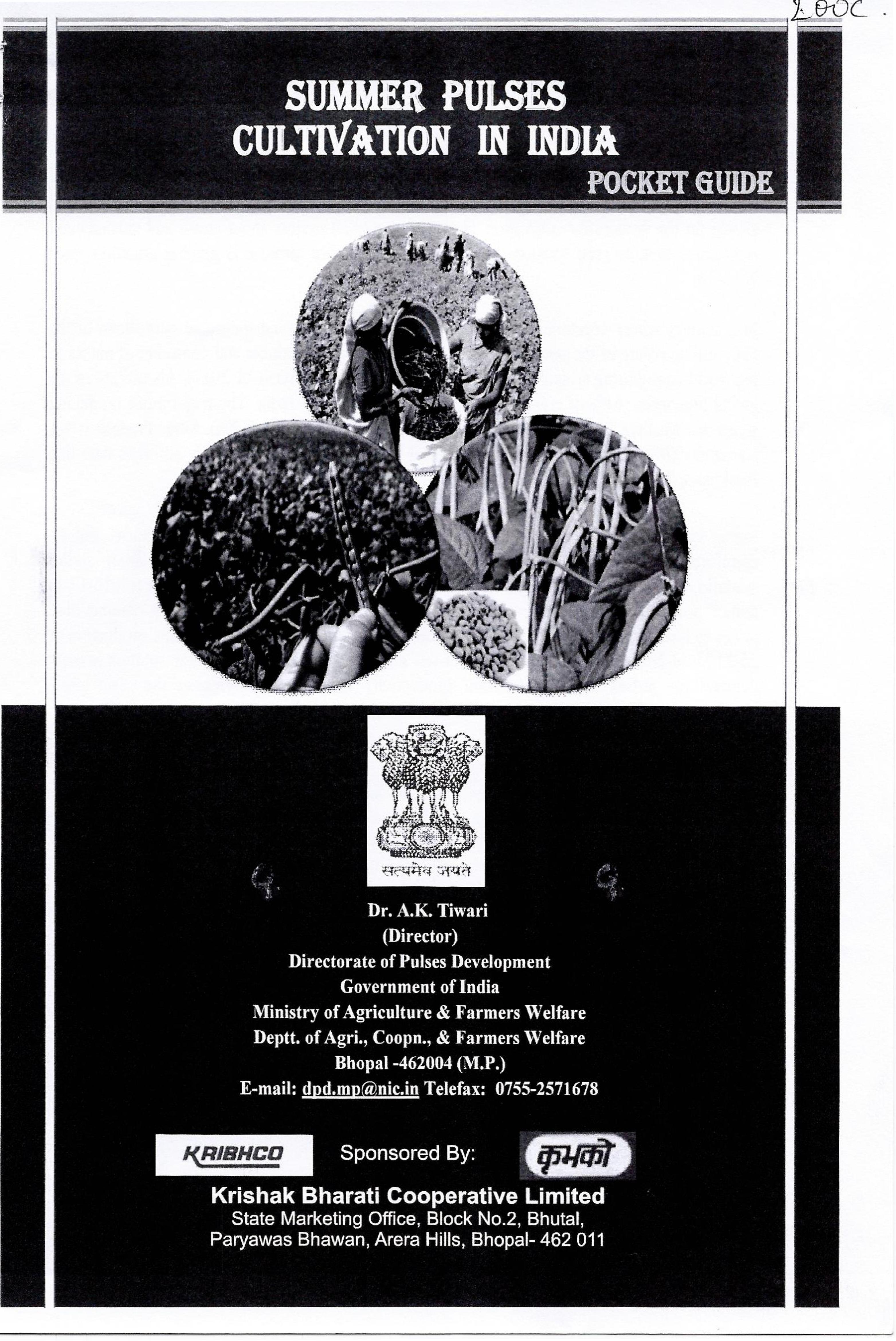
**KI JINGTHUNG KYNJA RYMBAI, MATOR, PRESBIN, DAI, SHANA BA REP HA KA AIOM LYIUR HA RI INDIA**

**Ka POCKET GUIDE**

Ba la iarap pynmih da ka:



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Ka ioh ka kot jong ka Ri India ka dei khambun namar ka rep ka riang. Khambun na ki nongrep ka Ri India ki sngewtynnad bad kham shitrhem ha ka ban rep ia u Kba ne u Kew lane ki mar rep kum u Kynphad, u Pai, u Rymbai ktung bad kiwei kiwei de. Ban rep ia ki mar kum ki kynja dai, shana, rymbai ka long ka kam ka ba bud ba ar ne kaba hadien. Hynrei, namar ki jingtip kiba thymmai ha kaba ia dei bad ka jing pynkhie im ia ka koit ka khiah ka khyndew lyngba ki buit kum ka jingpynkylla ia ki jaitjingthung ha ki lyngkha rep, ka jingrep khleh lang bunjait ki jingthung ha ka juh ka por, bad kiwei kiwei, ka jingrep ia ki Jingthung Symbai Pulse- kynja rymbai, dai ne shana ka lah sdang thied aba na ki nongrep ki la ia sdang pyniar naduh ki snem 204-15.

1. **Ka jinglamphrang**

**KI JINGTHUNG LAM SYMBAI KUM KI RYMBAI KI DAI- KA JINGREP IA KI HA KI BNAI LYIUR**

Ha ka ri ha kaba ia ka rukom bam tang ia ki kynja jhur la pynshlur, kine ki jingthung symbai Pulse ki dei ki bynta ba kongsan jong ka jingbam na ka bynta ki nongshong shnong ki ba duk ka Ri. Ka Ri India ka dei ka Ri kaba jur tam eh ha ka jing pynmih bad ban bam ia kine ki jait jingthung symbai Pulse ha ka pyrthei kaba kot sha ka 26 na ka 100 ha ka jingpynmih ka Pyrthei(FAOSTAT,2017). Kumba 72 na ka 100 jong ka jaka rep ia u symbai Pigeonpea, 61 na ka 100 u shana kulai bad 16 na ka 100 ki kynja dai ka pyrthei ki dei hapoh ka Ri India. Ki jylla ba kham jur ha ka jingpynmih ia ki symbai Rymbai ne dai ki dei ka Madhya Pradesh (33 na ka 100), Maharashtra (13 na ka 100), Rajasthan (12 na ka 100), Uttar Pradesh (9 na ka 100), Karnataka (8 na ka 100), Andhra Pradesh (5 na ka 100), Gujarat (4 na ka 100) bad ka 16 na ka 100 ka ba sah pat ka dei ha ki jylla Jharkhand, Tamil Nadu bad Telangana bad kiwei kiwei de.

Ka rep ka riang ha ka Ri India ka shaniah skhem tang ha u slap mariang ka aiom lyiur ban lah pynmih ia ki mar rep ki ba donkam. Na kane ka daw, ka jingpynmih bad ka dor jong kine ki jait jingthung symbai Pulse ka iapher na ka por sha ka por katkum ka jingioh slap. Ka sorkar Kmie ka Ri, na kane ka daw ka lah pynbiang ia ka jingpyllang kyrpang ba kham tam ia kine ki mar rep naduh ki snem 2016-17 khnang ban lah ban the lakam ia ka jingkylla palat ka dor bad ruh ban pyntikna ia ka jingdon kine ki jait mar rep ha la ka por. Kane ka lah iarap ruh ia ki nongrep ban ioh ia ka dor iew kaba iahap. Ka Ri India ka dei ka Ri ka ba pynmih ia kine ki jait symbai Pulse ba bun tam eh ha ka pyrthei, ha kaba ka jingpynmih ba kyllum ka Ri ka kot sha ka 25.23 Mt ha ki snem 2017-18 bad kane ka la lah ban pynlong ia ka Ri ha ka sien ba nyngkong eh ban biang bad dap ia kine ki symbai Pulse. Ka jingkhmih lynti ia ka jing dap jingbiang kine ki jait symbai Pulse ha ki ia kip or ban dang wan kan shong eh ha ka jing kiew ka jingmih kine ki mar rep da kaba weng noh ia ki dieng pyngkiang kiba lah ban khang ia ka jingmih, da kaba pynmlien ia ka jingthung khleh lang ia kine ki jait mar rep lem bad kiwei patde ki mar rep bad kumjuh da kaba rep ia kine ki symbai Pulse ha ki aiom pyr-em/ lyiur.

**1.1 Ka Jingdonbynta ha ka jingpynmih ia ki jait jingthung symbai Pulse (2017-18)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jingheh jaka** | Baroh ki symbai Pulse: >29 Mha (24 na ka 100 na baroh ki jait symbai ba long bam)  Aiom Lyiur : >14 Mha ( 20 na ka 100 na baroh ki jait symbai Lyiur ba long bam) Aiom Tlang : >16 Mha (29 na ka 100 jong ki ki jait symbai Tlang ba long bam)  Ka aiom syaid/ lyiur : >1 Mha | | | | |
| **Jingpynmih** | Baroh ki symbai Pulse: > 25 MT (9 na ka 100 na baroh ki jait symbai ba long bam)  Aiom Lyiur : > 9 MT (7 na ka 100) -, Aiom Tlang >15 MT (11 na ka 100);  Ka aiom pyr-em/ lyiur (kumba: 01 .MT) | | | | |
| **Jingdon bynta ha kaba ia dei bad kiwei ki mar rep (%)** | | | | | |
| **Aiom Lyiur** | **Jingheh jaka** | **Jingpynmih** | **Aiom Tlang** | **Jingheh jaka** | **Jingpynmih** |
| **Baroh ki symbai Pulse** | 47 | 37 | **Total Pulses** | 53 | 63 |
| **U Tur** | 31 | 46 | **Shana kulai** | 66 | 71 |
| **U Dai Mung** | 23 | 15 | **U Dai Mung** | 06 | 04 |
| **U Urd** | 32 | 30 | **U Urd** | 06 | 05 |
| **U Kulthi \*** | 02 | 01 | **U Kulthi** | 01 | 01 |
| Jingheh ka jaka rep por lyiur: Baroh 1.25 Mha  U Mungbean (69 naka 100), U Urdbean (29 naka 100) U bhori/Cowpea/Avare/Kulthi (2 naka 100) | | | **U dai stem** | 10 | 10 |
| **U Mator\*** | 06 | 06 |
| **U Lath** | 03 | 02 |

Jingtip la lum na: DES, Govt. of India (2017-18, IVth Estimates); \* Normal (2012-13 to 2016-17)

**2.0 Ka jingkongsan ka rep ia ki symbai Pulse ha ka aiom Zaid (Pyr-em/ Lyiur)**

**KI JINGTHUNG LAM SYMBAI KUM KI RYMBAI KI DAI- KA JINGREP IA KI HA KI BNAI LYIUR**

Ban pynbiang ia ka jingdawa ia ki jingbam Pulse ka Ri; ban pynbha ia ka koit ka khiah ka khyndew/ bad ka jing iai bteng ka jingpynmih ka ba biang; ban kham pynjanai ia ka jingpyndonkam ia ki jingai ka mariang; ka jing pyn kham janai ia ka buit Green Manuring ban pynsboh khyndew; ban pyntreikam ia ki kabu bym ju kham pyndonkam(Pyr-em, Lyiur/ ka jing ieh shrah ia ki lyngkha kba); ka jingpynkiew ia ka rukom rep ia ka jaka bad ka jingiarap ha ka ban pynkiew arshah ia ka ioh ka kot u nongrep; bad kiwei kiwei de, ka long ka jingkongsan ha ka ba rep ia kine ki symbai Pulse ha ki aiom Pyr-em/ Lyiur lane aiom Zaid.

**2.1 Ki por rep ia ki symbai Pulse ha ki jylla bapher bapher na ka bynta ka aiom Zaid**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Jylla** | **Por rep/ thung** |
| 1 | Assam | March (B) — March (E) |
| 2 - | Andhra Pradesh | March (B)-April (M) |
| **3** | Bihar | March (E) — April (M) |
| 4 | Chhattisgarh | March(M)-April (B) |
| 5 | Gujarat | March(M)-April (B) |
| 6 | Haryana | March(M)-April (B) |
| 7 | Jharkhand | March (B)-April(M) |
| 8 | Karnataka | February (E)- April (B) |
| 9 | Madhya Pradesh | March (M)-April (B) |
| 10 | Maharashtra | March (B)-April (B) |
| 11 | Odisha | March (B)-April (M) |
| 12 | Punjab | March (M)-April(M) |
| 13 | Rajasthan | March (B)-April (B) |
| 14 | Tamilnadu | March (B)-April (M) |
| 15 | Telangana | March(M)-April(M) |
| 16 | Uttar Pradesh | March(M)-April (B) |
| 17 | West Bengal | March (B) — April (B) |

*B: Por sdang, M: Pdeng, E: Ba kut*

**3.0 Ki rukom rep ba kham iahap bad biang katkum ki jylla**

|  |  |
| --- | --- |
| **Jylla** | **Ka rukom rep** |
| MP, Punjab, Haryana, | Kba-Kew-U dai iong / Mung /U Urd/Bhori |
| Odisha, TN, AP, Karnataka, Kerela | Kba - U dai iong / Mung / U Urd |
| Bihar | Kba –Riewhadem+Phan-Mung/ U Urd / Bhori |
| U.P, M.P. | Kba - Phan - U dai iong / Mung / U Urd / Bhori |
| Rajasthan, M.P, U.P, C.G. | Kba -Tyrso- U dai iong / Mung / U Urd / Bhori |
| M.P, UP, Raj., Bihar | Riewhadem - Kew - U dai iong / Mung /Urd/ Bhori |
| A.P, T.N, Gujarat | Ieh shrah-Duma- U dai iong / Mung / U Urd / Bhori |

**3.1 Ki jaka ba kham iahap ban rep ia ki jingthung lam symbai kum ki rymbai ki dai ha ka aiom Pyr-em/ Lyiur katkum ki Jylla:**

**KI JINGTHUNG LAM SYMBAI KUM KI RYMBAI KI DAI- KA JINGREP IA KI HA KI BNAI LYIUR**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Ki jingthung ba kham iahap por Lyiur** | **Jingthung ba bud/ jingthung ban rep khleh lang** | **Ki jaka ba kham iahap** |
| 1 | U dai Mung: Rep tang ia u por pyr-em/ por lyiur kum u jingthung pynioh nong(hap ai um) | Kew, Tyrso, Phan, Mator buh symbai | U.P. , Haryana, Punjab, Bihar, West Bengal, **M.P.**  ( Jingheh jaka 11.11 Lha) |
| 2 | U dai mung lyiur (Ba pynbiang um rep) | Kba | New delta Tamil Nadu ,Odisha (Jingheh jaka **2.00 Lha)** |
| en | U dai mung lyiur /U Urd (ha ki pynthor kba ba ieh shrah) | Thung khleh bad u kba tlang | East -West Godawari, AP, Krishna, , Kaveri delta Tamil Nadu  **(Jingheh jaka 0.80 Lha)** |
| 4 | U dai mung lyiur baa p um na u slap | Kew, tyrso, Phan, Duma, Kba palat aiom(Aman) | T.N., Gujarat, North Bihar, Odisha  **(Jingheh jaka 2.22 Lha)** |
| 5 | U Urd (Ba pynbiang um rep) | Kew, Shana kulai, Phan, Mator | M.P., U.P.  (**Jingheh jaka 0.95 Lha)** |
| 6 | U Bhori (Ba pynbiang um rep) | Kew, Kba, Phan , Tyrso | Odisha, Tamil Nadu, Karnataka (**Jingheh jaka 0.47 Lha)** |

***(Lum jingtip na : Pulses in India*** *: Retrospect & Prospects-2018)*

**4.0 Ki Jingthung lam symbai motor, dai, presbin ka aiom Zaid bad ki Jylla ba pynmih ha Ri India**

Ha India, 11 tylli ki jylla ba kham kongsan kata ka Madhya Pradesh, Uttar Pradesh, Karnataka, Bihar, Odisha, T.N., West Bengal, Chhattisgarh, Andhra Pradesh, Jharkhand, Gujarat ki rep ia ki symbai pulse ha ka aiom Pyr-em/ Lyiur/ Zaid. Ki jingthung ba rep ki long u mungbean (69 na ka 100*)* bad u urdbean (29 naka 10) bad bud pat da u Bhori/ Avare lane u Kulthi ha ki jaka ba 2 naka 100 ba dang sah. U dai Mung, U Urd bad u Bhori ki dei ki jingthung ba lyngkot ka rta bad la pyndonkam ia ki ha ki jingshet kiba bun jait ban kham pynbang bad ki kham ioh dor bha.

**Haba kyllum lang, ki jylla baroh ba pynmih ha baroh ki lai aiom :**

|  |  |
| --- | --- |
| **Jingthungg** | **Ki Jylla bad ka jing donbynta** |
| **U dai Mung** | Rajasthan (38 naka 100), MP (13 naka 100), MS (8 naka 100), Karnataka **(6** naka 100**),** Bihar (5 naka 100), AP (5 naka 100), Odisha , Gujarat & TN (mar 4 naka 100), Telangana |
| **U Urd** | **MP** (37 naka 100), Raj. (15 naka 100), AP (11 naka 100), UP (9 naka 100), TN (8 naka 100), Jharkhand (3 naka 100), MS (4 naka 100), Gujarat (2 naka 100)+ |

**4.1 Jing noh synniang ki mar rep - Ki symbai Pulse Lyiur**

*(Jingheh jaka : ha ki Lak hektar)*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Jylla** | **2017** | | | **2018** | | | **Jing noh synniang (%) 2017** | | |
| **U dai Mung** | **U Urd** | **Baroh** | **U dai Mung** | **U Urd** | **Baroh** | **U dai Mung** | **U Urd** | **Kiwei** |
| **Bihar** | 2.95 | - | 2.95 | 1.47 | - | 1.47 | 100 | - | - |
| Odisha | 1.57 | 0.47 | 2.14 | 0.99 | - | 1.02 | 73 | 22 | 5 |
| TN | 0.67 | 1.64 | 2.31 | 0.98 | 1.33 | 2.39 | 29 | 71 | 0 |
| UP | 0.76 | 0.59 | 1.36 | 0.76 | 0.64 | 1.40 | 56 | 43 | 1 |
| **MP** | 1.19 | 0.32 | 1.51 | 0.76 | 0.16 | 0.92 | 79 | 21 | 0 |
| WB | 0.59 | 0.03 | 0.62 | 0.73 | 0.13 | 0.86 | 95 | 5 | 0 |
| **Gujarat** | 0.31 | 0.08 | 0.40 | 0.30 | 0.08 | 0.38 | 78 | 20 | 3 |

*bteng....*

*(Jingheh jaka : ha ki Lak hektar)*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Jylla** | **2017** | | | **2018** | | | **Jing noh synniang (%) 2017** | | |
| **U dai Mung** | **U Urd** | **Baroh** | **U dai Mung** | **U Urd** | **Baroh** | **U dai Mung** | **U Urd** | **Kiwei** |
| CG | 0.10 | 0.08 | 0.18 | 0.12 | 0.10 | 0.22 | 56 | 44 | 0 |
| AP | 0.25 | 0.38 | 0.74 | 0.03 | 0.04 | 0.15 | 34 | 51 | 15 |
| Jharkhand | 0.04 | - | 0.04 | 0.03 | - | 0.03 | - | - | - |
| Karnataka | 0.01 | 0.01 | 0.09 | 0.01 | 0.01 | 0.09 | 11 | 11 | 78 |
| Assam | - | - | 0.00 | 0.001 | 0.002 | 0.003 | - | - | - |
| Other | 0.19 | 0.01 | 0.22 | - | - | 0.02 | 86 | 5 | 9 |
| Total | **8.63** | **3.61** | **12.52** | **6.17** | **2.48** | **8.94** | **69** | **29** | **2** |

*Buh jingtip: Dai Mung 69 naka 100. U Urd-29 naka 100 bad kiwei 2 naka 100 ( Avare, Kulthi ha Odisha, Guj. AP , Karnataka) Ki jylla dai Mung -Bihar. Odisha, MP. UP. WB. Gujarat. CG; Ki jylla u Urd - TN, UP, MP, Odisha* **(Jingtip na:** WWWR-Summer„ DPD, Govt. of India, Bhopal )

**4.2 Ki jaka ba kham bha ba lah pyntreikam ban rep aiom Lyiur**

*(Jingheh jaka : ha ki Lak hektar)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Jylla** | **Ki jaka pynmih symbai Pulse por Pyr-em/ Lyiur** | | | **Jaka baroh\*** | | |
| **Ka jingheh ka jaka ba kham biang** | **Ka jingpyndonkam ia ki jaka ba kham bha 2016-18** | **Ba man ka por\*** | **2017** | **2018** | **2019  Khmih lynti** |
| **1** | Bihar | 6.35 | 2.95 | 1.57 | 2.95 | 1.47 | 2.50 |
| 2 | Madhya Pradesh | 4.00 | 1.67 | 1.78 | 1.51 | 0.92 | 3.67 |
| 3 | Uttar Pradesh | 4.00 | 1.56 | 1.53 | 1.36 | 1.40 | 3.00 |
| 4 | Tamil Nadu | 3.00 | 2.39 | 2.06 | 2.31 | 2.39 | 2.66 |
| 5 | Odisha | 2.75 | 2.14 | 1.58 | 2.14 | 1.02 | 2.50 |
| 6 | West Bengal | 1.25 | 0.86 | 0.48 | 0.61 | 0.86 | 0.81 |
| 7 | Andhra Pradesh | 1.25 | 0.74 | 0.74 | 0.74 | 0.15 | 2.00 |
| 8 | Haryana | 1.00 | 0.18 | 0.18 | 0.00 | 0.00 | 0.16 |
| 9 | Gujarat | 0.75 | 0.43 | 0.48 | 0.40 | 0.38 | 0.49 |
| 10 | Jharkhand | 0.75 | 0.40 | 0.058 | 0.04 | 0.03 | 0.05 |
| 11 | Chhattisgarh | 0.50 | 0.22 | 0.18 | 0.18 | 0.22 | 0.25 |
| 12 | Punjab | 0.50 | 0.39 | 0.39 | 0.14 | 0.00 | 0.50 |
| 13 | Karnataka | 0.25 | 0.19 | 0.14 | 0.09 | 0.09 | 0.21 |
| 14 | Assam | 0.05 | 0.002 | 0.002 | 0.00 | 0.00 | - |
| 15 | Maharashtra | 0.05 | 0.02 | 0.019 | 0.02 | 0.02 | 0.04 |
| 16 | Others | 3.35 | - | 0.68 | 0.09 | 0.05 | 1.66 |
|  | **Total** | **29.80** | **14.14** | **10.1** | **12.58** | **8.94** | **20.50** |

*30 Lak hektar ba lah shah pynkylla noh da u kew/ Mator, phan, pai, u lathyrus, lah ban rep noh pat ha ki aiom Pyr-em/ Lyiur*

**Jingtip na**: DPD Govt. of India, Bhopal; \*WWWR-Summer, \*Man ka por: (jinglang kyllum. 2013 haduh 2016).

**5.0 Jingjied ia ki jait symbai**

Katkum ka jinglong jingman ka rukom rep ba lap, ka por thung bad ka tyllong um rep, ki jait ba lyngkot ka rta ki pyntikna ia u jingthung ba bud bad ym tang ba u iada ia u jingthung lada jia u slap ba kloi khlem samoi hynrei ka pynduna ruh ia ka jingsniew u symbai ba ioh lum bad ka jingspeh jong ki symbai kynja kba. Na kine ki daw, ki jait symbai Lyiur dei ban jied kiba don ka jingsan kaba bha ha ka por sdang bad kiba san kloi ha ki 25-35 sngi khnang ba ki lah ban khie bad san shwa ka jingphuh syntiew.

**5.1 Ki jait symbai u Mungbean na ka bynta ka Lyiur**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)**  **,** | **Ki jinglong** |
| Pusa Vishal | 2000 | NWPZ | 62-65 | 11-12 | Lah ban shah ia ka MYMV |
| HUM 2 (Malviya Jagriti) | 2000 | UP. UK | 67-69 | 10-11 | Mod. Lah ban shah ia ka MYMV |
| PDM 139 (Samrat) | 2001 | UP | 60-65 | 10-12 | Lah ban shah ia kaYMV |
| Gujarat Mung 4 | 2001 | Gujarat | 65-68 | 10-14 | Lah ban shah malu mala ia kaYMV |
| SML 668 | 2002 | Punjab | 60-62 | 11-13 | Lah ban shah ia kaMYMV |
| Pant Mung 5 | 2002 | UP. UK | 60-65 | 14-15 | Lah ban shah ia kaMYMV |
| HUM 12  (Malviya Janchetna) | 2003 | NEPZ | 60-62 | 11-12 | Lah ban shah malu mala ia ka MYMV, CLS |
| IPM 02-3 | 2003 | NWPZ | 62-68 | 11-12 | Lah ban shah ia kaMYMV |
| Meha (IPM 99-125) | 2004 | NEPZ | 66-68 | 9-10 | Lah ban shah ia kaMYMV |
| TMB 37 | 2005 | NEPZ | 65-67 | 11-12 | Lah ban shah ia kaMYMV |
| HUM 16  (Malviya Jankalyani) | 2006 | NEPZ | 55-58 | 10-11 | Lah ban shah ia kaMYMV |
| TJM 3 | 2007 |  | 65-70 | 9-10 | Lah ban shah ia kaPM, YMV and CLS |
| IPM 2-14 | 2010 | SZ | 60-65 | 11-13 | Lah ban shah ia kaMYMV |
| SML 832 | 2010 | Punjab | 60-65 | 10-11 | Lah ban shah ia MYMV & khniang Thrips |
| MH 421 | 2012 | NWPZ | 60-62 | 12-13 | Lah ban shah ia kaMYMV |
| IPM 410-3 (Shikha) | 2016 | NWPZ and CZ | 60-65 | 11-13 | Lah ban shah ia kaMYMV |
| IPM 205-7 (Virat) | 2016 | MP, CG & SZ | 50-55 | 12-14 | Lah ban shah ia kaYMV |
| LBG 787 | 2016 | SZ | 70-75 | 13-14 | Lah ban shah ia kaPowdery Mildew |
| MH 318 | 2016 | Haryana | 60-65 | 10-14 | Lah ban shah bha ia ka MYMV, well under rice wheat rotation |
| WGG 42 (Yadadri ) | 2016 | Telangana | 55-60 | 10-12 | Lah ban shah ia kaMYMV |
| MGG-351(Sri Rama) | 2016 | Telangana | 60-65 | 12-14 | Moderately Lah ban shah ia kaMYMV |
| VBN 8 | 2017 | SZ | 65-75 | 13-14 | Lah ban shah ia kaYMV |
| SGC 16 | 2018 | Assam | 65-70 | 13-14 | Lah ban shah ia kaCLS and YMV Moderately Lah ban shah ia kaWB |
| GAM 5 | 2018 | Gujarat | 60-65 | 18-19 | Khlain bha pyrshah ia ka YMV |

**5.2 Ki jait symbai u Urdbean na ka bynta ka Lyiur**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)**  **,** | **Ki jinglong** |
| ADT-4 | 1991 | Tamil Nadu | 65-70 | 8-9 | Lah ban shah ia kaYMV |
| ADT-5 | 1991 | Tamil Nadu | 65-70 | 8.0 | Lah ban shah ia kaYMV |
| NDU-88-8 Narendra Urd 1 | 1993 | UP | 60-70 | 10-11 | Lah ban shah ia kaYMV |
| LBG 611 | 1995 | Andhra Pradesh | 85-90 | 14-15 | Lah ban shah ia kaWilt |
| Mash 338 | 1996 | Punjab | 85-90 | 9-10 | Lah ban shah ia kaYMV |
| Vamban 2 | 1997 | Tamil Nadu | 60-70 | 10-11 | Lah ban shah ia kaYMV & jingtyrkhong um. |
| TU 94-2 | 1999 | SZ |  | 9-10 | Lah ban shah ia kaYMV |
| KU 91-2 (Azad Urd 1) | 1999 | UP, Bihar, WB. | 80-85 | 10-11 | Lah ban shah ia kaYMV |
| Vamban 3 | 2000 | Tamil Nadu | 65-70 | 8-9 | Lah ban shah ia kaYMV |
| KU 300 (Shekhar 2) | 2001 | Punjab, Haryana. West UP, Rajasthan | 70-75 | 11-12 | Lah ban shah ia kaYMV |

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)**  **,** | **Ki jinglong** |
| KU 309 Shekhar -3 | 2004 | UP | 66-84 | 10-11 | Lah ban shah ia kaYMV. Leaf crinkle, CLS |
| Gujarat-1 | 2004 | Gujarat | 85-90 | 12-13 | Lah ban shah ia ka PM & CLS kat ban biang |
| LBG 709 | 2006 | Andhra Pradesh | 70-75 | 14-15 | Lah ban shah ia kaYMV |
| Vamban 5 | 2007 | Tamil Nadu | 65-70 | 8-9 | Lah ban shah ia kaYMV |
| Pant Urd 31 | 2008 | UP, Raj. AR Odisha, CG, Bihar, | 75-80 | 15-16 | Lah ban shah ia kaYMV |
| WB U-109 | 2008 | West Bengal | 75-80 | 12-13 | Lah ban shah ia kaYMV |
| DU-1 | 2008 | SZ | 80-85 | 14-15 | Mod. Lah ban shah ia ka PM & CLS |
| KU 91(Azad U. 2) | 2009 | UP | 75-80 | 8-9 | Lah ban shah ia kaYMV |
| KUG 479 | 2010 | Punjab, Haryana, West UP, UK | 82-85 | 12-13 | Lah ban shah ia kaYMV and PM |
| Indira U. Pratham | 2016 | Chhattisgarh | 70-75 | 12-13 | Lah ban shah ia ka PM |
| KKM 1 | 2017 | Tamil Nadu | 65-70 | 7-8 | Lah ban shah ia ka LCV. PM |
| ADT 6 | 2017 | Tamil Nadu | 65-70 | 7-8 | Lah ban shah ia ka LCV, PM |
| LBG 623 |  | Andhra Pradesh | 75-80 | 15-17 | Lah ban shah ia ka PM & YMV |
| OBG 17 (Ujala) |  | Odisha | 70-75 | 7-6 | Lah ban shah ia ka PM. YMV. CLS |

**5.3 Ki jait symbai u Bhori na ka bynta ka Lyiur**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)**  **,** | **Ki jinglong** |
| Pant Lobia 1 | 2009 | Uttarakhand | 60-70 | 15-20 | Lah ban shah ia kaYMV bad jingtyrkhong um |
| Pant Lobia 2 | 2010 | Uttarakhand, UP | 75-80 | 20-21 | Lah ban shah kat ban biang ia u khniang dpei, Thrip, Bruchid |
| Hidrudaya | 2010 | Kerela | 50-55 | 10-11 | Lah ban shah ia ka jingpang sarang ki sla, ki khniang dpei, niang sam thliew ha ki soh |
| Hisar Cowpea 46 | 2010 | Haryana | 65-70 | 10-12 | Lah ban shah ia kaYMV bad jingtyrkhong um |
| PKB 6 | 2012 | Karnataka | 80-85 | 10-12 | Lah ban shah ia ka Bacterial leaf blight. Rust & niang sam thliew |
| Pant Lobia-4 | 2015 | Baroh ki jaka ba rep ia u bhori | 60-65 | 14-15 | Lah ban shah ia ka YMV & jingtyrkhong um |
| TPTC-29 (I) | 2016 | SZ | 80-82 | 11 | Lah ban shah ia ka jingpyut ki thied bad YMV |
| Pant Lobia-5 | 2017 | Uttarakhand | 65-70 | 16-20 | Lah ban shah ia ki niang dpei bad thrip, bruchid bad Lah ban shah ia kaCYMV |
| TPTC-29 (Tirupati cowpea-1) | 2017 | AR Karnataka, Tamilnadu, odisha | 80-90 | 10-11 | Lah ban shah kat ban biang ia ka jingpyut thied bad YMV |

**5.4 Ki jait symbai Guar na ka bynta ka Lyiur**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)** | **Ki jinglong** |
| RGC-1066 | 2006 | Rajasthan | 97-100 | 10-14 | Lah ban shah ia ka iap iong bad jingpyut thied. |
| Guar Kunjal  (RGC 1033) | 2010 | Rajasthan | 95-100 | 15-20 | Lah ban shah katban biang ia ka Alternaria leaf blight, iapiong bad jingpyut thied |

**5.5 Ki jait symbai shana kulai na ka bynta ka Lyiur**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Jait symbai** | **Snem ba pynmih** | **Jingheh jaka ba lah rep** | **Ka rta ba san pura(sngi)** | **jingmih (q/ha)** | **Ki jinglong** |
| Pratap Kulthi-2  (AK 53) | 2016 | Raj., CG, MH,  Gujarat & UK | 80-85 | 6-7 | San kham kloi bha. |
| CG kulthi-3 (BHG-03) | 2017 | Chhattisgarh | 85-90 | 5-6 | Lah ban shah ia ka collar rot, powdery mildew bad leaf spot |

*CZ- Central Zone (MP & CG),NWPZ-North Western Plan Zone (Punjab, Haryana. Rajasthan. UP sepngi. J&K,*

*H.P. bad UK, MH, Goa) , NEPZ-North Eastern Plain Zone (UP mihngi., Bihar, Jharkhand, Orissa, West Bengal, Assam bad ki thor ka Shatei lam Mihngi, SZ-South Zone (Andhra Pradesh, Karnataka. Kerala bad Tamil Nadu, Odisha).*

PM- Pow dery Mildew; MYMV-Mungbean Yellow Mosaic Virus; YMV- Yellow Mosaic Virus; CLS­- Cercospora leaf spot; WB-Web Blight. I

*{****Jingtip na****:-Project Coordinator 's Report, AICRP on MULLaRP, 1CAR, IIPR. Kanpur. 2017-18}*

**6.0 Ki kam pynroi hapoh ka NFSM**

Hapoh ka NFSM, naduh ki snem 2012-13, la pyntreikam ia ka prokram kyrpang halor ka jingpyniar ia ka jaka rep ia ki jingthung Pulse ban kham pynmih mar khambun ha ki bnai tlang/ lyiur, ban kham pynkiew ia ka jingmih ki jingthung pulse ba rep por tlang/ lyiur lyngba ka jingpyniar ia ki jaka rep ia u Pigeonpea tlang, u shana kulai, u mator, u dai saw(ha ki lyngkha kba ba ieh shrah) ha ki bnai tlang bad u dai greengram bad dai iong Blackgram ha ki bnai lyiur.

**6.1 Ki prokram ba pyntreikam ha ki jylla katkum ki snem:**

|  |  |  |
| --- | --- | --- |
| **Snem** | **Jylla** |  |
| 2014-15 (15 jylla) | Assam, AP, Bihar, Haryana, Jharkhand, Punjab, Rajasthan, TN, Telangana, UP bad Karnataka, MP, MH, Odisha, WB. | |
| 2015-16 (24 jylla) | Assam, AP, Am. Pradesh, Bihar, CG, Haryana, Karnataka, Manipur, MP, Mizoram, Rajasthan, Sikkim, TN, Telangana, Tripura, HP, J& K, Jharkhand, Nagaland, Odisha,, Punjab, UP, UK bad WB. | |
| 2016-17 & 2017-18 (17 jylla) | Assam, AP, Bihar, CG, Gujarat, Haryana, MS, Odisha, Punjab, Rajasthan, TN, Telangana, Jharkhand, Karnataka, MP, UP, WB. | |
| 2018-19 (15 jylla) | Assam, AP, Bihar, CG, Gujarat, Jharkhand, Karnataka, MP, MS, Odisha, Rajasthan, TN, Telangana, UP, WB. | |

**6.2 Ka jingmang tyngka ha ka NFSM: (Jingmang kyrpang na ka bynta ka -Tlang/ Lyiur)**

*(ha ki Lak tyngka)*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Jylla** | **2016-17** | | | **2017-18** | | | **2018-19  Jingmang** |
| **Jingmang** | **Ba lah pynurlong** | **% Jingpyn**  **lut** | **Jingmang** | **Ba lah pynurlong** | **% Jingpynlut** |
| Andhra Pradesh | 2500 | 1500 | 60 | 3670 | 2800 | 76 | 3300 |
| Bihar | 1200 | 833 | 69 | 1679 | 901 | 54 | 1650 |
| Chhattisgarh | 1600 | 1469 | **92** | 25 75 | 1902 | 74 | 2750 |
| Gujarat | 300 | 0 | 0 | 300 | 64 | 21 | 287 |
| Haryana | 700 | 229 | **33** | 160 | 140 | 87 | - |
| Jharkhand | 600 | 508 | 85 | 1301 | 930 | 71 | 1375 |
| Karnataka | 2900 | 1405 | 48 | 4208 | 4150 | 99 | 4100 |
| Madhya Pradesh | 10100 | 2103 | **21** | 17300 | 3321 | **19** | 16500 |
| Maharashtra | 3700 |  | 0 | 2187 | 2006 | 92 | 1200 |
| Odisha | 852 | 779 | **91** | 1198 | 1198 | 100 | 1375 |
| Punjab | 100 | 0 | 0 | 103 | 60 | 58 | - |
| Rajasthan | 1975 | 1099 | 56 | 6260 | 5005 | 80 | 6050 |
| TamilNadu | 600 | 597 | **100** | 2270 | 2182 | 96 | 2200 |
| Telangana | 300 | 17 | **6** | 484 | 61 | **13** | 652 |
| Uttar Pradesh | 1875 | 520 | 28 | 3435 | 1222 | **36** | 5500 |
| West Bengal | 500 | 472 | 94 | 969 | 842 | 87 | 900 |
| Assam | 900 | 630 | 70 | 1100 | 0 | 0 | 1000 |
| **Baroh** | **30702** | **12161** | **40** | **49199** | **26782** | **54** | **48839** |

Rukom pyntreikam: Lyngkha nuksa(Demo), sam symbai, ka INM/IPM, RCT,MIS.

**Lum jingtip na:** Crops Division, Min. of Agri. & FW (DAC&FW), N. Delhi : Addl. Programme Since 2014-15

**6.3 Kiwei pat ki prokram ai jingkyrshan ban pynroi na ka DAC&FW (2018-19)**

1. Ka Targeting Rice Fallow Area (TRFA) prokram kaba dang iai treikam ha ki 6 tylli ki jylla ka thain mihngi ban kyntiew ia ka rep ha ka aiom Zaid/ lyiur ha ki jaka bal ah jied kyrpang (NFSM-Ki jingthung Pulse bad symbai khniot umphniang)

***Jingmang- T. 163 klur.***

1. Ka prokram kyrpang ban pyniar ia ka jaka hapoh ka NFSM- Pulse ban pynshlur ia ka jingrep ia ki jingthung pulse ha ki bnai Lyiur. ***Jingmang- T. 296 klur ha ki 15 jylla***
2. Ka rep thung khleh ha ki lyngkha/lum ki dieng tlai umphniang (NFSM- Oil Seed & Oil Palm) ***Jingmang- T. 13.50 klur (Oilpalm)ha ki 13jylla***
3. Ka rep thung khleh ha ki lyngkha/lum Pai (NFSM- Pulses) ***Jingmang-*** T. 5.24 klur ha ki 12 jylla
4. Ka Sub-mission halor ki kynja symbai khaw tei met ban pynshlur ia ka rep krai millet-NFSM- Nutri-cereals) ***Jingmang- T. 93.08 klur****,* ***22 jylla: 10 naka 100 ha ka Lyiur***

**7.0 ki jaka ai nuksa ia ka buit (Demonstrations)/ Plan : (Tlang/Lyiur 2018-19)**

(Jingheh jaka- ha ki hektar, tyngka ha ki lak)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Jylla** | **Jingmang tyngka** | | **Baroh ki jaka ba lah mang  (Tlang/Lyiur)** | **Ka jingheh jaka na ka bynta ka lyiur katkum ka jingtyrwa** | | | |
| **Jing ai nuksa  (Pulse Tlang/ Lyiur)** | **Thunghkhleh lang bad u pai** | **Thung shi jait** | **CSBD** | **Thungkhleh** | **baroh** |
| Chhattisgarh | 1534.95 | - | 17055 | - | - | - | - |
| Rajasthan | 5580.00 | - | 62000 | - | - | - | - |
| West Bengal | 580.50 | - | 7500 | - | - | - | - |
| Uttar Pradesh | 4032.00 | 540.45 | 44800 | 14000 | - | 15000 | 29000 |
| Jharkhand | 1224.00 | - | 13600 | 3000 | - | - | 3000 |
| Tamil Nadu | 1460.00 | 26.87 | 17400 | - | 4400 | 1000 | 5400 |
| Bihar | 1072.80 | 53.50 | 11920 | 2400 | - | - | 2400 |
| Odisha | 1287.00 | 3.40 | 14300 | - | - | - | - |
| MP | 11520.00 | 22.95 | 118000 | - | 15000 | - | 15000 |
| Gujarat | 96.57 | 16.57 | 1073 | - | - | - | - |
| Karnataka | 1650.00 | 90.10 | 19000 | - | - | - | - |
| Telangana | 279.54 | 9.29 | 3106 | - | - | - | - |
| AP | 2040.00 | 22.95 | 40800 | - | - | - | - |
| Assam | 630.00 | - | 7000 | 7000 | - | - | 7000 |
| Maharashtra | 90.00 | - | 1000 | - | - | - |  |
| **Baroh ha ka ri India** | **33077.36** | **862.82** | **378554** | **26400** | **19400** | **16000** | **61800** |

New Delhi; *Intercropping with Sugarcane since 2018-19*

**Lum jingtip na**: Crop Division, Min. of Agri. & FW (DAC&FW)

**8.0 Ki mat ba kongsan ban pynurlong na ka bynta ka tnat Agriculture ka sorkar jylla/ ICAR**

* Ka jingpyniaid ia ka MIS kaba biang ban pynbiang umrep ha ka por seisoh.
* Ka jing plie ia ki nala um ba biang(Canal) ban pynbiang/ shim kabu ia ki jaka ba seisoh khnang ban lah ban pynduna ia ka jingduhnong na ka jingtyrkhong um ba bunsien.
* Ka jingbud bad ka jing pynshlur ban rep ia ki jait symbai ba kloi rta (kba, phan, kew, pai) ban pynsangeh/ ialeh ia ka jing speh kloi shwa ban ot ne kheit lada jia ba hap kloi u ‘lap aiom lyiur.
* Ka rukom rep/ ker kut ia ka sawdong da shi tylli ka imlang sahlang da kaba ia treikam lang ne snoh-ktilang bad ka CSR/DMF, MGNREGA bad kiwei kiwei, ban iada ne beh krad ia ki mrad ba pynjulor
* Ka jingpdem ia ki symbai shwa ban thung/ bet da ka FIR bad IPM ban lait na ka jingpynjulor ka Yellow Mosaic Virus ha ki jingthung kynja presbin
* Ban pyntikna ia ka jingioh ia ki symbai ba bha/ ki jait ba kham iahap, da kaba pynbeit ia ka MoU bad ki jaka pynmih symbai ka NFSM (150 tylli)/ ki NFSM-EBSP center (12 tylli).
* Ki IIPR-AICRP, ki SAU ki dei ban khmih bniah halor ka jingpynmih ia ki jait symbai kiba iahap katkum ka jinglong ka jaka khnang ban ioh ban khang ia ki jingeh ka jingduna symbai lyiur.
* Pynbiang ia ka jingai bording ilektrik ban sam umrep.

**9.0 Ki mat ba kongsan ha ka jing pynsaphriang jingtip ban kyntiew ia ka jingmih.**

* Pyndonkam da ki symbai dai Mung ba kyrpang ba lah ban shah ia ka jingkylla ka mariang kum u -PDM-139,Virat (IPM 205-7), MH-421,Shikha (IPM 410-3); Urd- PU-31, Pratap Urd 1.
* **Jingpynbiang umrep ba kongsan:** 2 sien namr ka jingshit bad duna ka jingsngem hawhaw(RH) ha ka por lyiur :

Ba nyngkong: 20-25 shadien ba bet/thung;

Ba ar: ha ka por ba sdang dap met u symbai*(ka rta ba kongsan)*

* **Ka jingbet/thung biang por**:**Pyr-em-** Feb (Kloi)-March (Pdeng);

**Lyiur**-March (Pdeng) -April (Mid)   
**(Katkum ka AES)**

* **Jingpynbiang jing jngai**:March (pdeng) -April (pdeng)- 25-30 cm x 10 cm (u Mung/Urd)

March (kut) to April **(**taiew nyngkong) - 30 cm x 10 cm (Bhori)

* **Jingbun ki tynrai:** 3.3 haduh 4 lak ha ka shi hektar (u Mung/Urd)
* Ki rukom tih/puh khyndew kiba bha/ ki rukom pynsan jingthung kiba biang/- jingpynmadan lyngkha da ki buit Laser, pyndonkam da ki kor bet/ thung ba kyrpang( seed drill/zero tillage) ha ka jingsngem ka khyndew ka ba biang, ka jingieh ia ki jyntang u mar rep ba rim.
* Pyndonkam da ki dawai kynbat ba lah ban pynduna ia ki kynbat shwa ban speh u jingthung (Pendimethalin @ 0.75-1.50 kg ai/ ha) bad bud pat da shisien ka jingthiew kynbat da ka kti katkum ka jingdonkam.
* Ka jingthung khleh ia ki jingthung Pulse lem bad kiwei ki mar rep dondor kum u pai.
* Ka jingpyndonkam hok ia ka jingsngem ka ba don lypa ha ki lyngkha hadien ba lah de pot ia u kba na ka bynta ki jingthung Pulse bad adkar ia ka umrep da ki buit sam um kiba biang.
* Pyndonkam ka sboh Phosphorus haduh 40-50 kilo shi hektar bad ka Sulphur 15-20 kilo shi hektar, khamtam leilei hadien u kew bad da kaba thung khleh bad u pai.
* Ban pynduna ia ki khniang kjit ha u dai mung ha ka por sdang phuh syntiew, pyndonkam da ka Dimethoate 30 EC @ 500 ml shi hektar lane ka Imidacloprid @ 100-125 ml shi hektar.
* Bud ia ka buit pynsboh khyndew INM/ synreit sboh um (19:19:19) *ha ka por phuh syntiew bad sdang met soh/symbai ban pyntngen ia u jingthung.*

**10.0 Ki jingkyntu na ka bynta ban kyntiew ia ka jingmih ha ki aiom Lyiur**

* Ka DPD kadei ban khmih thuh ia ka jingrep ia ki jingthung Pulse por Lyiur ha man ka wei pa kawei ka jylla da kaba leit peit sha ki lyngkha, ha Bhopal la lap ba ka jingpyndonkam ia ka sboh um phngit jingim NPK ka iarap shibun ha ka jingkyntiew ka jingmih u dai Mung lyiur bad u Urd. Ka pynduna ia ka jingtuid sepei noh ka dawai Potassium bad Nitrogen bad ka pynbiang Phosphorus ha ka khyndew.
* Ka kham bha ban pyndonkam ia ka sboh um phngit jingim @ 500 ml shi akar ha ka 50-100 kilo ka sboh eit masi(FYM)/ ka sboh pyut Compost ban khleh shwa ha ka khyndew shwa ban bet/thung.
* Kiwei pat ki sboh um phngit jingim, kata, i) Rhizobium lam um, ii) Phosphate Solubilising Bacteria (PSB) iii) NPK-3 (Rhizobium +PSB+KMB) @ 500 ml + 50-100 kilo ka FYM/sboh pyut compost shwa ban bet/thung ka iarap ha ka ban pynbiang ia ka sboh dawai Phosphorus ban ioh kjit suk da u jingthung.
* Ka jingpynbha ia ki symbai da ka sboh lam um PSB haduh 500 ml ha 1-2 litar ka um da kaba shu pdem ia ki haduh 15-20 minit bad bud pat da kaba pynrkhiang (30 minit) ha ka jingkah syrngiew bad thung pat hadien kata ka iahap bha.
* Kine ki sboh phngit jingim lam um ki iarap ha kaban thaw/shna ia ka sboh Nitrogen na ka ba don lypa ha ka hawhaw khamtam ha ki jingthung kum u Tur, u shan kulai, u dai Mung, u Urd, u mator symbai, u Berseem bad Dhiancha.

**KI JINGTHUNG LAM SYMBAI KUM KI RYMBAI KI DAI- KA JINGREP IA KI HA KI BNAI LYIUR**

La lum jingtip bad pynwandur da U

Dr. A.K. Tiwari

Dr. A.K. Shivhare

Nongpynmih

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**Ka jingbha ki tiar bad ka jingkyrshan ki buit thymmai ka KRIBHCO's na ka bynta ka jingmih ba biang bad jingiohnong.**

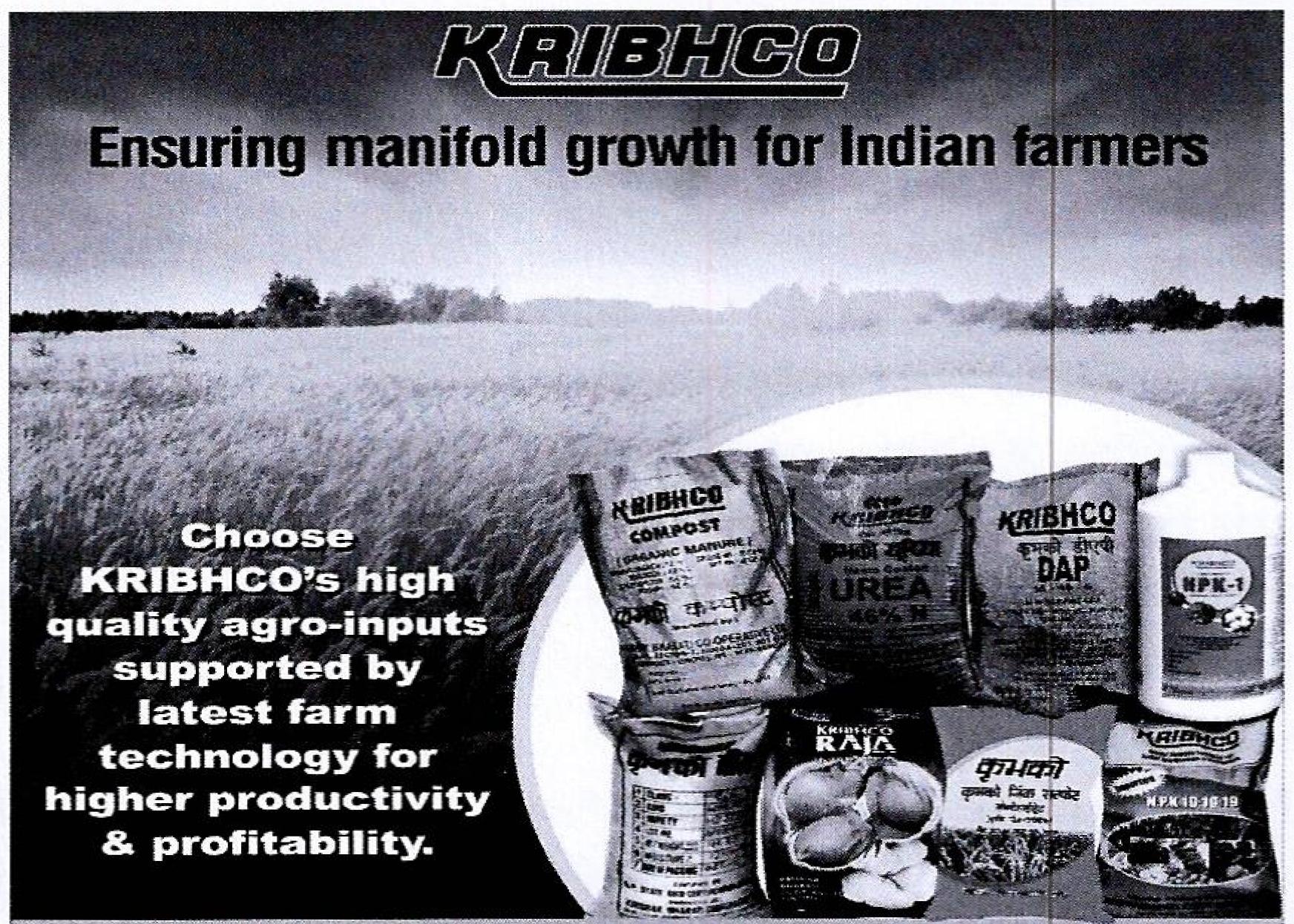
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