COTS

Sathguru Management Consultants Pvt. Ltd.

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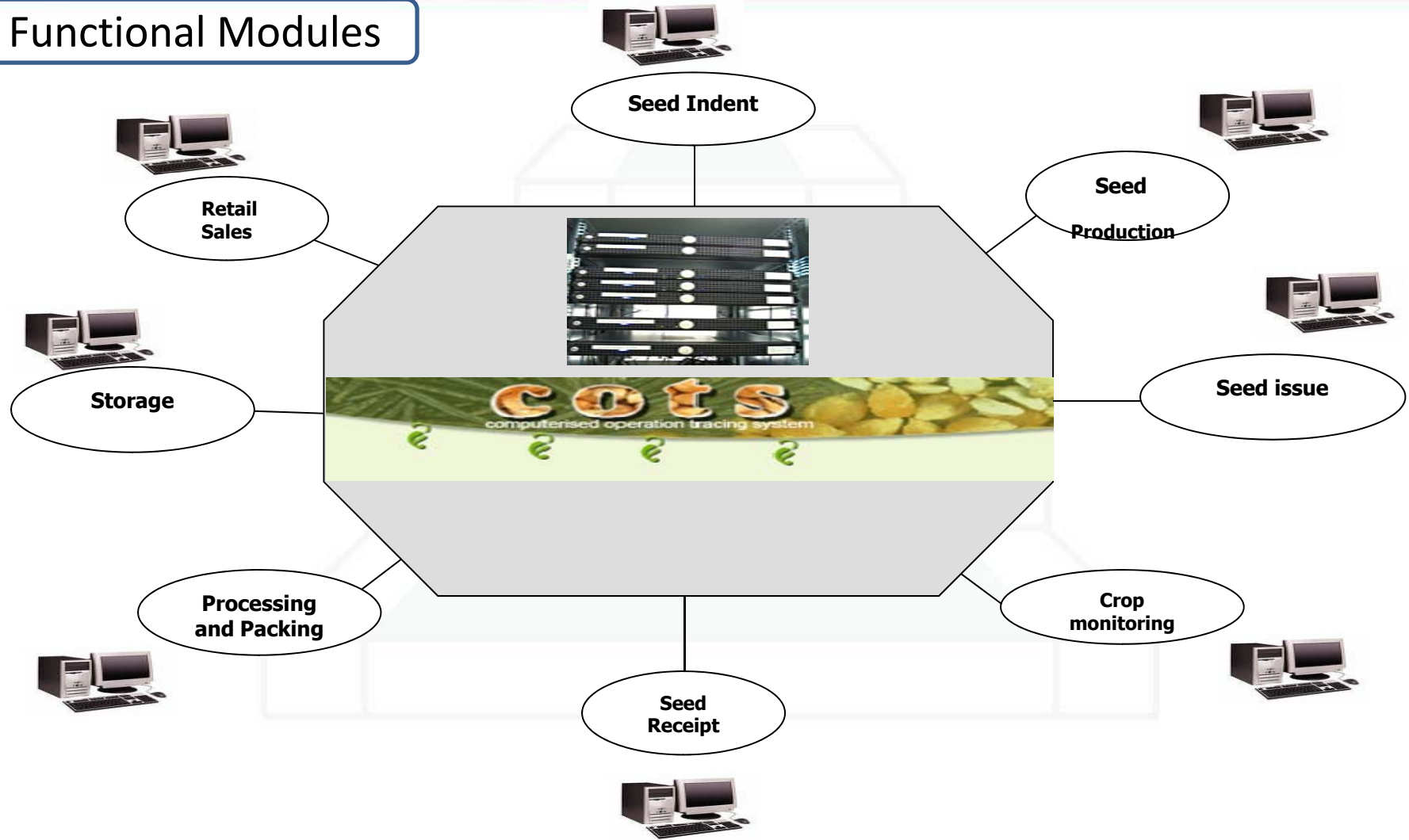## Computerized Operation Tracing System

COTS is an unique, web-based comprehensive package exclusively designed for seed processing industries. COTS application includes feature-rich modules that cater to most of the needs of any seed company such as demand forecasting, seed production, processing and distribution.

COTS essentially works as centralized Information repository for all functions and departments, thus ensures management accuracy in tracking Production and delivery of seed varieties, hybrids and transgenic seeds.

COTS application effectively mines the data and helps organizations to generate reports for regulatory compliance, demand forecast and Inventory tracking will help management to take productive decisions, results in a "Better corporate Image".

Functional Modules

- Seed Indent
- Seed Production
- Seed issue
- Crop monitoring
- Seed Receipt
- Processing and Packing
- Storage
- Retail Sales

cots
computerised operation tracing system
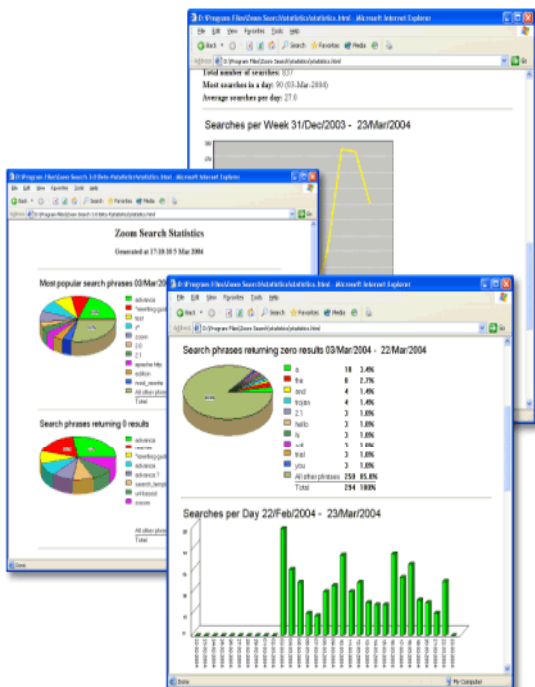
Features and Highlights

Production:

- Indent details raised on different criteria through multiple resources.
- Indent wise production plan.
- Resource allocation to meet production plan to various production centers.
- Material distribution and result monitoring
- Crop monitoring

Processing:

- Seed receipt
- Quality parameter testing
- Seed grower payments

Distribution:

- Indent wise bill generation
- Retail sales receipt
- Seeds accounting for loss/gain for natural disaster.

Reports

- ✓ Generates statutory and non-statutory reports
- ✓ Equipped with standard report formats for the Industry
- ✓ Indent List
- ✓ Indent wise production plan
- ✓ Seed monitoring report
- ✓ Seed Analysis report
- ✓ Day book for seed issue
- ✓ Day book for seed receipt
- ✓ Seed receipt
- ✓ Production plan details
- ✓ Seed production program
- ✓ Seed distribution
- ✓ Packing stock
- ✓ Raw stock

Crop Variety

Crop Variety Master								

Select Crop Group : GM_Crops - GM_Cro ▼

Select Crop : Bt_Brinjal - Bt_Brinja ▼

Add Variety / Hybrid

Variety Code	Variety Desc.	Type	IsActive	Default Uom	Report Uom	Conversion Factor	Edit	Delete
Kudachilocal	Kudachi Local	Variety	Y	g	g	1	Edit	Delete
Malabar local	Malabar local	Variety	Y	g	g	1	Edit	Delete
Udupigolla	Udupi Golla	Variety	Y	g	g	1	Edit	Delete
		Variety ▼	Yes ▼	% ▼	% ▼		Insert	

✓ Entries for the crop group , crop and variety of crop with details.

Crop Parameters

	Param Code	Parameter	Type	High Range	Low Range	Uom
☐	Genetpurity	Genetic purity	Q	0	0	%
☑	Germin	Germination	Q	100	95	%
☐	Inert	Inert Matter	Q	0	0	%
☐	Insect	Insect infested seed	Q	0	0	%
☑	Moisture	Moisture	Q	100	94	%
☐	Other	Other Crop Seed	Q	0	0	%
☐	PhyPurity	Physical Purity	Q	0	0	%
☐	PureSeed	Pure Seed	Q	0	0	%
☐	SeedHealth	Seed Health	Q	0	0	%
☐	weed	Weed seed	Q	0	0	%

✓ At Receipt is for seed receipt to know the status of seed quality at the time of accepting the seed.

✓ At Processing is for quality testing of seed stock.

Crop Monitoring Parameters

Crop Monitoring Parameters

Crop Type : Bt_Brinjal - Bt_Brinja ▼

Stage I - 15 DAT	Stage II - 30 DAT	Stage III - 45 DAT	Stage IV - 60 DAT	General

Parameter Code	Parameter Desc	Value	Edit	Delete
11	Gene expression test	10	Edit	X
12	Insect Population monitoring	44	Edit	X
13	Baseline suceptibility monitoring	55	Edit	X
14	Event Purity Test	33	Edit	X
			Insert	

Clear   Save

Monitoring parameters

✓ Stage levels (I,II,III,IV) for GM crops.

✓ General stage for non-GM crops.

Indent

✓ Indent is the demand from the various agencies with respect to the class of seed, crop and variety.

Production Plan

✓ Plan made for consolidated indents with respect to class of seed, crop ,variety and season.

PRODUCTION

Production Allocation

✓ Allocation of seed for seed multiplication to external/ internal growers.

Seed Issue

✓ Quality of seeds issued to growers for multiplication of seeds.

Stewardship/Crop Monitoring

- ✓ Based on predefined stages, stewardship monitoring is facilitated in order to maintain quality.

- ✓ Completion of the monitoring stages leads to the next process.

Seed Receipt

✓ Seed samples are tested for purity, germination, results are stored and extracted at the process of accepting the Seeds.

Quality Check

Quality Check

Financial Year	2008 - 2009 ▼ *	Production Year	2008 - 2008 ▼ *
Quality Test Code	8 *	Quality Test Date	09/02/2008 *
Station	SEEDUNIT - SEED UNI ▼ *	Re Test No.	0
Crop	Bt_Brinjal - Bt_Brinjal ▼	Variety	Udupigolla - Udupi Go ▼
Class Of Seed	Nucleus ▼	Lot No.	Lot/Bt_udu02feb2009 ▼
Receipt No.	13 ▼	Accepted Quantity	750 g
Planned By	--Select-- ▼	Remarks	

Previous Next

Param Code	Parameter	High Range	Low Range	Uom	Ob Reading	Type
Genetpurity	Genetic purity	100	99	%	99	Q
Germin	Germination	100	95	%	99	Q
Moisture	Moisture	8	4	%	6	Q

Approved Quantity	750 g	Rejected Quantity	0 g
Final Status	Yes ▼	Expiry Date	02/16/2011 *

Clear   Save   View

- ✓ Quality process based on pre-defined parameters to facilitate quality check.

- ✓ Based on observation reading, quality approval is done; approved quantity is packed in relevant pack lots and Stock updated.

Seed Allotment

Seed Allottment

Financial Year	2009 - 2010 ▼ *	Production Year	2009 - 2009 ▼ *
Allotment Code	2 *	Allotment Date (dd/mm/yyyy)	12/5/2009 📖 *
Indent Type	External ▼	Cut off Date	31/05/2010 📖
Station	SEEDUNIT - SEED UN ▼ *	Indent Source	Department of agricultu ▼ *
Indent Ref No.	ref2009/25/5 ▼ *	Indent code	2
Party	BioTech		

Allottment Details

Crop Code	Wheat - Wheat ▼ 🔍	Variety Code	B.YELLOW
Seed Type	Breeder ▼	Indented Quantity	1500 Kg
Lot No.	LotWheat/B.Y/2009 ▼	Packing Code	bag_03 ▼
Size / Capacity	30 Kg	No. Of Pack(s) Available	66
No. Of Pack(s)	50		**Insert**

Previous Next

Delete	S.No.	Crop	Variety	Seed Type	Lot No.	Indented Qty	Size / Capacity	No Of P.

Sum of pack qty. : 0

Clear **Save** **View**

✓ Once the packing is through then the allotment will be done according to the indent and ready for invoice.

Invoice

Invoice

Financial Year	2007 - 2008 ▾ *	Production Year	2007 - 2007 ▾ *
Invoice No.	2 *	Invoice Date (mm/dd/yyyy)	12/17/2007 ✋ *
Pack Slip No	2007/1 ▾ *	Indent No.	1 *
Station	SEEDUNIT - SEED ▾ *	Advance Amount	0.0000 *
		Remarks	Nil

Invoice Details

Previous Next

Edit	Delete	S.No.	ClaasOf Seed	Crop	Variety	Lot No.	Size/Capacity	No. Of pack	Total Qt
Edit	Delete	1	Breeder	Soybean	JS-335	07-II-R-335-35-01	30	207	6210

		Total Amount	1242000
		Vat %	4
		Bill Amount	1291680

Invoice Type	Credit ▾ ... *	Party	--Select-- ▾

Clear   Save   View

✓ For Payment procedures after allotting the seed invoices are generated with the payment options

- Cash
- Credit

Few Reports

Indent list	Seed Receipt
Indent wise Production Plan	Production Plan details
Seed Monitoring Report	Seed Production Program
Seed Analysis Report	Seed Distribution
Day book of Seed Issue	Packing Stock
Day book of Seed Receipt	Raw stock

Indent Wise Production Plan

Production Plan

PlanId	353	**PlanDate**	15-September-2010
PlanFor_FinY	3	**PlanBy**	SEEDUNIT
CropName	Bt_Brinjal	**Variety**	Malapur Local
Classs Of Seed	Foundation	**Season**	Summer 2010
Incharge	Mr.Incharge	**Remarks**	

Indent Details

Indent Id	Indent Source	Source Name	SrcIndentId	Indented Qty	Planned Qty
384	State_Govt	State Government	State/PA/BT_Mal	500.00Kg	600.00 Kg
			Total:	**500.00** Kg	**600.00** Kg

Targeted Quantity

ResCode	Targeted Qty	Member
SEEDUNIT	600.00 Kg	Mr.Maint
Total:	**600.00** Kg	

Production Plan Report

Production Plan Details

Crop Group	Crop	Variety	Class of Seed	Source/Res.Station	Plan Id	PlanDate	Planned Qty	IndentId	Indent Dt	Indented Qty	Targeted Qty
Pulses	Blackgram	TAU-1	Breeder	Indian Council of Agricultural Research Annigeri	192	27-Apr-2010	1,200.00 Kg	213	27-Apr-2010	1,000.00 Kg	1,500.00 Kg
Pulses	Blackgram	TAU-1	Breeder	State Government MARS Dharward	192	27-Apr-2010	1,800.00 Kg	214	27-Apr-2010	1,500.00 Kg	1,000.00 Kg
Pulses	Blackgram	TAU-1	Breeder	State Government Annigeri	192	27-Apr-2010	1,800.00 Kg	214	27-Apr-2010	1,500.00 Kg	1,500.00 Kg
GM_Crops	Bt_Brinjal	Kudachi Local	Breeder	Department of agriculture SEED UNIT	351	15-Sep-2010	600.00 Kg	382	15-Sep-2010	500.00 Kg	600.00 Kg
GM_Crops	Bt_Brinjal	GO 112	Nucleus	Indian Council of Agricultural Research SEED UNIT	352	15-Sep-2010	240.00 Kg	383	15-Sep-2010	200.00 Kg	240.00 Kg
GM_Crops	Bt_Brinjal	Malapur Local	Foundation	State Government SEED UNIT	353	15-Sep-2010	600.00 Kg	384	15-Sep-2010	500.00 Kg	600.00 Kg
Oilseeds	Castor	VP-1	Breeder	State Government	213	27-Apr-2010	30.00 Kg	239	27-Apr-2010	25.00 Kg	30.00 Kg

Stewardship and Crop Monitoring Report

Stewardship and Crop Monitoring Report

Run Date: 10-Feb-2009

Monitor No: 3
Research Station: SEED UNIT

Dt. of Transplantation : 4-Dec-2008

Class of Seed : Breeder	**Field Location** : Anigol	**Expected Yield** : 3000 g	
Crop : Bt_Brinjal	**Area** : 10.00 acre		
Variety : Malabar local	**Plot No** :	**Plan Id** : 5	

Stage: Stage I - 15 DAt

SI.No	Test	Observed Value	Crop Conditon	Remarks
1	Gene Expression Test	3	Medium	
2	Insect Population monitoring	12	Medium	
3	Event Purity Test	20	Average	

Monitor Dt: 15-Oct-2008 **Monitor:** Charan Raj

Stage: Stage II - 30 DAT

SI.No	Test	Observed Value	Crop Conditon	Remarks
1	Gene expression test	2	Medium	
2	Insect Population monitoring	2	Good	
3	Baseline suceptibility monitoring	23	Average	
4	Event Purity Test	32	Excellent	

Monitor Dt: 30-Oct-2008 **Monitor:** Suresh Kumar

Stage: Stage III - 45 DAT

SI.No	Test	Observed Value	Crop Conditon	Remarks
1	Gene expression test	20	Medium	
2	Insect population monitoring	20	Medium	
3	Baseline suceptibility monitoring	20	Medium	
4	Event Purity Test	20	Good	

Monitor Dt: 14-Nov-2008 **Monitor:** Ramesh Naidu

Stage: Stage IV - 60 DAT

SI.No	Test	Observed Value	Crop Conditon	Remarks
1	Gene expression test	20	Medium	
2	Insect population monitoring	nil	Medium	
3	Baseline suceptibility monitoring	39	Good	
4	Event Purity Test	30	Good	

Monitor Dt: 29-Nov-2008 **Monitor:** Ravi Kumar

Sathguru

Receipt

RECEIPT

To,

Special Officer (Seeds)

Receipt No   11

I,Mr./Ms.   Janardhan D   belonging to

Sangolli   village,   Ranga reddy   taluka, hereby declare that,

I have received Rs.   30,000.00   (Rupees thirty thousand and paise zero only.)

Towards the supply of seeds as detailed below with agreed terms & conditions.

Sl. No.	Crop	Variety	Seed	Quantity		Rate Rs	Advance	Payment (Rs.) Final	Total
1	Bt_Brinjal	Malabar local	Nucleus	13000.00	g	10.00	100000.00	30000.00	130,000.00

DD/Cheque No: 45748

Amount (Rs.)   30,000.00   (Rupees thirty thousand and paise zero only.)

Date: 1/29/2009 12:00

Signature of the Farmer

Thank You

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