# Cattle feed plant knowledge portal & demonstration of LCF software

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National Dairy Development Board Anand 388 001, India

http://cfp.nddb.coop

## Cattle Feed Plant-Knowledge Portal

- Usually, all information pertaining to cattle feed plant is not available at a single place
- In view of this, NDDB has developed a "cattle feed plant knowledge portal" for the feed manufacturers to get thorough information on the following aspects:
  - Specification of various types of feeds (finished goods)
  - Specifications of raw materials & rebate structure
  - Equipment(s) details for quality control lab
  - Discussion forum to discuss various issues related to CFPs
  - Least cost feed formulation software to derive LCF formulation.
  - Support system

# To maintain confidentiality, each of the user plant will be provided a separate user ID and password

# Portal link - http://cfp.nddb.coop



# Information on various aspects



# Open discussion forum for CFPs

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Home Discussion Forum	n Resources	Knowledge Base	Events	Links	Multimedia	Apps			^
Forums									
Cattle Feed Pla	nt						User login Log in/Register		
<u>Log in</u> to post new content in the forum.							f Facebook		
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ÖÜHot topic with new posts							Popular arti	cles	
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# Support from NDDB/ direct query



# **Least Cost Feed Formulation**

#### Why Least Cost Feed Formulation?



# LCF using computer/ Excel

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1				Lea	ast Cost F	ormulati	on for C	attle T	ype II	(IS:2	052)	
2									210			
3												in the second
4	Ingredient	Qty	Max	Min Tota		1000	Max	Min	Ma	ix penn. I	level	ADDI
5	Maize	239	250	50 C.Pr	otein	19.859	20	19				AB2D
6	Jowar	0	0	0 ME 1	Meal/Kg	2,3499	2.4	2.35				Bcom
7	B.Rice	0	0	0 C.Fil	ore	9.237	12	11				Toxinl
8	Wheat	0	0	0 C. Fa	it	4.1726	5	2.5				Liverto
9	Bajra	0	0	0 Calci	um	0.50017	0.6	0.5				Dicerc
10	Ragi	0	0	0 T.Po	sphorus	0.87518	0.9	0.5				Cholin
11	R.Polish	93	300	20 Mois	ture	10.5	11	9				UltraT
12	DORB	400	400	300 AIA		3.3124	3	2.5				Stafac
13	SFOC	70	120	20 Salt		1.5	2	1.5				Lactos
14	DOGN	20	100	20 Urea		1	1	0.5				Nature
15	SOYA	0	50	0 Cost	/Kg	5.7149						Sodab-
Ready	Sheet1 / Sheet	t2 / Shert3 / 12					141				190% I	e 'e

#### not necessarily least cost

### LCF software has been included in the portal

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	Catt	le Feed Plan	t Knowled	ge Port	tal				
FG	Master	Feed Master	LCF	Reports	Log Out				
Plant I	Name : ND	DB Cattle Feed Pla	an						-
					Least Cost Formul	ation			
FG I	item : BIS I	I	~						
Tot	Wgt CP	FAT FIBRE SILIC	ACALCIUMPH	OSPHORU	S TDN LYSINEME	HIONINE	E RDP UDP		
1.0	00 18.00	2.25 10.80 3.60	0.72	0.45	58.50 0.00	0.00	0.00 0.00		
Mat	erials :								
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2	Commo	n salt	~	0	1	Delete			
3	De-oiled	l rice bran (DORB)	~	0	40	Delete			
4	Ground	nut meal	~	0	0	Delete			
5	Guar me	al	~	0	10	Delete			
б	Maize g	rain	~	0	0	Delete			
7	Mineral	mixture	~	1	2	Delete			
8	Molasse	s	~	5	8	Delete			
9	Rice pol	ish fine (Grade-I)	~	0	0	Delete			
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## Information required for making LCF

- Composition of Raw Materials
- Finished Product Specifications
- Availability of Raw Materials
- Prices of Raw Materials
- Constraints (Min & Max Bounds)

# Choice of bounds

#### Use of Max bound: Individual:

- If feed item is unpalatable
- Urea Max 1 %
- **Group bounds**
- Grind-able feed items are coming more in formulation
- Bran as a category coming more (issue of bulk density)
- Unconventional feeds (10%)

# Choice of bounds

#### Use of Min bound:

- Grains (Min 15 to 20 %)
- Already purchased feed item (Min 2 to 5 %)
- Minimum 2/3 proteins in the formulation (blend of AAs)

# Choice of bounds

Use of equal to bound:

- Mineral mixture = 2
- Common salt = 1
- Calcite powder = 1.5
- Molasses (range of 6 10) depending on stock, flavor, palatability

# Demonstration/ working of the software

# Live demonstration of LCF software

http://cfp.nddb.coop

Thank You

### Prepare Finished Goods Masters - Add New

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	Cat	tle Feed Plaı	nt Knowl	edge Por	tal	
	FG Master	Feed Master	LCF	Reports	Log Out	
	Plant Name : NI	DDB Cattle Feed P	lan			1
	FG Name					
	FG Name : Local Code	* BIS - I e:* 000	[		Add BIS Type I, Type II and other types	
	Total Weig	ht:* 1		Ton	51 51 51	
	Crude Prot	tein(CP) :* 18		%		
	Crude FA	<b>I(EE) :*</b> 2.25		%	Fill nutrient specification	
	Crude Fibr	re (CF) :* 10.80		%	•	
	Silica :*	3.0		%		
	Calcium :*	· ·*		%0 0/5	Save the details	
	TDN ·*	· · ·		70 0/0		
	Lysine:*			%		
	Methionine	:*		%		
	RDP :*			%		
	UDP :*			%		
	Save	Reset				

#### Prepare Finished Goods Master -Various types of feed master

C:	attle Feed P	lant Knowledge	Portal												
FG Master	Feed Master	LCF Repo	rts Log Out												
Plant Name :	NDDB Cattle Fee	d Plan													
			FC	5 Mast	er										
FG Name /	Local FG Name:		Search												
Is Applicable	FGName	LFGName	LCode	Tot Wgt	СР	EE	CF	Silica	CAL	Р	TDN	LYSINE	METH IONINE	RDP	UDP
Yes 🗸	BIS II	BIS II	0000	] 1.00	18.00	2.25	10.80	3.60	0.72	0.45	58.50	0.00	0.00	0.00	0.00
Yes 🗸	BIS-I	BIS-I	0001	] 1.00	19.80	3.60	9.00	2.70	0.72	0.45	63.00	0.00	0.00	0.00	0.00
Yes 🗸	Calf Starter	Calf Starter	0002	] 1.00	20.70	3.60	8.10	2.25	0.72	0.45	63.00	0.00	0.00	0.00	0.00
No 🗸	Calf Growth Meal	Calf Growth Meal	0003	] 1.00	19.80	2.70	10.80	2.70	0.72	0.45	58.50	0.00	0.00	0.00	0.00
	Pregnancy Feed	Pregnancy Feed	0004	1.00	21.60	3.60	7.20	2.25	0.36	0.45	63.00	0.00	0.00	0.00	0.00

Prepare your standard list or customised list as per your requirement

# Prepare Feed Master list & chemical composition - Add new feed ingredient(s)

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	Cattl	e Feed Plan	t Know	ledge Por	tal						
	FG Master	Feed Master	LCF	Reports	Log Out						
I	Plant Name : NDI	DB Cattle Feed Pl	an								
L 1					Feed Master						
	Feed Name : Local Code : GroupName 1 : Group Name 2 : Add Mat	De-oiled rice 00000 Select Brans erial Cancel	bran								
	Fill/ /	\dd Feed	l nam	e and i	its chemical o	composi	ition				

# Prepare Feed Master list and chemical composition - selection of feed ingredient(s)

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	Cattle Feed Plan	t Kno	wledge Por	tal		
FG M	faster Feed Master	LCF	Reports	Log Out		
Plant N	ame : NDDB Cattle Feed Pl	an				
				Feed Master		
Feed	Name:		Search			
SrN	o FeedName	Group	Local Code	Is Applicable		
1	Calcite powder			Yes 🗸	Additional facility is given	
2	Coconut meal			No 🗸	to select feed item(s)	
3	Common salt			Yes 🗸		
4	Cotton seed extraction			Yes 🗸	as by default Yes/ No	
5	Di-calcium phosphate (DCP)			Yes 🗸		
6	De-oiled rice bran (DORB)			Yes 🗸		
7	Groundnut meal			Yes 🗸		
8	Guar meal			Yes 🗸		
9	Jowar grain			Yes 🗸		
10	Maize grain			Yes 🗸		
1 2	2 3 4 5					
	Submit					

# Feed Master and Chemical Composition

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	Cattle Feed Play	nt Knowle	dge Po	rtal											
FG M	Master Feed Master	LCF	Reports	Log	Out		Upd	ating	j che	emica	al coi	mpos	sition		
Plant N	ame : NDDB Cattle Feed P	lan					can	be d	one	in th	ree w	/ays:			
					Feed Nut	rient									
ON	ew ©Existing	1- E					1.	Add	new	valu	es af	ter e	ach a	nalysis	
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Imp	port Data						3	Uplo	ad e	xcel	shee	t of v	our v	alues	
Feed	Name:	Sear	ch				0.	opio			51100	i or j		ulucs	
SrNo	) FeedName	Cost	Total Weight	СР	EE	CF	SILICA	Calcium	Ph	TDN	Lysine	Methionin	e RD		
1	Calcite powder	1350.00	1.00	0.00	0.00	0.00	2.85	35.15	0.00	0.00	0.00	0.00	0.00		
2	Coconut meal	18000.00	1.00	20.70	0.00	12.60	1.35	0.14	0.45	63.00	0.00	0.00	0.00		
3	Common salt	1500.00	1.00	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00		
4	Cotton seed extraction	24000.00	1.00	33.30	0.00	12.60	2.25	0.15	0.05	63.00	0.00	0.00	0.00		
5	Di-calcium phosphate (DCP)	35000.00	1.00	0.00	0.00	0.00	2.85	21.85	17.10	0.00	0.00	0.00	0.00		
6	De-oiled rice bran (DORB)	12000.00	1.00	13.50	0.00	11.70	4.50	0.07	1.17	58.50	0.00	0.00	0.00		

### LCF Formulation: Select Finished good and select feed items

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rile calt view ravorites in		attle Feed Plan	t Knowle	dge Port	al			
	FG Maste	r Feed Master	LCF	Reports	Log Out			
I	lant Name	: NDDB Cattle Feed Pla	an					
					Least Cost For	mulation		
	FG Item :	BIS II	~					
	TotWgt	CP FAT FIBRE SILICA	ACALCIUMP	HOSPHORU	S TDN LYSINE	METHIONIN	NE RDP UDP	
	1.00 1	8.00 2.25 10.80 3.60	0.72	0.45	58.50 0.00	0.00	0.00 0.00	
	Materials	:						
	SrNo	Feed		Min. Boun	d Max. Boun	i i	After updating feed composition	
	1 Ca	lcite powder	~	0	2	Delete		
	2 Co	mmon salt	~	0	1	Delete	Select Finished Good from your	list
	3 Mi	neral mixture	~	1	2	Delete		iiot
	4 De	-oiled rice bran (DORB)	~	0	0	Delete		
					Add New Ro	w	Select desired feed items	
	Least Co	st Formulate						
	Least Cost	Formulation for Feed :	Rs/Ton.					
	0.1.0							
	Solution A	naiysis :						

## Select Finished good and select feed items and fill Min & Max Bounds

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	FG M	Iaster	Feed Master	LCF	Reports	Log	Out		
	Plant Na	ame : NDDB	1						
						Least	Cost Form	nulation	
	FG Ite	em : BIS II		~					
	TotW	igt CP FA	T FIBRE SILI	ICA CALCIUM	PHOSPHORU	US TDN	LYSINEN	<b>METHIONI</b>	INE RDP UDP
	1.00	0 18.00 2.2	10.80 3.6	60 0.72	0.45	58.50	0.00	0.00	0.00 0.00
	Mate	rials :							
	SrNo		Feed		Min. Bou	nd M	lax. Bound		
	1	Calcite pow	der	~	] 0	] [1	5	Delete	
	2	Common sa	lt	~	0	] [1	5	Delete	After selecting all desired feed items
	3	De-oiled ric	e bran (DORB)	) 🗸	0	] [4	0	Delete	
	4	Maize grain		~	] 0	] 0	)	Delete	Put desired Min & Max bounds on
	5	Mineral mix	ture	~	]	2	!	Delete	food itoms and formulato
	6	Molasses		~	] 6	] [1	.0	Delete	
	7	Rapeseed ex	straction	~	] 0	] 0	)	Delete	
	8	Rice polish	fine (Grade-II)	~	0	] 0	)	Delete	
	9	Guar meal		~	] 0	] 0	)	Delete	
						Ad	ld New Rov	v	
	Lea	st Cost Formu	late Rej	port					

## Select Finished good and select feed items and fill Min & Max Bounds

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	Least Cost Formulate Report							
]	Least Cost Formulation for Feed : 1463	30.27 Rs/To	on.					
	FeedName	Quantity	R	ate	Amount	MaxPrice	lfar	witem is not nicked up in LCE
	Calcite powder	1.50	180	0.00	27.00		II ai	IN REIT IS NOT PICKED UP IN LOT
	Common salt	1.50	150	0.00	22.50		soli	ution its possible purchase price
	De-oiled rice bran (DORB)	40.00	1180	00.00	4720.00		will	be displayed
	Maize grain	6.50	1550	00.00	1001.54		]	
	Mineral mixture	1.00	4500	00.00	450.00		]	
	Molasses	10.00	1150	00.00	1150.00		Aga	in put desired Min & Max bounds on
	Rapeseed extraction	0.00	2163	80.00	0.00	18829.49	Jee	t items and formulate
	Rice polish fine (Grade-II)	16.50	1550	00.00	2551.54			
	Guar meal	23.10	2040	00.00	4707.69			
	Solution Analysis							
	Parametername	T	ype Valu	e Unit	Actual Value	Sensitivity(rel	action 0.1 <u>%</u> )	
	TOTAL WEIGHT		E 1.00	TON	1			
	CRUDE PROTEIN (CP)		G 18.00	) %	18	13.	96	
	CRUDE FAT (EE)		G 2.25	%	3.29	0	)	

%

%

%

7.61

3.17

0.81

0

0

0

10.80

3.60

0.72

L

L

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CRUDE FIBRE (CF)

SILICA

CALCIUM

#### LCF solution and change as per requirement

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	Least Cost Formulation for Fed : 1496	3.16 Rs/To							
	FeedName	Quantity	R	late	Amount	MaxPrice		Solution 1	
	Calcite powder	1.50	180	00.00	27.00				
	Common salt	1.50	150	00.00	22.50			Rs 14963 / Ton	
	De-oiled rice bran (DORB)	40.00	118	00.00	4720.00				
	Guar meal	15.00	204	00.00	3060.00				
	Maize grain	7.50	155	00.00	1166.89				
	Mineral mixture	1.00	450	00.00	450.00			May add new feed item	
	Molasses	10.00	115	00.00	1150.00				
	Rapeseed extraction	11.90	216	30.00	2571.11			(0003)	
	Rice polish fine (Grade-II)	11.60	155	00.00	1795.66				
								Modify bounds	
	Solution Analysis							-	
	Parametername	T	ype Valu	e Unit	Actual Value	Sensitivity(relaction 0	0.1 %)		
	TOTAL WEIGHT		E 1.00	TON	1				
	CRUDE PROTEIN (CP)		G 18.00	) %	18	25.70			
	CRUDE FAT (EE)		G 2.25	%	2.37	0			
	CRUDE FIBRE (CF)		L 10.80	) %	8.03	0			
	SILICA		L 3.60	%	2.99	0			
	CALCIUM		G 0.72	%	0.88	0			

#### LCF solution and change as per requirement

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						ools Help	File Edit View Favorites Too
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					4911.74 Rs/To .	Least Cost Formulation for F ed : 14	
		MaxPrice	Amount	Rate	Quantity	FeedName	
	Solution 2		27.00	1800.00	1.50	Calcite powder	
			22.50	1500.00	1.50	Common salt	
			4720.00	11800.00	40.00	De-oiled rice bran (DORB)	
n	Rs 14911/ Ton		3060.00	20400.00	15.00	Guar meal	
			1550.00	15500.00	10.00	Maize grain	
Ton	If we save Rs 52 per Ton		450.00	45000.00	1.00	Mineral mixture	
	•		1150.00	11500.00	10.00	Molasses	
			1081.50	21630.00	5.00	Rapeseed extraction	
,000 per day	1. 52 x 500 Ton = 26,000		1202.98	15500.00	7.80	Rice polish fine (Grade-II)	
s = 78.0 lakh / vear	2. 26.000 x 300 days = 78		1647.76	20000.00	8.20	DDGS	
· · · · · · · · · · · · · · · · · · ·	-,						

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Parametername	Туре	Value	Unit	Actual Value	Sensitivity(relaction 0.1 %)
TOTAL WEIGHT	E	1.00	TON	1	
CRUDE PROTEIN (CP)	G	18.00	%	18	22.39
CRUDE FAT (EE)	G	2.25	%	2.72	0
CRUDE FIBRE (CF)	L	10.80	%	7.37	0
SILICA	L	3.60	%	2.68	0

## Generate Report for Future Reference

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								Tools Help	Edit View Favorites	File E
			Out	rts Log	Rep	LCF	laster	FG Master Feed M		
						lan	e Feed P	Plant Name : NDDB Cattle		
		ort	LCF Rep							
	٩	ext 👢 🔹 🛞	Find   Ne		10% 🗸	¢ 10		14 4 1 of 1		
	^	ı	rmulation	ost Feed Fo	3 Least C	NDD				
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								FG Details :		
				264.84	15		MT):	Formulae Cost (Rs/I Formule :		
		Max Price	Amounts	Rates	Quntity	Max	Min	Feed Name		
	NDDB can assist in		27.00	1800.00	1.50	1.5	0	Calcite powder		
			22.50	1500.00	1.50	1.5	0	Common salt		
on online	improving feed formulati		4130.00	11800.00	35.00	35	0	De-oiled rice bran (DORB)		
			2149.70	24900.00	8.60	0	0	Guar korma		
			2237.17	15500.00	14.40	0	0	Maize grain		
			450.00	45000.00	1.00	2	1	Mineral mixture		
			1150.00	11500.00	10.00	10	0	Molasses		
			2163.00	21630.00	10.00	0	n 10	Rapeseed extraction		
			2675.47	15800.00	16.90	0	0	Rice polish fine		

# Support/User id creation request

← → 🎑 http://cf	p.nddb.coop/LCFSupport.aspx	ည ÷ ငံ 🧔 cfp.nddb.co	pop ×		<b>↑</b> ★ ¤							
File Edit View Fa	e Edit View Favorites Tools Help Cattle Feed Plant Knowledge Portal Cattle Feed Plant Knowledge Portal											
	Home About CFP About	t LCF Demo Discussion Forum	FAQ Support	Contact Us								
		Support										
	1.) <b>Email to us :</b> Email Id :cfp@nddb.coop Email on above email id for your query.	Please	e send email a	at – <u>cfp@nddb.coop</u>								
	2.) <b>Open a ticket :</b> Open a ticket using below link click here to open a ticket.	Now, s especi	tart using CF ally LCF solu	P Knowledge Portal								