standard Operating Procedures). The Purchase Section for procurement of goods, works and services follows Standard Operating Procurement Procedures. Procurement of Goods, Works, and Services for this project will be carried out by adopting the appropriate procurement methods based on the value of the threshold limits as per the purchase guidelines. Transparency, fairness, competition, value for money and good governance in public procurement will be complied.

3. Key Outputs

- Setting up of _____ (Nos. of DCS) _____ new DCS at the village level by the end of the project period.

- The POI would be procuring an annual average of about ____ TKgPD through ____ Nos. of Milk Producers ____ by the end of the project period.

4. Project Outcome

- The project will provide milk producers access to an organised market for the sale of their milk through a fair & transparent system. It will contribute to strengthening the livelihoods of smallholder milk producers and can be one of the major sources of income for the milk producer members.
- The project would generate direct and indirect employment across the dairy value chain. The project would lead to empowerment and a reduction in the vulnerability of the members with increased income opportunities through engagement in dairying as a livelihood activity.

Annexure VI A: FACTSHEET – Component A of NPDD

1.0	Project synopsis			
1.1	Total Estimated Cost (Rs. in Lakh)			
1.2	Duration of Project	2025-26		
1.3	District covered			
1.4	Name of the SIA/CNA			
1.5	Name of the EIAs/SAs			
2.0	ITEMS	Base Year Status (2024-25)	EOP Targets (2025-26)	Incremental Target (EOP-Base)
2.1	Key Physical Targets			
2.1.1	DCS Organised			
2.1.2	DCS Functional			
2.1.3	DCS Registered			
2.1.4	Farmers members ('000')			
2.1.5	Daily Average Milk Procurement (TKgPD) (State Average)			
2.1.6	Daily Average Milk Marketing (TLPD) (State Average)			
2.1.7	MBRT of Raw Milk (in minutes) (State Average)			
2.2	Monitoring Parameter			
2.2.1	Members per Functional DCS (Nos.)			
2.2.2	Average Procurement Per Member (KgPD)			
2.2.3	Average Procurement per DCS (KgPD)			

Annexure VI A.1: Revised National Programme for Dairy Development
Setting up of Village Level New DCS under Component A of Revised NPDD scheme

Physical Targets

Name of SIA:

No.	Name of EIA/ Milk Union	Name of District	Name of Taluka/Block	No. of villages	Existing number of DCS		Proposed No. of DCS to be created/organised	Total number of Functional DCS at EOP
					Organised	Functiona l		
1.		1.1	1.1					
			1.2					
		1.2	1.2.1					
			1.2.2					
2.		2.1	2.1.1					
			2.1.2					
	Grand Total							

1. Targets should be aligned with the year-wise action plan approved under White Revolution 2.0

2. Separate list of names of DCS, district-wise and Taluka wise, proposed for new DCS needs to be furnished with expected milk procurement and infrastructure/items required for its functioning.

Annexure VI B.1: Setting up of Village Level New DCS under Component A of Revised NPDD

1. District-

Sr. No.	Name of Taluka	Name of DCS (Proposed)	Name of villages covered by the DCS proposed	Number of farmers proposed for enrolment	Expected Milk Procurement at EOP (LPD)
1.		1.1			
		1.2			
		1.3			

Annexure VI B.2 : Year-wise detailing for Setting up of Village Level New DCS under Component A of Revised NPDD scheme

Financial Targets

Sr. No.	Equipment	Unit Cost (In Rs.)	Number of New DCS	Total Outlay (in Rs. lakh)
1.1	Milk Testing Equipment			
1.2	Milk Collection accessories			
1.3	Glassware & Chemicals			
1.4	Furniture and Fixtures			
1.5	Stationary			
1.6	Administrative expenses			
	Total			

Annexure VI C : Estimated Cost of the Dairy Project under Component A of Revised NPDD scheme

S. No.	Component	Physical Target	Unit price (Rs. per unit)	Total Outlay (Rs. in lakh)
		2025-26		
1	Milk Procurement-Setting up of Dairy Cooperative Societies			
1.1	Capital Expenditure			
A	Milk Testing Equipment			
1	Milk Analyser with EWS			
2	Gerber Centrifuge			
3	Hot Air Oven			
4	Adulteration Test Kit			
B.	Milk Collection accessories			
1	Milk Can 40 litres (SS)			
2	Milk Collection Tray, made 1.2mm thick SS 304, size 440x 590x65mm, Minimum weight -4200gm.			
3	Milk Sampler, Made from 1.2mm thick SS 304. Minimum weight -90gm			
4	Funnel with Strainer, made from 1.2mm thick SS 304. Minimum weight -1600gm			
5	Strainer Sieve for Funnel, Material SS 304			

S. No.	Component	Physical Target	Unit price (Rs. per unit)	Total Outlay (Rs. in lakh)
		2025-26		
6	Measure 100 ML, Made from 1.25mm thick SS 304. Minimum weight 125gm			
7	Milk Can Plunger, made from SS 304. Minimum weight-650gm			
8	Milk Bucket, made from SS 200 series, seamless with bottom ring, 15 litre capacity. Minimum weight -1600 gm			
9	Plastic hammer for can opening			
C.	Glassware & Chemicals			
1	Milk Butyrometer			
2	Lactometer			
3	Thermometer (Alcohol), 0 to 100° C, yellow back, accuracy 100%			
4	Graduated pipettes 10 ml			
5	Milk Pipette 7.5 ml			
6	Test tubes 18 X 150 mm			
7	Glass Beakers, 100 ml			
8	Glass Beakers, 500 ml			
9	Porcelain dish, 3 Inch			
10	Sprit lamp, Stainless Steel, 100 ml.			
11	Plastic sample bottles, 50 ml, with cap, made from food grade plastic, Minimum weight-5.5 gm			
12	Plastic tray for holding 24 Nos. sample bottles securely, made from food grade plastic, minimum weight 300 gm +_ 10 gm			
13	Tray for reagents, Size 16x12 Inches, made from food grade plastic			
14	Plastic tilt measure 1ml for alcohol with rubber cork & with plastic bottle of 250 ml.			
15	Plastic tilt measure 10 ml for acid with rubber cork & with plastic bottle of 500 ml			
16	Test Tube Stand for 12 tubes of size18X150mm, Aluminum			
17	Nylon Brush for cleaning pipettes, nylon length 4 Inches, total length 12 Inches			
18	Nylon Brush for cleaning 50 ml milk sample bottles, nylon length 4" with tail & thick steel wire			
19	Heater			
20	Acid (20 Kg) and Alcohol (2 litres)			

Annexure VI D: Indicative Format for submitting undertaking indicating no duplication of funding and proposed activities with the projects funded under other Central or State Government or Other Agency Schemes

On the Letter Head of SIA/ CNA

UNDERTAKING

This is to certify that the project proposal submitted under Revised National Programme for Dairy Development (NPDD) scheme for creation of new dairy cooperative societies for implementation during 2025-26 to DAHD, GOI with the total outlay of Rs._____ lakh, no financial assistance or funding has been / is being sought/received from any other source or under any scheme of Central / State Government/agency for activity (ies) / components (s) forming part of the said project proposal.

Further, it is certified that no duplication of funding and project activities with approved projects under schemes of Central / State Government/Other Agency.

Managing Director

_____ **Cooperative Milk Federation Limited**

Annexure VI E (Indicative Format of Forwarding Let from State Government to GOI)

State Government

Department of Animal Husbandry & Dairying

To

Additional Secretary (C&DD)

Department of Animal Husbandry & Dairying
Ministry of Fisheries, Animal Husbandry & Dairying
Krishi Bhawan, New Delhi

Subject: Submission of Project Proposal for creation/organisation of New Dairy Cooperative Societies in ____ State during 2025-26 under Revised NPDD scheme

Madam,

I hereby convey our consent to the approval of 15th Project Sanctioning Committee meeting held on 16.06.2025 on the physical targets and financial allocation made for creation of ____ nos. of new DCS in ____ State with a total outlay of Rs. _____ lakh for implementation during 2025-26 under Revised NPDD scheme. District-wise/Village-wise project proposal with monitorable targets have been prepared and enclosed. It is also assured that the matching State Share/Organisation Share of Rs. ____ lakh for completion of the project activity will be provided by State Government/Implementing Organisation. In addition, it is also to inform that there is no unspent balance/Rs. ____ unspent balance with the Implementing Agency against the funds released till 31.03.2024 (before TSA module implementation)/which would be utilised/refunded by _____. An undertaking of no duplication of the project activity with any other scheme/programme of Central/State Government/Other agency SIA is also enclosed with the DPR.

I would request DAHD, GOI to release 1st instalment of grant of Rs. ____ lakh (50% of GOI Share) for FY 2025-26 to _____ State Milk Federation, the State Implementing Agency/Central Nodal Agency of the scheme in _____ State at the earliest.

Yours _____

(Secretary)

Department of Animal Husbandry & Dairying

State Government

Revised Cost Sheet for Bhilwara Milk Union

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	632.42	632.42	0.00
B	Strengthening Processing Infrastructure	11868.76	10987.12	-881.64
B.1.	- Milk processing facilities and manufacturing facilities for Value Added Products	5564.41	4682.77	-881.64
B.2.	- Feed & feed supplements manufacturing infrastructure	6304.35	6304.35	0.00
C	Support for Marketing infrastructure	0.00	0.00	0.00
D	Support for ICT Infrastructure	0.00	0.00	0.00
E	Productivity Enhancement	337.29	337.29	0.00
F	Training & Capacity Building	154.08	154.08	0.00
	Total	12992.55	12110.90	-881.64

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
ODA Loan	10840.90	10047.42	-793.48
Grant	899.61	899.61	0.00
PI contribution	1252.04	1163.88	-88.16
Total	12992.55	12110.90	-881.64

Sr. No.	Sub-Component	Financial Outlay (Rs. Lakh)		
		Present sanction (11 Jul 2023)	Proposed Sanction	Increase/ Decrease
1	Civil Works			
2	Process & product equipment	4120.1	3623.28	-496.82
3	Service equipment	378	301.84	-76.16
4	Miscellaneous equipment	274.47	152.87	-121.6

Sr. No.	Sub-Component	Financial Outlay (Rs. Lakh)		
		Present sanction (11 Jul 2023)	Proposed Sanction	Increase/Decrease
5	General Charges	25	25	0
6	Erection	501.12	314.05	-187.07
7	Technical Service Fee	265.73	265.73	0
	Total Outlay	5564.42	4682.77	-881.65

Sr. No.	Sub-Component	Financial Outlay (Rs. Lakh)		
		Original Sanction (11 Jul 2023)	Proposed Sanction	Increase/Decrease
1	Civil Works	2272.43	2381.01	108.58
2	Process & product equipment	2178.52	2339.26	160.74
3	Service equipment	616.59	567.75	-48.84
4	Miscellaneous equipment	411.15	524.3	113.15
5	General Charges	18	23.25	5.25
6	Erection	506.6	253.24	-253.36
7	Technical Service Fee + GST	301.06	215.54	-85.52
	Total Outlay	6304.35	6304.35	0

Revised Cost Sheet for Jaipur Milk Union

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	5305.47	5304.38	-1.09
E	Productivity Enhancement	337.29	337.29	0.00
F	Training & Capacity Building	170.18	170.18	0.00
	Total	5812.94	5811.85	-1.09

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
ODA Loan	2365.04	2364.50	-0.54
Grant	3356.63	3356.08	-0.55
PI contribution	91.27	91.27	0.00
Total	5812.94	5811.85	-1.09

Sr. No	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk procurement infrastructure					
1	Building for DCS	200	1155.7	200	1155.7	0
2	SS milk collection Accessories	400	462.28	400	462.28	0
3	Management grant to DCS Secretary	200	113.11	200	113.11	0
4	AMCU	400	693.417	1160	1833.4	1140.1
5	Building for Bulk Cooler	120	396.9	0	0	-396.9
6	BMC - 1 KL	80	749.7	50	468.56	-281.14
7	BMC – 2 KL	40	463.05	0	0	-463.05

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
8	Tankers for milk transportation 10KL	50	1271.32	50	1271.32	0
	Total		5305.47		5304.37	-1.10
	Loan		2365.04		2364.50	-0.55
	Grant		2882.89		2882.35	-0.55
	PI's contri.		57.54		57.54	0
Productivity Enhancement Services						
	Total		337.29		337.29	0
	Loan		0		0	0
	Grant		303.56		303.56	0
	PI's contri.		33.73		33.73	0
Training						
	Total		170.18		170.18	
	Loan					
	Grant		170.18		170.18	
	PI's contri.					
Project Outlay						
	Total		5812.94		5811.86	-1.1
	Loan		2365.04		2364.5	-0.55
	Grant		3356.63		3356.09	-0.55
	PI's contri.		91.27		91.27	0

Revised Cost Sheet for UCDF

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
1	Strengthening Milk Procurement infrastructure	0.00	0.00	0.00
2	Strengthening ICT infrastructure	0.00	0.00	0.00
3	Productivity Enhancement	633.48	633.48	0.00
4	Training & Capacity Development	5.70	5.70	0.00
5	Marketing	0.00	0.00	0.00
	Total Outlay	639.18	639.18	0.00

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	0.00	0.00	0.00
Grant (Gol)	575.84	575.84	0.00
PI's Contribution	63.35	63.35	0.00
Total Outlay	639.18	639.19	0.00

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement- through Nutritional Interventions					
1	High Speed Wet Biomass Unit	2	94.93	1	40.25	-54.68
2	Other Line items under PE component	-	538.55		538.55	0
3	Automatic Silage Baler	-	-	5	54.68	54.68

Sr. No.	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	(Capacity 60 kg)					
	Total		633.48		633.48	0.00
	Loan		0		0.00	0
	Grant		570.13		570.13	0
	PI's contri.		63.35		63.35	0
	Training					
	Total		5.70		5.70	0.00
	Loan		0.00		0.00	0
	Grant		5.70		5.70	0
	PI's contri.		0.00		0.00	0
	Project Outlay					
	Total		639.18		639.18	0.00
	Loan		0.00		0.00	0
	Grant		575.83		575.83	0
	PI's contri.		63.35		63.35	0

Revised Cost Sheet for Bapudham MPC

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Productivity Enhancement	609.86	609.86	0.00
B	Training & Capacity Building	11.76	11.76	0.00
	Total	621.62	621.62	0.00

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	0.00	0.00	0.00
Grant (Gol)	560.63	560.63	0.00
PI's Contribution	60.99	60.99	0.00
Total Outlay	621.62	621.62	0.00

Sr. No	Sub-Component	Sanctioned		Proposed reappropriation		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
Productivity Enhancement						
1	Fodder Seeds	24	2.52	54	5.4	2.88
2	Chaff cutter Power	20	5.13	318	79.3	74.18
3	Fodder storage godown	3	49.65	4	59.35	9.7
4	Low-cost silage Making	3	31.53	4	40	8.48
5	Micro Training centre	0	0	1	10	10
6	Others		521.03		415.81	-105.23
	Total		609.86		609.86	0
	Loan		0		0	0
	Grant		548.87		548.87	0

Sr. No.	Sub-Component	Sanctioned		Proposed reappropriation		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	PI's contribution		60.99		60.99	0
Training & Capacity development						
1	Village awareness programmes	60	6.62	97	9.12	2.5
2	Others		5.14		2.64	-2.5
	Total		11.76		11.76	0
	Loan		0		0	0
	Grant		11.76		11.76	0
	PI's contribution		0		0	0
Project Outlay						
	Total		621.62		621.62	0
	Loan		0		0	0
	Grant		560.63		560.63	0
	PI's contribution		60.99		60.99	0

Revised Cost Sheet for Saahaj MPC

SN	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	4107.92	4307.32	199.41
B	Productivity Enhancement	578.42	578.42	0.00
C	Training & Capacity Building	219.27	219.27	0.00
	Total	4905.60	5105.01	199.41

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	1478.16	1478.16	0.00
Grant (Gol)	3254.44	3254.44	0.00
PI's Contribution	173.00	372.41	199.41
Total Outlay	4905.60	5105.01	199.41

Sr. No	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1820	2598.79	1820	1740.64	-858.15
2	AMCU	40	79.7	40	62.99	-16.71
3	MPP accessories	1200	134.01	1200	125.54	-8.47
4	Milk cans	7000	281.89	7000	221.88	-60.02
5	BMC 1 KL	18	197.95	18	157.69	-40.26
6	BMC 2 KL	6	79.88	6	64.43	-15.45
7	Management grant to Village level functionary	1200	735.69	1200	604.77	-130.92
8	Milk Analyser			3070	1074.5	1074.5
9	Advanced Milk testing			54	254.88	254.88

Sr. No .	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	and Adulteration Testing machine					

Sr. No .	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Total		4107.92		4307.32	199.4
	Loan		1478.16		1478.16	0
	Grant		2514.6		2514.6	0
	PI's contribution		115.16		314.56	199.4
	Productivity Enhancement- through Nutritional Interventions					
1	Fodder Seed	26	12.18	76	26.56	14.38
2	Chaff cutter Power			624	156	156
3	Other line items under PE		566.23		395.85	-170.38
	Total		578.42		578.42	0
	Loan		0		0	0
	Grant		520.57		520.57	0
	PI's contribution		57.84		57.84	0

Sr. No .	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	

Sr. No	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Training & Capacity Development					
	CMP	34000	38.59	38060	40.79	2.21
	WMP	34000	38.59	40450	42.76	4.18
	MPP Sahayak	500	5.51	620	6.1	0.59
	Dairy farmers	20	2.26	44	4.66	2.4
	Other trainings		134.32		124.95	-9.37
	Total		219.27		219.27	0
	Loan		0		0	0
	Grant		219.27		219.27	0
	PI's contribution		0		0	0
	Total Project Outlay					
	Grand Total		4905.61		5105.01	199.4
	Loan		1478.16		1478.16	0
	Grant		3254.44		3254.44	0
	PI's contribution		173		372.4	199.4

Annexure XII

Revised Cost Sheet for Harit Pradesh MPC

SN	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	2826.09	2845.89	19.80
B	Productivity Enhancement	562.40	562.40	0.00
C	Training & Capacity Building	112.44	112.44	0.00
	Total	3500.92	3520.73	19.81

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	1023.86	1023.86	0.00
Grant (Gol)	2342.99	2342.99	0.00
PI's Contribution	134.08	153.88	19.80
Total Outlay	3500.92	3520.73	19.81

Sr. No	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1450	2039.99	1450	1252.63	-787.37
2	AMCU	4	7.72	11	19.28	11.57
3	MPP accessories	1400	151.46	1400	65.03	-86.43
4	Milk Cans	8400	327.16	13900	461.37	134.21
5	Management grant	500	299.75	500	271.77	-27.98
6	BMC 5 KL			4	70	70
7	Heat Recovery Unit			4	3.2	3.2

8	Building for Village Producer Institution			158	316	316
9	Advanced OTP based Milk Analyser			700	245	245
10	Advanced Milk testing and adulteration Machine			30	141.6	141.6
	Total		2826.09		2845.89	19.8
	Loan		1023.86		1023.86	0
	Grant		1724.39		1724.39	0
	PI's contribution		77.84		97.64	0

Sr. No	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement- through Nutritional Interventions					
1	Low cost silage (250 MT per unit)	5	56.78	0	0	-56.78
2	Other line items under PE		505.62		470.62	-35
3	Silage Baler (60 Kg)			8	91.78	91.78
	Total		562.4		562.4	0
	Loan		0		0	0
	Grant		506.16		506.16	0
	PI's contribution		56.24		56.24	0
	Training & Capacity Development					
	Total		112.44		112.44	0
	Loan		0		0	0
	Grant		112.44		112.44	0

	PI's contribution		0		0	0
	Total Project Outlay					
	Grand Total		3500.92		3520.73	19.81
	Loan		1023.86		1023.86	0
	Grant		2342.99		2342.99	0
	PI's contribution		134.08		153.88	19.8

Revised Cost Sheet for Shwethdara MPC

SN	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	1474.11	1497.42	23.31
B	Productivity Enhancement	301.90	301.90	0.00
C	Training & Capacity Building	105.20	105.20	0.00
	Total	1881.20	1904.51	23.31

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	487.91	487.91	0.00
Grant (GoI)	1313.27	1313.27	0.00
PI's Contribution	80.02	103.33	23.31
Total Outlay	1881.20	1904.51	23.31

Sr. No .	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk Procurement Infrastructure					
1	DPMCU	671	754.94	671	573.64	-181.3
2	AMCU	12	20.34	12	18.99	-1.35
3	MPP accessories	510	182.03	510	182.03	0
4	BMC 5 KL	8	158.21	10	141.39	-16.82
5	BMC accessories	8	35.28	8	35.28	0
6	Heat Recovery Unit	8	7.06	10	7.35	0.29
7	Management grant to DCS Secretary	510	316.25	510	247.21	-69.04
8	Milk cans			1588	57.17	57.17

9	BMC 2 KL			4	42	42
10	Advanced OTP based Milk Analyser			172	60.2	60.2
11	Advanced Milk testing and adulteration Machine			28	132.16	132.16
	Total		1474.11		1497.42	23.31
	Loan		487.91		487.92	0
	Grant		936.37		936.37	0
	PI's contribution		49.83		73.14	23.31

Sr. No	Sub-Component	Sanctioned		Revised (Proposed reappropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement- through Nutritional Interventions					
1	Mower over 15 HP	1	22.05	3	62.05	40
2	Conveyer fed chaffcutter	1	1.93	3	4.95	3.02
3	Promotional materials	100	3.31	220	6.91	3.6
4	Other line items under PE		274.61		227.99	-46.62
	Total		301.9		301.9	0
	Loan		0		0	0
	Grant		271.71		271.71	0
	PI's contribution		30.19		30.19	0
	Training & Capacity Development					
	ProducerAwareness Programme	20400	23.04	29400	28.63	5.58
	Others		82.15		76.57	-5.58
	Total		105.2		105.2	0
	Loan		0		0	0
	Grant		105.2		105.2	0
	PI's contribution		0		0	0
	Total Project Outlay					
	Grand Total		1881.21		1904.52	23.31
	Loan		487.91		487.91	0
	Grant		1313.28		1313.28	0
	PI contribution		80.02		103.33	23.31

Revised Cost Sheet for Baani MPC

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	4063.36	4114.64	51.28
B	Productivity Enhancement	359.17	359.17	0.00
C	Training & Capacity Building	211.08	211.08	0.00
	Total	4633.60	4684.89	51.28

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	1318.29	1318.29	0.00
Grant (GoI)	3136.72	3136.72	0.00
PI's Contribution	178.60	229.88	51.28
Total Outlay	4633.60	4684.89	51.28

Sr. No .	Sub-Component	Sanctioned		Proposed reappropriation		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk Procurement Infrastructure					
1	DPMCU	2300	2616.23	2300	1723.79	-892.44
2	AMCU	12	20.34	12	20.34	0
3	MPP accessories	2200	791.02	4900	875.98	84.96
4	Milk Cans	-	-	6250	225	225
5	Management grant to Village level functionary	1000	635.77		373.53	-262.24
6	BMC 2 KL			20	210	210
7	Building for Village Producer Institution			225	450	450
8	Advanced Milk testing			50	236	236

	and adulteration Machine					
	Total		4063.36		4114.64	51.28
	Loan		1318.29		1318.29	0
	Grant		2602.39		2602.39	0
	PI's contribution		142.68		193.96	51.28

Sr. No	Sub-Component	Sanctioned		Proposed reappropriation		Increase/Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement					
1	Chaff cutter Powered			240	60	60
2	Low cost silage			2	20	20
3	Promotional materials			220	7.06	3.59
4	Other Line items under PE		355.69		272.11	-83.59
	Total		359.17		359.17	0
	Loan		0		0	0
	Grant		323.25		323.25	0
	PI's contribution		35.92		35.92	0

Sr. No .	Sub-Component	Sanctioned		Proposed reappropriation		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Training & capacity Development					
1	Refresher Training of MPP Sahayak	1200	13.73	3174	30.42	16.69

2	Training of staff of PI Field Staff	5	0.55	11	1	0.45
3	Strategic Dairy Business Management for MD & Section Heads	5	2.89	11	5.29	2.4
4	Milch animal rearing for dairy farmers	10	1.16	22	2.16	1
5	Training to ANO	2	0.46	4	0.93	0.46
6	Training to AN and CRP Supervisors	11	2.55	22	5.09	2.55
7	Training of fodder officers/field staff	2	0.46	4	0.92	0.46
8	Village awareness programmes	40	4.75	80	9.5	4.75
9	Awareness campaign on calf rearing	0	3.56	20	7.12	3.56
10	Other trainings		180.97		148.65	-32.32
	Total		211.08		211.08	0
	Loan		0		0	0
	Grant		211.08		211.08	0
	PI's contribution		0		0	0
	Total Project Outlay					
	Total		4633.61		4684.89	51.28
	Loan		1318.29		1318.29	0
	Grant		3136.72		3136.72	0
	PI's contribution		178.6		229.87	51.28

Revised Cost Sheet for Asha MPC

S.No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	1281.10	1366.40	85.30
B	Productivity Enhancement	266.93	266.93	0.00
C	Training & Capacity Building	100.54	100.54	0.00
		1648.57	1733.87	85.30

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	420.49	420.49	0.00
Grant (GoI)	1157.37	1157.37	0.00
PI's Contribution	70.70	156.01	85.31
Total Outlay	1648.57	1733.87	85.30

Sr. No	Sub-Component	Sanctioned		Proposed reappropriation		Increase / Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	735	830.9	735	659.78	-171.12
2	AMCU	6	10.09	6	9.56	-0.53
3	MPP accessories	450	160.78	450	130.43	-30.35
4	Management grant to Village functionary	450	279.33	450	224.36	-54.97
5	Building for Village Producer Institution:			59	118	118

6	Advanced OTP based Milk Analyser			425	148.76	148.76
7	Advanced Milk testing and adulteration Machine			16	75.52	75.52
	Total		1281.1		1366.4	85.3
	Loan		420.49		420.49	0
	Grant		816.6		816.6	0
	PI's contribution		44.01		129.32	85.3

Sr. No .	Sub-Component	Sanctioned		Proposed reappropriation		Increase / Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement- through Nutritional Interventions					
1	Establishment of MTC	-		2	20	20
2	Promotional materials	100	3.31	323	10	6.7
3	Other line items under PE		263.62		236.92	-26.7
	Total		266.93		266.93	0
	Loan		0		0	0
	Grant		240.23		240.23	0
	PI's contribution		26.69		26.69	0
	Training & Capacity Development					
	Total		0		100.54	0
	Loan		0		0	0
	Grant		100.54		100.54	0
	PI's contribution		0		0	0
	Total Project Outlay					
	Total		1648.57		1733.87	85.3
	Loan		420.49		420.49	0
	Grant		1157.37		1157.37	0
	PI's contribution		70.7		156.01	85.31

Revised Cost Sheet for Sakhi MPC

No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
A	Strengthening Milk Procurement infrastructure	2259.66	2395.75	136.09
B	Productivity Enhancement	273.76	273.76	0.00
C	Training & Capacity Building	168.14	168.14	0.00
		2701.56	2837.65	136.09

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	736.44	736.44	0.00
Grant (GoI)	1859.06	1859.06	0.00
PI's Contribution	106.05	242.15	136.10
Total Outlay	2701.56	2837.65	136.09

Sr. No .	Sub-Component	Sanctioned		Revision (Proposed re-appropriation)		Increase / Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening milk procurement infrastructure					
1	DPMCU	1280	1452.54	1280	1131.24	-321.3
2	AMCU	12	20.34	12	17.64	-2.7
3	MPP accessories	800	287.42	800	287.42	0
4	Management grant to Village level functionary	800	499.35	800	363.25	-136.1
5	Advanced OTP based Milk Analyser			692	242.2	242.2
6	Advanced Milk testing &			75	354	354

	adulteration Machine					
	Total		2259.66		2395.75	136.1
	Loan		736.44		736.44	0
	Grant		1444.54		1444.54	0
	PI's contribution		78.68		214.77	136.1

Sr. No .	Sub-Component	Sanctioned		Revision (Proposed re-appropriation)		Increase / Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Productivity Enhancement- through Nutritional Interventions					
1	Fodder storage godown	-	-	2	27	27
	Establishment of MTC	-	-	1	10	10
	Line items under PE		273.76		236.76	-37
	Total		273.76		273.76	0
	Loan		0		0	0
	Grant		246.39		246.39	0
	PI's contribution		27.38		27.38	0
	Training & Capacity Development					
	Total		168.14		168.14	0
	Loan		0		0	0
	Grant		168.14		168.14	0
	PI's contribution		0		0	0
	Total Project Outlay					
	Total		2701.56		2837.66	136.1
	Loan		736.44		736.44	0
	Grant		1859.06		1859.06	0
	PI's contribution		106.05		242.15	136.1

Annexure XVII

Revised Cost Sheet for Shreeja MPC

Sl. No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
1	Strengthening Milk Procurement infrastructure	7098.03	7253.35	155.32
2	Support for Marketing Infrastructure	4939.73	61.86	-4877.87
3	Training & Capacity Development	862.09	862.09	0
	Total Outlay	12899.85	8177.3	-4722.55

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	6381.67	2479.38	-3902.29
Grant (GoI)	6294.36	5318.77	-975.59
PI's Contribution	223.83	379.15	155.32
Total Outlay	12899.85	8177.30	-4722.55

Sr. No.	Sub-Component	Sanctioned		Revision (Proposed re-appropriation)		Increase/ Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
Strengthening milk procurement infrastructure						
1	DPMCU	2200	2518.58	2200	1637.75	-880.83
2	DPU and Milk Analyser (instead of full unit of DPMCU)	1000	551.25	0	0	-551.25
3	AMCU	105	181.19	65	112.16	-69.02
4	MPP accessories	2000	984.54	2000	984.54	0
5	Management grant to Village level functionary	2000	1253.72	2000	1081.33	-172.39
6	Building/facility for MPP			150	300	300
7	Advanced OTP based Milk Analyser			2700	945	945

8	Advanced Milk testing and adulteration Machine			120	566.4	566.4
9	Other line items		1608.76		1608.76	0
	Total (Milk procurement infra.)		7098.03		7253.18	155.15
	Loan		2429.89		2429.89	0
	Grant		4444.32		4444.32	0
	PI's contribution		223.83		378.97	155.15
Marketing						
	Total		4939.73		61.86	-4877.87
	Loan		3951.78		49.49	-3902.29
	Grant		987.95		12.37	-975.58
	PI's contribution		0		0	0
Training & Capacity Building						
	Re-appropriation proposed:					
	Training on clean milk production	80000	187.02	93510	218.6	31.58
	Village Contact Group orientation programme	10000	58.44	20380	119.1	60.65
	School Children Awareness Program	1500	86.89	1804	104.51	17.62
	Board of Directors (BOD) orientation program	1	1.16	14	14.86	13.7
	Business Appreciation Program ff	5	0.55	455	50.16	49.61
	Basic Training for new Sahayaks	2000	22.9	4299	49.22	26.33
	Refresher Training for Sahayaks	2000	23.03	4673	53.81	30.78
	Training of staff of DCS	5	0.55	448	49.27	48.72
	Strategic Dairy Business Management for MD	5	2.76	29	15.9	13.14
	Marketing trainings		291.78		0	-291.78
	Other line items		187.02		186.66	-0.36
	Total		862.09		862.09	0
	Loan		0		0	0
	Grant		862.09		862.09	0
	PI's contribution		0		0	0
Total Project Outlay						
	Total		12899.85		8177.3	-4722.55

	Loan		6381.67		2479.38	-3902.29
	Grant		6294.36		5318.78	-975.58
	PI's contribution		223.83		379.15	155.32

Revised Cost Sheet for Karimnagar MPC

Sl. No.	Particulars	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
1	Strengthening Milk Procurement infrastructure	1838.49	1172.10	-666.39
2	Milk processing facilities and Manufacturing facilities	6494.12	6969.00	474.88
3	Support for Marketing Infrastructure	432.71	257.62	-175.09
4	Support for ICT Infrastructure	180.76	180.76	0.00
5	Productivity Enhancement Services	21.95	390.03	368.08
6	Training & Capacity Building	102.92	134.03	31.11
	Total Outlay	9070.95	9103.54	32.59

Particulars	Financial Outlay (Rs. in Lakh)		
	Original Financial Outlay (Rs. in Lakh)	Revised Financial Outlay (Rs. in Lakh)	Difference
JICA ODA Loan	7152.62	7106.70	-45.90
Grant (GoI)	1246.31	1240.50	-5.86
PI's Contribution	672.03	756.32	84.29
Total Outlay	9070.95	9103.50	32.59

Sr. No .	Sub-Component	Sanctioned		Revised (Proposed re-appropriation)		Increase / Decrease (Rs. Lakh)
		Physical targets	Financial Outlay with contingency (Rs. Lakh)	Physical targets	Financial Outlay with contingency (Rs. Lakh)	
	Strengthening Milk procurement infrastructure					
1	Building for Village Producer Institution - Existing MPIs	100	583.63	50	291.82	-291.8
2	AMCU (New + Existing)	520	1050.63	520	676	-374.6
	Other line items		204.23		204.23	0
	Total		1838.49		1172.1	-666.4

	Loan		817.13		483.91	-333.2
	Grant		1000.94		667.72	-333.2
	PI Contribution		20.42		20.42	0
Milk processing facilities and Manufacturing facilities						
1	Dahi Yoghurt or Fermented Milk Plant	1	2544.95	1	3569.8	1024.9
2	Cattle Feed Plant - 100 TLPD	1	3849.17	1	3299.2	-550
3	Mineral Mixture Plant	1	100		100	0
	Total		6494.12		6969	474.85
	Loan		5844.71		6272.1	427.37
	Grant		0		0	0
	PI Contribution		649.41		696.9	47.49
Support for Marketing Infrastructure						
1	Milk Parlours with Visi Cooler & Deep Freezer	100	350.18	50	175.09	-175.1
2	Other line items		82.53		82.53	0
	Total		432.71		257.62	-175.1
	Loan		346.17		206.1	-140.1
	Grant		86.54		51.52	-35.02
	PI Contribution		0		0	0
Support for ICT Infrastructure						
	Total		180.76		180.76	0
	Loan		144.61		144.61	0
	Grant		36.15		36.15	0
	PI's contribution		0		0	0
Productivity Enhancement-through nutritional intervention						
1	Cereal Fodder seed	45	10.37	245	59.78	50.45
2	Chaff Cutter (powered)	2	0.55	202	61.61	61.06
3	Establishment of Micro Training Centre	1	11.03	5	61	49.97
4	Legume Fodder Seed			37.5	18.3	18.3

5	Perennial Fodder sapling (Lakh)			16.2	19.76	19.76
6	Purchase of High Speed Wet Biomass Unit			1	48.8	48.8
7	Fodder Storage Godown			5	91.5	91.5
8	Distribution of Mineral Mixture (MT)	-	-	60	29.28	29.28
	Total		21.95		390.03	369.12
	Loan		0		0	0
	Grant		19.76		351.03	332.21
	PI's contri.		2.2		39	36.91
Training & Capacity Development						
1	Awareness Program on Clean Milk Production	2400	5.49	15000	36.6	31.11
	Other line items		97.43		97.43	0
	Total		102.92		134.03	31.11
	Loan		0		0	0
	Grant		102.92		134.03	31.11
	PI's contri.		0		0	0
Total Project Outlay						
	Total		9070.95		9103.5	32.59
	Loan		7152.62		7106.7	-45.90
	Grant		1246.31		1240.5	-5.86
	PI's contri.		672.03		756.32	84.29

**Component/activity wise details of recommended cost along with funding pattern
under Revised National Programme for Dairy Development**

1. Milk Procurement-Setting up of Dairy Cooperative Societies

Funding pattern: 50:50 Grant & Pols contribution in general area and 75:25 Grant & Pols contribution in North-Eastern Region (NER), Hilly Area & Union Territories (UT)

No.	Activity/ Particular	Total Cost (in Rs.)
1.1	Milk Testing Equipment	86,000
1.2	Milk Collection accessories	38,370
1.3	Glassware & Chemicals	7,480
1.4	Furniture and Fixtures	15,650
1.5	Stationary	2,500
1.6	Administrative expenses	36,000
	Total	1,86,000

Details of equipment-wise tentative cost for setting up of new DCS:

No.	Activity/ Particular	Physical (nos.)	Unit cost (in Rs.)	Total Cost (in Rs.)
1.1	Milk Testing Equipment			86000
1.1.1	Milk Analyser with EWS	1	55000	55000
1.1.2	Electric Gerber Centrifuge	1	10000	10000
1.1.3	Hot Air Oven	1	15500	15500
1.1.4	Adulteration Test Kit	1	5500	5500
1.2	Milk Collection accessories			38370
1.2.1	Milk Can 40 litres (SS)	5	5500	27500
1.2.2	Milk Collection Tray, made 1.2mm thick SS 304, size 440x 590x65mm, Minimum weight -4200gm.	1	3000	3000
1.2.3	Milk Sampler, Made from 1.2mm thick SS 304. Minimum weight -90gm	1	100	100
1.2.4	Funnel with Strainer, made from 1.2mm thick SS 304. Minimum weight -1600gm	1	2000	2000
1.2.5	Strainer Sieve for Funnel, Material SS 304	1	150	150
1.2.6	Measure 100 ML, Made from 1.25mm thick SS 304. Minimum weight 125gm	1	3000	3000
1.2.7	Milk Can Plunger, made from SS 304. Minimum weight-650gm	1	500	500
1.2.8	Milk Bucket, made from SS 200 series, seamless with bottom ring, 15 litre capacity. Minimum weight -1600 gm	2	1000	2000
1.2.9	Plastic hammer for can opening	1	120	120
1.3	Glassware & Chemicals			7480
1.3.1	Milk Butyrometer	4	100	400
1.3.2	Lactometer	2	200	400

No.	Activity/ Particular	Physical (nos.)	Unit cost (in Rs.)	Total Cost (in Rs.)
1.3.3	Thermometer (Alcohol), 0 to 100 ^o C, yellow back, accuracy 100%	2	100	200
1.3.4	Graduated pipettes 10.75 ml	5	70	350
1.3.5	Milk Pipette 7.5 ml	5	70	350
1.3.6	Test tubes 18 X 150 mm	10	20	200
1.3.7	Glass Beakers, 100 ml	2	55	110
1.3.8	Glass Beakers, 500 ml	2	165	330
1.3.9	Porcelain dish, 3 Inch	2	60	120
1.3.10	Sprit lamp, Stainless Steel, 100 ml.	2	60	120
1.3.11	Plastic sample bottles, 50 ml, with cap, made from food grade plastic, Minimum weight-5.5 gm	60	6	360
1.3.12	Plastic tray for holding 24 Nos. sample bottles securely, made from food grade plastic, minimum weight 300 gm + 10 gm	3	160	480
1.3.13	Tray for reagents, Size 16x12 Inches, made from food grade plastic	2	70	140
1.3.14	Plastic tilt measure 1ml for alcohol with rubber cork & with plastic bottle of 250 ml.	2	10	20
1.3.15	Plastic tilt measure 10 ml for acid with rubber cork & with plastic bottle of 500 ml	2	10	20
1.3.16	Test Tube Stand for 12 tubes of size 18X150mm, Aluminium	1	120	120
1.3.17	Nylon Brush for cleaning pipettes, nylon length 4 Inches, total length 12 Inches	5	6	30
1.3.18	Nylon Brush for cleaning 50 ml milk sample bottles, nylon length 4" with tail & thick steel wire	5	6	30
1.3.19	Heater	1	700	700
1.3.20	Acid (20 Kg) and Alcohol (2 litres)	1	3000	3000
1.4	Furniture and Fixtures			15650
1.4.1	Furniture 1 Set (2- chair, 1- table, 1 Almirah & DCS board)	1	15000	15000
1.4.2	Calculator	1	650	650
1.5	Stationary			2500
1.5.1	Stationery 1 Set (Purchase register, Bhugtan register, Anudan, Prastav, Passbook (40), Demand Pad Rasid book)	1	2500	2500
1.6	Administrative expenses			
1.6.1	Stipend to DCS secretary for first year	1	3000	36000
		Total		1,86,000

2. Milk Chilling Infrastructure- Support for Bulk Milk Cooler installation

Funding pattern: 50:50 Grant & Pols contribution in general area and 75:25 Grant & Pols contribution in North-Eastern Region (NER), Hilly Area & Union Territories (UT)

Activities supported with tentative costs

(Rs in lakh)

S. No.	Activity		Unit Cost	
2.0	Milk Chilling facilities (at village/block/district level)			
2.1	Capital Expenditure			
2.1.1	Civil works for bulk milk coolers		(Flooring and Drainage)	Complete building (State Govt./ Implementing agency owned land)
2.1.1.1	0.5 KL	(5 m X 5m X 3m)	1.50	15.00
2.1.1.2	1 KL	(5 m X 5m X 3m)	1.50	15.00
2.1.1.3	2 KL	(9 m X 7m X 3m)	3.50	37.00
2.1.1.4	3 KL	(9 m X 7m X 3m)	3.50	37.00
2.1.1.5	5 KL	(9 m X 7m X 5m)	3.50	39.00
2.1.1.6	10 KL	(12 m X 7m X 5m)	5.00	50.00
2.1.2	Equipment for bulk milk coolers including with Diesel Generation Set, Main Control panel with Servo Voltage Stabilize, SS [Pipes and Fittings], Balance tank with SS Strainer. Milk Pump			
2.1.2.1	BMC-0.5 KL			7.50
2.1.2.2	BMC -1 KL			8.50
2.1.2.3	BMC -2 KL			10.50
2.1.2.4	BMC -3 KL			13.50
2.1.2.5	BMC -5 KL			17.50
2.1.2.6	BMC-10 KL			26.80
2.1.3	Solar Photovoltaic System (SPV) and Thermal Storage System (TSS)			
	BMC Capacity	SPV Capacity		
2.1.3.1	0.5 KL	1 KW		0.80
2.1.3.2	1 KL	1 KW		0.80
2.1.3.3	2 KL	2 KW		1.60
2.1.3.4	3 KL	5 KW		4.00
2.1.3.5	5 KL	7 KW		5.60
2.1.3.6	10 KL	15 KW		12.00
2.1.4	Instant Milk Chillers (for Hilly & NER States)			
2.1.4.1	160 LPD			2.50
2.1.4.2	500 LPD			4.00

S. No.	Activity	Unit Cost
2.1.5	Mobile Bulk Milk Coolers with testing and Cooling System	16.00
2.1.6	Containerized Bulk Milk Coolers 4 KL (2 KL+2 KL) with accessories, Can scrubber & AMCU with Milk Analyser	42.00
2.1.7	Other Equipment/Items	
2.1.7.1	Rooftop Solar Water Heater	0.70
2.1.7.2	Heat Recovery unit	0.80
2.1.7.3	Data Logger	1.00
2.1.7.4	Can Scrubber (BMC of 5 KL and above)	1.00
2.1.7.5	Jet Washer Pump	1.00
2.1.8	Items/Equipment for refurbishments (for BMC installed under NPDD scheme)	
2.1.8.1	DG Set (15 KV)	6.70
2.1.8.2	DG Set (25 KV)	8.70
2.1.8.3	Compressors (5KL,3KL,2KL,1KL & 0.5 KL)	0.60, 0.50, 0.4, 0.3, 0.25
2.1.8.4	BMC Scroll Compressor with condensing unit	1.50
2.1.8.5	Milk Pump 1HP	0.50
2.1.8.6	Milk Pump 1.5 HP	0.60
2.1.8.7	Milk Pump 3 HP	0.90
2.1.8.9	BMC Silo (5 KL)	8.00
2.1.8.10	Milk Flow Meter	5.00
2.1.8.11	Variable Frequency Drive	2.00
2.1.8.12	Auto CIP system	2.50
2.1.8.13	Condenser coil	0.70
2.1.8.14	Agitator with motor	0.25
Space requirement		For TSS & IMC – Covered Floor space 3.5 m X 3 m For SPV – Roof top or Ground mount – 80 sq.m (unshaded)

Note- Civil work cost for BMC building should be as per prevailing DSR and excluding labour cost (to be dovetailed from MGNREGA).

3. Milk Processing and Value Addition

Eligible Entities: For Milk Unions/ Federations of NER, Hilly Area & UTs

Funding pattern: 75:25 Grant & Pols contribution

SUMMARY OF COST ESTIMATES

"A" LEVEL SUMMARY

3.1 - 10 TLPD Milk Processing unit and VAP manufacturing plant

PROJECT: 10 TLPD LMP & VAP PLANT		
SL. NO.	DESCRIPTION	AMOUNT
		IN RS. LAKH
1	CIVIL WORKS (INDUSTRIAL, NON-INDUSTRIAL & ETP)	699
2	PROCESSING & PRODUCTION EQUIPMENT	418
3	SERVICE EQUIPMENT	472
4	MISCELLANEOUS EQUIPMENT	15
5	ERECTION	95
	TOTAL PROJECT COST (Rs lakhs)	1698
	Rs.	17 Crore

3.2 - 20 TLPD Milk Processing unit and VAP manufacturing plant

PROJECT: 20 TLPD LMP & VAP PLANT		
SL. NO.	DESCRIPTION	AMOUNT
		IN RS. LAKH
1	CIVIL WORKS	699
2	PROCESSING & PRODUCTION EQUIPMENT	595
3	SERVICE EQUIPMENT	730
4	MISCELLANEOUS EQUIPMENT	67
5	ERECTION	146
	TOTAL PROJECT COST (Rs lakhs)	2237
	Rs.	22.40 Crore

3.3 - 50 TLPD TLPD Milk Processing unit and VAP manufacturing plant

PROJECT: 50 TLPD LMP & VAP PLANT		
SL. NO.	DESCRIPTION	AMOUNT
		IN RS. LAKH
1	CIVIL WORKS	1586
2	PROCESSING & PRODUCTION EQUIPMENT	1021
3	SERVICE EQUIPMENT	1076
4	MISCELLANEOUS EQUIPMENT	158
5	ERECTION	237
	TOTAL PROJECT COST (Rs lakhs)	4078
	Rs.	41 Crore

3.4 - 1 LLPD Milk Processing unit and VAP manufacturing plant

PROJECT: 1 LLPD LMP & VAP PLANT		
SL. NO.	DESCRIPTION	AMOUNT
		IN RS. LAKH
1	CIVIL WORKS	2525
2	PROCESSING & PRODUCTION EQUIPMENT	1732
3	SERVICE EQUIPMENT	1475
4	MISCELLANEOUS EQUIPMENT	249
5	ERECTION	188
	TOTAL PROJECT COST (Rs lakhs)	6169
	Rs.	62 Crore

Details of equipment-wise tentative cost of 10 TLLPD, 20 TLPD, 50 TLPD and 1 LLPD processing units is **Appendix-I to Appendix –IV**

4. Construction/ Establishment of Milk and Milk Product Testing Laboratories

Funding pattern: 50:50 Grant & Pols contribution in general area and 70:30 Grant & Pols contribution in North-Eastern Region (NER), Hilly Area & Union Territories (UT)

Activities supported with tentative costs:

DCS/ village level laboratories at BMC centres:

S. No.	Activity	Unit Cost (Rs. in lakh)
4	Construction/Establishment of Milk and Milk Product Testing Laboratories	
4.1	Capital Expenditure	
4.1.1	DCS/village level laboratories/ at Bulk Milk Cooler (BMC) centres	
4.1.1.1	Data Processing and Milk Collection Units with Milk Analyser (Ultrasonic based), weighing machine, display unit	1.00
4.1.1.2	Automatic Milk Collection Unit with Milk Analyser (Ultrasonic based), weighing machine, display unit, monitor, CPU, UPS	1.50
4.1.1.3	Cloud based Milk Analyser- Ultrasonic based	0.50
4.1.1.4	Milk analyser- Ultrasonic based	0.40
4.1.1.5	Automatic Electronic Milko-tester for fat (%) measurement	0.35
4.1.1.5	Electronic Milk Adulteration Testing Machine (Ultrasonic technology coupled with ion detection) for DCS having milk procurement 200 L to 500 L	2.50
4.1.1.6	Electronic Milk Adulteration Testing Machine (FTIR/MIR technology)- DCS having milk procurement 500 L & above	4.50
4.1.1.7	Purchase of laboratory furniture	0.50
4.1.1.8	Other miscellaneous equipment (at BMC level)	
4.1.1.8.1	Somatic Cell Counter	5.00
4.1.1.8.2	Antibiotic Testing Kit (96 Tests)	0.85
4.1.1.8.3	Aflatoxin M1 testing Kit (96 tests)	0.95
4.1.1.8.4	Digital Water Bath	0.30
4.1.1.8.5	Digital BR Meter	0.45
4.1.1.8.6	Adulteration Kit (DCS/BMC level)	0.055
4.1.1.8.7	Digital MBRT Machine	1.10
4.1.1.8.8	Electrical Centrifuge Machine	0.50
4.1.1.8.9	Glassware & Chemicals	0.25
4.1.1.8.10	Hot Plate	0.10
4.1.1.8.11	Electronic Weighing balance	0.50
4.1.1.8.12	Refrigerator	0.40
4.1.1.8.13	Personal Protective Equipment (PPE) gears	0.02
4.1.1.8.14	Glass based water distillation unit	0.40

4.1.2-Dairy Plant Level/ State Level laboratories:

S. No.	Activity	Unit Cost (Rs. in lakh)
4.1.2	District/Union level Milk and Milk Product Testing laboratory	
4.1.2.1	Civil Work (including electrical and interiors) (@Rs.800/Sq m)	200.00
4.1.2.2	Purchase of laboratory equipment (for chemical/ microbial (only for union/state level) analysis of milk and milk products)	Major Equipment details are attached at Appendix-V
4.1.2.3	Purchase of laboratory furniture	15.00

5. Certification and Accreditation

Funding pattern: 50:50 Grant & Pols contribution in general area and 70:30 Grant & Pols contribution in North-Eastern Region (NER), Hilly Area & Union Territories (UT)

Activities supported with tentative costs

Sr. No.	Component/Activities	Cost (Rs. in lakh)
5.0	Certification and Accreditation	
5.1	Recurring Expenditure	
5.1.1	Accreditation and Certification-Dairy Establishments under HACCP/ ISO/Export/NABL	
5.1.1.1	ISO certification of primary DCS – ISO 9001	1.50
5.1.1.2	ISO certification of primary DCS – ISO 22000	1.50
5.1.1.3	ISO certification of primary DCS – ISO 9001 & ISO 22000	1.50
5.1.1.4	ISO certification of BMC's - ISO 9001	1.50
5.1.1.5	ISO certification of BMC's - ISO 22000	1.50
5.1.1.6	ISO certification of BMC's - ISO 9001 & ISO 22000	2.00
5.1.1.7	Certification of Milk Chilling Plants against ISO 22000 / FSSC 22000	1.00
5.1.1.8	Certification of Dairies against ISO 22000 /FSSC 22000-First Certification (3years)	10.00
5.1.1.9	Quality Assessment System – Quality Mark and/or CAS MMP	3.00
5.1.1.10	ISO 14001 Certification for Dairies (3years) (Environmental management)	10.00
5.1.1.11	ISO 45001 Certification for Dairies (3years) (Occupational health and safety (OH&S) management systems)	10.00
5.1.1.12	Renewal of certification: ISO 9001 /ISO 22000 /ISO 14001/ISO 50001 /ISO45001 and IMS	2.50
5.1.1.13	Export Approval of Dairies by Export Inspection Agency (EIA)	1.50
5.1.1.14	NABL accreditation to Milk Unions/State Level Milk & Milk Product Testing Laboratory (ISO/ IEC 17025)	5.00

6. Training & Capacity Building

Funding pattern: 100% Grant to Pol

S. No.	Activity		No. of days	Unit Cost per day per head (in Rs)*
1	Farmer Induction Programme including Training of farmers in good hygienic practices/ good manufacturing practices	Old Farmers	1	1,000
		New Farmers	2	1000
2	Training of Dairy Personnel/ milk tester (including Plant and Marketing staff)		3	1,500
3	Training on Quality management systems for Dairy/ Quality Personnel		3	1,500
4	Training of DCS staff/ BMC/ chilling centre/ AMCU/ DPMCU on operations and quality management		3	1,500
5	Training of Management Committee Members & Board of Directors of New/Revived Dairy Cooperatives/MPCs on society operations		3	3,000

*Excluding travelling cost which the State may bear

7. Research and Development

Funding pattern: 35% Grant to Pol subject to a maximum of Rs. 1 Crore.

Indicative list of activities under the component is as follows: -

Sr. No.	Component/Activity	Tentative Cost/Unit (Rs. in lakh)
7.0	Research and Development	
7.1	Supporting Startups in Dairy Processing	1.50
7.2	Supporting Innovations in Dairy Sector	1.50
7.3	New Product Development	2.00
7.4	Cost Effective Processing	5.00
7.5	Traceability System Development	1.50
7.6	Product Shelf-life Study	1.50
7.7	Any other activity with the recommendation of TC and approval of PSC	---

Research and Development (R&D) proposals submitted by States under the scheme shall be initially scrutinized by a Technical Committee (TC). TC shall evaluate the proposals based on their scientific merit, relevance to the objectives of NPDD, feasibility, and expected impact on the dairy sector

8. Establishment of Milk Producer Company

Funding pattern: 35% Grant to Pol subject to a maximum of Rs. 15 Crore

Activities supported with tentative costs (lump sum/MPC establishment):

Sr. No.	Component	Amount* (Rs. in lakh)
8.0	Establishment of Milk Producer Company	
8.1	Infrastructure Cost	
8.1.1	Village level Milk Testing Equipment	225
8.1.2	Milk Pooling Points (MPPs) Accessories/Furniture	25
8.1.3	Milk Cans	90
8.1.4	Bulk Milk Coolers (BMCs) and BMC Accessories - (2KL/5KL)	300
8.1.5	BMC Lab Setup - (5KL/2KL)	200
8.1.6	Milk Adulteration Scanner & Quality Analyser	60
8.1.7	Head Office/Cluster Office Setup	30
8.1.8	ICT Capex	200
8.2	Cost towards Strengthening	
8.2.1	ICT Opex	15
8.2.2	Sahayak Stipend	25
8.2.3	Training & Capacity Building and Governance	35
8.2.4	Inst. Building, Procurement, Quality (Field Personnel Cost)	210
8.2.5	Administrative Expenses	65
8.2.6	Milk Transportation Cost	150
8.3	Any other equipment with approval of PSC	

* Max permissible GOI Share; Unit cost of activities/sub-activities within the above approved component will be as per cost norms

1. Planning and Monitoring

Funding pattern: 100% Grant to Pol subject to a maximum of 2% (maximum).

Activities supported with tentative costs:

Sr. No.	Component/Activity	Tentative Cost (Rs. in lakh)
9.0	Planning and Monitoring	
9.1	Recurring Expenditure	
9.1.1	Pre-project Baseline survey (by independent agency) and preparation of project report	2.00/district (Max 5.00 lakh per project)
9.1.2	Concurrent evaluation and in-depth independent evaluation of the project and post-project impact assessment survey (including success stories, outcomes etc.)	3.00/district (Max 10.00 lakh per project)
9.1.3	Field level inspections, review meetings, seminars etc.	Rs.0.10 lakh/review meetings/seminar etc.

Appendix-I

PROJECT : 10 TLPD LMP & VAP PLANT			
ENGINEERING COST ESTIMATE - CIVIL			
DESCRIPTION	QTY	UNIT	AMOUNT Rs LAKHS
CIVIL WORKS			
LAND AND DEVELOPMENT			20.00
Land development, landscaping, Soil investigation & Contour survey	1	LS	
INDUSTRIAL BUILDING			464.00
Milk & VAP Production Block	800	Sqmt	
Service block (As per equipment requirements)	400	Sqmt	
Misc Industrial buildings: Fuel yard, Transformer yard, foundation of milk silos, ammonia and air compressors, ice silos, boilers and chimney, structural pipe bridge etc.	1	LS	
NON-INDUSTRIAL BUILDINGS			7.80
Toilet block	20	Sqmt	
BUILDING FURNISHINGS			
OFFICE FURNISHINGS AND EQUIPMENT			5.00
Lab furniture	1	LS	
EFFLUENT TREATMENT PLANT			
EFFLUENT TREATMENT PLANT			75.00
ETP of Capacity	1	LS	
ROAD AND PAVEMENTS			
ROAD AND PAVEMENTS			9.80
Concrete roads /Park	280	Sqmt	
INTERNAL ELECTRIFICATION			27.86
Electrification Contract, Lighting fixture & fans	1	LS	
WATER SUPPLY AND DRAINAGE			
WATER SUPPLY AND DRAINAGE			33.03
HDPE water tanks - 5/10 KL	2	Nos.	
Internal & External water supply lines @ 1%	1	LS	
Storm water drainage @ 1%	1	LS	
Bore well	1	NO	
Internal & External sanitary line	1	LS	
CONSULTANTS SERVICE FEES			
Architects & structural consultants fees @ 3% of civil works	1	LS	22.74
CIVIL CONTINGENCIES			
Civil contingencies @ 5 %	1		33.26
TOTAL			698.50

Appendix-I
(Contd....)

PROJECT: 10 TLPD LMP & VAP PLANT				
ENGG. COST ESTIMATE MECHANICAL & ELECTRICALS				
DESCRIPTION	CAPACITY	QTY	UOM	Total Price in Lakh Rs
PROCESS AND PRODUCTION EQUIPMENT				
RECEPTION EQUIPMENT				
CAN & TANKER RECEPTION EQUIPMENT				34.60
Can conveyor	Suitable	1	Set	
Milk weigh bowl with electronic weigh machine	500 L	1	No.	
Dump tank	1000 L	1	No.	
PIP strainer duplex type	5 KLPH	1	No.	
Milk transfer pump	5 KLPH	1	No.	
Can milk reception chiller	5 KLPH	1	No.	
Can drip saver-SS-2 meter	Suitable	1	No.	
Can trolley	Suitable	3	No.	
Can scrubber	425 L	1	No.	
Washing trough	300 L	1	No.	
Tanker milk unloading hose	Suitable	1	No.	
Tanker milk unloading pump	5 KLPH	1	No.	
Tanker milk reception chiller	5 KLPH	1	No.	
Raw Milk Storage cum recon tanks	5 KL	1	No.	
Venturi	Suitable	1	No.	
CIP Return Pump (Milk tanks)	Suitable	1	No.	
LIQUID MILK PROCESSING EQUIPMENT				92.25
Milk transfer pump (Raw milk tank, MPL)	5 KLPH	1	No.	
Milk pasteuriser with all accessories - milk & curd milk	5 KLPH	1	No.	
Separator - Tripurpose Centrifuge (with Manual Standardization) with Hoist Arrangement	5 KLPH	1	No.	
Pasteurised Milk Storage Tanks	3 KL	2	No.	
Milk transfer pump (PMST, HMST)	5 KLPH	1	No.	
Milk re-chiller	5 KLPH	1	No.	
CIP Return Pump (Milk tanks)	Suitable	1	No.	
LIQUID MILK FILLING EQUIPMENT				54.00
HMST	3 KL	2	No.	
Milk dispatch pump	5 KLPH	1	No.	
Pouch Filling Machine	5000 PPH	1	No.	
Jaw cooling system	Suitable	1	Set	

Crate washer	Suitable	1	Set	
CIP Return Pump (Pouch Packing Machines & HMST)	Suitable	2	Nos.	
Cream Section				36.75
Cream balance tank	500 L	1	No.	
Cream transfer pump	500 LPH	2	No.	
Cream & water pasteuriser	500 LPH	1	No.	
Past. cream storage tank	1 KL	1	No.	
Past. cream transfer pump	2 KLPH	1	No.	
Ghee Boiler	500 L	1	No.	
Ghee storage tank	1 KL	1	No.	
Weigh scale for butter & ghee	Suitable	1	Set	
CURD/BM PROCESSING & PACKING				39.25
Past. curd milk storage tank/curd setting cum BM prep. tank	1000 L	2	No.	
BM re-circulation pump cum transfer pump	2000 LPH	1	No.	
BM shear pump	2000 LPH	1	No.	
BM chiller	2000 LPH	1	No.	
BM balance tank	500 L	1	No.	
Curd milk transfer pump	1 KLPH	1	No.	
Curd milk heater	1 KLPH	1	No.	
Inoculation tanks	500 L	2	No.	
Curd/BM pouch packing machine	Suitable	1	No.	
Weigh scale	Suitable	1	No.	
Incubation room heater	Suitable	1	Set	
CLEANING IN PLACE EQUIPMENT				36.00
BULK CHEMICAL STORAGE FACILITY				
Acid carbouys unloading tank	500 L	1	No.	
Lye flakes dissolving tank with agitator	2 KL	1	No.	
Acid Transfer pump	Suitable	1	No.	
Lye Transfer pump	Suitable	1	No.	
CIP - 2 Circuits				
Lye tank	3 KL	1	No.	
Acid buffet header	Suitable	1	No.	
Hot water tank	3 KL	1	No.	
Recirculation pump for lye solution tank	Suitable	1	No.	
CIP heaters	5 KLPH	1	No.	
CIP heaters	10 KLPH	1	Nos.	
CIP forward pumps	5 KLPH	1	No.	
CIP forward pumps	10 KLPH	1	Nos.	

Duplex Inline Filters	5 KLPH	1	No.	
Duplex Inline Filters	10 KLPH	1	Nos.	
Tanker CIP supply hose	Suitable	1	Set	
Tanker dummy manway	Suitable	2	Nos.	
Tanker CIP return pump	Suitable	1	Nos.	
MILK PIPING AND FITTINGS				
SS Pipes, Valves, fittings, SS supports etc.	-	1	lot	75.00
CONTROL & INSTRUMENTS, AUTOMATION				30.00
Controls & Instrumentation	-	1	Lot	
TOTAL				397.85
PROCESS AND PRODUCTION CONTINGENCIES				
Process and Production contingencies @ 5%				19.89
TOTAL FOR PROCESS & PRODUCTION EQUIPMENT				417.74
SERVICE EQUIPMENT				
REFRIGERATION SYSTEM				113.05
Chilled water generation Unit with IBT	Suitable	1	Lot	
Chilled water piping/drain, valves & fittings for process including insulation	Suitable	1	Lot	
Insulation for cold store, Incubation Room & blast rooms with accessories i.e. Doors, PVC Strip curtains etc.	Suitable	1	Lot	
STEAM GENERATION & DISTRIBUTION SYSTEM				85.00
Steam generation & distribution system	500 kg/hr x 1 No.	1	Set	
Boiler Shed PEB	Suitable	1	Set	
PRS, LP steam & Condensate piping, insulation etc.	Suitable	1	Set	
WATER HANDLING SYSTEM				
WATER SYSTEM				33.50
Raw water hydroflow system with vertical pumps (1W + 1S)	Suitable	1	Set	
Water softening plant (manually operated)	3 KLPH	1	Set	
Soft water hydroflow system with vertical pumps (1W + 1S)	Suitable	1	Set	

Raw & soft water piping, valves & fittings	-	1	Lot	
COMPRESSED AIR HANDLING SYSTEM				
AIR HANDLING SYSTEM				13.00
Air compressor	Suitable	2	Nos.	
Air Receiver with accessories	Suitable	1	No.	
Air Dryer	Suitable	2	Nos.	
Compressed air pipes & fittings	-	1	Lot	
STRUCTURAL BRIDGES/PLATFORMS				20.00
Structural platforms	-	1	Lot	
INDUSTRIAL ELECTRICAL HT & LT				185.00
Two/Four pole structure		1	No	
HT Power cables		1	Lot	
11 KV, VCB panel IG/OG type with numerical relays etc.		1	Lot	
11 KV/433 V, Transformers	Suitable	1	No.	
LT Bus duct (sandwich)		1	Lot	
Power control centre (PCC)		1	No.	
Capacitor Panels		1	Lot	
DG Set	Suitable	1	No.	
MCC's for production, CIP and boilers		1	Lot	
LT Power & control cables, Instrumentation cables		1	Lot	
RCPs, Frequency drive panel		1	Lot	
Earthing (Power & instruments/automation)		1	Lot	
Miscellaneous items				
-GI cable trays/Isolators (with Emerg. push buttons)/Rubber Mats		1	Lot	
TOTAL SERVICE EQUIPMENT				449.55
SERVICE EQUIPMENT CONTINGENCIES				
SERVICE EQUIPMENT CONTINGENCIES				
Service equipment contingencies @ 5%				22.48
TOTAL FOR SERVICE EQUIPMENT				472.03
FIRE EXTINGUISHERS				
Fire extinguishers for Packing material store, office etc.	-	1	Lot	3.00
SPARE PARTS				
Spares	-	1	Lot	10.00

MISCELLANEOUS ITEMS				1.25
Steam & Water Mixing batteries	-	5	Nos.	
TOTAL				14.25
MISCELLANEOUS EQUIPMENT CONTINGENCIES				
MISCELLANEOUS EQUIPMENT CONTINGENCIES				
Miscellaneous equipment contingencies @ 5%				0.71
TOTAL FOR MISCELLANEOUS EQUIPMENT				14.96
ERECTION				
ERECTION, TESTING AND COMMISSIONING				
Erection of LMP, utilities, Misc. items + Misc. like insurance etc @ 10 %	-	1	Job	90.47
ERECTION CONTINGENCIES				
Erection contingencies @ 5%				4.52
TOTAL FOR ERECTION				95.00

Appendix-II

PROJECT: 20 TLPD LMP & VAP PLANT			
ENGINEERING COST ESTIMATE - CIVIL			
DESCRIPTION	QTY	UNIT	AMOUNT
			Rs LAKHS
CIVIL WORKS			
LAND AND DEVELOPMENT			20.00
Land development, landscaping, Soil investigation & Contour survey	1	LS	
INDUSTRIAL BUILDING			464.00
Milk & VAP Production Block	800	Sqmt	
Service block (As per equipment requirements)	400	Sqmt	
Misc Industrial buildings: Fuel yard, Transformer yard, foundation of milk silos, ammonia and air compressors, ice silos, boilers and chimney, structural pipe bridge etc.	1	LS	
NON-INDUSTRIAL BUILDINGS			7.80
Toilet block	20	Sqmt	
BUILDING FURNISHINGS			
OFFICE FURNISHINGS AND EQUIPMENT			5.00
Lab furniture	1	LS	
EFFLUENT TREATMENT PLANT			
EFFLUENT TREATMENT PLANT			75.00
ETP of Capacity	1	LS	
ROAD AND PAVEMENTS			
ROAD AND PAVEMENTS			9.80
Concrete roads /Park	280	Sqmt	

INTERNAL ELECTRIFICATION			27.86
Electrification Contract, Lighting fixture & fans	1	LS	
WATER SUPPLY AND DRAINAGE			
WATER SUPPLY AND DRAINAGE			33.03
HDPE water tanks - 5/10 KL	2	Nos.	
Internal & External water supply lines @ 1%	1	LS	
Storm water drainage @ 1%	1	LS	
Bore well	1	NO	
Internal & External sanitary line	1	LS	
CONSULTANTS SERVICE FEES			
Architects & structural consultants fees @ 3% of civil works	1	LS	22.74
CIVIL CONTINGENCIES			
Civil contingencies @ 5 %	1		33.26
TOTAL			698.50

Appendix-II (Contd....)

PROJECT: 20 TLPD LMP & VAP PLANT				
ENGG. COST ESTIMATE - MECHANICAL & ELECTRICALS				
DESCRIPTION	CAPACITY	QTY	UOM	Total Price in Lakh Rs
PROCESS AND PRODUCTION EQUIPMENT				
RECEPTION EQUIPMENT				
CAN & TANKER RECEPTION EQUIPMENT				57.10
Can conveyor	Suitable	1	Set	
Milk weigh bowl with electronic weigh machine	500 L	1	No.	
Dump tank	1000 L	1	No.	
PIP strainer duplex type	5 KLPH	1	No.	
Milk transfer pump	5 KLPH	1	No.	
Can milk reception chiller	5 KLPH	1	No.	
Can drip saver-SS-2 meter	Suitable	1	No.	
Can trolley	Suitable	3	No.	
Can scrubber	425 L	2	No.	
Washing trough	300 L	2	No.	
Tanker milk unloading hose	Suitable	1	No.	
Tanker milk unloading pump	5 KLPH	1	No.	
Tanker milk reception chiller	5 KLPH	1	No.	
Raw Milk Storage cum recon tanks	10 KL	1	No.	
Venturi	Suitable	1	No.	
Recon milk heater cum chiller	5 KLPH	1	No.	
CIP Return Pump (Milk tanks)	Suitable	1	No.	
LIQUID MILK PROCESSING EQUIPMENT				110.25
Milk transfer pump (Raw milk tank, MPL)	5 KLPH	1	No.	
Milk pasteuriser with all accessories - milk & curd milk	5 KLPH	1	No.	
Separator - Tri purpose Centrifuge (with Manual Standardization) with Hoist Arrangement	5 KLPH	1	No.	
Pasteurised Milk Storage Tanks	5 KL	2	No.	
Milk transfer pump (PMST, HMST)	5 KLPH	1	No.	
Milk re-chiller	5 KLPH	1	No.	
CIP Return Pump (Milk tanks)	Suitable	1	No.	
LIQUID MILK FILLING EQUIPMENT				61.50
HMST	3 KL	2	No.	
Milk dispatch pump	5 KLPH	1	No.	

Pouch Filling Machine	5000 PPH	1	No.	
Jaw cooling system	Suitable	1	Set	
Leaky pouch collection system	Suitable	1	Set	
Crate washer	Suitable	1	Set	
CIP Return Pump (Pouch Packing Machines & HMST)	Suitable	2	Nos.	
Cream Section				57.75
Cream balance tank	500 L	1	No.	
Cream transfer pump	500 LPH	2	No.	
Cream & water pasteuriser	500 LPH	1	No.	
Past. cream storage tank	1 KL	1	No.	
Past. cream transfer pump	2 KLPH	1	No.	
Ghee Boiler	500 L	1	No.	
Ghee storage tank	1 KL	1	No.	
Ghee Pouch filling machine	Suitable	1	No.	
Ghee leaky pouch collection system	Suitable	1	Set	
Weigh scale for butter & ghee, Printer for Butter	Suitable	1	Set	
CURD/BM PROCESSING & PACKING				57.00
Past. curd milk storage tank/curd setting cum BM prep. tank	3000 L	2	No.	
BM re-circulation pump cum transfer pump	3000 LPH	1	No.	
BM shear pump	3000 LPH	1	No.	
BM chiller	3000 LPH	1	No.	
BM balance tank	500 L	1	No.	
Curd milk transfer pump	1 KLPH	1	No.	
Curd milk heater	1 KLPH	1	No.	
Inoculation tanks	500 L	2	No.	
Curd/BM pouch packing machine	Suitable	1	No.	
Weigh scale	Suitable	1	No.	
Incubation room heater	Suitable	1	Set	
CLEANING IN PLACE EQUIPMENT				38.25
BULK CHEMICAL STORAGE FACILITY				
Acid carbouys unloading tank	500 L	1	No.	
Lye flakes dissolving tank with agitator	2 KL	1	No.	
Acid Transfer pump	Suitable	1	No.	
Lye Transfer pump	Suitable	1	No.	
CIP - 2 Circuits				
Lye tank	3 KL	1	No.	
Acid Buffer header	Suitable	1	No.	
Hot water tank	3 KL	1	No.	

Recirculation pump for lye solution tank	Suitable	1	No.	
CIP heaters	5 KLPH	1	No.	
CIP heaters	10 KLPH	1	Nos.	
CIP forward pumps	5 KLPH	1	No.	
CIP forward pumps	10 KLPH	1	Nos.	
Duplex Inline Filters	5 KLPH	1	No.	
Duplex Inline Filters	10 KLPH	1	Nos.	
Tanker CIP supply hose	Suitable	1	Set	
Tanker dummy manway	Suitable	2	Nos.	
Tanker CIP return pump	Suitable	1	Nos.	
MILK PIPING AND FITTINGS				
SS Pipes, Valves, fittings, SS supports etc.	-	1	lot	125.00
CONTROL & INSTRUMENTS, AUTOMATION				60.00
Controls & Instrumentation	-	1	Lot	
TOTAL				566.85
PROCESS AND PRODUCTION CONTINGENCIES				
PROCESS AND PRODUCTION CONTINGENCIES				
Process and Production contingencies @ 5%				28.34
TOTAL FOR PROCESS & PRODUCTION EQUIPMENT				595.19
SERVICE EQUIPMENT				
REFRIGERATION SYSTEM				221.00
Chilled water generation Unit with IBT	Suitable	1	Lot	
Insulation for cold store, Incubation Room & blast rooms with accessories i.e. Doors, PVC Strip curtains etc.	Suitable	1	Lot	
Chilled water piping/drain, valves & fittings for process including insulation	-	1	Lot	
STEAM GENERATION & DISTRIBUTION SYSTEM				141.90
Steam generation & distribution system	800 kg/hr x 1 No.	1	Set	
Boiler shed PEB	Suitable	1	Set	
PRS, LP steam & Condensate piping, insulation etc.	Suitable	1	Set	

WATER HANDLING SYSTEM				
WATER SYSTEM				45.16
Raw water hydroflow system with vertical pumps (1W + 1S)	Suitable	1	Set	
Water softening plant (manually operated)	5 KLPH	1	Set	
Soft water hydroflow system with vertical pumps (1W + 1S)	Suitable	1	Set	
Raw & soft water piping, valves & fittings	-	1	Lot	
COMPRESSED AIR HANDLING SYSTEM				
AIR HANDLING SYSTEM				17.00
VFD driven Air compressor with after cooler & automatic moisture separator	Suitable	2	Nos.	
Air Receiver with accessories	Suitable	1	No.	
Air Dryer-Refrigerated type	Suitable	2	Nos.	
Compressed air pipes & fittings	-	1	Lot	
STRUCTURAL BRIDGES/PLATFORMS				30.00
SS structural platforms in tanker bays/CIP tanks/curd equipment/silos spiral ladders, pouch filling machines, cross over bridge for crate conveyors etc.	-	1	Lot	
GI structural platforms in pipe bridge, outdoor supports etc.	-	1	Lot	
INDUSTRIAL ELECTRICAL HT & LT				240.00
Two/Four pole structure		1	No	
HT Power cables		1	Lot	
11 KV, VCB panel IG/OG type with numerical relays etc.		1	Lot	
11 KV/433 V, transformers	Suitable	1	No.	
LT Bus duct (sandwich)		1	Lot	
Power control centre (PCC)		1	No.	
Capacitor Panels		1	Lot	
DG Set with AMF Panel	Suitable	1	No.	
MCC's for production & CIP		1	Lot	
LT Power & control cables, Instrumentation cables		1	Lot	
RCPs, Frequency drive panel		1	Lot	
Earthing (Power & instruments/automation)		1	Lot	
Miscellaneous items				
- GI & SS cable trays		1	Lot	
- Isolators (with Emergency push buttons)		1	Lot	
- Rubber Mats		1	Lot	
- SS Conduits		1	Lot	

TOTAL SERVICE EQUIPMENT				695.06
SERVICE EQUIPMENT CONTINGENCIES				
SERVICE EQUIPMENT CONTINGENCIES				
Service equipment contingencies @ 5%				34.75
TOTAL FOR SERVICE EQUIPMENT				729.81
MISCELLANEOUS EQUIPMENT				
LABORATORY EQUIPMENT				30.00
Laboratory equipment		1	Lot	
FIRE EXTINGUISHERS				
Fire extinguishers for Packing material store, office etc.	-	1	Lot	3.00
SPARE PARTS				
Spares	-	1	Lot	20.00
MISCELLANEOUS ITEMS				11.25
Steam & Water Mixing batteries	-	5	Nos.	
Misc items	-	1	lot	
TOTAL				64.25
MISCELLANEOUS EQUIPMENT CONTINGENCIES				
MISCELLANEOUS EQUIPMENT CONTINGENCIES				
Miscellaneous equipment contingencies @ 5%				3.21
TOTAL FOR MISCELLANEOUS EQUIPMENT				67.46
ERECTION				
ERECTION				
ERECTION, TESTING AND COMMISSIONING				
Erection of LMP, utilities, Misc. items + Misc. like insurance etc @ 10 %	-	1	Job	139.25
TOTAL				
ERECTION CONTINGENCIES				
ERECTION CONTINGENCIES				
Erection contingencies @ 5%				6.96
TOTAL FOR ERECTION				146.21

PROJECT: 50 TLPD LMP & VAP PLANT				
ENGINEERING COST ESTIMATE - CIVIL				
	DESCRIPTION	QTY	UNIT	AMOUNT
				Rs LAKHS
	CIVIL WORKS			
	LAND AND DEVELOPMENT			
	LAND AND DEVELOPMENT			105
	Borewells (2 Nos.)	LS		
	Land development, landscaping, Soil investigation & Contour survey (8 Acres)	LS		
	INDUSTRIAL BUILDING			
	INDUSTRIAL BUILDING			879
	Production Block with Milk Reception, Products, Cold Stores etc.	1500	Sqmt	
	Service Block- Refrigeration, Boiler, Substation , workshop etc.	700	Sqmt	
	Foundation of Milk Silos, Refrigeration equipment ,air compressors, Boilers & Chimneys, DG set , Transformer, Structural Pipe Bridges, etc.	1	LS	
	Scrap Yard	1	LS	
	Weigh bridge cabin	1	LS	
	NON INDUSTRIAL BUILDINGS			
	NON INDUSTRIAL BUILDINGS			23.5
	Toilet Block	30	Sq M	
	Security complex with Gate	1	LS	
	ROAD AND PAVEMENTS			
	ROAD AND PAVEMENTS			
	Concrete roads /Hard Park	1000	Sq mt	35
	ELECTRIFICATION			

	INTERNAL ELECTRIFICATION			72
	Electrification Contract	1	LS	
	Lighting Fixtures and Fans & ACs	1	LS	
	WATER SUPPLY AND DRAINAGE			
	WATER SUPPLY AND DRAINAGE			52.25
	HDPE water tanks - 10 KL	8	No.	
	OH water tank	2	No.	
	External & Internal Water Supply	1	LS	
	External & Internal sanitary	1	LS	
	Rain water Recharge wells (2 Nos)	1	LS	
	Storm water drainage	1	LS	
	EFFLUENT TREATMENT PLANT	1	LS	300
	CONSULTANTS SERVICES			
	CONSULTANTS SERVICE FEES			
	Architects & structural consultants fees @ 3% of civil works value	1	LS	44
	CIVIL CONTINGENCIES			
	CIVIL CONTINGENCIES			
	Civil contingencies @ 5 %	1	LS	76
	TOTAL			1586.15

PROJECT: 50 TLPD LMP & VAP PLANT				
ENGG. COST ESTIMATE - MECHANICAL & ELECTRICALS				
DESCRIPTION	CAPACITY	QTY	UNIT	
PROCESS AND PRODUCTION				1,021
RECEPTION				96
TANKER MILK UNLOADING HOSE	Suitable	2	Nos.	
MILK PUMP, (Tanker reception)	10 KLPH	1	No.	
IN-LINE PIP STRAINER	10 KLPH	1	No.	
DEAERATION VESSEL	200 L	1	No.	
CHILLER FOR TANKER MILK	10 KLPH	1	No.	
Can conveyor (motorised)	-	1	Set	
Milk weigh bowl with electronic weigh machine	500 L	1	No.	
Dump tank	500 L	1	No.	
PIP strainer duplex type	5 KLPH	1	No.	
Milk transfer pump	5 KLPH	1	No.	
Can milk reception chiller	5 KLPH	1	No.	
Can drip saver-SS-2 meter	-	1	No.	
Can trolley	Suitable	3	No.	
Can scrubber	425 L	2	No.	
Washing trough	300 L	2	No.	
RAW MILK SILO	20 KL	2	No.	
CIP RETURN PUMP	Suitable	2	Nos.	
CHILLING & PROCESSING				235
MILK PUMP	5 KLPH	1	SET	
MILK PASTEURISER	5 KLPH	1	SET	
MILK SEPARATOR	5 KLPH	1	No.	
HOMOGENISER	5 KLPH	1	No.	
PMST SILO	20 KL	2	Nos.	
TURBO BLENDER	500 KG/HR	1	No.	
DUPLEX FILTER	5 KLPH	1	No.	
RECIRCULATION CUM TRANSFER PUMP	5 KLPH	1	No.	
RECONSTITUTION TANK	5 KL	1	SET	
WATER HEATER	5 KLPH	1	No.	
HOT WATER PUMP	5 KLPH	1	No.	
RECONSTITUTED MILK CHILLER	5 KLPH	1	No.	
MILK PUMP FROM PMST TO HMST	10 KLPH	1	No.	
HMST	5 KL	3	Nos.	
CIP RETURN PUMP	Suitable	4	Nos.	

MILK PACKING & CRATE WASHING				93
CRATE WASHER+DRYER	800 CPH	1	SET	
CRATE CONVEYING	800 CPH	1	SET	
MECH. POUCH FILLING MACHINE	5000 PPH	2	NOS.	
ELECTRONIC WEIGHING MACHINE	0-2 kg	2	NOS.	
ELECTRONIC WEIGHING MACHINE	0-100 kg	1	NO.	
BALANCE TANK FOR LEAKY POUCH	250 L	1	NO.	
PIP STRAINER SIMPLEX	5 KLPH	1	NO.	
LEAKY POUCH MILK PUMP	5 KLPH	1	NO.	
LEAKY POUCH MILK CHILLER	5 KLPH	1	NO.	
SS TABLE FOR POUCH FILLING M/C	Suitable	2	NOS.	
CRATE TROLLY	Suitable	3	NOS.	
COOLING WATER SYSTEM FOR POUCH FILLING MACHINE	Suitable	1	NO.	
BUTTER MAKING & GHEE SECTION				76
Cream balance tank	500 L	1	No.	
Cream transfer pump - Centrifugal	500 LPH	1	No.	
Cream & water pasteuriser	500 LPH	1	No.	
Past. cream storage tank	2 KL	2	No.	
Past. cream transfer pump - Lobe	2 KLPH	1	No.	
Butter churn with all accessories	1 KL	1	No.	
Butter trolley	300 kg	2	No.	
BMV with HWG system	500 L	1	No.	
Butter oil transfer pump	1 KLPH	2	No.	
Ghee Boiler	500 L	1	No.	
Ghee storage tank	1000 L	1	No.	
Ghee Jar filling machine	Suitable	0	No.	
Ghee leaky pouch collection system	Suitable	1	Set	
Weigh scale for butter & ghee, Printer for Butter	Suitable	1	Set	
CURD & BM PLANT				124
Curd milk storage/standardisation Tank	10 KL	1	NO.	
Curd Milk Transfer Pump	5 KLPH	1	NO.	
Curd Milk Pasteurizer	5 KLPH	1	NO.	
Pasteurised Curd Milk Storage Tank	10 KL	1	NO.	
Pasteurised water storage tank	10 KL	1	NO.	
Past. Curd milk transfer pump	5 KLPH	1	NO.	
Pasteurised water transfer pump	5 KLPH	1	NO.	
Curd Milk Heater	5 KLPH	1	NO.	
Curd Inoculation Tank with agitator	500 L	2	NOS.	
Curd cum BM Pouch Filling Machine	5000 PPH	1	NO.	
Curd Setting Tank	5 KL	1	NO.	
Shear pump recirculation pump	5 KLPH	1	NO.	

BM transfer pump	5 KLPH	1	NO	
BM Chiller	5 KLPH	1	NO.	
CIP				150
CIP System-3 Circuit (Automated CIP Kitchen)		1	NO.	
Conc. Acid Storage Tank	10 KL	1	NO.	
Conc. Lye storage Tank	10 KL	1	NO.	
Conc. Acid and Lye Unloading Pump.	Suitable	2	NOS.	
Conc. Acid and Lye Dosing Pump	Suitable	2	NOS.	
SS PIPES AND FITTINGS, INSTRUMENTS				200
S.S. pipes, valves & fittings		1	LOT	
Instruments		1	LOT	
PROCESS & PROD CONTINGENCIES @5%			5%	49
SERVICE EQUIPMENT				1,076
REFRIGERATION SYSTEM				350
Chilled water generation Unit with IBT	Suitable	1	Lot	
Insulation for cold store, Incubation Room & blast rooms with accessories i.e. Doors, PVC Strip curtains etc., Package Cooling Units	Suitable	1	Lot	
Chilled water piping/drain, valves & fittings for process including insulation	-	1	Lot	
STEAM GENERATION, WATER & AIR SYSTEM				400
Coal Fired Boiler	2 TPH	2	SET	
Flue gas ducting & Chimney	-	1	LOT	
Coal crusher, conveyor and feed water storage tank	-	1	LOT	
Boiler shed PEB	-	1	SET	
AIR COMPRESSOR	Suitable	2	NOS.	
REFRIGERATED AIR DRYER	Suitable	2	NOS.	
AIR RECEIVER	500 L	1	NO.	
WATER SOFTENING PLANT	Suitable	1	LOT	
WATER HYDROFLOW SYSTEM	Suitable	1	LOT	
RAW, SOFT & CHILLED WATER LINES	Suitable	1	LOT	
HP/LP STEAM & CONDENSATE LINES, PRS	Suitable	1	LOT	
COMPRESSED AIR LINE	Suitable	1	LOT	
INDUSTRIAL ELECTRICAL				275

TWO Pole STRUCTURE	Suitable	1	NO.	
HT CABLE	Suitable	1	LOT	
TRANSFORMER WITH OLTC, 400 KVA	400 KVA	1	LOT	
PCC & MCCS, LT POWER & CONTROL CABLES, EARTHING, CABLE TRAYS, RCPS ETC.	Suitable	1	LOT	
DG SET WITH ACCT ENCL & AMF, 315 KVA	315 KVA	1	NO.	
CONTINGENCIES SERVICE EQUIP.@5%			5%	51
MISCELLANEOUS EQUIPMENT				158
MISCELLANEOUS ITEMS				150
ELECTRONIC ROAD WEIGH BRIDGE	40 MT	1	NO.	
LABORATORY Furniture		1	LS	
STEAM AND WATER MIXING BATTERY		5	NOS.	
FIRE FIGHTING SYSTEM		1	SET	
MISCELLANEOUS CONTINGENCIES			5%	8
ERECTION				237
Mechanical & Electrical Erection@10%		1	JOB	225
Erection Contingencies			5%	11

PROJECT: 1 LLPD LMP & VAP PLANT			
ENGINEERING COST ESTIMATE – CIVIL			
DESCRIPTION	QTY	UNIT	AMOUNT
			Rs LAKHS
CIVIL WORKS			
LAND AND DEVELOPMENT			
LAND AND DEVELOPMENT			230
Jungle clearing & removal of defunct cattle feed plant	1	LS	
Borewells (2 Nos.)	1	LS	
External Boundry wall for plot	750	RM	
Land development, landscaping, Soil investigation & Contour survey (3 Acres)	1	LS	
INDUSTRIAL BUILDING			
INDUSTRIAL BUILDING			1286
Production Block with Milk Reception, Products, Milk Cold Store, etc.	2500	Sqmt	
Service Block- Refrigeration, Boiler, Substation, workshop etc.	800	Sqmt	
Foundation of Milk Silos, Refrigeration equipment, air compressors, Boilers & Chimneys, DG set, Transformer, Structural Pipe Bridges, etc.	1	LS	
Scrap Yard	1	LS	
Weigh bridge cabin	1	LS	
NON INDUSTRIAL BUILDINGS			
NON INDUSTRIAL BUILDINGS			34.05
Worker's Amenity	50	Sq M	
Toilet Block	15	Sq M	
Security complex with Gate	1	LS	
ROAD AND PAVEMENTS			

ROAD AND PAVEMENTS			
Roads	150 0	Sq mt	60
ELECTRIFICATION			
INTERNAL ELECTRIFICATION			140
Electrification Contract	1	LS	
Lighting Fixtures and Fans & ACs	1	LS	
WATER SUPPLY AND DRAINAGE			
WATER SUPPLY AND DRAINAGE			230
UG sump for water	200	CUM	
OH water tank (above prod. block)	30	CUM	
External & Internal Water Supply	1	LS	
External & Internal sanitary	1	LS	
EFFLUENT TREATMENT PLANT	1	LS	400
CONSULTANTS SERVICES			
CONSULTANTS SERVICE FEES			
Architects & structural consultants fees @ 3% of civil works value	1	LS	71
CIVIL CONTINGENCIES			
CIVIL CONTINGENCIES			
Civil contingencies @ 3 %	1	LS	74
TOTAL			2525.00

PROJECT: 1 LLPD LMP & VAP PLANT			
ENGINEERING COST ESTIMATE – MECHANICAL AND ELECTRICAL			
DESCRIPTION	CAPACITY	QTY	Total Price in Lakh Rs
PROCESS AND PRODUCTION EQUIPMENT			
RECEPTION EQUIPMENT			
RECEPTION EQUIPMENT INCLUDING STORAGE			110.45
Motorized Can scrubber	425 L	1	
Can Tipping Bar	Suitable	1	
Roller conveyor for milk cans	Suitable	1	
Milk Weighing Bowl (Single compartment)	500 L	1	
Electronic Weighing Machine for Weigh Bowl	250 Kg	1	
SS Dump tank	500 L	1	
Duplex inline type strainer	10 KLPH	1	
Milk Chiller (Temp Program 35-4 deg C)	10 KLPH	1	
Raw milk transfer pump	10 KLPH	1	
Sour Milk Separator	5 KLPH	1	
Sour milk Storage Tank	5 KL	1	
Raw Milk Silos	30 KL	2	
CIP Return Pump	20 KLPH	1	
Tanker hose with fittings (2 No for unloading, 2 No. for loading, 2 No for CIP and 2 No. extra)	76 & 51 mm	8	
CHILLING & PROCESSING EQUIPMENT			
CHILLING & PROCESSING EQUIPMENT FOR MILK AND CREAM			286.25
Milk transfer pump from RMST to Pasteurizer	5 KLPH	2	
Inter silo Milk Transfer/Raw Milk despatch pump	5 KLPH	1	
Milk Pasteuriser with all accessories	5 KLPH	2	
Separator - Tripurpose centrifuge (with Manual Standardization)	5 KLPH	2	
Electric hoist with mono rail structure for separators	2 Ton	1	
Homogenizer (180 Bar)	5 KLPH	2	
Pasteurised Milk Silos (PMST)	30 KL	2	
Pasteurised Milk Despatch Pump	10 KLPH	1	
Pasteurised Milk Despatch Chiller	10 KLPH	1	
Past Milk Inter Silo Transfer pump cum refeed to RMST	10 KLPH	1	
CIP Return Pump	15 KLPH	1	
Milk transfer pump to HMST	10 KLPH	1	
RECONSTITUTION EQUIPMENT			
MILK RECONSTITUTION SECTION INCLUDING POWDER STORE			48.90

Butter melting vat	1 KL	1	
Molten butter transfer pump	1 KLPH	1	
Turbo blender	500 kgs/hr	1	
Reconstitution Milk - Heating Cum Chilling Unit	5 KLPH	1	
Duplex Filters	5 KLPH	1	
Reconstitution milk tank (insulated)	5 KL	2	
CIP return pump	20 KLPH	1	
Milk Recirculation-cum-transfer Pump	5 KLPH	1	
CREAM PROCESSING AND STORAGE			87.25
Cream Balance Tank	1 KL	2	
Cream transfer pump with VFD	2 KLPH	1	
Cream Pasteuriser 8-90-8 deg C	2 KLPH	1	
Cooling tower system with pumps	Suitable	1	
Cream Storage cum ripening tank	3 KL	2	
CIP Pump parallel to feed pump of pasteurizer	5 KLPH	1	
Cream pump with VFD for transfer of cream to butter section as well as dosing to PMST silo for fat correction	3 KLPH	1	
CIP return pump	5 KLPH	1	
BUTTER MAKING SECTION			39.5
Cream Transfer Pump (1W+1S)	2 KLPH	2	
Cream Buffer Tank	1 KL	1	
CIP pump	20 KLPH	1	
Butter Churner	2 KL	1	
Past. butter wash water insulated tank	3 KL	1	
Past. butter wash water transfer pump	1 KLPH	1	
Butter Milk Storage Tank	1 KL	1	
Butter milk transfer pump	10 KLPH	1	
Butter trolleys	600 kgs	2	
GHEE MAKING & PACKING EQUIPMENT			91.5
Butter Melting Vat	1 KL	1	
Hot Water Recirculation System for Butter Melting Vat	Suitable	1	
Molten Butter Transfer Pump	2 KLPH	1	
Prestratification Tank (Manual removal of Serum)	1 KL	1	
Serum Collection Balance Tank	Suitable	1	
Ghee boiler	1KL	1	
Ghee transfer pump	1 KLPH	1	
Ghee Settling tank	1KL	1	
Ghee Clarifier	1 KLPH	1	
Fume extraction system for Ghee making section- SS ducting & hood with industrial Fan	Suitable	1	

Ghee storage cum granulation jacketed tanks	1KL	2	
Ghee Tin filler for 15 Kgs - Semi-automatic (Gravity Feed)	2-3 Tins/min	2	
SS platform weigh scale for tins	30 Kg	1	
Ghee residue with press (hydraulic)	100 L	1	
Ghee Tin Lid sealer	Suitable	2	
Ghee Tin Coder	Suitable	2	
LIQUID MILK FILLING EQUIPMENT			
POUCH FILLING SECTION INCLUDING CRATE WASHING			116.90
Crate washer with drier and conveyor	800 CPH	1	
Two tier crate conveyor with pouch collection table for individual machine and conveying of filled crates up to milk cold rooms	Suitable	1	
Pouch Filling Machines for Liquid Milk	5000 PPH	2	
Milk filling tanks (HMST)	10 KL	2	
CIP Return Pumps for HMST	15 KLPH	1	
SS table	Lot	1	
Electronic weigh scale	0 - 2 Kgs	2	
Cooling Water balance tank with float & accessories	500 Ltrs	1	
Cooling water recirculation pump (SS)	5 KLPH	1	
Cooling water PHE Chiller	5 KLPH	1	
Trolley mounted leaky pouch collection tank	50 L	4	
Leakey pouch dump tank	500 Ltrs	1	
Inline duplex Strainer	2 KLPH	1	
Leakey pouch milk PHE	2 KPLH	1	
Leakey pouch milk transfer pump	3 KLPH	1	
Trolley for handling and loading of film roll	Suitable	2	
Trolley for filled milk crate handling	Suitable	4	
RINSE MILK RECOVERY SYSTEM			20.00
SS Balance tank for rinse milk recovery	1 KL	1	
Rinse Milk transfer pump	3 KLPH	1	
Rinse Milk Chiller	3 KLPH	1	
Insulated vertical SS storage tank for rinse milk	3 KL	1	
CIP Return Pump	10 KLPH	1	
Milk transfer pump to RMST	5 KLPH	1	
CURD AND BUTTER MAKING EQUIPMENT			
FERMENTED PRODUCT SECTION			275.95
Curd Milk Storage/Standardisation Tank	15 KL	1	
Curd milk storage tank (sweet curd)	5 KL	1	
Turbo blender for sugar blending	500 Kg/Hr	1	

Recirculation cum transfer Pump	3 KLPH	1	
Curd Milk Transfer Pump	3 KLPH	1	
Curd Milk Pasteuriser with Control Panel (4-90-4 Deg C)	3 KLPH	1	
Curd Milk Homogeniser	3 KLPH	1	
Pasteurised Curd Milk Storage Tank	15 KL	1	
Pasteurised Curd Milk Transfer Pump	2 KLPH	1	
Curd Milk Heating PHE	2 KLPH	1	
Curd Inoculation Tank	500 L	3	
Curd Cup Filling Machine (gravity)	2400 CPH	1	
Printer	Suitable	1	
Curd Setting Tank	3 KL	3	
Recirculation cum Shear Pump	5 KLPH	1	
Pasteurised Water Storage Tank	5 KL	1	
Pasteurised Water Transfer Pump	5 KLPH	1	
Multipurpose Vat	500 L	1	
Press Filter with metal catcher (for sugar syrup)	Suitable	1	
Sugar Syrup Transfer Pump	1 KLPH	1	
Lassi Transfer Pump	2 KLPH	1	
Lassi thermizer	2 KLPH	1	
Lassi Storage Tank	5 KL	1	
Lassi Cup Filling Machine (piston filling)	2400 CPH	1	
Pouch Packing Machine	5000 PPH	1	
Electronic Weigh Scale	0-2Kg	1	
Leaky pouch & leftover collection system	1 KLPH	1	
CIP Return Pump	Suitable	1	
SS Table for Packing Machine	Suitable	1	
PANEER SECTION			124.9
Paneer Milk Storage Tank	3 KL	1	
Paneer Milk Heater	3 KLPH	1	
Paneer Coagulation Vat	1000 L	3	
Whey Storage Tank	3000 L	1	
Whey Transfer Pump	1 KLPH	1	
Pneumatic Press : 3 x 5 Hoops	150 Kg/Batch	3	
Paneer mould washing trough	Suitable	1	
Paneer Cooling Vat	500 L	3	
Chilled Water PHE Chiller with SS Pump	Suitable	1	
Paneer Block Cutter & Slice Cutting Machine	Suitable	1	
Vacuum Packing Machine	200 - 500 gm	2	
Paneer sterilizer (~90C) with cooling tower	250Kg/Batch	1	
Electronic Weigh Scale	2 Kg	2	
SS Tables for Paneer Hoops Filling & Packing	-	1	

Inkjet Printer for Paneer Hoops Filling & Packing	-	1	
Indigenous Sweet Making	-		
CLEANING IN PLACE EQUIPMENT			46.70
CONCENTRATE CIP CHEMICAL STORAGE			
Bulk Acid storage tank	15 KL	1	
Bulk Lye storage tank	15 KL	1	
Chemical unloading pump (for acid & lye)	10 KLPH	2	
Tanker unloading hose	51 mm	2	
Acid carbouys unloading tank	500 L	1	
Acid Dosing pump	40-500 LPH	2	
Lye Dosing pump	40-500 LPH	2	
Lye Flasks Dissolving System	500 L	1	
SS tray for bulk tanks and pumps	1 Lot	1	
PROCESS CIP - 3 Circuits (PLC Based)			79.30
Lye tank	5 KL	1	
Acid Tank	5 KL	1	
Hot water tank	5 KL	1	
Recuperation tank	8 KL	1	
Flush water tank	5 KL	1	
Acid Tank recirculation pump	5 KLPH	1	
Lye tank recirculation pump	5 KLPH	1	
Tubular Heat exchangers	20 KLPH	2	
Duplex Inline Filters	20 KLPH	2	
CIP forward pumps	20 KLPH	2	
CIP tank platform	-	1	
Tanker CIP dummy manhole	Suitable	2	
Tanker CIP return pump	Suitable	1	
FERMENTED CIP (PLC Based)			54.5
Lye tank	3 KL	1	
Acid Tank	3 KL	1	
Hot water tank	3 KL	1	
Recuperation tank	3 KL	1	
Flush water tank	3 KL	1	
Acid Tank recirculation pump	3 KLPH	1	
Lye tank recirculation pump	3 KLPH	1	
Tubular Heat exchangers	5 KLPH	2	
Duplex Inline Filters	5 KLPH	2	
CIP forward pumps	5 KLPH	2	
CIP tank platform	-	1	

MILK PIPING AND FITTINGS			150.00
MILK & CIP PIPING AND FITTINGS			
SS Pipes, fittings, flow plates, SS supports and single seat valves, SS trays for valve batteries etc		1	
INSTRUMENTATION & AUTOMATION			
CONTROL & INSTRUMENTS, AUTOMATION			150.00
Controls & Instrumentation	Lot	1	
HMI's	Lot		
TOTAL FOR PROCESS EQUIPMENT			1682.10
PROCESS EQUIPMENT CONTINGENCIES			
PROCESS EQUIPMENT CONTINGENCIES			
Process equipment contingencies @ 3%			50.463
PROCESS EQUIPMENT TOTAL			1732.56
SERVICE EQUIPMENT			
REFRIGERATION SYSTEM			350.00
REFRIGERATION PLANT			
Refrigeration plant (manually operated with reciprocating compressors)	100 TR	1	
COLD STORAGES/ DEEP FREEZERS INSULATION			
USING PUF SANDWICHED PANELS & FDC UNITS			150.00
Milk/Butter Cold Storage with FDCs & Incubation room along with heaters	Suitable	1	
Deep Freeze with Condensing Unit for White Butter, Blast freezer	Suitable	1	
STEAM RAISING PLANT			
Steam Raising Plant			317.00
Boiler 2 x 2 TPH @ 10.54 Kg/cm ²	2 TPH	2	
Chimney & Ducting		1	
Feed Water Tank insulated & Water piping	5 KL	1	
Fuel Storage Arrangements	Suitable	1	
HP Steam & Condensate Pipes & Fittings IBR	Set	1	
Steam Pressure reducing station IBR	Lot	2	
LP Steam Pipes & Fittings	Lot	1	
Condensate collection and pumping system	Lot	1	
Insulation of Steam Piping	Lot	1	
SOLAR PROJECTS			90.00
Solar PV system of about 100 KWp capacity	Lot	1	

WATER HANDLING SYSTEM			
WATER SYSTEM			73.00
Multi grade filtration plant duplex type	20 KLPH	1	
Raw Filtered water hydro flow system with vertical pumps (2W+1S)	20 KLPH	1	
Water softening plant duplex type	20 KLPH	1	
Soft Water hydro flow system with vertical pumps (1W+1S)	20 KLPH	1	
Water pipes, valves & fittings		1	
COMPRESSED AIR HANDLING SYSTEM			
AIR HANDLING SYSTEM			54.00
VFD driven lubricated screw air compressor with filters (1 W + 1S) with dryer	130 CFM	2	
Air Receiver with accessories	2000 Ltr	1	
Compressed air pipes & fittings	-	1	
STRUCTURAL BRIDGES/PLATFORMS			45.00
SS structural platforms in tanker ways/CIP tanks/ghee equipment/silos spiral ladders, pouch filling machines, cross over bridge for crate conveyors etc.		1	
INDUSTRIAL ELECTRICAL LT			
INDUSTRIAL ELECTRICAL			353.00
HT VCB Panel (1 Incoming +2 Outgoing)	No	1	
2 Pole Structure, CT/PT, HT Meter	No	1	
HT Power cables	Lot	1	
11 KV/440 V, 630 KVA on-load transformers	No.	1	
Sandwich type bus duct	mtr	20	
Power control centre (PCC) with APFCR & Capacitors	No.	1	
MCC's for production, CIP,	Lot	1	
LT Power & control cables	Lot	1	
Instrumentation cables	Lot	1	
RCPs, Frequency drive panel	Lot	1	
Earthing (Power & instruments/automation)	Lot	1	
Capacitor Panels with APFCR & Capacitors (Included)	Lot	1	
DG Set with AMF Panel - 500 KVA	500 KVA	1	
Miscellaneous items	Lot	1	
- GI & SS cable trays			
- Isolators (with Emergency push buttons)			
- Rubber Mats			
- SS Conduits			
TOTAL			1432.00

SERVICE EQUIPMENT CONTINGENCIES			
SERVICE EQUIPMENT CONTINGENCIES			
Service equipment contingencies @ 3%			42.96
TOTAL SERVICE EQUIPMENT			1474.96
MISCELLANEOUS EQUIPMENT			
FIRE FIGHTING SYSTEM			150.00
Firefighting system for Dairy & Utilities & Admin block (incl. hydrant, smoke detection & sprinkler system)	Lot	1	
WEIGHING EQUIPMENT			25.00
Electronic Weigh Bridge	60 MT	1	
SPARE PARTS			
SPARE PARTS			40.00
Spares	Lot	1	
MISCELLANEOUS ITEMS			24.00
Steam & Water Mixing batteries	No.	10	
Hygiene Station & Sanitation arrangement	No.	1	
TOTAL			239.00
MISCELLANEOUS EQUIPMENT CONTINGENCIES			
MISCELLANEOUS EQUIPMENT CONTINGENCIES			
Miscellaneous equipment contingencies @ 3%			10.14
TOTAL MISCELLANEOUS EQUIPMENT			249.14
ERECTION			
ERECTION, TESTING AND COMMISSIONING			182.31
Erection of LMP, utilities, Misc. items + Misc. like insurance etc	Job	1	
TOTAL			
ERECTION CONTINGENCIES			
ERECTION CONTINGENCIES			
Erection contingencies @ 3%			5.47
TOTAL ERECTION			187.78

Assumptions

Notes:	
1	The capacity & quantity of equipment mentioned are tentative. Hence, it may change at later stage to meet the above requirement. The requirement may get modified keeping in view the budget constraint/ escalation of cost in future.
2	Operations of Dairy Plant have been considered as manual/semi-automatic.
3	Implementing agency should arrange for express power feeder for the project site.
4	The cost estimate may vary on actual topography and sub-soil characteristics.
5	Cost of land & construction cost of staff quarters, boundary wall, dismantling work of existing building if any, not considered in the estimate.
6	Cost of bringing HT Overhead Transmission Lines upto Four Pole Structure of Dairy premises not considered in the estimate.
7	Cost of bringing potable/ raw water for plant use is not considered in the estimate. Implementing Agency to confirm the source, daily availability, quantum and quality of water. The water treatment plant shall be designed accordingly
8	Obtaining statutory approvals (CTE) of ETP are to be arranged by milk union. The ETP treated discharge water distribution/reuse and disposal of sludge to be arranged by Milk union. Tertiary treatment and ZLD has not been considered in the estimate.
9	Cost of marketing items such as plastic crates etc. have not been considered in the estimate.
10	Pre-operative expenditure up to commissioning of the plant has not been considered in the estimate. Raw materials, consumables, fuel and packing materials etc. for production from the plant are not considered.

Dairy Plant Capacity	Liquid Milk Capacity	Value Added Product Capacity
10 TLPD Dairy Plant	8 KL	Fermented: 1 KL Ghee: 500 Kg
20 TLPD Dairy Plant	15 KL	Fermented: 2 KL Ghee: 500 Kg
50 TLPD Dairy Plant	40 KL	Fermented: 10 KL Ghee: 1000 Kg
1 LLPD Dairy Plant	70 KL	Fermented: 25 KL Paneer: 500 Kg Ghee: 1000 Kg

Appendix-V

4.1.2.2- List of Major Laboratory equipment (for chemical/ microbial (only for union/state level) analysis of milk and milk products

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
1.0	Chemical Laboratory		
1.1	Aflatoxin Testing Equipment with Testing kit	40.00	Rapid test for aflatoxins in milk and milk products
1.2	Analytical Centrifuge	0.50	Analyze milk composition, especially for determining milk fat content, and to separate different components for various analyses
1.3	Analytical weighing balance (0.001 g)	0.50	Highly sensitive laboratory instrument used for precise mass measurements
1.4	Antibiotic Testing Equipment with Testing kit	6.00	Rapid test for antibiotic in milk and milk products
1.5	Auto Titrator	4.50	Primarily used for determining titratable acidity and measuring other parameters like pH and salt content.
1.6	Automatic Kjeldhal Protein Estimation unit	5.00	Determining the nitrogen content in milk samples, which is then used to calculate protein content
1.7	Bulk Density Apparatus	1.00	To measure the bulk density of powders, granules, and other bulk materials
1.8	COD digester and colorimeter	4.00	Primarily to determine the levels of organic compounds and other pollutants in effluent
1.9	Digital BR Meter with temp. control	4.50	Digital BR is used to measure BR value of ghee
1.10	Digital pH Meter	1.00	pH of milk and milk products
1.11	Digital water bath	0.50	To maintain desired temperature for laboratory test like MBRT test, AP test, etc.
1.12	Double Distillation Unit	2.00	To produce distilled water for the use in laboratory for analysis.
1.13	FTIR Technology based Milk Analyser	85.00	To analyse compositional parameters like Fat, protein, lactose/reduced lactose, SNF, etc and Targeted and untargeted adulterants.
1.14	FTIR Technology based dairy Analyser (liquid or semi-solid dairy product)	95.00	

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
1.15	Fume Hood	1.00	A ventilated enclosure in which gases, vapours and fumes are captured and removed from the work area
1.16	Gas Chromatography with Flame Ionization Detection	30.00	To check milk fat fatty acid profile to check fat adulteration
1.17	GCMS/ MS-Triple Cord Gas Chromatography/ Mass Spectrometer with accessories	140.00	Pesticide residues (polar/Low molecular compounds) and contaminants (pollutants eg. dioxine), fatty acid profile, triglyceride etc.
1.18	Gerber Centrifuge-Multi Purpose (Temperature Controlled)	5.00	To spin butyrometer at specified RPM for measurement of fat for milk and milk products
1.19	Hot Air Oven	0.50	Used for sterilization and drying purposes including gravimetric analysis
1.20	I.R. Thermometer	0.15	To measure temperature quickly, at a distance, and without touching the product
1.21	Incubator	0.60	For incubation at desired temperature for microbiological analysis.
1.22	Induced Couple Plasma Mass Spectrometer (ICP-MS) with Microwave digestion system	140.00	Heavy metals (Lead, Arsenic, Copper, Arsenic, Tin, Zinc etc.) in milk
1.23	LCMS/ MS-Triple Cord Liquid Chromatography/ Mass Spectrometer with accessories	200.00	Veterinary drug residues (eg. antibiotics), pesticide residues (polar compounds/higher molecular weight), mycotoxins (eg. aflatoxin), melamine etc.
1.24	Millipore Water Purification system	10.00	For Microbial & element analysis grade water
1.25	Mobile Milk Testing Lab	20.00	For on-site testing of milk and dairy products in remote areas or where access to traditional labs is limited
1.26	Moisture Analyser Digital	4.00	To determine the moisture content of various milk products
1.27	Mojonier's Apparatus	0.15	To determine the fat content and total solids in milk and dairy products
1.28	Muffle Furnace	0.75	Ash content in milk and milk products
1.29	NIR Dairy Product Analyser	90.00	To rapidly and non-destructively analyse the composition of various dairy products

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
1.30	Protein Digester and distillation unit (Semi automated Kjeldal method)	2.00	Determining the nitrogen content in milk samples, which is then used to calculate protein content
1.31	Refrigerator	0.40	Crucial for preserving milk samples and products
1.32	Residual Lactose Analyser	5.00	measure the amount of lactose remaining in milk or dairy products after lactose hydrolysis or processing
1.33	RM apparatus	1.00	To measure RM value in Ghee
1.34	Rose Gottlieb Apparatus	0.15	A gravimetric technique that involves the extraction of fat from milk using solvents
1.35	Sample Homogenizer	1.00	To prepare a homogeneous sample
1.36	Sample Storage Deep Freezer	0.40	For storing samples
1.37	Sediment Tester	1.00	To determine the amount of sediment (visible dirt particles) in milk
1.38	Sodium /Potassium Analyser	2.50	To measure the concentration of sodium and potassium in milk to detect abnormality
1.39	Spectrophotometer	2.00	To analyze various milk components like protein, fat, and lactose
1.40	Stirrer/Agitator	0.20	To mix or agitate materials, typically liquids
1.41	TDS Meter	1.00	For detecting total dissolve solids in solutions.
1.42	Total Solid Analyser	3.00	Determines the amount of non-water substances present in milk
1.43	Turbidity Meter	2.00	Measures the cloudiness or turbidity of milk, which can indicate the presence of suspended particles, fat content, or even whether the milk has been improperly heated or processed
1.44	Visco Meter	6.30	To measure the viscosity of milk and milk products
1.45	Chemical & Glassware	1.00	Glassware is essential for holding, measuring, and reacting with samples, while chemicals are used to perform specific tests and reactions

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
2.0	Microbiological Laboratory		
2.1	Air quality monitoring system	4.00	To assess the hygiene level of process environment
2.2	Air sampler	3.00	To monitor and control microbial contamination in the air
2.3	Anaerobic Jar	0.20	To create an oxygen-free environment for culturing and testing certain microorganisms
2.4	Autoclave	3.00	To sterilize laboratory glassware for microbiological testing
2.5	Bacterial and Somatic Cell Analyzer	65.00	Bacterial and Somatic Cell Count to assess the overall quality of milk, including hygiene and bacterial contamination.
2.6	BOD Incubators	2.00	For incubation at desired temperature for microbiological analysis.
2.7	Digital colony counter	0.50	For rapid and accurate counting of bacterial and mould colonies
2.8	Digital MBRT	1.10	Determination of automatic MBRT time with a digital display
2.9	Fumigator	1.00	To disinfect and sanitize equipment, storage containers, and even areas within the lab to control microbial contamination and ensure product safety
2.10	Hot Air Oven	0.50	For sterilization of glassware, metal instruments, and other lab equipment
2.11	Hot plate	0.50	To heat samples during various tests and experiments
2.12	IR Activated Bunsen burner	2.00	For sterilization and heating of equipment and materials, particularly in microbiological procedures
2.13	Luminometer	1.00	Assess the cleanliness of equipment and milk products by detecting microbial contamination
2.14	Microscope	2.00	Direct microscopic counting (DMC), identifying bacteria, assessing milk quality, and determining somatic cell count (SCC)
2.15	Microwave	0.30	Used for quickly and efficiently heat samples for various purposes including microbial media preparations

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
2.16	Rapid Pathogen Detection System	20.00	Utilize various technologies to quickly identify harmful bacteria in milk and dairy products
2.17	Refrigerator	0.85	Refrigerator is used for general laboratory purposes
2.18	RT-PCR technology-based testing equipment and accessories	15.00	DNA or RNA sequences from milk samples, enabling the detection of pathogens or genetic markers.
2.19	Somatic cell counter	5.00	For assessing milk quality and detecting mastitis (udder infection) in dairy cows
2.20	Table Top oven air flow	2.00	Used for various drying and sterilization tasks
2.21	Variable Volume Autopipette	0.30	For precise liquid handling, ensuring accurate results in various tests and analyses
2.22	Vortex Mixer	0.20	Used for mixing the samples
2.23	Micro Weighing balance (0.001 mg)	4.50	To determine the weight of milk samples, dairy products, and various ingredients used in milk processing, ensuring accurate analysis and quality control
2.24	Chemical & Glassware	0.50	Used for various tests
3.0	Packaging Material Testing Laboratory		
3.1	Box Compression Strength Tester	5.00	To measure the compressive strength of cardboard boxes and packaging materials
3.2	Bursting Strength tester	1.09	To directly test the bursting strength of milk itself
3.3	Deck Compression tester	6.00	To measure the strength and structural integrity of materials
3.4	Digital Micrometre	0.90	Measuring the thickness or length of objects with high accuracy, typically in manufacturing or engineering applications
3.5	Digital Puncture Resistance Tester	1.00	To evaluate the rupture or puncture characteristics of a material
3.6	Digital Vernier Callipers	0.06	To Measure the Outer and Inner Diameter and Thickness of the Component.
3.7	Oxymeter	3.00	To measure the oxygen content of air in packed products

(Rs. in lakh)

S.No.	Equipment	Unit Price / Cost	Purpose/Use
3.8	Permeability Tester	2.50	To evaluate the performance of packaging materials used for milk products
4.0	Equipment Required for Milk testing / Residue Sample preparation		
4.1	HPLC with RI, Fluorescence, PDA, oven, Autosampler	45.00	Used for residue analysis
4.2	Incubator Shaker	6.00	Temperature controlled shaking of samples
4.3	Membrane filtration assembly with pump	0.80	Microbial analysis of Water / Milk
4.4	Nitrogen concentrator	6.00	Used for production of N ₂ gas for GC analysis
4.5	Refrigerated Centrifuge	12.00	Temperature controlled centrifuge used for residue analysis
4.6	Rotary Evaporator	6.00	Removing water or other solvents from milk samples to concentrate them or prepare samples for analysis
4.7	Scorched particle analyser	0.60	For determination of scorched particles in Milk Products especially Milk Powder
4.8	Solubility Index Mixer	4.00	Used for determining solubility of Milk Powder
4.9	Sonicator	1.00	Mixing of samples using sonic vibrations
4.10	Standard Weight Box (E-2 Class)	1.00	Used for calibration of weighing balances
4.11	Vacuum manifold with pump	2.00	Used in milk testing labs primarily for sterility testing and filtration of milk samples
4.12	Vacuum pump	1.00	Primarily used in milk sediment testing to accelerate the filtration of milk samples and facilitate the identification of impurities
4.13	Water Purification System	12.00	For water purification for analysis purpose