



SATHI

Seed Authentication, Traceability & Holistic Inventory

Seed Authentication, Traceability & Holistic Inventory (SATHI) Portal

User Manual (Version 1.0) for Project Coordinators/Project Directors (PD/PC)

National Informatics Centre (NIC)
Ministry of Electronics and Information Technology
Government of India



TABLE OF CONTENTS

1. Introduction to the Concepts of Breeder Seeds

1.1 *Concept of Breeder Seeds*

1.1.1	Indenting.....	3
1.1.2	Approval.....	3
1.1.3	Allotment.....	4
1.1.4	Production.....	4
1.1.5	Allocation.....	4
1.1.6	Lifting.....	4

2. Overview of SATHI Portal

2.1	Objectives of SATHI Portal.....	5
-----	---------------------------------	---

3. Role of PD/PCs in SATHI Portal

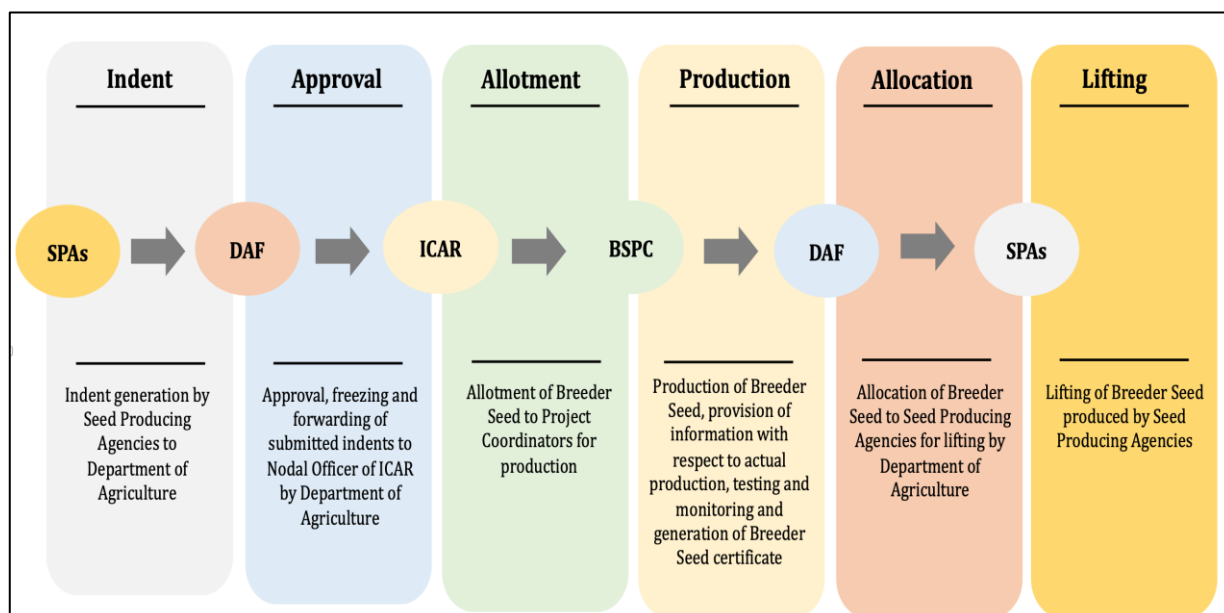
3.1	Assign Crop/Variety.....	7 - 9
3.2	BSP – I (Allocation of Breeder Seed Production).....	10 - 14



1. INTRODUCTION TO THE CONCEPT OF BREEDER SEEDS

1.1 Concept of Breeder Seeds –

Breeder Seed has following sub-modules -



1.1.1 Indenting –

Once the varieties have been identified by Department of Agriculture, Seed Producing Agencies can seamlessly login to SATHI portal and submit indents of these notified varieties of seeds by specifying the variety, season, year and quantity required by them. The Seed Producing Agencies are also informed about quantity of seed to be lifted after it is produced.

1.1.2 Approval -

After the submission of indents by Seed Producing Agencies, Department of Agriculture makes a consolidated list of submitted indents, freezes them and then further forwards it to Nodal officer of Indian Council of Agricultural Research (ICAR) to track and monitor the production of Breeder Seeds.

1.1.3 Allotment -

Nodal officer of ICAR will allot the production of Breeder Seed to Project Coordinators as per the requirement made by the SPAs and monitor the production details from time to time.



1.1.4 Production –

Breeder Seed Production Centers will notify the available Nucleus Seed and accordingly receive the quantity to be produced from their respective Project Coordinators. They will record Production, Testing and Monitoring parameters online by filling various proformas. After production, the actual quantity of Breeder Seed produced and details of grow out test are recorded. Lifting details are also captured and the Breeder Seed certificate can also be generated by the Production Centers. At all time, the inventory of seed is being maintained.

1.1.5. Allocation -

Department of Agriculture will allocate the produced Breeder Seed to Seed Producing Agencies for lifting and will monitor the entire process along with Nodal officer of (ICAR).

1.1.6. Lifting -

After the allocation by Department of Agriculture, Seed Producing Agencies can lift the produced Breeder Seed from the respective Breeder Seed Production Center and also receive the Breeder Seed Certificate.



2. OVERVIEW OF SATHI PORTAL

SATHI, an integrated, multi-user and menu-driven software package, can be used to generate various kinds of decision supportive information pertaining to Breeder Seed management, Seed certification, Progress report of seed testing laboratories and database of notified varieties. The front-end of online application is developed using Node.js, Angular technologies while the back-end is developed using Node.js and Postgres and is hosted on seedtrace.gov.in. SATHI portal is divided into following sub-systems -

- Breeder Seed Production
- Breeder Seed Management
- Quality Control and Seed Certification
- Breeder Seed Distribution (Requirement and Availability)
- Monitoring and Tracking

2.1 OBJECTIVES OF SATHI PORTAL –

SATHI, a software package on seed related areas has been developed to fulfil the following objectives –

A. To upkeep databases to monitor the performance of various stakeholders involved in it –

- Department of Agriculture & Farmers' Welfare (DAFW)
- Indian Council of Agriculture Research (ICAR)
- Project Coordinators/ Project Directors (PC/PD)
- Seed Producing Agencies (SPAs)
- Breeder Seed Production Centres (BSPCs)

B. To provide information on Requirement, Production and Availability of Breeder Seeds so that appropriate action can be taken in real time.

C. To help in monitoring and tracking of the functioning of stakeholders involved.

D. Analysis and projection of requirement of various seeds in future.

E. To keep users abreast of salient features of varieties released/notified



3. ROLE OF PD/PCs IN SATHI PORTAL

Following are the roles of PD/PCs in SATHI portal –

- Assign Crop/Variety to BSPCs for Production
- Keep a track of the process of Breeder Seed Production by BSPSCs
- Allocation of Quantity of Breeder Seed Production to BSPCs by filling BSP – I
- Providing Production Centre Wise details of Breeder Seed Produced to Nodal Officer
- View Relevant Reports

Login - To login to SATHI portal, BSPC will visit to SATHI site URL in browser. After visiting to SATHI portal, below login screen will be displayed -

The screenshot shows the SATHI portal interface. At the top, there is a header with the SATHI logo, contact details (Call Us: 011-23389242, Email: seed.trace-agri@gov.in), and a navigation bar with links like 'SKIP TO MAIN CONTENT', 'SCREEN READER ACCESS', and 'LOGIN'. Below the header, there is a 'Home' link and an 'Announcement' section. The main content area is divided into two parts: 'Security Guidelines' on the left and a 'Login' form on the right. The 'Login' form includes a text input for the email address (megaseedskuatj@gmail.com), a password input field, a 'Log In' button, and a 'Forgot Password?' link. A red speech bubble highlights the login form.

After filling User ID & Password, click on **Log In** to access the available options.



3.1 ASSIGN CROP/VARIETY

After the Allocation of Breeder Seed Production to PD/PC, PD/PC further assigns the production of Breeder Seed to various BSPCs by filling Assign Crop/Variety form. PD/PC can assign one variety to multiple BSPCs also, assign multiple varieties to a BSPC. To fill the Assign Crop/Variety form, user will have to click on **Assign Crop/Variety** option from side menu, after login. The following details are required to fill in Assign Crop/Variety form –

- Select Year of Indent*
- Select Season*
- Select Crop Name*
- Select Variety Name*
- Select Breeder Seed Production Centre Name*
- After adding the details, click on **Submit** to submit the form.

Assign Crop/Variety

Year of Indent*

Select Year of Indent

Season*

Select Season

Crop Name*

Select Crop Name

Variety Name*

Select Variety Name

Breeder Production Centre*

Select Breeder Prdouction Center

Submit

Cancel

B. To View Assign Crop/Variety Form –

Once the form has been submitted, the details will be reflected on grid screen, To View the same, PD/PC will have to go to the grid screen and follow the steps mentioned below –

- Go to grid screen
- Select Year of Indent
- Select Season






- Select Crop Name
- Click on **Search** to search for the form

Assign Crop

Year of Indent: 2023-24 Season: Kharif Crop Name: GREEN GRAM (MOONG BEAN/ MOONG)

Search **Clear**

Add

S/N	Year of Indent	Season	Crop Name	Variety Name	Breeder Production Centre Name	Action
1.	2023-24	Kharif	GREEN GRAM (MOONG BEAN/ MOONG)	AMRIT,ASHA	SRTCP	  

Click on View Icon to view the details mentioned by the user in Assign Crop/Variety form

View Assigned Crop

Year of Indent*: 2023-24 Season*: Kharif

Crop Name*: GREEN GRAM (MOONG BEAN/ MOONG) Variety Name*: AMRIT x ASHA x

Breeder Production Centre*: SRTCP

Cancel

C. To Update Assign Crop/Variety form -

To Update the Assign Crop/Variety form, user will have to go to the grid screen and follow the following steps –

- Go to grid screen
- Select Year of Indent
- Select Season





- Select Crop Name
- Click on **Search** to search for the form

Assign Crop

Year of Indent: 2023-24 Season: Kharif Crop Name: GREEN GRAM (MOONG BEAN/ MOONG)

Search **Clear**

Add

S/N	Year of Indent	Season	Crop Name	Variety Name	Breeder Production Centre Name	Action
1.	2023-24	Kharif	GREEN GRAM (MOONG BEAN/ MOONG)	AMRIT,ASHA	SRTCP	 

Click on Update Icon to Update the details mentioned by the user in Assign Crop/Variety form

Update Assign Crop/Variety

Year of Indent*: 2023-24 Season*: Kharif

Crop Name*: GREEN GRAM (MOONG BEAN/ MOONG) Variety Name*: AMRIT x ASHA x

Breeder Production Centre*: SRTCP

Update **Cancel**

- Edit the details
- Click on **Update** to update the form with changed details



3.2 BSP I (ALLOCATION OF BREEDER SEED PRODUCTION)

After the submission of Assign Crop/Variety form, assigned BSPCs will fill Nucleus Seed Availability form before BSP – I as there's a validation that Nucleus Seed Availability form will always be filled before BSP – I. Now, PD/PC will allocate the quantity of Breeder Seed Production to BSPCs by filling in BSP I (Allocation of Breeder Seed Production) To do the same, PD/PC will have to go to **BSP – I (Allocation of Breeder Seed Production)** option from side menu and click on **Add** to add a BSP I with following details –

- Select Year of Indent*
- Select Season*
- Select Crop Name*
- Year of Notification will be Auto-filled*
- Indenting Agency will be Auto-filled*
- Indent Quantity will be Auto-filled*
- Select Production Centre Name*
- Depending on the indent quantity, PD/PC can allocate the production of one variety to multiple BSPCs along with specifying the quantity to be produced by each BSPC by clicking on **Add Production Centre** each time.
- Once selected the BSPC to allocate the production, Name of Contact Person and Designation will be auto-filled*
- Contact Officer Address will be auto-filled*
- Available Nucleus Seed will be auto-filled*
- Enter Quantity of Breeder Seed To Be Produced*
- Enter Members of the Monitoring Team*
- Click on **Submit** to submit BSP - I



BSP Proforma I (Allocation of Breeder Seed Production of National/State Varieties)

Year of Indent * 2023-24

Season * Kharif

Crop Name * GREEN GRAM (MOONG BE...

Total Varieties : 2, Total Indent Quantity : 330.00

Search Here

ASHA

Year of Notification * Indenting Agency * Indent Quantity (Qunital) *

Year of Notification BIHAR 180

Production Centre Name * Name of Contact Person And Designation * Contact Officer Address *

SRTCP Dr T Pradeep, Principal Scientist Director Seeds PJTSAU Rajendranagar Hyderabad

Available Nucleus Seed (Qunital) * Quantity of Breeder Seed to be Produced (Qunital) * Members of the Monitoring team *

240 200 2

Add Production Center

Remove Production Center


AMRIT

Submit Cancel Save as Draft

Click on Add Production Centre to allocate a variety to another BSPC for production

B. To View BSP I -

Once the form has been submitted, the details will be reflected on grid screen, To View the same, PD/PC will have to go to the grid screen and follow the steps mentioned below –

- Go to the grid screen
- Select Year of Indent
- Select Season
- Select Crop Name
- Select Variety Name
- Click on  to search for filled BSP - I



BSP Proforma I (Allocation of Breeder Seed Production of National/State Varieties)

Year of Indent
 Season
 Crop Group

Crop Name
 Variety Name

S/N	Year of Indent	Season	Crop Name	Variety Name	Quantity of Breeder Seed to be Produced	Action
1	2023-24	Kharif	GREEN GRAM (MOONG BEAN/ MOONG)	AMRIT	180 Qunital	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	2023-24	Kharif	GREEN GRAM (MOONG BEAN/ MOONG)	ASHA	200 Qunital	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

Click on View Icon to view the details mentioned by the user in BSP I

BSP Proforma I (Allocation of Breeder Seed Production of National/State Varieties)

Year of Indent

Season

Crop Name

Total Varieties : 1, Total Indent Quantity : 180.00

ASHA

Year of Notification
 Indenting Agency
 Indent Quantity (Qunital)

Production Centre Name
 Name of Contact Person And Designation
 Contact Officer Address


Available Nucleus Seed (Qunital)
 Quantity of Breeder Seed to be Produced (Qunital)
 Members of the Monitoring team

C. To Update the BSP I -

To Update the BSP I, user will have to go to the grid screen and follow the following steps –

- Go to the grid screen
- Select Year of Indent



- Select Season
- Select Crop Name
- Select Variety Name
- Click on  to search for the form



BSP Proforma I (Allocation of Breeder Seed Production of National/State Varieties)

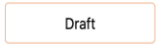

Year of Indent **Season** **Crop Group**







Select Year Of Indent Select Season Select Crop Group

Crop Name **Variety Name**

Select Crop Name Select Variety Name

BSP Proformas I  

S/N	Year of Indent	Season	Crop Name	Variety Name	Quantity of Breeder Seed to be Produced	Action
1	2023-24	Kharif	GREEN GRAM (MOONG BE AN/ MOONG)	AMRIT	180 Qunital	  
2	2023-24	Kharif	GREEN GRAM (MOONG BE AN/ MOONG)	ASHA	200 Qunital	  

Click on Update Icon to Update the details mentioned by the user in BSP I

BSP Proforma I (Allocation of Breeder Seed Production of National/State Varieties)

Year of Indent *


Season *

Crop Name *

Total Varieties : 1, Total Indent Quantity : 180.00

ASHA

Year of Notification * **Indenting Agency *** **Indent Quantity (Qunital) ***



Production Centre Name * **Name of Contact Person And Designation *** **Contact Officer Address ***

Available Nucleus Seed (Qunital) * **Quantity of Breeder Seed to be Produced (Qunital) *** **Members of the Monitoring team ***

