PAIRVI

Traditional Knowledge based Calendar for Farmers

Crop: Pulses and Oilseed

CALENDAR 2021

In the year 2020 under the project FAO (ITPGR) BSF-IV Cycle Project for India, PAIRVI experienced many things that "Every seed has a season, depending on the wind, soil moisture, rain and humidity conditions. Season-specific planning is important in rainfed/rice fallow farming". This calendar is the result of our project activities in 2020 and collection of knowledge spread in tribal community in the project site of five states.

Note:

- Calendar applicable for Rainfed Agriculture
- First calendar release date- 13 April 2021 (on Gudi Padwa 2021) for the re-introductions of the varieties

Important Note: All the data only for project sites under FAO (ITPGR) BSF-IV Cycle, if any farmer / farmer community used this data. PAIRVI and other associated institutions will not be responsible /liable for any type of damage.

Weather and Seasons link with Regional Festivals:

Madhya Pradesh (Dhar)

For Project Site at M.P.

A. Season – May to September

S.	Crop Name	Suitable Sowing time	Early Sowing	Traditional Knowledge:
No.	_			Indicator
1	Pulse:	Low risk;	Insect -less,	-One /Two days Before of
	1. Arhar	susceptible for Insect	high risk-	Jagannath Yatra / Harisen
			Rohini Naksh-	Festival
	Millet:	Jaganath Yatra	Tra/ Nautapa 25 th May	
	1. Makka,	and Harisen	to June	-Ganga Dussehra/Ganga
	2. Jawar	comes with		Dashmi-1 June (start) to 10
		"One- or two-Days Rain"	"One- or two-Days Rain"	June 2020– people believe that
		(19-20th June 2020)		MP project site will receive
			2021	rain in these 10 days.
		2021	_After Nautapa	_
		Jagannath Yatra_	_Trial Farm-1	- Nautapa/ Rohini is famous in
		Trial Farm -2	+	M.P., Bihar and Jharkhand
		+	New Passbook – 5	Project Site.
		New Passbook -5	Previous A/c -5	

		Previous A/c-5	For Makka	
2	Pulses:		After 10-20 days of	
_	1. Moong,		the yatra, site receive	
	2. Chawla and		"3-5 Days Rain"	
	3. Urad		5-7 days before	
	Oilseed		Haryali Teez	
	1. Groundnut		(21 July 2020)	
			2021	
			Before_Haryali	
			Teez_ Trial Plot-3	
			New Passbook-5	
			Previous A/c -5	
3	Pulses: 1. Moong,	Site receive Bhado's Rain		-After Bhado's Rain; -Flowering should start after
	2. Chawla and	"20-22 Days / Continues		Bhado's rain,
	3. Urad,	Rain"		
	Oil:	(8-22 August 2020)		-During the Pod one rain receive in Vishkarma poja.
	1. Groundnut,	15-20 day later from		"5 Days Rain"
	2. White Til,	Rakhi		(M.P. project site receives 8-10
	3. Niger/Ramtil, 4. Linseed	(3 August 2020)		days before the Pooja) (16 September 2020)
	T. Liniscou	2021		
		After Bhado		
		Rain_Trial Plot-4		
		New Passbook5		
		Previous A/c -5		

B. Season: September to October: Soyabean Fallow Area

S.	Crop Name	Soyabean Fallow Area	NA -	Traditional Knowledge:
No.		Sowing Time		Indicator

1.	Pulses:	Rain Receive during		-
	1. Chana	Vishkarma poja.		Rain receives during
	2. Masoor/ Red	"5 Days Rain"	NA-	Vishkarma poja.
	Lentil	(project site receives 5-3	IVA-	"5 Days Rain"
	3. Mustard	days before the Pooja)		(project site receives 5-3 days
	4. Pea	(16 September 2020)		before the Pooja)
				(16 September 2020)
	Millet/Coarse:	2021		
	1. Barley	After		
	1. Barrey	Vishavkarma		
	Oil:	Rain_Trial Plot-1		
	011	to 4		
	1. White Til,	+		
	2. Black Til	New Passbook20		
	3. Niger/Ramtil,	Previous A/c -10		
	4. Linseed	rievious A/C -10		

CROP CALENDER 2021-22 PAIRVI

BIHAR (Jamui) & JHARKHAND (Deoghar)

For Project Site: Bihar and Jharkhand:

A. Season: May to September

S.	Crop Name	Sowing time -I	Sowing time-II	Traditional
No.		Upper Barren Land	Upper Barren Land	Knowledge: Indicator
1	Pulse:	Rohini Naksh-	Jaganath Yatra	-Jagannath Yatra
	1. Arhar	Tra/ Nautapa 25 th May	and Harisen	-Harisen Festival
	And	"One- or two-Days Rain"	come with	(Harisen is famous in
	2. Moong		"One- or two-Days Rain"	Jharkhand and Bihar)
	3. Kudrum	2021	(22-25th June 2020)	
	4. Ghaghra	After Nautapa/Rohini		- Nautapa/ Rohini is
		Trial Farm-1	2021	famous in M.P., Bihar
		For Pulses	Before Jagannath Yatra	and Jharkhand Project
	Millet:	1. Makka	Trial Farm -2	Site.
	1. Makka,	+	For Pulses:	
	2. Jawar	New Passbook – 5	1. Arhar	
		Previous A/c -5	And	
			2021	
			After Jagannath Yatra	
		Climate Change Impact	Trial Farm -3	
		Note:	For Pulse:	
		1. Rain due to 2021's first	1. Moong	
		cyclone was formed in the	2. Kudrum	

		Arabian Sea 15-18 May and 2. Rain due to cyclone in bay of bangal in 25 th to 29 th May. 3. Rath yatra and monsoon does not have gap like 2020. 4. Soil has enough moisure So discission were taken that Crop will show in 2 June: 1. Makka 2. Arhar 3. Moong 4. Kudrum 5. Ghaghra 6. Jawar	3. Ghaghra + New Passbook -20 Previous A/c-10	
		o. Jawar 7. Ragi		
	Crop Name		Sowing time-III Upper Barren Land	- Traditional Knowledge: Indicator
2.	Oil 1. Groundnut		After 10-20 days of the yatra, site receive "3-5 Days Rain" 5-7 days before Haryali Teez 2021 Before Haryali Teez Trial Farm-4 Oil: 1. Groundnut + New Passbook-10 Previous A/c -10	- Haryali Teez - Shravan rain
	Crop Name	Sowing time -IV Upper Barren Land		Traditional Knowledge: Indicator
3	Pulses: 1. Urad, 2. Kulthi Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil, 4 Red Til	Site receive Bhado's Rain "10-12 Days / Continues Rain" (8-22 August 2020) 2021 After Bhado Rain Trial Plot-5 + New Passbook20 Previous A/c -10		-Bhado's Rain; -Rakhi/ It is the border line between Shravan and Bhado rain Singh Nakshtra is the famous in Bihar and Jharkhand project site

B. Season: September to October:

Note: Pulses and Oilseed crops are sowing in upper barren and sloppy land, parallel with major crop soyabean and rice in lower land. In relay cropping sowing in rice fields with the rice.

S.	Crop Name	Sowing Time – V	Sowing Time-VI	Traditional
No.		Upper Barren Land	Relay Cropping	Knowledge: Indicator
1.	Pulses: 1. Kulthi Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil Relay Cropping: 1. Tisi/Linseed 2. Khesari	Rain Receive during Vishkarma poja. "5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020) 2021 After Vishwakarma Rain Trial Farm-1 to 4 Pulses: 1. Kulthi Oilseed:Til, Niger + New Passbook20 Previous A/c -10	10 Days before Durga pooja 2021 Before Durga Poja Rain Trial Farm-5 Relay Cropping: 1. Tisi/Linseed 2. Khesari + New Passbook20 Previous A/c -10	Rain receives during Vishwakarma poja. "5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020)

C. Season: October-November | Rice Fallow Area

S. No.	Crop Name	Rice Fallow Area Sowing Time - VII	NA -	Traditional Knowledge: Indicator
1.	Pulses: 1. Chana 2. Masoor/ Red Lentil 3. Pea Millet/Coarse: 1. Barley Oil: 1. Linseed 2. Mustard	Rain Receive during Durga poja. "1-2 Days Rain" (22 Oct 2020) 2021 After Durga Pooja Rain Trial Farm-1 to 4 + New Passbook40 Previous A/c -10	NA-	- Chhath puja - Deepawali - Durga pooja Durga pooja comes with "1-2 Days Rain"

CHHATTISGARH (Bilaspur)

For Project Site: Chhattisgarh

A. Season – May to September

S.	Crop Name	Suitable Sowing time	Early Sowing	Traditional Knowledge:
No. 1	Pulse: 1. Arhar Millet: 1. Makka, 2. Jawar	Low risk; susceptible for Insect Jaganath Yatra and Harisen comes with "One- or two-Days Rain" (19-20th June 2020) 2021 Jagannath Yatra_ Trial Farm -2 + New Passbook -5	Insect -less, high risk- Rohini Naksh- Tra/ Nautapa 25 th May to June "One- or two-Days Rain" 2021 _After Nautapa _Trial Farm-1 + New Passbook - 5 Previous A/c -5	Indicator - Nautapa - 9 - Makka after Rain 12- 15 June - RathDityita - Haryali Tiz Arhar + Kulthi after 8 days - 10-12 sharad varsha
2	n i	Previous A/c-5	For Makka	
2	Pulses: NO		After 10-20 days of the yatra, site receive Continues Rain" "Shravan" 5-7 days before Haryali Teez (21 July 2020) 2021 No Trial Plot + New Passbook-5 Previous A/c -5	-"Hariyali Teez" Festival is famous in Chhattisgarh project site.
3	Pulses: 1. Moong, 2 Urad/Black Gram Sowing 7 days later from moong: 3. Masoor 4. Kulthi Oil: 1. Groundnut	Site receive Bhado's Rain "8-10 Days Rain" (8-22 August 2020) 15-20 day later from Rakhi (3 August 2020) 2021 After Bhado Rain_Trial Plot-4 New Passbook5	Kunwar season - after Bhado rain / September - Urad > Moong, > Onhari (Dalhan) Fasal – Chana	-After Bhado's Rain; -Flowering should start after Bhado's rain, -During the Pod one rain receive in Vishkarma poja. "5 Days Rain" (M.P. project site receives 8-10 days before the Pooja) (16 September 2020)

	Previous A/c -5	

B. Season: September to October:

Note: Pulses and Oilseed crops are sowing in upper barren and sloppy land, parallel with major crop soyabean and rice in lower land. In relay cropping sowing in rice fields with the rice.

S. No.	Crop Name	Upper Barren Land Sowing time	Relay Cropping Sowing time	Traditional Knowledge: Indicator
NO.		Sowing time	For Tisi/ Linseed and Khesari Only	Indicator
1.	Pulses: 1. Chana	Rain Receive during Vishkarma poja.	"5 Days Rain"- Vishvkarma Pooja	- Rain receives during
	2. Masoor/ Red Lentil 3. Kulthi	"5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020)	20-22 Days later From Rain	Vishkarma poja. "5 Days Rain" (project site receives 5-3 days
	4. Pea 5. Barley	2021	2021 After	before the Pooja) (16 September 2020)
	Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil, 4. Linseed	After Vishavkarma Rain_Trial Plot-1 to 4 New Passbook20	Vishavkarma Rain_Trial Plot-5 + New Passbook20 Previous A/c -10	
		Previous A/c -10		

C. Season: October-November | Rice Fallow Area

S.	Crop Name	Rice Fallow Area	NA -	Traditional Knowledge:
No.	_	Sowing Time		Indicator

1.	Pulses:	Rain Receive during		-
	1. Chana	Durga poja.		Rain receives between Durga
	2. Masoor/ Red	"1-2 Days Rain"	NA-	poja and deepawali
	Lentil	(22 Oct 2020)	IVA-	"2 Days Rain"
	3. Mustard			
	4. Pea	2021		
		After Durga Pooja		
	Millet/Coarse:	Rain_Trial Plot-1		
	1. Barley	to 4		
		+		
	Oil:	New Passbook40		
	1. White Til,	Previous A/c -10		
	2. Black Til			
	3. Niger/Ramtil,			
	4. Linseed			

CROP CALENDER 2021-22 PAIRVI

West Bengal (North) (Murti)

For Project Site: West Bengal (North)

A. Season: May to September

S. No.	Crop Name	Sowing time -I Upper Barren Land		Traditional Knowledge: Indicator
1	Pulse: 1. Arhar Month of May last or June first week	Rohini Naksh- Tra/ Nautapa 25 th May "One- or two-Days Rain" 2021 After Cyclone Rain (Bay of Bangal) Trial Farm-1 For Pulses 1. Makka – Elephant issue		- Nautapa/ Rohini is famous in M.P., Bihar and Jharkhand Project Site Cyclone in bay of bengal comes with rains in West Bengal and Chhattisgarh.
		2. Arhar		
	Crop Name		No Sowing	- Traditional Knowledge: Indicator
2.	No crop July and August Mandua with Rice		Continues Shravan Rain after 7-8 days of Rath Yatra No Trial Farm	- Haryali Teez - Shravan rain

(Crop Name	Sowing time -II Upper Barren Land	Traditional Knowledge: Indicator
	Pulses: 1. Moong WITH TIL-nov dec. 2 Urad/Black Gram - Red (fruit good) and black Sowing 7 days later from moong: 3. Masoor – Oct before harvesting – Relay cropping 4. Kulthi / chetti – Cattle issue Millet 1. Ragi /Mandua with Rice August Last week or First week of September	Site receive Bhado's Rain "10-12 Days / Continues Rain" (8-22 August 2020) 2021 After Bhado Rain Trial Farm-2 7 days Gaps in Crop: Urad, Moong>Masoor, Kulthi	-Bhado's Rain; -Rakhi/ It is the border line between Shravan and Bhado rain Singh Nakshtra is the famous in Bihar and Jharkhand project site

B. Season: September to October:

Note: Pulses and Oilseed crops are sowing in upper barren and sloppy land, parallel with major crop soyabean and rice in lower land. In relay cropping sowing in rice fields with the rice.

S.	Crop Name	Sowing Time – III	Sowing Time-IV	Traditional Knowledge:
No.				Indicator
		Upper Barren Land	Relay Cropping	

1. **Pulses:** Rain Receive after 10 Days before Rain receives during 1. Masoor/ Red Vishkarma poja. Durga pooja Vishwakarma poja. Lentil "5 Days Rain" "5-8 Days Rain" 2. Pea 2021 (project site receives 5-3 3. Barley Before Durga Poja Rain days before the Pooja) 2021 **Trial Farm-4** (16 September 2020) After Vishavkarma Rain Trial Oil: **Relay Cropping:** Farm -3 1. White Til, 1. Tisi/Linseed 2. Black Til 2. Khesari New Passbook--20 3. Niger/Ramtil Previous A/c -10 Relay **October First Week Cropping:** 1. Tisi/Linseed 2. Khesari Mid October Last week of **September**

C. Season: October-November | Rice Fallow Area

S.	Crop Name	Rice Fallow Area	NA -	Traditional Knowledge:
No.		Sowing Time V		Indicator
1.	Pulses:	Rain Receive during Durga		- Chhath puja
	1. Chana	poja.		- Deepawali
	2. Masoor/ Red	"1-2 Days Rain"	27.4	- Durga pooja
	Lentil	(22 Oct 2020)	NA-	Durga pooja comes with
	3. Pea			"1-2 Days Rain"
		2021		
	Millet/Coarse:	After Durga Pooja Rain		
	1. Barley	Trial Farm-5		
		+		
	Oil:	New Passbook40		
	1. Linseed	Previous A/c -10		
	2. Mustard			
	First Week of			
	November			

D. Season: Feb/March to May (Sowing Time-VI)

- Garma Moong
- Til / Sesame
- Groundnut
