

झारखण्ड सरकार
कृषि, पशुपालन एवं सहकारिता विभाग
(कृषि प्रभाग)

अधिसूचना

राज्य योजनान्तर्गत 'झारखण्ड राज्य मिलेट मिशन योजना' की प्रचालन मार्गनिर्देशिका अधिसूचित की जाती है। (प्रचालन मार्गदर्शिका संलग्न)

2. 'झारखण्ड राज्य मिलेट मिशन योजना' की प्रचालन मार्गदर्शिका पर राज्य मंत्रिपरिषद् की दिनांक- 16.03.2024 को संपन्न बैठक में मद सं०-21 के रूप में स्वीकृति प्रदान की गयी है।

आदेश:-आदेश दिया जाता है कि इस अधिसूचना को सर्वसाधारण के अंतर्गत राजकीय पत्र के आगामी अंक/असाधारण अंक में प्रकाशित किया जाय एवं प्रकाशित राजकीय पत्र (गजट) की 200 प्रतियां विभाग को प्रेषित की जाय।

झारखण्ड राज्यपाल के आदेश से,


(अबुबकर सिद्दीख पी.)
सरकार के सचिव।

ज्ञापांक-03/कृ०रा०यो०-17/2023 746 रांची, दि०- 16.03.2024
प्रतिलिपि: अधीक्षक, राजकीय मुद्रणालय, झारखण्ड, डोरण्डा, रांची के अगले अंक में प्रकाशनार्थ प्रेषित।


सरकार के सचिव।

ज्ञापांक-03/कृ०रा०यो०-17/2023 746 रांची, दि०- 16.03.2024
प्रतिलिपि: महालेखाकार, झारखण्ड, राँची/मुख्य सचिव, झारखण्ड/विकास आयुक्त, झारखण्ड/सभी अपर मुख्य सचिव/प्रधान सचिव/सचिव/सभी विभागाध्यक्ष, झारखण्ड, राँची/सभी प्रमण्डलीय आयुक्त/उपायुक्त, झारखण्ड/सभी कोषागार/उप कोषागार पदाधिकारी, झारखण्ड को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।


सरकार के सचिव।

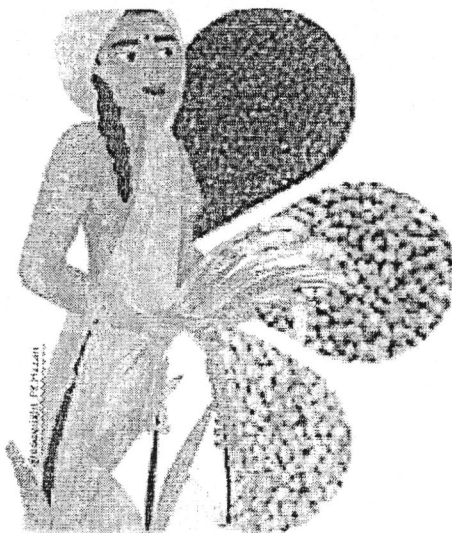
ज्ञापांक-03/कृ०रा०यो०-17/2023 746 रांची, दि०- 16.03.2024
प्रतिलिपि: कृषि निदेशक, झारखण्ड, रांची/निदेशक, भूमि संरक्षण, झारखण्ड, रांची/निदेशक, उद्यान, झारखण्ड, रांची/निदेशक, समेति, झारखण्ड, रांची/सभी संयुक्त कृषि निदेशक/सभी संबंधित जिला कृषि पदाधिकारी/सभी संबंधित अनुमण्डल कृषि पदाधिकारी-सह-जिला कृषि पदाधिकारी को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।


सरकार के सचिव।

ज्ञापांक-03/कृ०रा०यो०-17/2023 746 रांची, दि०- 16.03.2024
प्रतिलिपि: माननीय मंत्री के आप्त सचिव/सचिव के प्रधान आप्त सचिव/विशेष सचिव/अपर निदेशक-सह-अपर सचिव/अवर सचिव(योजना)/नोडल पदाधिकारी, विभागीय वेबसाइट, कृषि, पशुपालन एवं सहकारिता विभाग (कृषि प्रभाग), झारखण्ड, रांची को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।


सरकार के सचिव।





Jharkhand Millet Mission

JHARKHAND STATE MILLET



MISSION

Operational Guidelines

DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDRY & COOPERATIVE
Government of Jharkhand

JHARKHAND MILLET MISSION

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JHARKHAND STATE MILLET MISSION

1. Introduction:

Paddy is the major Kharif crop in the State. 18 lakh hec area is under Paddy cultivation itself during Kharif which 70% of total cropped area is of 28 lakh hectare. Pulses are grown in 6 lakh hec, Maize in 3 lakh hectare, 60,000 hectare is under oilseeds and roughly 40000 hectare covered under millet cultivation. District wise cropping pattern during Kharif is available at **Annexure- I** for kind reference. In recent times, frequent drought, irregular rainfall and changing climatic condition are making tough choice for farmers to completely dependent upon paddy. Therefore, there is need to find alternative cropping pattern which can address the said issues in coming future. The millets are such crops which can sustain adverse climatic condition and will be helpful in sustaining the livelihood of farmer as well as food & nutrition security of people of the state. Besides pulses cultivation, various institutions like CRIDA, ICAR, ICRISAT & BAU has been recommending state government to promote millet cultivation in the state as tool to climate resilient farming. Further, it will be easier to promote millet cultivation in Jharkhand, as millets are traditionally cultivated by native tribal, as part of their culture and staple food.

The major millets which are grown in Jharkhand are Finger Millet (Maduwa), Sorghum (Jowar), Pearl Millet (Bajara) and small millets like Foxtail millet (Kangni), Barnyard millet (sama), Kodo millet, Proso millet (Chena), Little millet (Kutki) and two pseudo millets – Buck wheat (Kututu) and Amaranthus (chulai).

It is also understood that 20-30 yrs ago, significant area was under millet cultivation, however over period of time paddy has taken over the millet cultivation due to various factors and at present, millet cultivation is limited to 40000 hec out of 28 lakh hec of cultivated land during Kharif. Therefore this is the high time to promote millet cultivation in the state to fight with climatic challenges and nutritional security.

Department of Rural Development and Panchayati raj is also promoting millets under State livelihood Policy and is mostly served in midday meal for school children & hospitals. Jharkhand State livelihood promotion society is promoting millet cultivation and processing through various FPOs, Start ups and Enterprises (**Annexure-II**).

In the view of the above, State government initiated "Jharkhand Millet Mission (JMM)" from 2023-24. The mission aims to increase area under millet cultivation and to promote climate resilient farming.

2. Objectives of the Mission:

- To increase the area under millet cultivation in clusters by 5 lakh hectare in next 5 years
- To demonstrate the improved millet production and post harvest technologies
- To conserve and promote millet land races through seed system and seed bank
- To promote and support primary processing enterprises on millets
- To provide financial assistance to ICAR institutions, Birsa Agriculture University, KVKs for setting up of/scaling up of value addition units.
- To promote export of millet based products.

3. Timeline of Mission:

The Jharkhand State Millet Mission will be implemented for first 5 years (2023-24 to 2027-28) and may be extended depending upon the need and requirement.

4. Coverage of Mission:

JMM will be implemented in all the districts of State with major focus on Aspirational districts.

5. Salient features of Mission:

- The Mission will be implemented and monitored through online portal.
- Raiyat and bataidaar farmers will be eligible under this mission.
- Millet growing farmer will be provided with financial assistance of Rs 3000 per acre up to 5 acre towards working capital.

- Demonstration cluster of 5-10 hectare in each block will be developed every year. However blocks and number of demonstration plots/cluster may be decided by State Millet Mission officer depending upon feasibility /requirement of districts.
- Registered FPOs, SHGs, Cooperative societies, Start ups enterprises, KVKs will be given assistance for primary processing, farm mechanization, post-harvest management, export promotion, establishment of millet seed banks etc through convergence of schemes of department.
- Provision of cash award to best millet farmers and Millet seed bank outstanding contribution in millet production.
- Government institutions like Birsa Agriculture University, ICAR institutions, KVKs, will be given 100% financial assistance for establishment/scaling up of millet based edible value addition units, Millet cafeteria and Millet museum.

6. Use of Technology in implementation of Mission:

- The Mission web portal will be on boarded on existing web portal of Seed distribution.
- The portal will be accessible to all stakeholders for official use.
- The other technologies like mobile based app survey, drone, remote sensing, crop cutting experiment etc may also be used under this mission.

7. INSTITUTIONAL SET UP FOR IMPLEMENTATION AND MONITORING OF MISSION:

i) Implementing Department and Supporting Departments:

The mission will be mainly implemented by Department of Agriculture, Animal Husbandry & Cooperative. However, support from line department like- Rural Development & Panchayati Raj, Water resources, Tribal Welfare & Civil Supplies and public distribution may obtained, if necessary, as these departments are directly or indirectly contributing towards development of agriculture.

ii) Millet Mission agency and State Millet Mission Officer :

The Nodal agency of this mission will be Directorate of Agriculture and State Millet Mission officer will be the Director, Agriculture or designated by Department of Agriculture, Animal Husbandry & Cooperative.

iii) Mission Monitoring Structure:

There will be 2 levels of monitoring bodies for better implementation, monitoring, coordination and flow of information of this mission. The committee and its composition will be as follows:

a) State Level :

1. Millet Governing Council:

The Mission will have a Millet General Council (MGC) at state level under Chairmanship of The Chief Secretary. The composition of MGC will be as follows:

S.No	Composition of MGC	Designation
1	Chief Secretary	Chairman
2	Additional Chief Secretary/Principal Secretary/Secretary, Department of Agriculture, Animal Husbandry & Cooperative	Member Secretary
3	Additional Chief Secretary/Principal Secretary/Secretary, Department of Rural Development	Member
4	Additional Chief Secretary/Principal Secretary/Secretary, Department of Panchayati Raj	Member
5	Additional Chief Secretary/Principal Secretary/Secretary, Department of School education & Literacy	Member
6	Additional Chief Secretary/Principal Secretary/Secretary, Department of Social welfare & Child development	Member

7	Additional Chief Secretary/Principal Secretary/Secretary, Department of Civil Supplies & Public Distribution	Member
8	Additional Chief Secretary/Principal Secretary/Secretary, Department of Revenue & Land records	Member
9	Additional Chief Secretary/Principal Secretary/Secretary, Department of IT	Member
10	Additional Chief Secretary/Principal Secretary/Secretary, Department of Tribal Welfare	Member
11	Additional Chief Secretary/Principle Secretary/Secretary, Department of Industries	Member
12	Director, Agriculture	Member cum State Millet Mission Officer
13	CGM, NABARD, Jharkhand	Member
14	Convenor, SLBC, Jharkhand	Member
15	Special invitee with permission of Chairman	Member

MGC will be the formulation body giving overall direction and guidance to Mission, monitor and review its progress and performance. MGC will meet at least one time in year.

2. State Executive Committee:

Millet Executive Committee (MEC), headed by Secretary, Department of Agriculture, and Animal Husbandry & Cooperative will oversee activities of the Mission. MEC will be empowered to lay down and amend operational guidelines and approve Action Plans of JSMM. The EC will comprise of the following:

S.No	Composition of SEC	Designation
1	Additional Chief Secretary/Principal Secretary/Secretary, Department of Agriculture, Animal Husbandry & Cooperative	Chairman
2	Additional Chief Secretary/Principal Secretary/Secretary, Department of Rural Development or not below the rank of Joint Secretary	Member
3	Additional Chief Secretary/Principal Secretary/Secretary, Department of Panchayati Raj or not below the rank of Joint Secretary	Member
4	Additional Chief Secretary/Principal Secretary/Secretary, Department of School education & Literacy or not below the rank of Joint Secretary	Member
5	Additional Chief Secretary/Principal Secretary/Secretary, Department of Social welfare & Child development or not below the rank of Joint Secretary	Member
6	Additional Chief Secretary/Principal Secretary/Secretary, Department of Civil Supplies & Public Distribution or not below the rank of Joint Secretary	Member
7	Principal Secretary/Secretary, Department of Revenue & Land records or not below the rank of Joint Secretary	Member
8	Additional Chief Secretary/Principal Secretary/Secretary, Department of IT or not below the rank of Joint Secretary	Member
9	Additional Chief Secretary/Principal Secretary/Secretary, Department of Tribal Welfare or not below the rank of Joint Secretary	Member
10	Additional Chief Secretary/Principle Secretary/ Secretary, Department of Industries or not below the rank of Joint Secretary	Member
11	Director, Agriculture	Member cum State Millet Mission Officer

12	Registrar Cooperative Societies, Jharkhand	Member
13	Director, SAMETI	Member
14	Special invitee with permission of Chairman	Member

SEC is empowered to reallocate resources across States and components and approve the proposals. SEC is also empowered to approve special interventions for tackling emergent/ unforeseen requirements.

b. District Level:

District Millet Mission Committee (DMMC):

At District level, District Millet Mission Committee (DMMC) will be responsible for carrying forward the objectives of the Mission for project formulation, implementation and monitoring. The DMMC may be headed by the Deputy Commissioner (DC), having as members, representatives from concerned line Departments, FPOs, LAMPS/PACS, LDM, DDM, Self Help Groups and other Non-Governmental organizations. The composition of DMMC is as under:

S.No	Composition of Committee	Designation
1	Deputy Commissioner	Chairman
2	DDC	Member
3	District Agriculture Officer	Member cum District Millet Mission Officer
4	District Cooperative Officer	Member
6	District Social Welfare Officer	Member
8	GM- DIC	Member
9	District Education Officer	Member
10	PD ATMA	Member
12	LDM	Member
13	DDM	Member
14	Special invitee with permission of chair	Member

8. IMPLEMENTATION PROCESS OF MISSION:

i) Millet crops and Crop Calendar:

Millets are majorly grown in Kharif therefore only Kharif millets will be considered under this mission.

S. No	Crop
1	Finger Millet (Ragi/Maduwa)
2	Sorgham (Jowar)
3	Pearl Millte (Bajara
4	Foxtail Millet (Kangni)
5	Barnyard Millet (Sama)
6	Kodo Millet (Kodo)
7	ProsoMilte (Chena)
8	Little Millet (Kutki)
9	Buck Wheat (Kuutu)
10	Amaranthus (Chulai)

The above list of millets are not exhaustive, however, based on recommendations of State Millet mission and institutions like BAU, ICAR, KVKs the new millets may also be included in the mission. As a practice, the following tentative Millets crops are grown in Jharkhand during Kharif season. The sowing/transplanting time is between June to August and harvesting time is between October to November. However, there may be variation in sowing/transplanting time and also harvesting time due change in pattern of rainfall and other climatic variation.

ii) **Publicity & Awareness of Millet Mission:**

- a) In coordination with district, the State Millet Mission Officer will ensure proper publicity & awareness about the mission through various mode like – leaf lets, pumphlets, wall painting, hoardings, print media, electronic media, social medial, audio- visuals vehicles, etc ate IPRD rate or approved rates of government.
- b) Quiz & Painting Competition for School children will be organized.
- c) Yearly once 3 days District level Millet Food Festival cum Exhibition will be organized in all the districts.
- d) Yearly 3 Days National level Millet Food Festival cum Exhibition will be organized at State Head quarter.
- e) Coffee table book/brochures etc on Millets will be published.
- f) State level participation in International Millet Exhibition.

However State Millet Mission officer may plan further on various other activities or can plan as per need for awareness and publicity.

iii) **Development of Millet Mission Web Portal:**

- There are major schemes of the department which are already implemented through onlineweb portals like- Jharkhand Krishi Rinn Maafi Yojana, JRFY, MSRY, Seed distribution portal etc. Lakhs of farmers are registered on these portals and availing benefits of various scheme.
- Keeping the involvement of many stakeholders like farmers, suppliers, vendors, institutions ect, Jharkhand State Millet Mission may be onboarded on suitable existing scheme portals using block chain technology.
- The State Millet Mission Officer will access the feasibility & customization including mobile app of existing portal for on boarding of this mission and accordingly Jharkhand State Millet Mission may be on-boarded on any one of existing portals.
- The State Millet Mission officer may also consult with NIC, NICIS, JAPIT, and JSAC for necessary technical support or advice. NIC,JAPIT & JSAC will help State millet mission officer for integration of various existing portal so that data base of farmers, mapping of plots, crops etc can accessed from common data repository.
- The proposed domain name of Mission web portal will be www.jharkhandmilletmission.gov.in. However the domain name subject to change if same domain name is not available.
- The existing technical man power deployed on various scheme portals will be utilized for the mission. However, if required, The State Millet Mission Officer will also arrange required number of technical man power. However, if necessary the man power may also be hired through GeM Portal/NICSI rates/ existing rates on which service is being obtained from private service providers.
- JSAC will provide technical support to State Millet Mission officer for geo tagging for surveyed field by local field surveyor through mobile app.
- The necessary infrastructure (both software & hardware) and operational support, security audit and related requirements will provided or supported by State Millet Mission Officer to above agencies on approved rates of Government of Gem Portal.

- The State Millet Mission officer will be empowered to develop of Mobile apps/ other apps if necessary related to the mission.

iv) On boarding of Millet Mission on PFMS:

- Like other online schemes of the department, The Jharkhand Millet Mission will be on boarded on PFMS so that financial assistance to millet growers will be disbursed in DBT mode. The State Millet Mission Officer will make all arrangement for onboarding of mission on PFMS.
- The State Millet Mission officer will also try for integration of Mission portal with PFMS so that downloading and uploading of payment file may be avoided.
- The State Millet Mission officer will also nominate maker and checker for operating banking and PFMS operation.

v) Opening of Nodal bank account:

- Similar to krishi Rin maafi yojana/Jharkhand Rajya Fasal Rahat Yojana, for this scheme also a separate bank account will be opened in the name of Jharkhand Millet Mission by the State Millet Mission officer.
- The bank account may be opened in any Nationalized bank or State Cooperative bank.
- The proposal for selection and opening of bank account will be submitted by State Millet Mission Officer before SEC for consideration and approval.

vi) State Agriculture Planning Cell:

State Agriculture Planning cell of PRADAN is already functional at Department. The State Agriculture Planning cell (PRADAN) will be coordinating with State Millet Mission Officer and Department of Agriculture, Animal Husbandry & Cooperative and other stakeholders for technical support in implementation of Mission.

vii) Services of Common Service Centers (Pragya Kendra):

The CSC centers services have been found very useful in implementation of schemes like Jharkhand Rajya Rin Maafi Yojana, Mukhyamantri Sukhaar Raahat Yojna/ Jharkhand Fasal Raahat Yojana. The CSC centers are important contact point of farmers to avail may services of Government. Hence CSC center services will be utilized for this mission also.

viii) Services of International Organizations:

It has been also understood that organizations like UNDP, World Bank, Asian Development Bank, are also extending their support of Climate resilient Agriculture, water use efficiency, capacity building, infrastructure development etc. Hence, need based support may be obtained from these organizations under non-financial agreements.

9. INCENTIVE TO MILLET GROWING FARMERS:

- The major focus under this mission will be given to increase the area under millet cultivation and its sustainability in the state to counter the drought like situation and at the same time availability of millet and nutritional security of people can be secured.
- The millet growing farmers will be encouraged and supported for millet cultivation in the state.

- The prevailing cost of cultivation of Finger millet (Ragi/Madua), Jowar & Bajara in the state is Rs 8,800, Rs 11,248, Rs 10,572 per acre respectively. The copy of the same is enclosed at **Annexure III**.
 - The millet grower farmers will be given incentive Rs 3000 per acre up to maximum of 5 acres in the form of DBT. The proposed incentive is roughly 30% of average cost of cultivation of these major millets.
 - The minimum land size of millet should not be below 10 dismil.
 - The incentive will be given as per land size.
 - The incentive may also be subject to revision in coming years based on prevailing cost of cultivation of that year or decided by the SEC/SGC.
- i) **Eligibility criteria for farmers:**
- Farmer those who are cultivating millet crop on their own land.
 - Farmer those who is not land owner but cultivating millet crop on other's land.
 - Farmers should be local of Jharkhand
 - Farmers should have valid Adhaar number
 - Farmers should have valid mobile number
 - Farmers should have valid bank pass book
 - Farmers should cultivate millet on minimum of 10 decimal up to maximum on 5 acres of land.
- ii) **Process of Registration of Millet Farmer:**
- a) The eligible farmer has to register on Mission web portal for availing the benefits of the mission.
 - b) The farmers those who are already registered on earlier schemes of department and approved by the district need not register again, but they have to apply for mission in every Kharif season.
 - c) The farmer need to register themselves on Mission web portal at CSC center. He or she has to bring valid Adhaar Card & Mobile number. OTP based registration will done at CSC centers, hence, farmer need to give valid and registered mobile number.
 - d) After registration, farmer need to apply for mission along with desired documents like- land record, Adhaar card, Bank account passbook. OTP based. One mobile number will be valid for one farmer.
 - e) After registration, Farmer has to apply for the scheme. The farmer need to give valid copies of land record on which he or has sown the millet crop. He has to declare the name of millet crop, acreage of crop, source of seed (own, purchased from market, dealers or subsidized seed obtained under Government scheme along with name of department of Government agency). The farmer will also give valid bank passbook copy and no objection certificate of land owner in case of "bataidaar" at the time of application. The land record should be updated with Survey number, plot number, Khata number etc.
 - f) The farmer can apply only once. However single farmer can apply for many number of plots but not exceeding 2 hectares i.e 5 acres in any case.
 - g) Farmer should apply for availing benefit of the mission before 30th August every year.
 - h) The farmer has to pay Rs 40/- (Forty only) towards application for the mission to CSC center.
 - i) After successful online application & adhaar authentication, farmer will receive confirmation message on his registered mobile number.
 - j) Farmers can check their status of application on mission portal.

iii) **Verification and approval process of application:**

A) **District Agriculture Officer Level:**

- a) The application of farmers will be automatically forwarded into login of District Agriculture Officer.
- b) The District Agriculture officer has to verify the application of farmers and will ensure for genuinity of required documents uploaded by the farmer and approved application will be forwarded into login of District Agriculture Officer.
- c) District Agriculture officer will verify the forwarded application by found any issue in the application he may revert or reject the application with clear remarks.
- d) Farmer will receive message on his mobile number regarding his reverted application or rejected application and accordingly he can correct the mistakes in application or reapply for the mission. For this process he need not pay any additional charges. The CSC center will help the farmer for correction and any issue with reapply of such applicants.

iv) **Field Verification/ Survey of Millet crops:**

- a) The Field verification for millet crops will be carried out through mobile app. The millet crop survey will be carried out in between 1st September- 15th November .However it will be ensured that the crop survey should be completed well before harvest of crop.
- b) The field verification of eligible farmer will be done by local field surveyor by using mobile app for field survey. The field surveyor should possess smart phone with registered mobile number.
- c) District Agriculture Officer will select the local field surveyor preferably among Jansevak, Krishak Mitra from their respective panchayat. However, in case of non-availability of man power for local surveyor from the respective panchayat, competent surveyor may be selected from other location of district.
- d) DAO will ensure registration of local field surveyor through mobile app installed on the mobile of field surveyor.
- e) The field verification will be done by using Mobile app. The mobile app for crop survey will be provided by State Millet Mission Officer and downloaded by notified local field surveyor from google play store/other app.
- f) A local surveyor with smart phone will be approved and engaged by DMMC .
- g) The approved list of panchayat wise field surveyor will be uploaded on Mission portal with their mobile numbers & Adhaar number and Bank account number.
- h) The local field surveyor will be provided village wise the list of eligible millet farmers on their mobile app and has to cover all listed farmers of panchayat and complete their plot survey.
- i) The Field surveyor will be paid Rs 10/- (Rupees 10/-) for each field.
- j) The field verification by local field surveyor may also be randomly verified by DMMC or decided by Chairman, DMMC.
- k) DAO will check n verify the field survey report will forward it to login of DC or designated officer by DC for approval of beneficiaries.
- l) State Millet mission officer may develop mechanism of mobile app based survey as per requirement.

v) **Release of benefits to millet farmers:**

- a) After approval of beneficiaries by DAO will be forwarded to State Millet Mission officer.

- b) State Millet Mission Officer will check n verify the list of approved beneficiaries by district and make arrangements for release of payment to beneficiaries via DBT using PFMS portal.
- c) The millet farmer will be given incentive of Rs 3000 per acre up to 5 acres at the time of harvesting through DBT.
- d) The Minimum cultivation area under millet should not be less than 10 decimal.
- e) The amount will be disbursed on prorata basis.
- f) The State Millet Mission officer will ensure that incentive should be released to approve beneficiaries on or before 31st January.
- g) The financial assistance to millet farmers will be disbursed in the bank account through DBT using PFMS portal either Adhaar based payment or account based payment.
- h) The Mode of DBT payment may be changed on recommendation of SEC, if required.
- i) The State Millet Mission Officer will disburse cash incentive to approved farmers on recommendation of DMMC at the time of harvesting.

10. SUPPORT TO SHG, FPO AND COOPERATIVE SOCIETIES

The Registered SHGs, FPOs (established under Scheme of NABARD, JSLPS, NAFED, NCDC & SFAC), LAMPS/PACS, Birsa Gram-Sah-Krishak Pathshala will be provided various support towards activities related to millet development in state.

a) Millet Seed Bank:

- The millet Seed bank will be provided various types of post-harvest equipment, seed processing infrastructure, Storage bins etc on subsidy through convergence of schemes.
- Millet Seed bank should be of minimum capacity of 1 ton and maximum of 100 tons.
- Millet Seed bank should have valid seed license.
- Millet Seed bank will procure, process and store the millet seed.
- Millet seed bank will procure millets only from their member farmers who are willing to sale their produce to Millet seed bank at reasonable price.
- The shareholders/ member farmers may decide at which rate they are willing to sale their produce and also at which rate clean millet seed will sold to member farmers or shareholders.
- The Millet seed bank will not sale the seed for commercial purpose.
- Millet seed bank will sell millet seed to their member farmers on reasonable rate.
- The quality of millet seed is the responsibility of the Millet seed bank.
- The State government will not be responsible for issues arises out quality, quantity and failure of seed germination etc.
- The State government may verify and check the premise of Millet seed bank as per laid down procedure under Seed Act of Government of India.
- The Millet Seed bank will be notified by DMMC.

b) Process of Registration & Notification of Millet Seed Bank:

- The interested KVKs, FPOs, SHGs, Krishak Pathsala and Cooperative societies have to self register and apply for notifying their organization as Millet Seed bank through Mission portal with desired details. The details will be available on Mission web portal.

- The application will be processed by DAO and DMMC will take final decision on approval and notifying of Millet Seed Bank.
- DAO will forward the list of approved Millet Seed bank to login of State Millet Mission officer for needful.
- List of approved Millet Seed bank will be published on Mission web portal by State Millet Mission Officer.

c) Award and recognition to Millet farmers & Millet Seed Bank:

- The progressive millet growers and Millet seed banks will be awarded for best performance. 10 best millet farmers and 5 best Millet Seed bank in the state will be awarded every year on "National Farmers Day" i.e 23rd December by the State Government.
- The criteria of award will be based on production, preservation of variety, encouraging other fellow farmers to grow millet.
- The 10 Best Millet growing farmers will be given cash prize of Rs 50,000 each (Rs Fifty thousand only) & certificate.
- The 5 best Millet Seed Bank will be given cash prize of Rs 10,000 (Rs Ten thousand only) and certificate towards highest quantity of millet seed distribution, support provided to farmers etc.

d) Process of nomination for Award:

- The Millet grower and Millet Seed bank will apply for nomination for award on Mission Web portal.
- DAO will process the application and verify the application of genuineness and will put to DMMC for recommendation and approval
- The process of nomination and recommendation will be finalized on or before 10th December every year.
- The tentative list of awardee will be put by State Millet Mission Officer before DEMC for consideration on or before 15th December every year.
- The SEC will take decision on finalizing the best performer on or before 20th December and final awardee will be awarded on occasion of National Farmers Day.
- SEC may take decision on changing of criteria of award on recommendation of State Millet Mission Officer, if required.

11. SUPPORT TO GOVERNMENT INSTITUTION

a) Research and Development:

- Birsa Agricultural University and research institutions under its jurisdiction, ICAR- RCER, ICAR- Indian Institute of Agriculture Biotechnology, ICAR-IISA ICAR-NBPGR, ICAR-Goria Karma, KVKs, Central University of Jharkhand, IIT- Dhanbad etc will focus on millet research & development.
- These institutions will be given financial support towards project related research and development under Climatic smart Agriculture, Agri Stack and Research scheme & RKVY.
- These institutions will submit the research & development proposals of their scientists, researchers & scholars etc on mission web portal after proper scrutiny based on cost effectiveness, utility, viability of proposals.

- The State Millet Mission officer will put the various proposals received from these institutions before DEMC for scrutiny and approval.
- The receipt of proposals from institutions should be completed on or before 31st January and submission of proposal before SEC should be completed by 15th February and approval of SEC on proposal should be completed by 10th March.
- The decision of SEC will be full and final on approval of projects towards research & development of millet in the State.

b) Award & recognition for Paper publication by scholar, scientists, researchers:

- The individual/group of scholars, scientists, researchers etc will be awarded with cash prize of Rs 10000/- (Rs ten thousand only) & certificate for publication of research papers on millet production, processing, marketing, innovations, technology in scopus indexed/ ABDC journals.
- Every year 10 best individual/ group of scholar, scientists, researchers etc will be awarded for their contribution on " National Farmers Day". Only one paper per individual author or group of authors will be accepted every year.
- The published paper will be evaluated through scholarly review through circulation. The process of acceptance of papers will be completed before 31th October and evaluation of papers will be completed before 15th December every year.

c) Process of nomination for Award:

- The individual/group of scholars, scientists, researchers etc need to submit their application through proper channel. After obtaining approval from their heads the application may be submitted on Mission web portal.
- The state Millet Mission officer will put the evaluation report of papers before SEC for consideration and approval as similar process to be followed in case of award to farmers and Millet Seed bank.

d) Financial Support towards setting up unit for Value addition in Millet based edible products:

- There is processing and value addition unit in Department of Home Science, Birsa Agriculture University. This unit is not only providing training SHGs but also producing various millet based products like Ragi Biscuits, Laddu, Haluwa etc. Such units need to be scaled up and strengthen towards encouraging consumption of Millets.
- The Government Institutions like BAU, ICAR Institutions, KVKs other such institutions where there is department of Home science or food processing will be provided financial assistance up to Rs 20 lakhs towards setting up or scaling of such units towards value addition & production of millet based edible products.
- The Government institutions have to apply with details proposal report on Mission web portal for evaluation of proposal by State Millet Mission Officer.

12. DEMONSTRATION & CAPACITY BUILDING OF MILLET GROWERS:

a) Demonstration Plots of Millets:

- 5-10 hectares of land will be brought under demonstration cluster for millet cultivation in every block. However, DAO may decide upon the blocks and number of demonstration cluster as per need.

- It will be tried that overall 2000 hectare of land may be brought under demonstration cluster every year in the state.
- Birsa Gram-Sah-Krishak Pathasala/ government farm should be utilized for Demonstration cluster.
- The State Millet Mission Officer will prepare an action plan on demonstration & capacity building for millet cultivation for each district. The component wise assistance rate will be as per the Annual Action Plan under NFSM- Nutri Cereals of Government of India.
- The State millet mission officer will also ensure that there should not be any duplicity in demonstration plots under this scheme with NFSM demonstration plots.
- The Flexi components like distribution of farm implements & equipment and sprinkler irrigation tools will be based on Sub Mission on Agriculture Mechanization (SMAM) & Pradhan Mantri Krishi Sichayaaye Yojana (PMKSY) guidelines of Government of India.

b) Capacity Building of Millet Growers:

- Guidelines of Annual Action Plan under NFSM- Nutri Cereals of Government of India will be followed for cropping based training of millet growers.
- However, the state millet mission officer can decide upon number of demonstrations and training of millet farmers depending upon the requirement of districts.

13. INFRASTRUCTURE DEVELOPMENT FOR PROMOTION OF MILLETS:

a) Establishment of Millets Museum: A Millet Museum will be established at Birsa Agriculture University/ICAR institutions or location decided by the Government to show case the capacity of State in Millet preservation and development. The Birsa Agriculture University/ICAR institutions will submit a detailed proposal report for establishment of unit in consultation with State Millet Mission Officer & ICAR along with annual maintenance charges. The State Millet Mission officer will scrutinize the proposal and put before SEC for consideration of the same.

b) Setting up of Millet Cafeteria: Millet Cafeteria will be set up at prominent locations, Government buildings, University campuses, other places decided by DMMC. These millet cafeteria will be given to SHGs or women entrepreneur or FPOs/Cooperative identified by DMCC. Such stalls or kiosks will prepare value added edible products, snacks etc for public consumption. The Cafeteria/Kiosk will be set up under name of "Jharkhand Millet Sakti"

A onetime support of Rs 50000/- (Fifty thousand only) will be provided to the selected SHGs/FPOs/ Women Entrepreneurs/Cooperatives for setting up/ management of Cafeteria/Kiosk for millet based products for following components.

S.No	Particulars	Unit in No/Qty	Amount (Rs)
1	Support for Kiosk/Stall/Cafeteria	1	40000
2	Working Capital	1	10000
	Total		50000

Tentative list of Accessories/utensils/Equipment to be purchased for cafeteria:

S.No	Items
1	Kadhai/Pan
2	Grinder
3	Pressure Cooker
4	Steel plate for serving
5	Basin
6	Water Jar (100 ltr)
7	Dekhi with cover
8	Rolling pin
10	Steel Bucket
11	Gas Cylinder with Stove (19 Ltrs)
12	Frying Stick
13	Digital Weighing machine
14	Sealing machine
15	Rechargeable battery
16	Dustbin
17	Other utensils, if required

c) Process of Setting of Millet Cafeteria:

The interested SHGs/FPO/Cooperative/Women entrepreneur may apply on mission web portal for consideration of application by DMMC. The DMMC will verify the application and accord approval for fit agency. The fund will be disbursed by State Millet Mission Officer for approved agencies.

14. BUDGET PROVISION:

- Budget provision of Rs 50 cr for the financial year 2023-24 has been earmarked for this Mission. However depending upon the requirement the budget provision will be made every year.
- The State Millet Mission officer will prepare component wise annual action plan for consideration before SEC.
- Budget provision towards Demonstration, Training and Capacity building, publicity and awareness component should not exceed 10% of total budget.
- Budget Provision towards awards and recognition should not exceed Rs 0.25% lakhs.
- The infrastructure component related to millet mission should not be less 25% of total budget.
- The expenditure related to software development, man power expenditure deployed on the web portal management, related infrastructure for web portal should not exceed 10% of total budget.
- Any change in budget provision in the scheme components up to Rs 15 crore (Fifteen crore) can be done at Department level after recommendation of SEC. Change in budget provision beyond Rs 15 Crore may taken up with Pradhikrit Samitee or Cabinet as deemed fit.
- District may be given fund towards deployment of technical map power for management of online process. State Millet Mission officer will decide upon such requirement in consultation with district.

15. FUND FLOW MECHANISM:

- There will be two types of fund flow mechanism in the mission. The disbursement of incentive to millet growers, Support to Government Institutions, Award & recognition will be done by State Millet Mission Officer through DBT mode.
- Expenditure related to components other than above mentioned components will done by District Millet Mission Officer (DAO).
- Therefore, accordingly limit of fund for districts in their bank child account fixed by State Millet Mission Officer.



JHARKHAND MILLET MISSION

Annexure- I

Normal Crop Coverage during Kharif													
Districts	Division	Normal acrage under crop (Hec.)	Normal acregae under Paddy (Hec.)	%	Normal acregae under Pulses (Hec.)	%	Normal acregae under Maize (Hec.)	%	Normal acregae under Oilseeds (Hec.)	%	Normal acregae under Millets (Hec.)	%	Target for millet (Hec)
GARHWA	Palamu	1,35,710.00	55,000.00	41%	44,800	33%	27,200	20%	5,100	4%	3,610	3%	13,750.00
PALAMU		1,35,920.00	51,000.00	38%	51,800	38%	27,520	20%	2,390	2%	3,210	2%	12,750.00
LATEHAR		93,050.00	30,000.00	32%	38,300	41%	19,960	21%	4,090	4%	700	1%	7,500.00
SAHIBGANJ	SanthalPargana	85,830.00	49,000.00	57%	19,300	22%	15,000	17%	1,140	1%	1,390	2%	12,250.00
PAKUR		78,010.00	49,000.00	63%	16,400	21%	10,860	14%	1,060	1%	690	1%	12,250.00
DUMKA		1,65,690.00	1,11,000.00	67%	28,600	17%	20,960	13%	3,440	2%	1,690	1%	27,750.00
GODDA		89,400.00	51,500.00	58%	20,900	23%	13,700	15%	2,110	2%	1,190	1%	12,875.00
JAMTARA		86,950.00	52,000.00	60%	16,700	19%	15,700	18%	860	1%	1,690	2%	13,000.00
DEOGHAR		86,130.00	52,000.00	60%	15,300	18%	17,000	20%	1,140	1%	690	1%	13,000.00
BOKARO		65,750.00	35,000.00	53%	19,100	29%	9,620	15%	1,240	2%	790	1%	8,750.00
CHATRA	North Chotnagpur	67,545.00	36,500.00	54%	17,600	26%	9,960	15%	1,660	2%	1,825	3%	9,125.00
HAZARIBAG		1,21,230.00	84,000.00	69%	20,400	17%	12,360	10%	2,020	2%	2,450	2%	21,000.00

RAMGARH		58,920.00	33,000.00	56%	14,200	24%	9,100	15%	1,550	3%	1,070	2%	8,250.00
GIRIDIH		1,31,700.00	88,000.00	67%	19,500	15%	21,300	16%	1,090	1%	1,810	1%	22,000.00
KODERMA		41,920.00	17,000.00	41%	13,700	33%	8,760	21%	1,740	4%	720	2%	4,250.00
DHANBAD		55,890.00	43,000.00	77%	8,700	16%	2,720	5%	500	1%	970	2%	10,750.00
GUMLA	South Chotanagpur	2,35,130.00	1,88,000.00	80%	30,200	13%	8,100	3%	7,040	3%	1,790	1%	47,000.00
LOHARDAGA		80,870.00	47,000.00	58%	20,400	25%	7,620	9%	4,030	5%	1,820	2%	11,750.00
RANCHI		2,30,000.00	1,71,000.00	74%	38,100	17%	12,300	5%	3,970	2%	4,660	2%	42,750.00
KHUNTI		1,11,635.00	76,000.00	68%	24,700	22%	7,200	6%	1,720	2%	2,015	2%	19,000.00
SIMDEGA		1,45,620.00	85,000.00	58%	44,200	30%	8,000	5%	6,370	4%	2,050	1%	21,250.00
EAST SINGHBHUM		1,47,860.00	1,10,000.00	74%	22,200	15%	11,820	8%	2,650	2%	1,190	1%	27,500.00
WEST SINGHBHUM	Kolhan	2,32,790.00	1,86,000.00	80%	33,200	14%	8,900	4%	1,700	1%	2,990	1%	46,500.00
SARAIKELA KHARSAWAN		1,43,880.00	1,00,000.00	70%	34,600	24%	6,900	5%	1,390	1%	990	1%	25,000.00
Total		28,27,430.00	18,00,000.00	64%	6,12,900	22%	3,12,560	11%	60,000	2%	42,000.00	1%	4,50,000.00



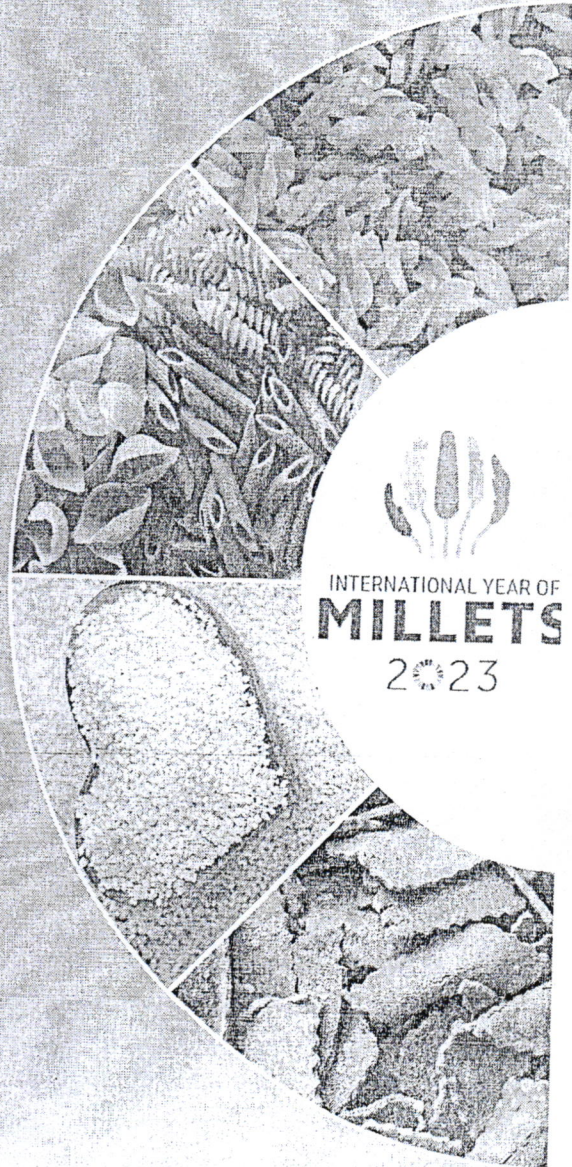
Annexure - II

Agricultural and Processed Food Products
Export Development Authority

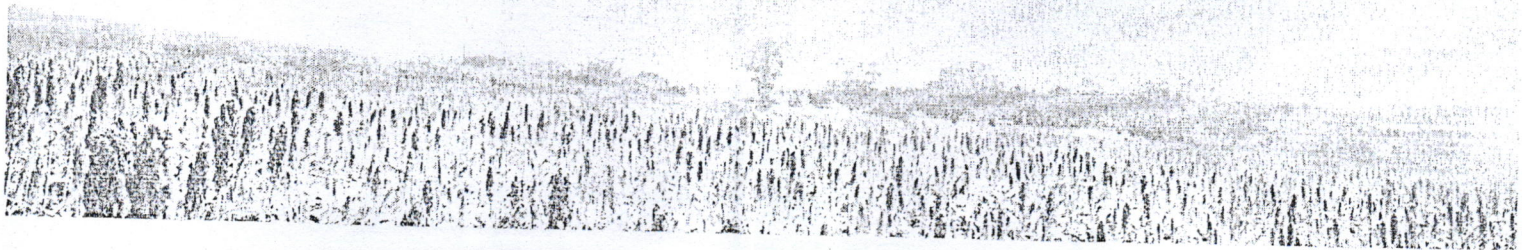
Ministry of Commerce and Industry, Govt of India



E-Catalogue For Export Of Millets And Value Added Products **J H A R K H A N D**



INTERNATIONAL YEAR OF
MILLETS
2023





एपीडा
APEDA



Dr. M. Angamuthu, IAS
Chairman



कृषि और प्रसंस्कृत खाद्य उत्पाद
निर्यात विकास प्राधिकरण
(गणिज्जा एव उद्योग मंत्रालय, भारत सरकार)

**Agricultural and Processed Food Products
Export Development Authority**
(Ministry of Commerce & Industry, Govt. of India)

The extraordinary effort of Government of India resulted in the announcement of year 2023 as International Year of Millets and is a pivot move with the effect in bringing down emissions and health budget of homes. Our Honorable Prime Minister Shri Narendra Modi well emphasized the rich nutritional and cultural value of this smart food – the Indian Millets. In his 92nd Mann Ki Baat on Sunday 28th, August 2022, he could be heard quoting, "India is the largest producer of Millets in the world, so the responsibility of making this initiative a success also rests on the shoulders of the people of India. Together we all have to make it a mass movement, and also increase awareness of millets among the people of the country."

Withstanding capacity in terms of extreme climates and potential of multiple harvests, millet is the natural insurance for the farmer with the protection of higher income and hedge for global food security. The wave of colonialism brought the new culture of food, beverage and textile or altered local culture in various countries. The need of increased calories and new consumer trends in the industrial era waned the consumption of millets and took away local food culture from our food plates during last two centuries. The Industrial Revolution 4.0 has redefined the life style and 'need of food calories'. The millet is a smart food with climate compliant, nutrition security and true food of human civilisation.

The high protein content of millets make them ideal breakfast food for vegetarian and vegan population. The urbanization of society has resulted into the prominence of millets in the modern diet. The unique selling proposition of millets in the export markets emerge from its character of gluten free nature, nutraceutical and dietary food for specific medical purposes through processed food. The resurrection of 'Bharatiya Food Export' in global market through millet is a reality.

APEDA, being the apex export promotion vehicle of India, is dutiful - 'Path of Kartavya' - to propagate millets in global scale. An E-Catalogue of millet value chain by APEDA is the first step towards introducing our products to global market. The purpose of this E-catalogue is to create 'credible open source' information on material and market in terms of value chain to the Farmers, FPOs, Traders, Exporters and Importers.

I am thankful to my team APEDA, who worked hard to realize my instinct and idea of this E-catalogue's creation.

Dr. M. Angamuthu

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01 INTRODUCTION

1.1 Brief State Profile

Jharkhand is one of the 28 states of India, situated on eastern part of India. The capital of Jharkhand is Ranchi. Number of district in Jharkhand is 24. The state of Jharkhand spreads over an area of 79, 714 square kilometers. Jharkhand is bordered by Bihar in the north, Uttar Pradesh and Chhattisgarh in the west, Orissa in the south and West Bengal in the east. The major cities of Jharkhand are Jamshedpur, Dhanbad, Bokaro and Hazaribagh. The primary official language of Jharkhand is Hindi. Other secondary languages spoken here are Oriya, Urdu, Nagpuri, Bengali, Bhojpuri, Khortha, Sadri and Angika. Agri culture is the main



stay for the 80% of rural population of the state. Agriculture is their employment and primary income generating activity. The agricultural economy of the Jharkhand state is characterized by dependence on nature, low investment, low productivity, mono-cropping with paddy as

the dominant crop, in inadequate irrigation facilities and small and marginal holdings. The dependence of agriculture on the vagaries of the rain-god can be gauged from the fact that as much as 92% of the total cultivated area is unirrigated. Jharkhand State is endowed with vast and rich natural resources mainly those of minerals and forest, 80% of its population residing in 32620 villages and depend mainly on agriculture and allied activities for their livelihood.

1.2 Potential of Millets and Varieties Grown

Ragi (Finger Millet) is grown in the state in a very scattered manner. The State Government is promoting millets under State livelihood Policy which is under the Department of Panchayat, and is mostly served in midday meal for school children & hospitals because of its Nutraceuticals properties.

Table 1: Production of Finger Millet in India

		Production (000 Tonnes) 4 th Advance Estimated Data		
Sr No.	State	2020-2021	2021-22*	2022-2023*
1	Karnataka	1369.83	1132.57	1125.73
2	Tamil Nadu	288.64	220.64	180
3	Uttarakhand	129.85	127.11	127.11
4	Maharashtra	93.92	92.9	79.12
5	Andhra Pradesh	39.5	30	26.01
6	Odisha	32.88	43.63	37.38
7	Jharkhand	16.4	16.7	9.79
8	Gujarat	12.62	18.99	9.49
9	West Bengal	6.47	6.26	1.5
10	Bihar	2.58	1.9	2.22
	Other states	5.65	5.32	3.11
	Total	1998.34	1696.02	1601.46

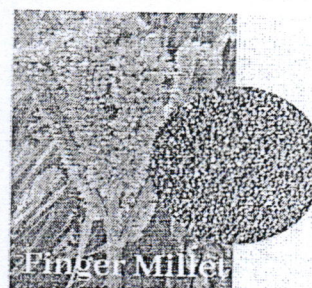
Source: Directorate of Economics & Statistics

Varieties of Millets Grown

Millet	Scientific Name
Pearl Millet	<i>Pennisetum glaucum.L.</i>
Sorghum	<i>Sorghum bicolor</i>
Finger Millet	<i>Eleusine coracana</i>
Small Millets:	
Foxtail Millet	<i>Setaria italica</i>
Barnyard Millet	<i>Echinochloa frumentacea</i>
Kodo Millet	<i>Paspalum scrobiculatum</i>
Proso Millet	<i>Panicum miliaceum L.</i>
Little Millet	<i>Panicum sumatrense</i>
Two Pseudo Millets:	
I. Buck wheat(Kuttu)	<i>Fagopyrum esculentum</i>
II. Amaranthus (Chaulai)	<i>Amaranthus viridis</i>

FINGER MILLET (RAGI)

Finger millet (*Eleusine coracana*), often known as ragi in India, stands unique among the cereals such as barley, rye and oats with higher nutritional contents and has outstanding properties as a subsistence food crop. It is rich in calcium, dietary fiber, phytates (0.48%), protein, minerals and phenolics. It is also a rich source of thiamine, riboflavin, iron, methionine, isoleucine, leucine, phenylalanine and other essential amino acids. The abundance of these phytochemicals enhances the nutraceutical potential of finger millet, making it a powerhouse of health benefiting nutrients. It has distinguished health beneficial properties, such as anti-diabetic, anti-diarrheal, antiulcer, anti-inflammatory, antitumorigenic, atherosclerogenic effects, antimicrobial and antioxidant properties.



Nutrient per 100g	
Energy (Kcal)	328
Protein	7.3 g
Carbohydrate	72 g
Crude Fibre	2.6 g
Calcium	344 mg
Iron	8.9 mg

02 MILLET PRODUCTION STATISTICS

State And Districts

Crop	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/Hectare)
BAJRA	2019-20	Kharif	418.00	281	0.67
JOWAR	2019-20	Kharif	3842.00	2752	0.72
RAGI	2019-20	Kharif	28611.00	24061	0.84
TOTAL			32934	27094	2.23

BAJRA (PEARL MILLET)

District	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/Hectare)
1. BOKARO	2018-19	Kharif	22	7	0.32
	2019-20	Kharif	85	77	0.91
2. DUMKA	2018-19	Kharif	36	27	0.75
	2019-20	Kharif	67	52	0.78
3. GIRIDIH	2018-19	Kharif	7	6	0.86
	2019-20	Kharif	22	17	0.77
4. GODDA	2019-20	Kharif	17	9	0.53
5. HAZARIBAGH	2019-20	Kharif	13	7	0.54
6. JAMTARA	2019-20	Kharif	2	1	0.50
7. KHUNTI	2019-20	Kharif	20	12	0.60
8. KODERMA	2018-19	Kharif	5	3	0.60

District	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/Hectare)
9. PALAMU	2019-20	Kharif	5	3	0.60
10. RAMGARH	2019-20	Kharif	9	5	0.56
11. SAHEBGANJ	2018-19	Kharif	6	4	0.67
	2019-20	Kharif	6	4	0.67
12. SARAIKELA KHARSAWAN	2018-19	Kharif	32	16	0.50
	2019-20	Kharif	19	9	0.47
13. SIMDEGA	2018-19	Kharif	10	7	0.70
	2019-20	Kharif	2	1	0.50
14. WEST SINGHBHUM	2018-19	Kharif	12	5	0.42
	2019-20	Kharif	21	9	0.43

JOWAR (SORGHUM)

District	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/Hectare)
1. BOKARO	2018-19	Kharif	84	60	0.71
	2019-20	Kharif	82	287	3.50
2. CHATRA	2018-19	Kharif	70	34	0.49
	2019-20	Kharif	30	14	0.47
3. DHANBAD	2018-19	Kharif	9	5	0.56
4. DUMKA	2018-19	Kharif	143	96	0.67
	2019-20	Kharif	103	70	0.68
5. EAST SINGHBUM	2018-19	Kharif	500	290	0.58
	2019-20	Kharif	800	448	0.56
6. GIRIDIH	2018-19	Kharif	408	483	1.18
	2019-20	Kharif	33	39	1.18
7. GODDA	2019-20	Kharif	48	25	0.52
8. HAZARIBAGH	2018-19	Kharif	32	22	0.69
	2019-20	Kharif	44	30	0.68

District	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/ Hectare)
9. JAMTARA	2018-19	Kharif	35	28	0.80
	2019-20	Kharif	80	96	1.20
10. KHUNTI	2018-19	Kharif	54	37	0.69
	2019-20	Kharif	17	6	0.35
11. KODERMA	2018-19	Kharif	78	39	0.50
	2019-20	Kharif	23	12	0.52
12. LATEHAR	2018-19	Kharif	110	38	0.35
13. LOHARDAGA	2018-19	Kharif	7	4	0.57
14. PAKUR	2018-19	Kharif	133	83	0.62
	2019-20	Kharif	96	72	0.75
15. PALAMU	2019-20	Kharif	23	16	0.70
16. RAMGARH	2018-19	Kharif	25	17	0.68
	2019-20	Kharif	190	129	0.68
17. SAHEBGANJ	2018-19	Kharif	30	20	0.67
	2019-20	Kharif	38	25	0.66
18. SARAIKELA KHARSAWAN	2018-19	Kharif	126	50	0.40
	2019-20	Kharif	61	23	0.38
19. SIMDEGA	2018-19	Kharif	30	18	0.60
	2019-20	Kharif	10	6	0.60
20. WEST SINGHBHUM	2018-19	Kharif	172	77	0.45
	2019-20	Kharif	118	53	0.45
Total - Jowar			3842	2752	0.72

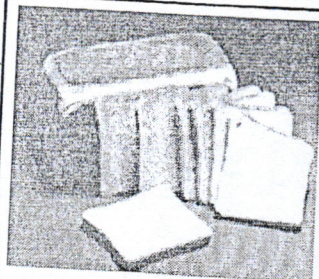
RAGI (FINGER MILLET)

District	Year	Season	Area (Hectare)	Production (Tonnes)	Yield (Tonnes/ Hectare)
1. BOKARO	2019-20	Kharif	284	625	2.20
2. CHATRA	2018-19	Kharif	104	149	1.43
	2019-20	Kharif	732	1069	1.46
3. DEOGHAR	2019-20	Kharif	35	18	0.51
4. DHANBAD	2018-19	Kharif	35	21	0.60
	2019-20	Kharif	31	22	0.71
5. DUMKA	2018-19	Kharif	1485	1062	0.72
	2019-20	Kharif	1065	772	0.72
6. GIRIDIH	2019-20	Kharif	845	304	0.36
7. GODDA	2019-20	Kharif	120	131	1.09
8. GUMLA	2018-19	Kharif	1296	1750	1.35
	2019-20	Kharif	1670	2305	1.38
9. HAZARIBAGH	2018-19	Kharif	242	172	0.71
	2019-20	Kharif	187	129	0.69
10. KHUNTI	2018-19	Kharif	2013	2375	1.18
	2019-20	Kharif	1689	1520	0.90
11. KODERMA	2018-19	Kharif	674	404	0.60
	2019-20	Kharif	544	326	0.60
12. LATEHAR	2018-19	Kharif	22	25	1.14
	2019-20	Kharif	327	376	1.15
13. LOHARDAGA	2018-19	Kharif	1312	525	0.40
	2019-20	Kharif	1080	432	0.40

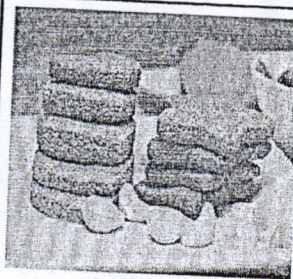
03 VALUE ADDED PRODUCTS

3.1 Ready to Eat Products

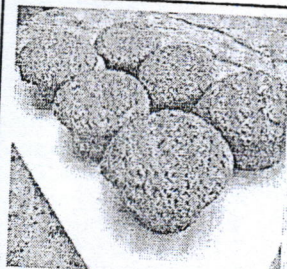
Prepared from Pearl Millet



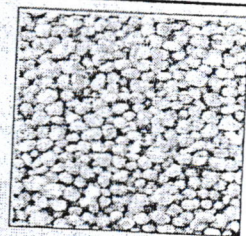
Bread



Cookies



Muffins

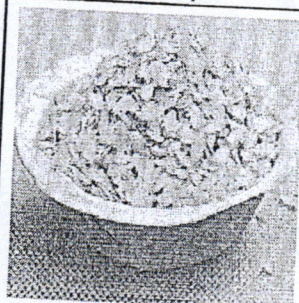


Puffed Bajra

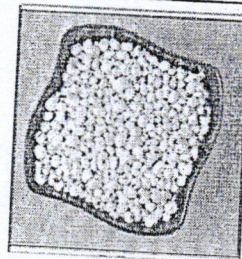
Prepared from Sorghum



Sorghum Flaked



Sorghum Flakes

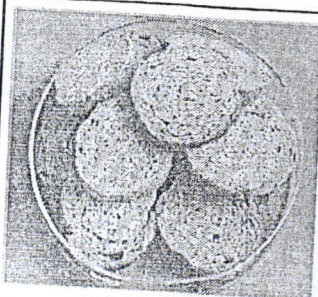


Sorghum Puffed

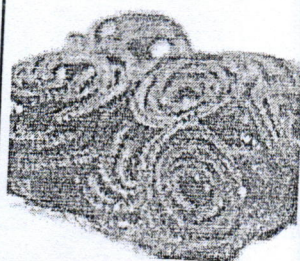


Sorghum Cookies

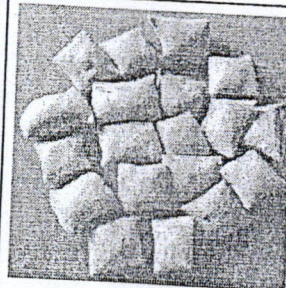
Prepared from Finger Millet



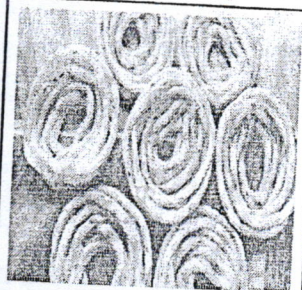
Ragi Rusk



Murukku

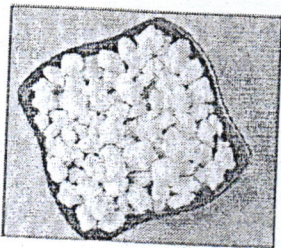


Ragi Snack

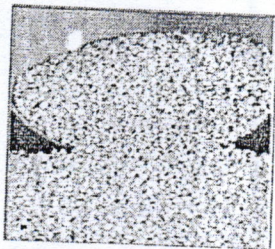


Extruded Snacks

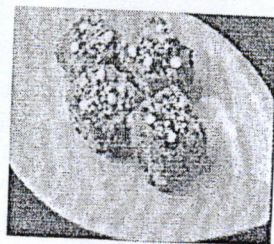
Prepared from Foxtail Millet



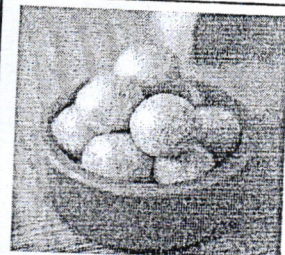
Foxtail Millet Snacks



Foxtail Millets Puffed



Foxtail Millet Cake

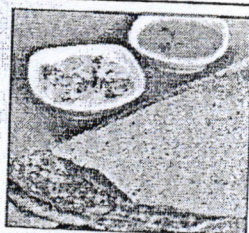


Foxtail Millet Laddu

3.2 Ready to Cook Products



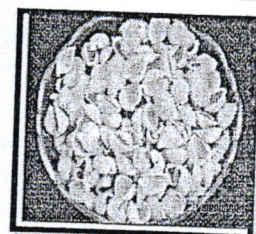
Pearl Millet Pasta



Sorghum Instant
Upma Mix



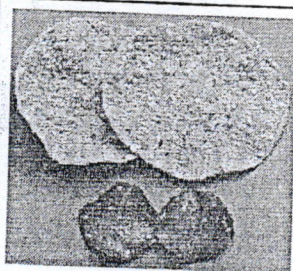
Sorghum Instant
Idli Mix



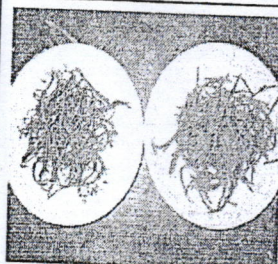
Finger Millet Pasta



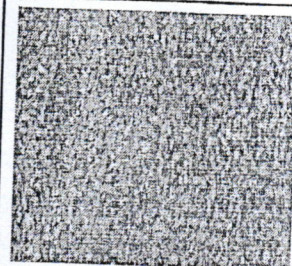
Ragi Roti



Ragi Papad



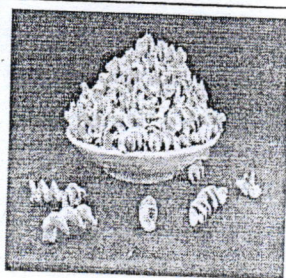
Ragi Vermicelli



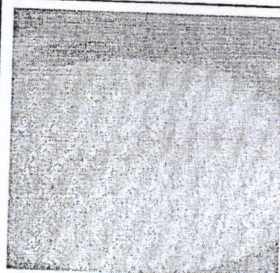
Ragi Porridge



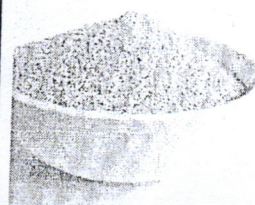
Multigrains Halwa



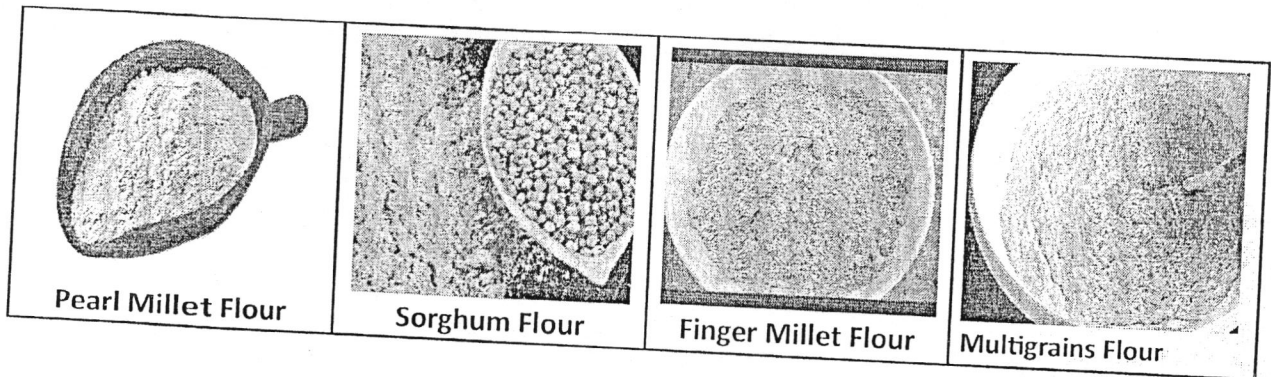
Multigrains Pasta



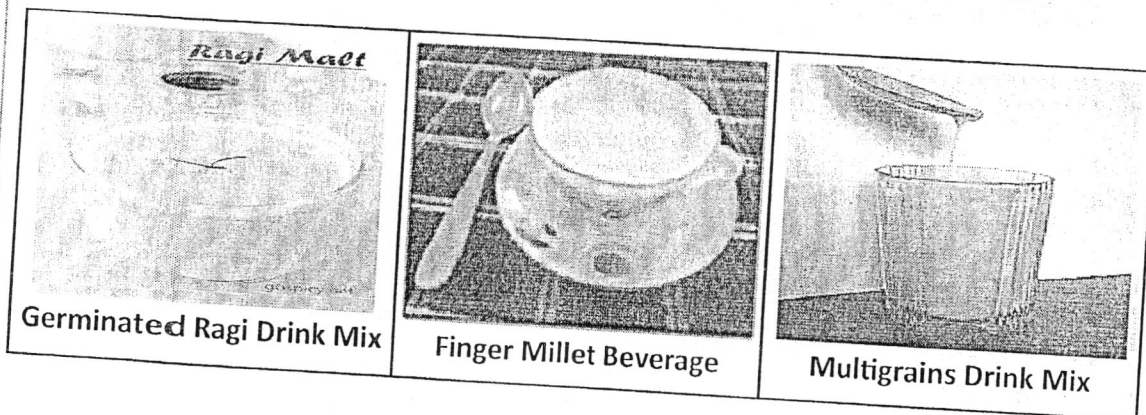
Kodo Millet Suji



Little Suji



3.3 Ready to Serve Products



04 STATE MISSION ON MILLETS

The Government of Jharkhand is promoting Millets specially Ragi (Finger Millet) which is grown in the state in a very scattered manner. Due to the high nutritive value the State Government is promoting millets under State livelihood Policy which is under the Department of Panchayat, and is mostly served in midday meal for school children & hospitals.

05 List of Farmers Producer Organizations (FPOs) of Millets

	FPOs Name	Address	City and State	Key Person	Mobile and Email
JKD-01-01-02(OTH)-05/2021	Jharia Mahila Krishi Bagwani Swawlambi Sahakari Samiti Limited	Goratoli, Murhu, Khunti	KHUNTI Jharkhand	Ekta Kumari	9334231083 murhucooperative@gmail.com
U01400JH2021PTC016313	Haldhar Samriddhi FED Farmer Producer Company Ltd	C/O- Chatur Mahto, Vill. Urba (Potamdaga), Po.- Bariyatu, Dulmi, Ramgarh, Jharkhand, 829150	Ramgarh Jharkhand	Mr. Hemant Satapathy	7008461705 chaturmahto36@gmail.com
U01100JH2021PTC016565	Maa Chhinmastike FED Farmer Producer Company Ltd.	C/O- Rajaram Karmali, Bhubhui, 90, Near Hanuman Mandir	Ramgarh Jharkhand	Mr. Hemant Satapathy	7008461705 yotindrab@gmail.com
U01100JH2021PTC016628	Bhairavi Damodar FED Farmer Producer Company Ltd.	C/O Anita Mahto, Kumhardaga, Gola, Ramgarh, Jharkhand 829110	Ramgarh Jharkhand	Mr. Hemant Satapathy	7008461705 amahto@gmail.com
U01100JH2021PTC016612	Kohavra Marshaldahar FED Farmer Producer Company Ltd	C/O: Bihari Hansda, Bhagaiya, Mandro, Sahebganj, Jharkhand, 813208	Sahibganj Jharkhand	Mr. Hemant Satapathy	7008461705 santusoren440@outlook.com
U01100JH2021PTC016696	Kisan Prasad FED Farmer Producer Company Ltd.	C/O Kanchan Kumar, Kishan Prasad, Rampur, Sahebganj, Sahibganj, Jharkhand, 816109	Sahibganj Jharkhand	Mr. Hemant Satapathy	7008461705 shyampaswan440@outlook.com

06 List of New Entrepreneurs / Start Ups

S. No.	RCMC No.	Exporter Name	Exporter Address	Exporter City
1	209354	AADIVAS FOODS PRIVATE LIMITED	C/O Madhura Ekka, S/o Benedik Ekka, Karamdipa,	RANCHI
2	172187	ACME INTERNATIONAL	HOUSE NO.15, TORPAROAD, P.O.KHUNTI,	KHUNTI
3	204721	AGREENPO	Titri Toli Jorar Namkom,	Ranchi
4	205602	AL NAAS INFRACON PRIVATE LIMITED	H. No. 5, RD. No. 12, ZAKIR NAGAR, EAST MANGO,	JAMSHEDPUR
5	175287	ALKA HIMGAR PRIVATE LIMITED	SINGH MANSION, INDRAPURI, RATU ROAD,	RANCHI
6	190086	ALL SEASONS FARM FRESH	30, TAJBUILDING, AAMBAGAN, SAKCHI,	JAMSHEDPUR
7	211810	AMBARAARAMBH INDUSTRIES LLP	S/o. GOPAL PRASAD SINGH, FLAT No. 802, BLOCK 6, SECTOR 1, NEAR KHELGAON STADIUM,	RANCHI
8	209353	ANKIT TRADERS	AMY SHOP No. 11, CHAS BOKARO, CHAS,	BOKARO
9	195057	ASHOK IMPEX	22, JAISWALVILLA, ANANTPUR, DORANDA,	RANCHI
10	194490	ASHOK KUMAR	MANDAIKHURD, P.O.REFORMATORYS CHOOOL,	HAZARIBAGH
11	219535	AVNI IMPORTING SOLUTIONS	BEHIND METRO FURNITURE, OPP GEL CHURCH HINDPIRI MAIN ROAD Contact No: 918102341431, RANCHI, RANCHI, JHARKHAND, 834001	RANCHI
12	179066	BABA FOOD PROCESSING INDIA PRIVATE LIMITED	504, MANGALMURTIHEIGHT, HARMUROAD, RANIBAGAN,	RANCHI

S. No.	RCMC No.	Exporter Name	Exporter Address	Exporter City
13	219400	BANU HASHIM ENTERPRISES PRIVATE LIMITED	So Lt. S. Bakar H. No 22 Rd. No 18 W, Old Purulia Road, Zakir Nagar, Mango, Jamshedpur, Purba Singhbhum, EAST SINGHBUM, JHARKHAND, 831020	JAMSHEDPUR
14	209093	CARE TRADERS	403, LINE No. 13, KASHIDIH, TRAIGHT MILE ROAD, SACKHI,	JAMSHEDPUR
15	207725	COMHEIGH IMPEX PRIVATE LIMITED	Flat No 2C, Block A, A K Residency Jora Talab Road, Bariatu,	RANCHI
16	203741	DEVPUSHP INFRA CON LLP	102, TILSHAWARI HIGHTS, DHAWANNAGAR, KANKE ROAD,	RANCHI
17	182473	DMD AGRO FOODS PRIVATE LIMITED	DURGANIWAS, 5and6, HUMEPIPE, BHUIYADIH, SAKCHI, SINGHBUMEAST	Jamshedpur
18	211415	EASTERN MOTORS	VILL. RAMAGARH, PLOT No. 354, P.S. CHANDIL,	SARAIKELA KHARSAWAN
19	177149	EPOCH AGRO PHARMA PRODUCER COMPANY LIMITED	MP/2HOUSINGCOLONY, HARMU,	RANCHI
20	167934	ESHWAR INTERNATIONAL	QR.No.130/2/1, ROADNo.12, ADITYAPUR-1,	JAMSHEDPUR
21	202503	G S ENTERPRISES	19EX/A, B/BLOCK, ROADNO-2, LINENO-3, DHATKIDIHJAMSHEDPUR,	JAMSHEDPUR
22	200059	GANPATI ENTERPRISES	DEVRAHABABACHOWK, ROADNo.3, BARSAGARHHATIA,	RANCHI
23	206971	GLOBAL ENTERPRISES	MUSLIM NAGAR, TELI PATTI, WARD No. 10,	DALTONGANJ
24	211082	GRAMPRENEUR EXIM PRIVATE LIMITED	HOUSE OF GOMA CHHETRY, SIDDHARTH NAGAR HOSPITAL LINE, JAP-1, DORANDA	Ranchi
25	209029	GRANT EXPORT PRIVATE LIMITED	F N 13, B B G TOWERS, KANKE ROAD, CHANDINI CHOWK, GANDHI NAGAR,	RANCHI

S. No.	RCMC No.	Exporter Name	Exporter Address	Exporter City
26	194302	GRIH LAXMI SALES AND MARKETING	B6, PHASE-2, ADITYAPUR INDUSTRIAL AREA, ADITYAPUR,	SERAIKELA KHARSAWAN
27	167509	HAPAMUNI HERBALS AND PHARMACEUTICALS PVT. LTD.,	SNEHVATIKA, AT-SAMLONG, P.O.-NAMKUM,	RANCHI
28	160164	HELIX EXPORTS	CHITRAGUPTANAGAR, BARGAIN, P.O.BARIATU,	RANCHI
29	209021	HOPEGROW INDIA PRIVATE LIMITED	55, GROUND FLOOR, NETERHAT ROAD, NAWADIH ADAR,	GHAGHRA
30	211215	KISSANPRO AGRO TECHNOLOGY PRIVATE LIMITED	FLAT NO 4 C GIATA TOWERS	RANCHI
31	211249	KUSUM INTERNATIONAL	HOUSE NO-14, WARD NO-01 MAHAJANTOLI, RAJMAHAL	RAJMAHAL
32	182150	LAKSHMAN PRASAD CHOUDHARY	DOMCHANCH, GIRIDIH ROAD	KODERMA
33	216992	M/S SHIV KRISHNA FOOD	HIRODIH, W/O SATISH YADAV, JAINAGAR, HIRODIH	KODERMA
34	216377	MAA MARIYAM ENTERPRISES	AT AMANAT DIYARA PO PIYARPUR PS RADHANAGAR	SAHIBGANJ
35	209839	MAA TARA BUILDTECH PRIVATE LIMITED	BARASI, JAGDISHPUR,	HAZARIBAGH
36	209914	MGM IMPORT AND EXPORT	S/O BISHWESH KUMAR TIHAPUR, HOUSE NO. 633, WARD 24, NEAR BARGAD TREE BILASI TOWN, DEOGHAR	DEOGHAR
37	208315	MILLIONARY GLOBAL EXIM PRIVATE LIMITED	ABHILASHA, ROAD No. 2, LALITGRAM COLONY, KANHITAD CHOWK, RATU	RANCHI
38	183038	MONDAL EXIM (OPC) PRIVATE LIMITED	VILLAGE-KELAHI, POST OFFICE-KELAHI	MIHJAM
39	181546	NAMHAR ENTERPRISE LLP	H.No.29, OLDPURULIAROAD, ZAFARNAGAR, P.O. ZADNAGAR, MANGO,	JAMSHEDPUR
40	194410	NILAI TRADING FZE	C/O HIMMUNDA, OPP. NARAYAN HOSPITAL, KADRU,	RANCHI
41	211897	NPK AGRIC	C/O Deep Kumar Lal, Holding No. 40-G, Radium Road,	RANCHI

S. No.	RCMC No.	Exporter Name	Exporter Address	Exporter City
42	191181	OM PARINIDHI TRADING CO.	R.P.PATELSCHOOLROAD, NEARKALIMANDIR, JUGSALAI,	JAMSHEDPUR
43	215774	PAVEKA OVERSEAS LLP	House No.40 Road No.2, Adrash Colony	JAMSHEDPUR
44	213400	PRADO SALES AND SERVICES PRIVATE LIMITED	Shop No. LGF-1 Mahindra Arcade, Opp. Wool House, Main Road,	RANCHI
45	185003	PRAKASH OVERSEAS AGRO TRADING CO.	10No., PAHARI, CHAUTHIKULHI, JHARIA,	DHANBAD
46	172522	PRATHAM GLOBAL EXPORT	BLOCKNO.195/2/2, ROADNO.9, ADITYAPUR-2, JAMSHEDPUR,	SARAIKELA KHARSAWAN
47	201020	PROGROW AGRITECH PRIVATE LIMITED	54, BUKRU, P.S.KANKE, PITHORIA,	RANCHI
48	205263	RAKESH KUMAR SHARMA	2436, SHARMA COLONY, PHUSRO,	BOKARO
49	193562	REAL AGRO FOODS PRIVATE LIMITED	Room No 3E, 3rd Floor, Madhulika Enclave, Bank More,	DHANBAD
50	172515	RELIANCE SECURE INDIA,	HI-63, HARMUHOUSINGCOLONY, HARMU,	RANCHI
51	184171	SAI AGRO EXIM PRIVATE LIMITED	BESIDESMURARITRANSPORT, JALANROAD, UPPERBAZAR,	RANCHI
52	162578	SAJJAD AHMED	M/S.SAJUSYSTEMS, BARKANDAZTOLA, BARABAZAR, P.O.-CHAIBASA,	WEST SINGHBHUM
53	188474	SAN LORENZO TRADING CORPORATION PRIVATE LIMITED	05, RAHATCOLONY, KADRU, P.S.ARGORA,	RANCHI
54	206812	SARU INTERNATIONAL	MAIN ROAD, ADITYAPUR,	KHARSAWAN
55	211027	SASON FOODS PRIVATE LIMITED	SHOP No. 2A, FIRST FLOOR, NILE COMPLEX, OLD HB ROAD,	RANCHI
56	202143	SATYA NARAYAN JALAN	JHOUSHAGARI, PO&DIST-	DEOGHAR
57	201670	SBG OVERSEAS	TILKAMANJICHOWK, ADRO,	SAHIBGANJ
58	204031	SEVEN SEAS INTERNATIONAL	HALUDBONI MAIN ROAD, TIMBER DEPOT, PARSUDIHI, TATA NAGAR,	EAST SINGHBUM
59	173509	SHAKTI PROJECTS & IMPEX PRIVATE LIMITED	FLATNO.-A1, B-BLOCK, SOURAVKUNJ, OPP. BACHPANSCHOOL, CHANDNICHOWK, KANKEROD,	RANCHI

S. No.	RCMC No.	Exporter Name	Exporter Address	Exporter City
60	199328	SKAI INTERNATIONAL	SCHOOLROAD, NOORNAGAR, PURANIRANCHI,	RANCHI
61	201814	SOMAY SNEH INDIA ENTERPRISES	B-15, NISHANTVIHAR, ADITYAPUR,	JAMSHEDPUR
62	205262	Soulful Holidays Travel Tech & Finance LLP	Agrasen Colony, Panchet Road, PO - Chirkunda,	DHANBAD
63	178502	SPS AGRO CARE	132-A, SOUTH OFFICE PARA, OPPOSITE-CRESCENT TOWER,	Ranchi
64	219782	SUMA TRADERS	Ward No. 04 Near Railway Crossing, House No, 154, Village- Narshingarh, Post- Dhalbhumgarh	Jamshedpur
65	197625	SUNILKIRAN EXPORTS PRIVATE LIMITED	162, GFLOOR, MALVIYAMARG, NEARBANSHILALCHOWK,	HAZARIBAGH
66	198829	SUYASH TRADING	INFORNTOFGOPALLODGE, WESTMARKETROAD, UPPERBAZAR,	RANCHI
67	198420	TISHA INTERNATIONAL	PODDO POKHAR, BARHARWA,	SAHIBGANJ
68	203382	TOUCH2CLOUD EXIM PRIVATE LIMITED	F.No. E-240 ABP, TAMOLIA, KAPALI, CHANDIL,	JAMSHEDPUR
69	212215	Trident Solution	CO Alok Dev 463A 2nd Floor Above IDBI Bank Ltd Ashok Nagar Argora Chowk	Ranchi
70	190694	TRIYAMBAKAM INTERNATIONAL	5, PARKMARKET, JHARNAPARA, HIRAPUR	DHANBAD
71	208966	VIKASH ENTERPRISES	HARINDANGA BAZAR,	PAKUR
72	205693	YELON EXPORT PRIVATE LIMITED	B-110, SECTOR 3, DHURWA,	RANCHI

07 List of Exporters of Millets

NO DATA AVAILABE

08 List of Stakeholders / State Agencies

APEDA OFFICE DETAILS

(A) DELHI (Head Quarter):

Address: 3rd Floor, NCUI Building 3, Siri Institutional Area,
August Kranti Marg, (Opp. Asiad Village),
New Delhi - 110 016, India
Phone: 91-11-41486013, 20863919, 20867008, 20867007
E-mail: headq[AT]apeda[DOT]gov[DOT]in

(B) KOLKATA (Regional Office):

Address: Agricultural and Processed Food Products Export Development Authority
Mayukh Bhawan, 4th Floor, Bidhan Nagar (Salt Lake),
Kolkata - 700091 (W.B.), Landmark- Near Bikash Bhawan, Salt Lake
Phone: +91- 033-23378363
Fax: +91- 033- 40669291
E-mail: sandeep[AT]apeda[DOT]gov[DOT]in

JHARKHAND STATE LIVELIHOOD PROMOTION SOCIETY

Promotion Society, Rural Development Department
Government of Jharkhand. Itki Road, Hehal, Ranchi -834005, Jharkhand.
0651 2360053 / 2360391
jslps.ranchi@gmail.com
Jharkhand State Livelihood

DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDRY & CO-OPERATIVE, JHARKHAND

Phone No: 2490929, 2490578
Fax No:
Email: jhagriculture[at]gmail[dot]com
Address: Nepal House, Doranda Ranchi, Jharkhand -834002



APEDA HEADQUARTER

Agricultural and Processed Food Products Export Development Authority
Ministry of commerce and industry, Govt of India
3rd Floor, NCUI Building 3, Siri Institutional Area, August Kranti Marg,
(Opp. Asiad Village), New Delhi - 110 016, India
Phone: 91-11-41486013, 20863919, 20867008, 20867007
E-mail: headq@apeda.gov.in | Web: www.apeda.gov.in

MUMBAI

Agricultural and Processed Food Products Export
Development Authority
4th Floor, Unit No. 3 & 4, Banking Complex Bldg. No.II,
Sector 19/A, Vashi New Mumbai-400705
Phone: +91- 022-27840949, 27845442, 27840350
Fax: +91- 022-27842273. E-mail: ravindra@apeda.gov.in

BENGALURU

Agricultural and Processed Food Products Export
Development Authority
1st Floor, Beeja Bhavan, Bellary Road, Hebbal, Bengaluru
- 560024. Phone: +91- 080 - 29731200, 080 - 29731206,
080-23419272. E-mail: ravindra@apeda.gov.in

KOLKATA

Agricultural and Processed Food Products Export
Development Authority
Mayukh Bhawan, 4th Floor, Bidhan Nagar (Salt Lake),
Kolkata - 700091 (W.B.), Landmark- Near Bikash Bhawan,
Salt Lake
Phone: +91- 033-23378363. Fax: +91- 033- 40669291
E-mail: sandeep@apeda.gov.in

TELANGANA

Agricultural and Processed Food Products Export
Development Authority
Room No. 908, 9th Floor, C.G.O. Towers, Kavadiiguda,
Secunderabad - 500080
Phone: +91- 040-24745940, 2474594
E-mail: udharmarao@apeda.gov.in

GUWAHATI

Agricultural and Processed Food Products Export
Development Authority
Housefed Complex, West End Block Building, 4th Floor,
Beltola-Basistha Road, Dispur, Guwahati,
Pin - 781006, Assam. Phone: +91- 0361-2221485
E-mail: sunita@apeda.gov.in

AHMEDABAD

Agricultural and Processed Food Products Export
Development Authority
Mardia Plaza, A-wing, 6th floor, CG Road, Near National
Handloom Corporation, Ahmedabad, Gujarat
Pin: 380006. Phone: 079 - 35333479
E-mail: harpreet@apeda.gov.in, apedaahm@apeda.gov.in

VARANASI

Agricultural and Processed Food Products Export
Development Authority
Horticulture Compound, Near Collectorate, Infront of
Circuit House Kuchahari, Varanasi, 221002. Phone: +91-
0542-2979288
E-mail: cbsingh@apeda.gov.in, povaranasi@apeda.gov.in

CHANDIGARH

Agricultural and Processed Food Products Export
Development Authority
Plot No. 2A, Sector 28-A, Madhya Marg
Chandigarh-160002
Phone: +91- 0172- 4640128
E-mail: csdudeja@apeda.gov.in, apedachd@apeda.gov.in

BHOPAL

Agricultural and Processed Food Products Export
Development Authority
26, Kisan Bhawan, Arera Hills, Bhopal, Madhya Pradesh-
462011. Phone: +91- 0755-4700764
E-mail: saurav@apeda.gov.in, apedabho@apeda.gov.in

CHENNAI

Agricultural and Processed Food Products Export
Development Authority
IIND FLOOR, Tamil Nadu State Marketing Board Building;
CIPET, Thiru Vi Ka Industrial Estate GUINDY CHENNAI-
600032. Phone: +044-29500249
E-mail: shobana@apeda.gov.in

KOCHI

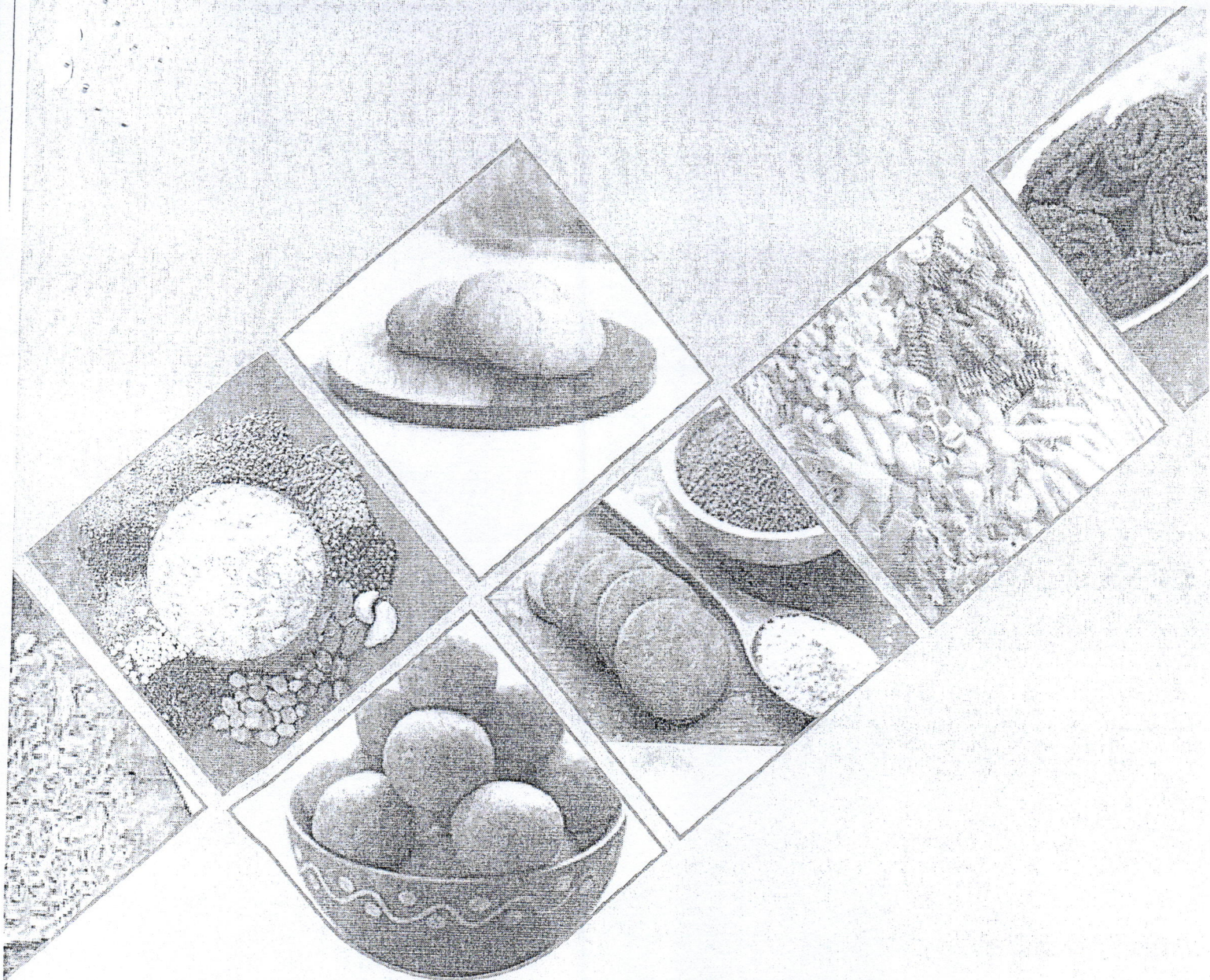
Agricultural and Processed Food Products Export
Development Authority
Room No. 4 C, 4th Floor, 'Sugandha Bhavan', Office of
Spices Board, N.H.By Pass, Palarivattom. P.O Kochi-
682025, Kerala, India. Phone: +91- 11-20863871
E-mail: simi@apeda.gov.in, apedakochi@apeda.gov.in

JAMMU

Agricultural and Processed Food Products Export
Development Authority
1st Floor, Room No. 3 & 4, Agriculture Extension Building
(Directorate of Agriculture) Gole Pully, Talab Tillo,
Jammu-180002. UT of Jammu and Kashmir
Phone: +91-0191-2955645
E-mail: dprasad@apeda.gov.in, apedajammu@gmail.com

LADAKH

Agricultural and Processed Food Products Export
Development Authority
District Industries Centre Leh, Near District Court,
Skampari, Leh 194101. UT of Ladakh. Phone: +91-11-
49076237
E-mail: dprasad@apeda.gov.in, apedaladakh@gmail.com



एपीडा
APEDA

Agricultural and Processed Food Products
Export Development Authority

Ministry of Commerce and Industry, Govt of India

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Crop Finger Millet

Variety : A-404 /VM-2 /VM-3/Birsa Maduya-3

Area : 1 ha

The details of the price of different commodities and cost of operation of production are as follows (per hectare) Year 2023-24 Kharif

S. N.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
1	Field operation					
a	No. of Ploughing	2	Ploughin	2000.00	4,000.00	1,600.00
2	Layout Bund preparation	3	Labour	200.00	600.00	240.00
3	Cost of seeds	10	kg.	40.00	400.00	160.00
4	Cost of Seed Treatment				200.00	80.00
5	Cost of Transplanting	16	Labour	200.00	3,200.00	1,280.00
6	Application of Manure (FYM) 25 qt.	1	Tractor	2500.00	2,500.00	1,000.00
7	Application of Azotobacter +PSB			200.00	200.00	80.00
8	Application of fertilizer 40:30:20::N:P:K Kg./ha.					
a	Nitrogen (40) through Urea	62	kg.	5.92	367.04	146.82
b	Phasphoras (30) through DAP	66	kg.	27	1,782.00	712.80
c	Potash (20) through M.O.P	34	kg.	34.00	1,156.00	462.40
d	Spreading Manure (FYM) & Fertilizer	2	Labour	200.00	400.00	160.00
8. a)	Irrigation cost					
b)	Cost of labour charge for irrigation 2 time				-	-
9	Intercultural opertions					
a.	Cost of weeding/earthing/ hoeing	6	Labour	200.00	1,200.00	480.00
12	Cost of Plant protection operation					
a	Cost of insecticide/pesticide/			1000.00	1,000.00	400.00
b	Cost of fungicide			500.00	500.00	200.00
c	Cost of herbicide				-	-
d	Cost of labour for Herbicide/ Fungicide/ Insecticide	1	Labour	200.00	200.00	80.00
13	Cost of labour charge for Top dressing of Urea with roughing	1	Labour	200.00	200.00	80.00

S. N.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
14	Cost of harvesting	12	Labour	200.00	2,400.00	960.00
15	Cost of threshing and Winnowing	6	Labour	200.00	1,200.00	480.00
16	Grading charge	2	Labour	200.00	400.00	160.00
17	Miscellaneous				94.96	37.98
18	Grand Total				22,000.00	8,800.00
19	Return (Grain)	12	qt.	3846.00	47,151.96	18,860.78
	(Straw)	24	qt.	150.00	3,600.00	1,440.00
	Total Return				50,751.96	20,300.78
20	Net Profit				28,751.96	
21	Cost of production (Rs./qntl.)				880.00	
22	Input Output ratio				2.31	

M. Singh
Agronomist
KVK, Ranchi

f. Singh
Director SAMETI,
Jharkhand

09/11/23
Deputy Director Agriculture
(Plan.), Directorate of
Agriculture, Ranchi

Variety : PHB13/14/15, HSB146/3/, Pusa Hy
Bajara 1201/1202

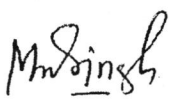
Area : 1 ha

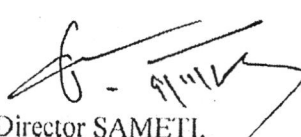
Crop : Bajara

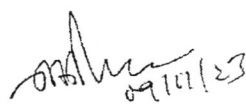
The details of the price of different commodities and cost of operation of production are as follows (per hectare) Year
2023-24 Kharif

S. N.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
1	Field operation					
a	No. of Ploughing	2	Ploughing	2000.00	4,000.00	1,600.00
2	Layout Bund preparation	3	Labour	200.00	600.00	240.00
3	Cost of seeds	5	kg.	90.00	450.00	180.00
4	Cost of Seed Treatment				200.00	80.00
5	Cost of Sowing	3	Labour	200.00	3,200.00	1,280.00
6	Application of Manure (FYM) 50 qt.	2	Tractor	2000.00	4,000.00	1,600.00
7	Application of Azotobacter +PSB			200.00	200.00	80.00
8	Application of fertilizer 80:40:40::N:P:K Kg./ha.					
a	Nitrogen (80) through Urea	141	kg.	5.92	834.72	333.89
b	Phosphorus (40) through DAP	88	kg.	27	2,376.00	950.40
c	Potash (40) through M.O.P	64	kg.	34.00	2,176.00	870.40
d	Spreading Manure (FYM) & Fertilizer	2	Labour	200.00	400.00	160.00
8. a)	Irrigation cost					
b)	Cost of labour charge for irrigation 2 time				-	-
9	Intercultural operations					
a.	Cost of weeding/earthing/hoeing	10	Labour	200.00	2,000.00	800.00
12	Cost of Plant protection operation					
a	Cost of insecticide/pesticide/			1000.00	1,000.00	400.00
b	Cost of fungicide			500.00	500.00	200.00
c	Cost of herbicide				-	-
d	Cost of labour for Herbicide/ Fungicide/ Insecticide	1	Labour	200.00	200.00	80.00
13	Cost of labour charge for Top dressing of Urea with roughing	1	Labour	200.00	200.00	80.00
14	Cost of harvesting	12	Labour	200.00	2,400.00	960.00

S. N.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
15	Cost of threshing and Winnowing	6	Labour	200.00	1,200.00	480.00
16	Grading charge	2	Labour	200.00	400.00	160.00
17	Miscellaneous				94.96	37.98
18	Grand Total				26,431.68	10,572.67
19	Return (Grain)	28	qt.	2500.00	70,000.00	28,000.00
	(Straw)	55	qt.	150.00	8,250.00	3,300.00
	Total Return				78,250.00	31,300.00
20	Net Profit				51,818.32	
21	Cost of production (Rs./qntl.)				1,057.27	
22	Input Output ratio				2.96	


Agronomist
KVK, Ranchi


Director SAMETI,
Jharkhand


Deputy Director Agriculture
(Plan.), Directorate of
Agriculture, Ranchi

Crop Jowar

Variety : CSV-20 /CSV1616/CSH-1

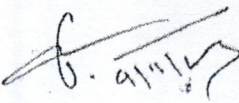
Area : 1 ha

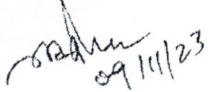
The details of the price of different commodities and cost of operation of production are as follows (per hectare) Year 2023-24 Kharif

S. N.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
1	Field operation					
a	No. of Ploughing	2	Ploughing	2000.00	4,000.00	1,600.00
2	Layout Bund preparation	3	Labour	200.00	600.00	240.00
3	Cost of seeds	12	kg.	60.00	720.00	288.00
4	Cost of Seed Treatment				200.00	80.00
5	Cost of Sowing	3	Labour	200.00	3,200.00	1,280.00
6	Application of Manure (FYM) 50 qt.	3	Tractor	2500.00	7,500.00	3,000.00
7	Application of Azotobacter +PSB			200.00	200.00	80.00
8	Application of fertilizer 60:40:20::N:P:K Kg./ha.					
a	Nitrogen (60) through Urea	97	kg.	5.92	574.24	229.70
b	Phosphorus (40) through DAP	88	kg.	27	2,376.00	950.40
c	Potash (20) through M.O.P	34	kg.	34.00	1,156.00	462.40
d	Spreading Manure (FYM) & Fertilizer	2	Labour	200.00	400.00	160.00
8 a)	Irrigation cost					
b)	Cost of labour charge for irrigation 2 time				-	-
9	Intercultural operations					
a.	Cost of weeding/earthing/ hoeing	6	Labour	200.00	1,200.00	480.00
12	Cost of Plant protection operation					
a	Cost of insecticide/pesticide/			1000.00	1,000.00	400.00
b	Cost of fungicide			500.00	500.00	200.00
c	Cost of herbicide				-	-
d	Cost of labour for Herbicide/ Fungicide/ Insecticide	1	Labour	200.00	200.00	80.00
13	Cost of labour charge for Top dressing of Urea with roughing	1	Labour	200.00	200.00	80.00
14	Cost of harvesting	12	Labour	200.00	2,400.00	960.00
15	Cost of threshing and Winnowing	6	Labour	200.00	1,200.00	480.00
16	Grading charge	2	Labour	200.00	400.00	160.00
17	Miscellaneous				94.96	37.98
18	Grand Total				28,121.20	11,248.48
19	Return (Grain)	24	qt.	3180.00	76,320.00	30,528.00
	(Straw)	40	qt.	150.00	6,000.00	2,400.00
	Total Return				82,320.00	32,928.00

A.	Operation	Total No.		Unit Rate Rs.	Total cost (Rs./ha)	Proposed Cost (Rs.)/Acre
20	Net Profit				54,198.80	
21	Cost of production (Rs./qntl.)				1,124.85	
22	Input Output ratio				2.93	


Agronomist
KVK, Ranchi


Director SAMETL,
Jharkhand


Deputy Director Agriculture
(Plan.), Directorate of
Agriculture, Ranchi