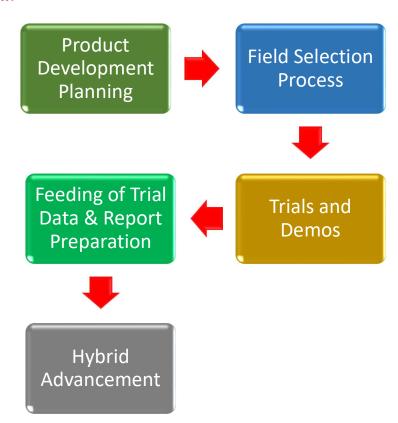


# 1. SOP – PRODUCT DEVELOPMENT PROCESS SUMMARY

#### **Objective:**

- Create product that will fix a problem, address a need, pest resistant and improve in Yield.
- Developing product plan in line with your Company strategy, maximizing revenue, profit and customer satisfaction, delivering new products on time within Budget and achieving product Quality levels.

#### **Process Overview:**



#### **Process beginning:**

Product Development Planning.

#### **Process ending:**

Hybrid Advancement Meeting





# **Key Inputs**

Particulars	From	Document Reference
Product Development Plan	Breeder	PDD/COM/002
2. Field Visit Report	Sales	PDD/COM/003
3. Soil Test Report	External Official	-
4. PD Seed Indent	Sales	PDD/COM/005
5. Field Layout	Breeder	PDD/COM/006

# **Key Outputs**

Particulars	То	Document Reference
Farmer Agreement	Farmer	PDD/COM/004
2. PD Tracker Sheet	Management	PDD/COM/007
3. PD Trial Data	IT	PDD/COM/008
4. Crop Tour Feedback	Management	PDD/COM/009
5. Hybrid Advancement Report	Department Heads	PDD/COM/010





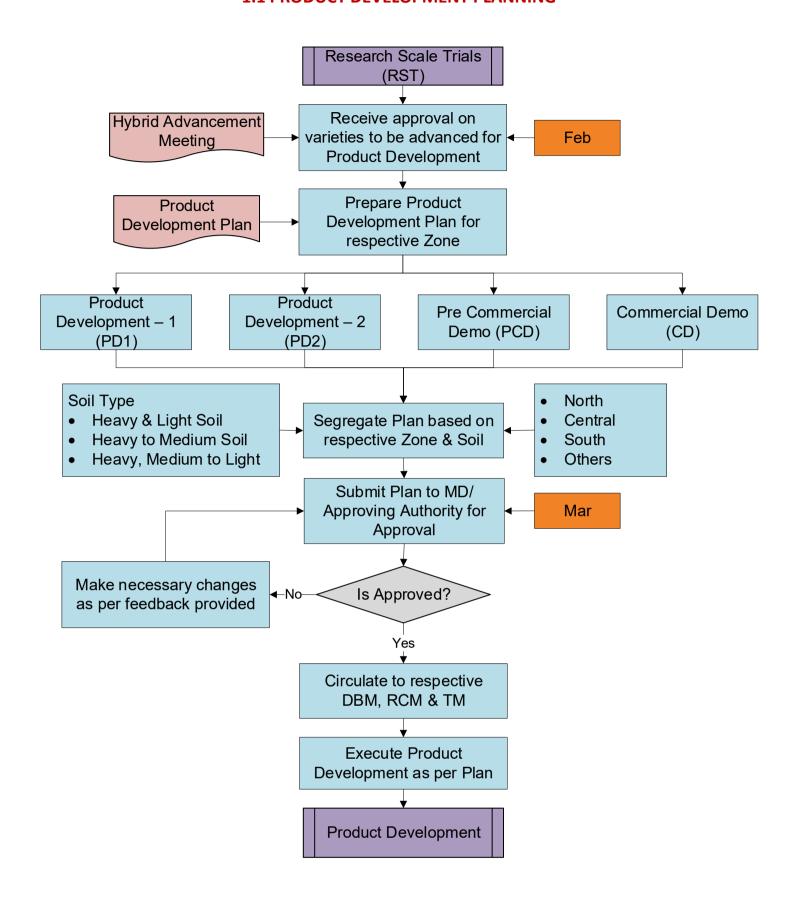
# **Key Documents / Register / Files**

S no	Document / Register Name	Document Format	Document Reference
1	Hybrid Advance Report (Previous Year)	Word/PPT	PDD/COM/001
2	Product Development Plan	Excel	PDD/COM/002
3	Soil Test Report	External Document	-
4	Field Visit Report	Pre-Printed Form	PDD/COM/003
5	Farmer Agreement	Pre-Printed Form	PDD/COM/004
6	PD Seed Indent	System Generated	PDD/COM/005
7	Defined Field Layout	Design	PDD/COM/006
8	Product Development Tracker Sheet	Excel	PDD/COM/007
9	PD Trial Data Sheet	Pre-Printed Form	PDD/COM/008
10	Crop Tour Feedback	Excel	PDD/COM/009
11	Hybrid Advancement Report	PPT/Excel	PDD/COM/010





## 1.1 PRODUCT DEVELOPMENT PLANNING







National Product Development Manager - NPDM

## **Departments Involved:**

Product Development R&D Sales & Marketing Finance & Accounts

- 1.1.1 Preparation of Product Development Plan
- 1.1.2 Finalizing of PD Plan

Process	Maker	Checker	Approver		
1.1.1 Preparation of Product Development Plan					
After Hybrid Advancement Meeting, receive approval on	NPDM	-	Management		
varieties to be advanced for Product Development					
during Feb					
Prepare following Product Development Plan for respective Zone	NPDM	GM S&M	-		
<ul> <li>Product Development – 1 (PD1)</li> </ul>					
<ul> <li>Product Development – 2 (PD2)</li> </ul>					
Pre-Commercial Demo (PCD)					
Commercial Demo (CD)					
3) Segregate Product Development Plan based on Zone,	NPDM	GM S&M	-		
Soil & Irrigation					
Zone Wise					
North Division 1					
North Division 2					
Central Zone					
South Zone					
Others					
<u>Soil Type</u>					
Heavy & Light Soil					
Heavy to Medium Soil					
<ul> <li>Heavy, Medium to Light</li> </ul>					
Irrigation Type					
<ul> <li>Support Irrigated &amp; Closer Spacing</li> </ul>					
<ul> <li>Support Irrigated &amp; Rain fed,</li> </ul>					
<ul> <li>Support Irrigated, Rainfed &amp; Closer Spacing</li> </ul>					
4) Submit Plan to MD/ Approving Authority for Approval	NPDM	GM S&M	MD/		
during March					



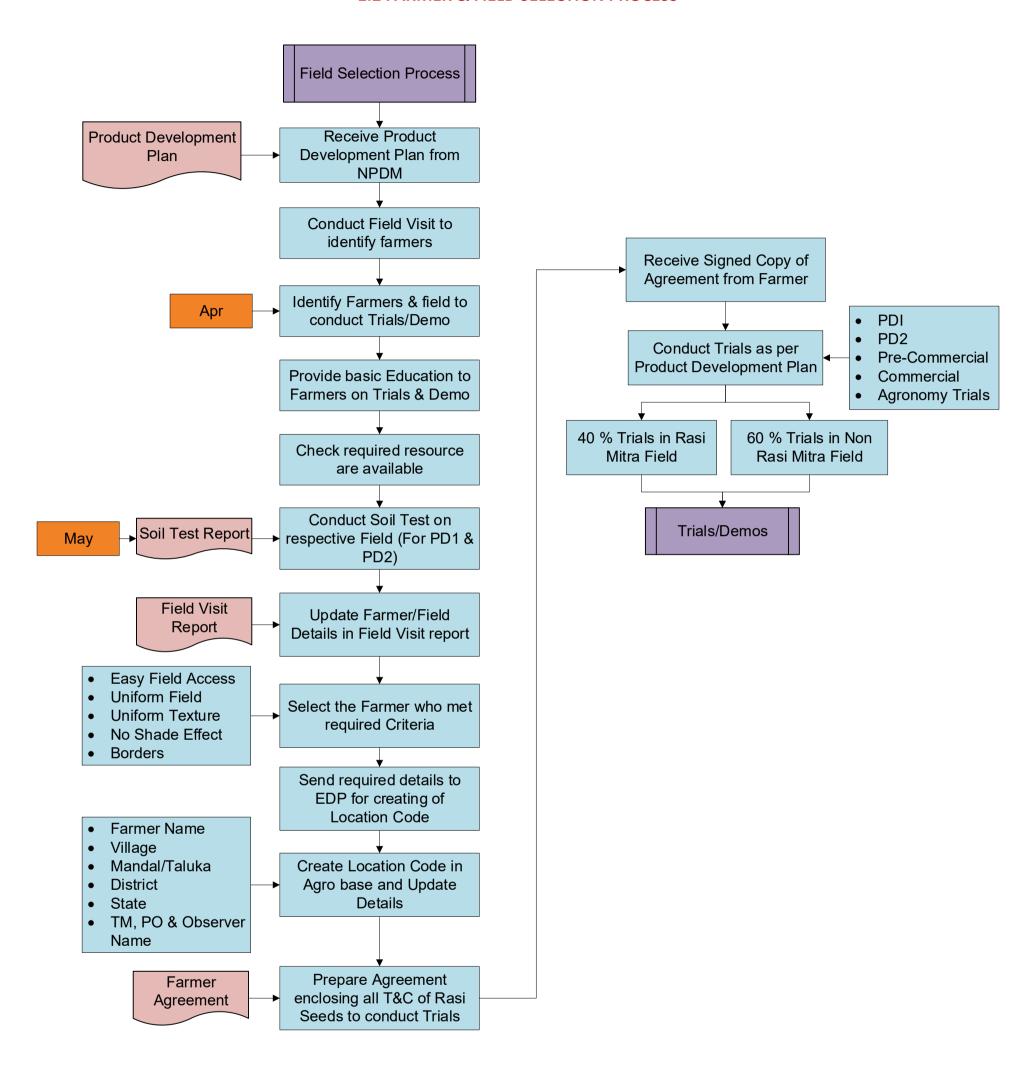


		•	SEEDS
Process	Maker	Checker	Approver
			Approving Authority
1.1.2 Finalizing of PD Plan			
5) On Approval, circulate to respective DBM, RCM & TM. In case on not approved by MD, make necessary changes as per feedback provided.	NPDM	GM S&M	MD/ Approving Authority
6) Execute Product Development as per Plan	NPDM	GM S&M	-





## 1.2 FARMER & FIELD SELECTION PROCESS







RBM/DBM NPDM

# **Departments Involved:**

Product Development Sales & Marketing

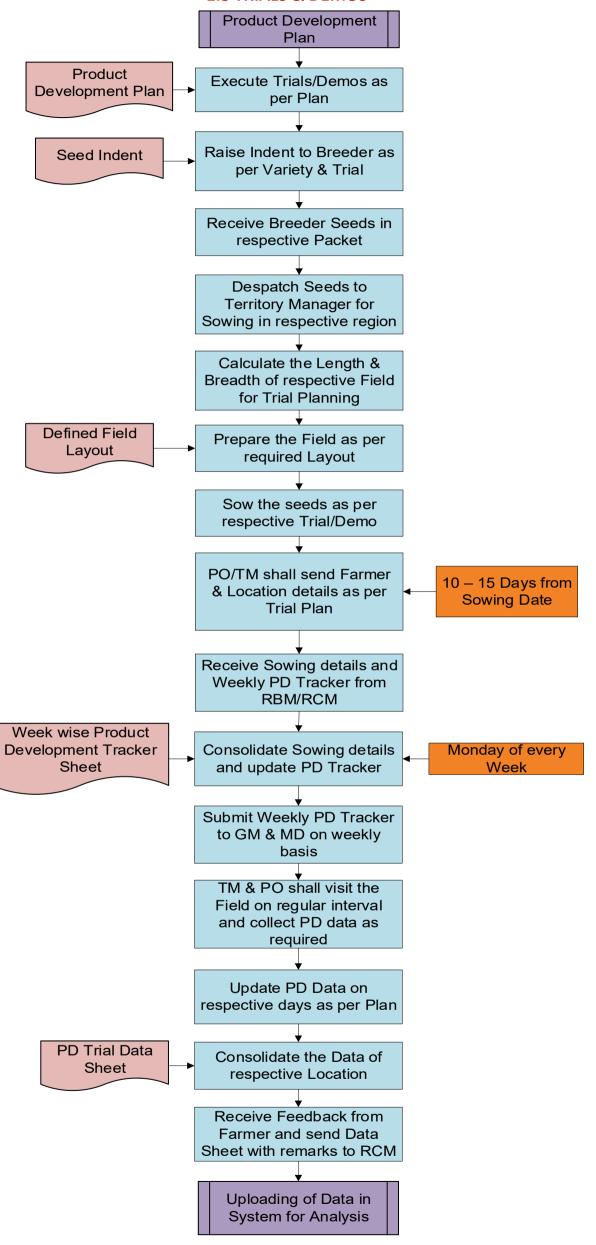
- 1.2.1 Field Visit
- 1.2.2 Farmer Selection Process

Activity	Maker	Checker	Approver
1.2.1 Field Visit			
Receive Product Development Plan from NPDM	NPDM	GM S&M	-
2) Conduct Field Visit to identify farmers to conduct	RBM/DBM	NPDM	-
Trials/Demo			
3) Provide basic Education to Farmers on Trials & Demo	RBM/DBM	NPDM	-
4) Ensure required resource are available to conduct Trials	RBM/DBM	NPDM	-
& Demo			
5) Conduct Soil Test on respective Field – Only for PD1 &	RBM/DBM	NPDM	-
PD2.			
6) Update Farmer/Field Details in Field Visit report	RBM/DBM	NPDM	-
1.2.2 Farmer Selection Process		T	1
7) Select the Farmer who met following required Criteria	RBM/DBM	NPDM	-
Easy Field Access			
> Uniform Field			
> Uniform Texture			
No Shade Effect			
Borders Space Control of the state of the st			
8) Send required details to EDP for creating of Location	NPDM	IT	-
Code in Agro Base			
Farmer Name			
<ul><li>Village</li><li>Mandal/Taluka</li></ul>			
> District			
> State			
> TM, PO & Observer Name			
9) Prepare Agreement enclosing all T&C of Rasi Seeds to	RBM/DBM	NPDM	GM S&M
conduct Trials and receive signed copy of Agreement	KBIVI) BBIVI	IVI DIVI	GIVI SQIVI
from Farmer			
10) Conduct following Trials as per following Product	NPDM	GM S&M	-
Development Plan			
40 % Trials in Rasi Mitra Field			
60 % Trials in Non Rasi Mitra Field			





## 1.3 TRIALS & DEMOS







RBM/DBM NPDM

# **Departments Involved:**

Product Development
Sales & Marketing

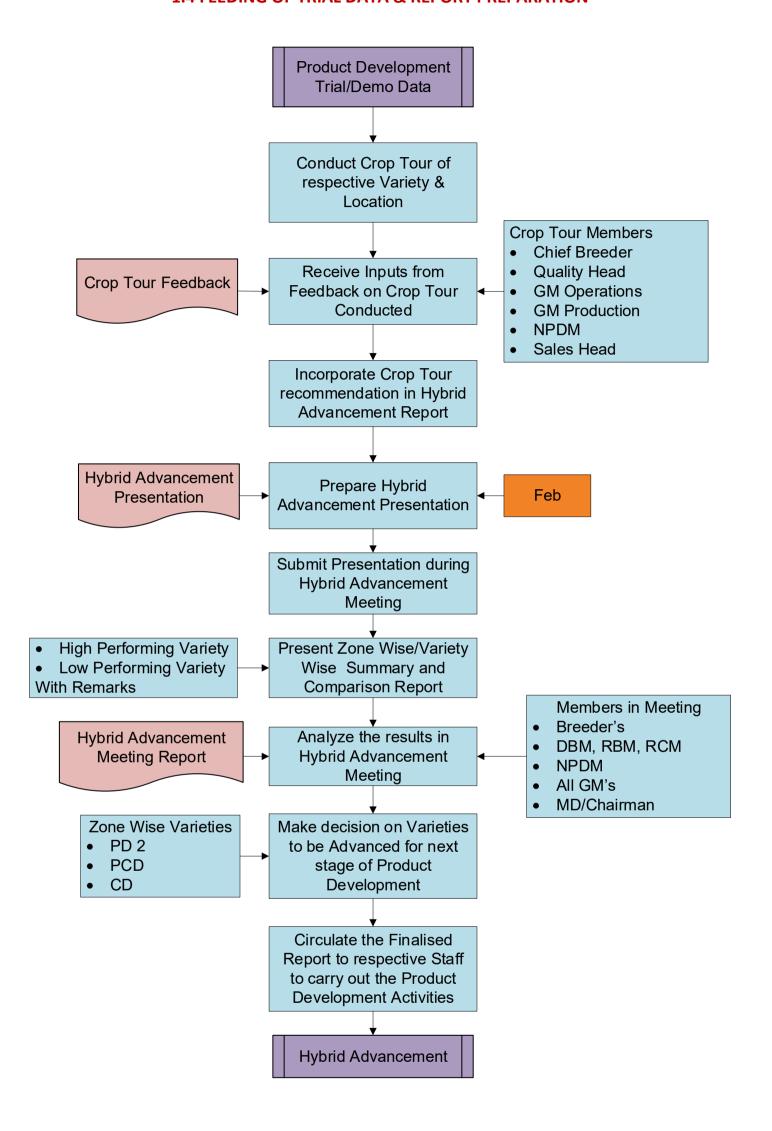
- 1.3.1 Receiving of Breeder Seeds
- 1.3.2 Field Execution
- 1.3.3 Capturing of PD Data

Activity	Maker	Checker	Approver
1.3.1 Receiving of Breeder Seeds			
1) Execute Trials/Demos as per Product Development Plan	RBM/DBM	NPDM	-
2) Raise Indent and receive seeds as per Variety & Trial	TM	NPDM	GM S&M
3) Dispatch Seeds to Territory Manager for Sowing in respective region	-	TM	-
1.3.2 Field Execution			
<ol> <li>Calculate Length &amp; Breadth of respective Field for Trial Planning and ensure the same matches with Defined Field Layout,</li> </ol>	-	TM	-
5) Sow the seeds as per respective Trial/Demo and send Farmer & Location details for PD1, PD2, PCD & CD	-	TM	-
1.3.3 Capturing of PD Data			
6) Receive Sowing details and Weekly PD Tracker from respective RBM/RCM	RBM/RCM	NPDM	-
7) Consolidate Sowing details and update Product Development Tracker	RBM/RCM	NPDM	-
8) Submit Weekly PD Tracker to GM & MD on weekly basis	RBM/RCM	NPDM	-
9) TM & PO shall visit the Field on regular interval and collect PD data as required	TM/PO	NPDM	-
10) Update PD Data on respective Days as per Plan  ➤ Cutoff Date  ➤ Picking Date	RBM/RCM	NPDM	-
11) Consolidate the Data of respective Location from PD trial data sheet	IT	NPDM	-
12) Receive Feedback from Farmer and send Data Sheet with remarks to RCM	RBM/RCM	NPDM	-





## 1.4 FEEDING OF TRIAL DATA & REPORT PREPARATION







IT Executive NPDM

# **Departments Involved:**

ΙT

NPDM

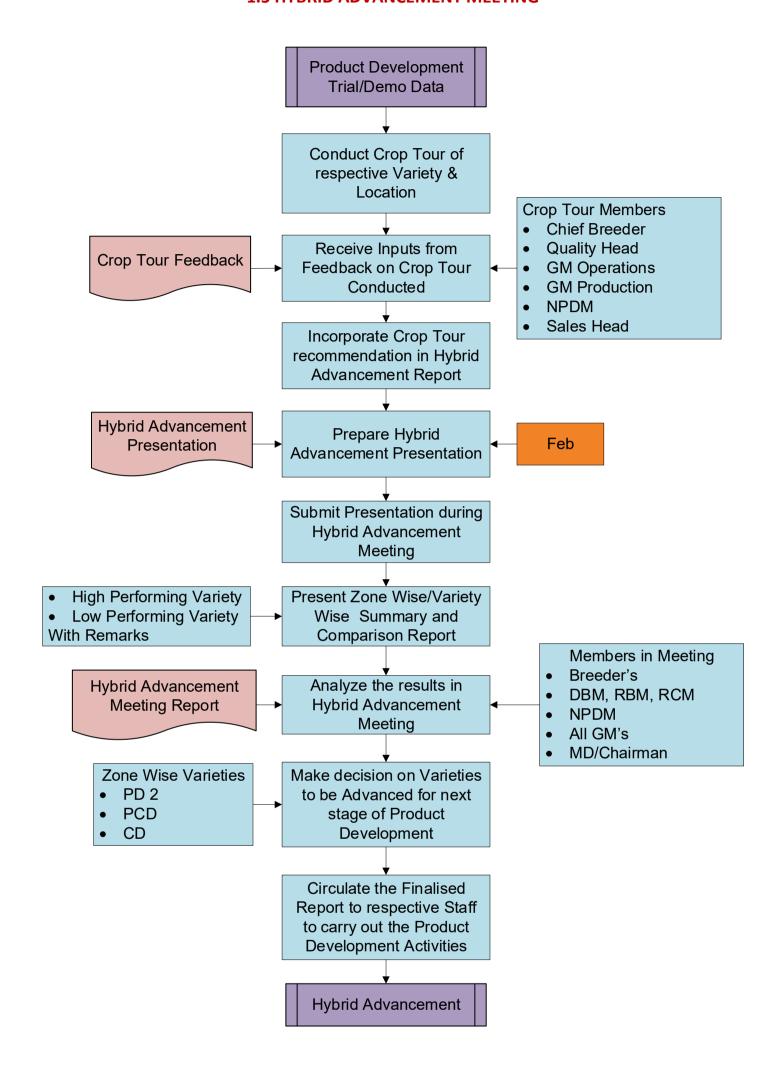
- 1.4.1 Consolidation of Trial Data
- 1.4.2 Feeding of Data in to Agrobase
- 1.4.3 Extraction of Report

Activity	Maker	Checker	Approver
1.4.1 Consolidation of Trial Data		'	•
1) Receive consolidated Trial/ Demo Data from respective	TM	NPDM	-
Locations within 10 days from Last Picking Date			
2) Ensure all Primary Data has been filled in Data Sheet and	IT	NPDM	-
Check Data received for Single Location or Multi Location			
3) Make necessary corrections in Header of Data Sheet to	IT	NPDM	-
maintain Uniformity and Upload the same in Agro base			
Software as per respective Trial.			
1.4.2 Feeding of Data in to Agrobase			
4) Run Agro base Report based on Data uploaded and	IT	NPDM	-
analyze overall performance of each Variety based on			
parameters			
5) Compare respective Variety performance with	IT	NPDM	-
Competitor Hybrid			
1.4.3 Extraction of Report			
6) Extract Performance Report based on following	IT	NPDM	-
weightage of respective Parameters			
Easy to Pick			
Stay Green			
➤ Jassid			
➤ Thrips			
➤ Boll Weight			
Yield etc.			
7) Summarize variety wise performance and prepare Hybrid	IT	NPDM	-
Advancement Report			





## 1.5 HYBRID ADVANCEMENT MEETING







**NPDM** 

## **Departments Involved:**

**Product Development** 

R&D

Sales & Marketing

Finance & Accounts

- 1.5.1 Crop Tour
- 1.5.2 Preparation & Submission of Hybrid Advancement Report
- 1.5.3 Hybrid Advancement Meeting

Activity	Maker	Checker	Approver
1.5.1 Crop Tour			
Organize PD Crop Tour and intimate respective Members to join.	NPDM	GM S&M	-
Chief Breeder			
Quality Head			
GM Operations			
GM Production			
➤ NPDM			
Sales Head			
2) Receive Variety/Location Wise feedback of Crop Tour	Respective	NPDM	-
from respective Member	HOD		
3) Consolidate the feedback received and include as	NPDM	GM S&M	-
parameter for Hybrid Advancement			
1.5.2 Preparation & Submission of Hybrid Advancement Report			
4) Prepare Hybrid Advancement Presentation and submit	NPDM	GM S&M	-
during Hybrid Advancement Meeting			
5) Present Zone Wise/Variety Wise Summary Report with	NPDM	GM S&M	-
Remarks			
High Performing Variety			
Low Performing Variety			
1.5.3 Hybrid Advancement Meeting			
6) Analyze results in Hybrid Advancement Meeting with	NPDM	GM S&M	-
respective Members			
Breeder's			
▶ DBM, RBM, RCM			
➤ NPDM			
➤ All GM's			
MD/Chairman			
7) Make decision on Varieties to be Advanced for next stage	NPDM	GM S&M	MD
of Product Development			
8) Circulate Finalized Report to respective Staff to carry out	NPDM	GM S&M	-
the Product Development Activities			





