

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

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

S. No.	Crop Name	Suitable Sowing time	Early Sowing	Traditional Knowledge: Indicator
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	-One /Two days Before of Jagannath Yatra / Harisen Festival -Ganga Dussehra/Ganga Dashmi-1 June (start) to 10 June 2020– people believe that MP project site will receive rain in these 10 days. - Nautapa/ Rohini is famous in M.P., Bihar and Jharkhand Project Site.

		Previous A/c-5	For Makka	
2	Pulses: 1. Moong, 2. Chawla and 3. Urad Oilseed 1. Groundnut		After 10-20 days of the yatra, site receive “3-5 Days Rain” ----- 5-7 days before Haryali Teez (21 July 2020) ---- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 Before Haryali Teez Trial Plot-3 </div> + New Passbook-5 Previous A/c -5	
3	Pulses: 1. Moong, 2. Chawla and 3. Urad, Oil: 1. Groundnut, 2. White Til, 3. Niger/Ramtil, 4. Linseed	Site receive Bhado’s Rain “20-22 Days / Continues Rain” (8-22 August 2020) ----- 15-20 day later from Rakhi (3 August 2020) --- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 After Bhado Rain Trial Plot-4 </div> + New Passbook--5 Previous A/c -5		-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)

B. Season: September to October: Soyabean Fallow Area

S. No.	Crop Name	Soyabean Fallow Area Sowing Time	NA -	Traditional Knowledge: Indicator
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1.	Pulses: 1. Chana 2. Masoor/ Red Lentil 3. Mustard 4. Pea Millet/Coarse: 1. Barley Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil, 4. Linseed	Rain Receive during Vishkarma poja. "5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020) --- <div style="border: 1px solid black; padding: 5px; text-align: center;"> 2021 After Vishavkarma Rain_Trial Plot-1 to 4 </div> + New Passbook--20 Previous A/c -10	NA-	- Rain receives during Vishkarma poja. "5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020)
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CROP CALENDER 2021-22 PAIRVI

BIHAR (Jamui) & JHARKHAND (Deoghar)

For Project Site: Bihar and Jharkhand:

A. Season: May to September

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

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

		<p>Arabian Sea 15-18 May and 2. Rain due to cyclone in bay of bangal in 25th to 29th May. 3. Rath yatra and monsoon does not have gap like 2020. 4. Soil has enough moisture So discission were taken that</p> <p>Crop will show in 2 June: 1. Makka 2. Arhar 3. Moong 4. Kudrum 5. Ghaghra 6. Jawar 7. Ragi</p>	<p>3. Ghaghra</p> <p style="text-align: center;">+</p> <p style="text-align: center;">New Passbook -20 Previous A/c-10</p>	
	Crop Name		Sowing time-III Upper Barren Land	- Traditional Knowledge: Indicator
2.	Oil 1. Groundnut		<p>After 10-20 days of the yatra, site receive “3-5 Days Rain” ----- 5-7 days before Haryali Teez ----</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>2021 Before Haryali Teez Trial Farm-4</p> </div> <p>Oil: 1. Groundnut</p> <p style="text-align: center;">+</p> <p style="text-align: center;">New Passbook-10 Previous A/c -10</p>	<p>- Haryali Teez - Shravan rain</p>
	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	<p>Site receive Bhado’s Rain “10-12 Days / Continues Rain” (8-22 August 2020) ---</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>2021 After Bhado Rain Trial Plot-5</p> </div> <p style="text-align: center;">+</p> <p style="text-align: center;">New Passbook--20 Previous A/c -10</p>		<p>-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</p>

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	Sowing Time – V		Sowing Time-VI	Traditional Knowledge: Indicator
		Upper Barren Land	Relay Cropping		
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) --- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 After Vishwakarma Rain Trial Farm-1 to 4 </div> Pulses: 1. Kulthi Oilseed: Til, Niger + New Passbook--20 Previous A/c -10	10 Days before Durga pooja ---- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 Before Durga Poja Rain Trial Farm-5 </div> Relay Cropping: 1. Tisi/Linseed 2. Khesari + New Passbook--20 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) --- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 After Durga Pooja Rain Trial Farm-1 to 4 </div> + New Passbook--40 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

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

S. No.	Crop Name	Suitable Sowing time	Early Sowing	Traditional Knowledge: Indicator
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) ---- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 Jagannath Yatra Trial Farm -2 </div> + New Passbook -5 Previous A/c-5	Insect -less, high risk- Rohini Naksh- Tra/ Nautapa 25 th May to June “One- or two-Days Rain” ---- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 After Nautapa Trial Farm-1 </div> + New Passbook – 5 Previous A/c -5 For Makka	- Nautapa - 9 - Makka after Rain 12- 15 June - RathDityita - Haryali Tiz- - - Arhar + Kulthi after 8 days - 10-12 sharad varsha -
2	Pulses: NO		After 10-20 days of the yatra, site receive “Continues Rain” ----- “Shravan” 5-7 days before Haryali Teez (21 July 2020) ---- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 No Trial Plot </div> + New Passbook-5 Previous A/c -5	-“Hariyali Teez“ Festival is famous in Chhattisgarh project site.
3	Pulses: 1. Moong, 2 Urad/Black Gram <i>Sowing 7 days later from moong:</i> 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) --- <div style="border: 1px solid black; padding: 2px; text-align: center;"> 2021 After Bhado Rain Trial Plot-4 </div> + New Passbook--5	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		
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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 For Tisi/ Linseed and Khesari Only	Traditional Knowledge: Indicator
1.	Pulses: 1. Chana 2. Masoor/ Red Lentil 3. Kulthi 4. Pea 5. Barley Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil, 4. Linseed	Rain Receive during Vishkarma poja. "5 Days Rain" (project site receives 5-3 days before the Pooja) (16 September 2020) --- <div style="border: 1px solid black; padding: 5px; text-align: center;"> 2021 After Vishavkarma Rain_Trial Plot-1 to 4 </div> + New Passbook--20 Previous A/c -10	"5 Days Rain"- Vishvkarma Pooja 20-22 Days later From Rain ---- - <div style="border: 1px solid black; padding: 5px; text-align: center;"> 2021 After Vishavkarma Rain_Trial Plot-5 </div> + New Passbook--20 Previous A/c -10	- Rain receives during Vishkarma 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	NA -	Traditional Knowledge: Indicator
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1.	Pulses: 1. Chana 2. Masoor/ Red Lentil 3. Mustard 4. Pea Millet/Coarse: 1. Barley Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil, 4. Linseed	Rain Receive during Durga poja. “1-2 Days Rain” (22 Oct 2020) --- <div style="border: 1px solid black; padding: 5px; text-align: center;"> 2021 After Durga Pooja Rain_Trial Plot-1 to 4 </div> + New Passbook--40 Previous A/c -10	NA-	- Rain receives between Durga poja and deepawali “2 Days Rain”
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CROP CALENDER 2021-22

PAIRVI

West Bengal (North) (Murti)

For Project Site: West Bengal (North)

A. Season: May to September

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

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” ---- <div style="border: 1px solid black; padding: 5px; text-align: center;"> 2021 After Cyclone Rain (Bay of Bangal) Trial Farm-1 </div> For Pulses 1. Makka – Elephant issue 2. Arhar		- 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.
	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
3	<p>Pulses: 1. Moong WITH TIL-nov dec. 2 Urad/Black Gram - Red (fruit good) and black</p> <p><i>Sowing 7 days later from moong:</i> 3. Masoor – Oct before harvesting – Relay cropping 4. Kulthi / chetti – Cattle issue</p> <p>Millet 1. Ragi /Mandua with Rice</p> <p>August Last week or First week of September</p>	<p>Site receive Bhado's Rain "10-12 Days / Continues Rain" (8-22 August 2020) ---</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>2021 After Bhado Rain Trial Farm-2</p> </div> <p>7 days Gaps in Crop: Urad, Moong>Masoor, Kulthi</p>		<p>-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</p>

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	Sowing Time – III Upper Barren Land	Sowing Time-IV Relay Cropping	Traditional Knowledge: Indicator
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1.	Pulses: 1. Masoor/ Red Lentil 2. Pea 3. Barley Oil: 1. White Til, 2. Black Til 3. Niger/Ramtil Relay Cropping: 1. Tisi/Linseed 2. Khesari Last week of September	Rain Receive after Vishkarma poja. “5-8 Days Rain” --- 2021 After Vishavkarma Rain Trial Farm -3 + New Passbook--20 Previous A/c -10 October First Week	10 Days before Durga pooja ---- 2021 Before Durga Poja Rain Trial Farm-4 Relay Cropping: 1. Tisi/Linseed 2. Khesari Mid October	- Rain receives during Vishwakarma poja. “5 Days Rain” (project site receives 5-3 days before the Pooja) (16 September 2020) -
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C. Season: October-November | Rice Fallow Area

S. No.	Crop Name	Rice Fallow Area Sowing Time V	NA -	Traditional Knowledge: Indicator
1.	Pulses: 1. Chana 2. Masoor/ Red Lentil 3. Pea Millet/Coarse: 1. Barley Oil: 1. Linseed 2. Mustard First Week of November	Rain Receive during Durga poja. “1-2 Days Rain” (22 Oct 2020) --- 2021 After Durga Pooja Rain Trial Farm-5 + New Passbook--40 Previous A/c -10	NA-	- Chhath puja - Deepawali - Durga pooja Durga pooja comes with “1-2 Days Rain”

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

- Garma Moong
- Til / Sesame
- Groundnut
